

02/10/2023



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, February 8, 2023
WELL WORK PERMIT
Horizontal 6A / New Drill

TUG HILL OPERATING, LLC
380 SOUTHPOINTE BOULEVARD, PLAZA II
SUITE 200
CANONSBURG, PA 15317

Re: Permit approval for MCMASTERS S-18HU
47-051-02487-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin
Chief

Operator's Well Number: MCMASTERS S-18HU
Farm Name: ROBERT L SHIELDS ET AL
U.S. WELL NUMBER: 47-051-02487-00-00
Horizontal 6A: New Drill
Date Issued: 2/8/2023

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

02/10/2023



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-414-1239

Randall M. Albert, Chairman
dep.wv.gov

January 23, 2023

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02487

COMPANY: Tug Hill Operating, LLC

FARM: Robert L. Shields, et al

McMasters S-18HU

COUNTY: Marshall

DISTRICT: Franklin

QUAD: Powhatan Point

The deep well review of the application for the above company is Approved to drill to Trenton for Point Pleasant completion.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? No.
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: **yes
4. Provided a plat showing that the productive interval of the well meets the requirements of the Rules of the Commission W. Va. C.S.R. § 39-1-4.2.

Sincerely,

Susan Rose
Administrator

**Corley N-8HU 47-051-01983, Corley N-10HU 47-051-01998, Burch Ridge S-7HU 47-051-02194, Burch Ridge S-8HU 47-051-02193, Blake U-7H 47-051-01766, McMasters N-11HU 47-051-02317, McMasters N-12HU 47-051-02316, McMasters N-13HU 47-051-02332, McMasters N-14HU 47-051-02333, McMasters N-15HU 47-051-02334, McMasters S-16HU 47-051-02337, McMasters S-17HU 47-051-02338, McMasters S-19HU 47-051-02488, McMasters S-20HU 47-051-02489, Summa U-4H 47-051-01742, Hillrock S-15HU 47-051-02263, Hillrock S-13HU 47-051-02279, Hillrock S-12HU 47-051-02272, Hillrock S-14HU 47-051-02262, Summa U-5H 47-051-01731, Elmer N-14HU 47-103-03502

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Tug Hill Operating, LLC 494510851 Marshall Franklin Powhatan Point 7
Operator ID County District Quadrangle

2) Operator's Well Number: McMasters S-18HU Well Pad Name: Shields

3) Farm Name/Surface Owner: Robert L. Shields, et al Public Road Access: Burch Ridge Road - CR 29

4) Elevation, current ground: 1,206' Elevation, proposed post-construction: 1,206'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow _____ Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Point Pleasant is the target formation at a depth of 11,149' - 11,266', thickness of 117' and anticipated pressure of approx. 7,500 psi.

8) Proposed Total Vertical Depth: 11,416'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 18,590'

11) Proposed Horizontal Leg Length: 6,901.54'

12) Approximate Fresh Water Strata Depths: 70; 802'

13) Method to Determine Fresh Water Depths: Based on the depth of Pittsburgh Coal seam, per WVGES mapping contours

14) Approximate Saltwater Depths: 1,306'

15) Approximate Coal Seam Depths: Sewickley Coal - 701' and Pittsburgh Coal - 796'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259ft ³ (CTS)
Fresh Water/Coal	20"	NEW	J55	106.5#	900'	900'	1,463ft ³ (CTS)
Intermediate 1	13 3/8"	NEW	J55	54.5#	2,600'	2,600'	1,835ft ³ (CTS)
Intermediate 2	9 5/8"	NEW	HPP110	47#	10,080'	10,080'	3,286ft ³ (CTS)
Production	5 1/2"	NEW	P110	23#	18,590'	18,590'	4,430ft ³ (CTS)
Tubing	2 7/8"	NEW	P110	6.5#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water/Coal	20"	26"	.5	2,410	1,928	SEE #24	1.2
Intermediate 1	13 3/8"	17 1/2"	.38	2,740	2,192	SEE #24	1.2
Intermediate 2	9 5/8"	12 1/4"	.472	10,730	6,968	SEE #24	1.33
Production	5 1/2"	8 1/2"	.415	16,510	13,208	SEE #24	1.17/1.19
Tubing	2 7/8"			14,530	11,624		
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
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Intermediate 2	9 5/8"	NEW	HPP110	47#	10,080'	10,080'	3,286ft ³ (CTS)
Production	5 1/2"	NEW	P110	23#	18,590'	18,590'	4,430ft ³ (CTS)
Tubing	2 7/8"	NEW	P110	6.5#			
Liners							

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
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Tubing	2 7/8"			14,530	11,624		
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

Steve Gans
12-1-2022
STRADER WORK

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Point Pleasant and TD Pilot Hole 150' into the Trenton. Log vertical section and run a solid cement plug back to proposed KOP(10,183'). Drill curve and lateral per proposed well plan, run and cement production casing. Perform CBL from 60 deg to surface, make cleanout run, and stimulate.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well to be completed with approximately 17,250,000 lb. proppant and 266,698 bbl of water. Max rate = 80bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.76 acres

22) Area to be disturbed for well pad only, less access road (acres): 5.84 acres

23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate strings will have 1 centralizer every other joint. Production casing will have one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

24) Describe all cement additives associated with each cement type:

Sfc - Premium NE-1 + 2% CaCl; Int1 - Premium NE-1 + 1.5% CaCL + Flake; Int2 - Lead: Premium NE-1 + 5% BA-90 + .85% R-3 + 3% KCl + .75 gals/100sk FP-13L + 1% MPA-170 Tail: Premium NE-1 + .1% R-3 + 5% KCl + 1% CD-32 + .4% FL-52 + .2% ASA-301 + .6% Sodium Metasilicate; Kick Plug - Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L; Prod - Lead: 50:50 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .75 gal/100sk FP-13L Tail: 25:75 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .375 gal/100sk FP-13L

25) Proposed borehole conditioning procedures:

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH

*Note: Attach additional sheets as needed.

4705102/87

02/10/2023

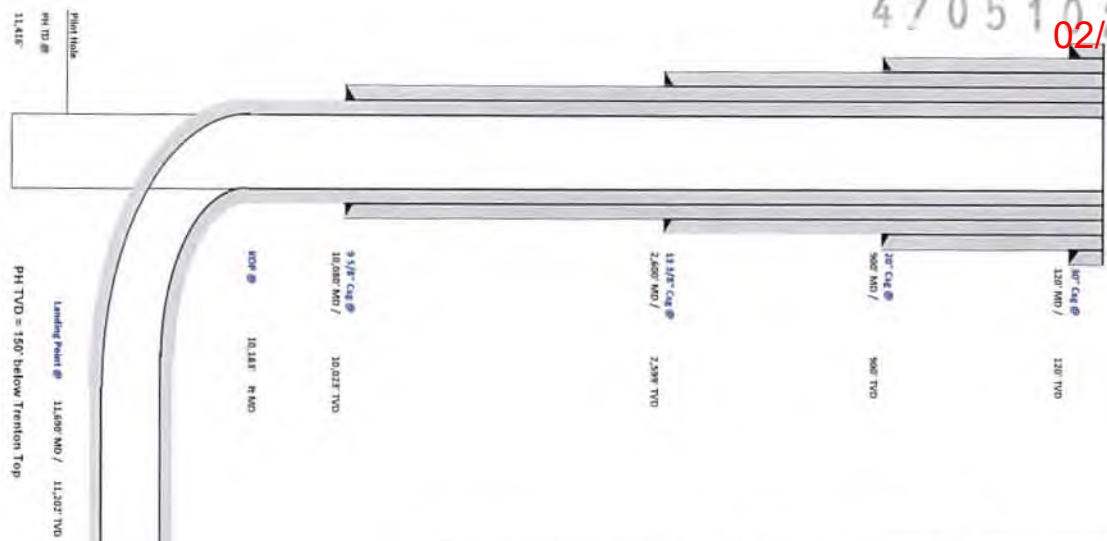


WELL NAME:	McKastersen S-18BU	COUNTY:	Marshall
STATE:	WV	DISTRICT:	Franklin
DEPT:	L205	GR. DEPT:	1,200'
TR:	1A, 500'	TR:	39, 76000203
TR Length:	80, 28747216	TR Length:	39, 749318
TR Length:	80, 273665	TR Length:	

FORMATION TOPS	Depth TVD
Formation	802'
Deepest Fresh Water	702'
Sensibility Coal	796'
Preheery's Coal	1,386'
Big lime	2,534'
Brass	4,361'
Tully	6,443'
Marathon	6,483'
Onondaga	7,176'
Selma	8,192'
Ladport	10,882'
Lida	11,149'
Point Pleasant	11,202'
Landing Depth	11,386'
Tension	11,436'
Road Hole TD	11,436'

CASING SUMMARY						
Type	Non-Size [in]	Csg Size [in]	Depth [MD]	Depth [TVD]	Weight [lb/ft]	Grade
Conductor	36	30	210'	120'	8W	Surface
Surface	36	20	960'	900'	10S.3	Surface
Intermediate 1	17 1/2	13 3/8	2,600'	2,599'	54.5	Surface
Intermediate 2	12 1/8	9 5/8	10,000'	10,033'	47	Surface
Production	8 1/2	5 1/2	18,590'	11,333'	23	Surface

CEMENT SUMMARY				DRILLING DETAILS	
Sacks	Class	Density	Fluid Type	Centerline Notes	None
338	A	15.6	AP	1 Concentrators at equal distance	
1,376	A	15.6	AP	1 Concentrator every other ft	
1,389	A	15	AP	1 Concentrator every other ft	
2,786	A	14.5	AP	1 Concentrator every other ft	
3,890	A	15	AP / 5000M	1 every other joint to lateral, 1 per joint to crown, 1 every other ft to etc.	



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Shelby Coover
STRATA Coover
12-1-2022

Lateral TD @ 18,590' RMD
11,333' RMD

02/10/2023

4705102487



Tug Hill Operating, LLC Casing and Cement Program
McMasters S-18HU

Casing

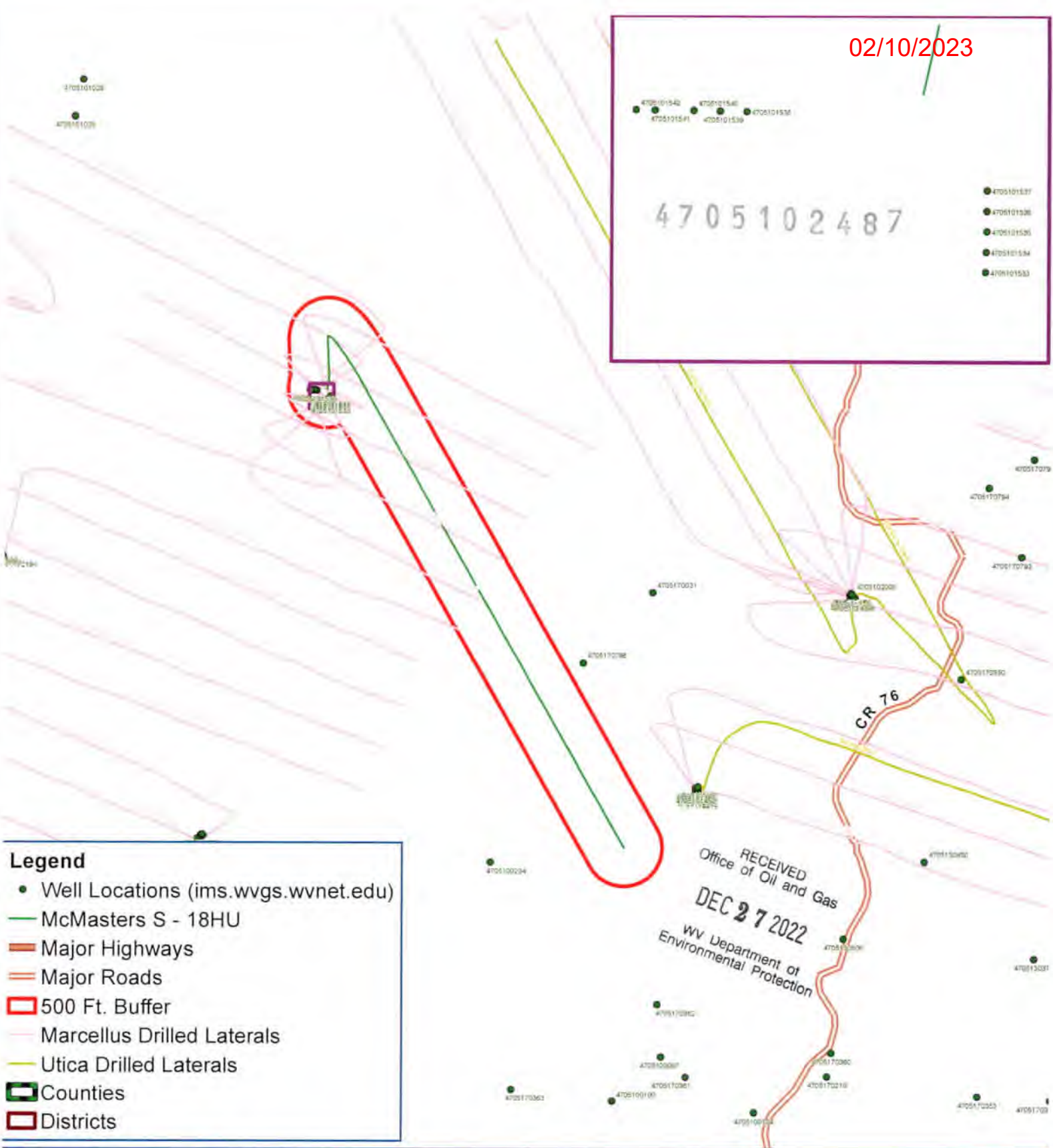
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	20"	J55	26"	900'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,600'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,080'	CTS
Production	5 1/2"	HCP110	8 1/2"	18,590'	CTS

Cement

Surface:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2
Intermediate 1:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.2
Intermediate 2:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.99
Production:	50:50 Poz; Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L – Production Cement mixed at 15.2ppg, Y = 1.18

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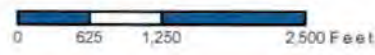
Legend

- Well Locations (ims.wvgs.wvnet.edu)
- McMasters S - 18HU
- Major Highways
- Major Roads
- 500 Ft. Buffer
- Marcellus Drilled Laterals
- Utica Drilled Laterals
- Counties
- Districts

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McMasters S - 18HU Franklin District Marshall County, WV



Area of Review

4705102487

Sources of information to Support 35CSR8 - 5.11: 9.3 et seq.

Description of process to identify potential pathways for well communication during hydraulic fracturing activities.

Data Sources Reviewed:

1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases
2. Farm Maps
3. Topo Maps: Recent and older (contact WVGES)
4. Check with DPS

Contacted Devin Ducoeur 724-705-0444, dducoeur@dpslandservices.com DPS GIS (06/02/2020) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

1. Wellbore with IHS All Wells Layer
2. Map with Farm lines overlain and any well spots identified on Farm Maps
3. More recent (1970s vintage) topos and older topos

Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- WVGES has plotted every well spot they have access to and are aware of with that contains a coordinate. 30000, 70000, and 90000 series wells are available via the WVGES online map. Some locations aren't great due to vintage and manipulation of maps through time
- 30000 series – any well drilled prior to 1929 – APIs were not assigned to original wells
- 70000 series – Well spots pulled from old Farm line maps that the WVGES has access to
- 90000 series – Any sources that the WVGES has access that shows a well spot but has no additional supporting information. DEP does not have 90000 series on their maps.
- There can be duplication between wells in the 3 series
- Phil indicated that other Operators are providing a screenshot of the WVGES map with their planned well and using that for permits

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4705102401

Permit well - McMasters S-18HU

Wells within 500' Buffer

Note: Well spots depicted on Area of Review map are derived from State field coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots.

API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
4705101533	Tug Hill Operating, LLC	6509' TVD, 9961' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101534	Tug Hill Operating, LLC	6514' TVD, 9890' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101535	Tug Hill Operating, LLC	6519' TVD, 9850' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101536	Tug Hill Operating, LLC	6526' TVD, 10185' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101537	Tug Hill Operating, LLC	6527' TVD, 10560' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101538	Tug Hill Operating, LLC	6494' TVD, 9541' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101539	Tug Hill Operating, LLC	6488' TVD, 11480' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101540	Tug Hill Operating, LLC	6490' TVD, 12101' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101541	Tug Hill Operating, LLC	6485' TVD, 9612' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.
4705101542	Tug Hill Operating, LLC	6487' TVD, 11281' MD	Marcellus	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Proper casing and cement should further prevent migration of fluids from new wellbore to existing wellbore.	Producing Marcellus horizontal well.

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West County - El Paso - 1122

Worksheet: Sheet1

Worksheet: Sheet2

Worksheet: Sheet3

Worksheet: Sheet4

Worksheet: Sheet5

Well ID	Well Name	Operator	Completion Date	Production (bbl)	Injection (bbl)	Water (bbl)	Gas (bbl)	Oil (bbl)	Other (bbl)
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10

West County - El Paso - 1123

Worksheet: Sheet1

Worksheet: Sheet2

Worksheet: Sheet3

Worksheet: Sheet4

Worksheet: Sheet5

Well ID	Well Name	Operator	Completion Date	Production (bbl)	Injection (bbl)	Water (bbl)	Gas (bbl)	Oil (bbl)	Other (bbl)
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10

West County - El Paso - 1124

Worksheet: Sheet1

Worksheet: Sheet2

Worksheet: Sheet3

Worksheet: Sheet4

Worksheet: Sheet5

Well ID	Well Name	Operator	Completion Date	Production (bbl)	Injection (bbl)	Water (bbl)	Gas (bbl)	Oil (bbl)	Other (bbl)
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10

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West County - 21 Period - 0100

West County - 21 Period - 0100
West County - 21 Period - 0100
West County - 21 Period - 0100

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

There is no History of any wells in this well.

There is no History of any wells in this well.

There is no History of any wells in this well.

West County - 21 Period - 0101

West County - 21 Period - 0101
West County - 21 Period - 0101
West County - 21 Period - 0101

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

There is no History of any wells in this well.

There is no History of any wells in this well.

There is no History of any wells in this well.

West County - 21 Period - 0102

West County - 21 Period - 0102
West County - 21 Period - 0102
West County - 21 Period - 0102

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

Table with columns: Date, Well Name, Status, etc.

There is no History of any wells in this well.

There is no History of any wells in this well.

There is no History of any wells in this well.

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West County # 01 Permit # 0100

Table 1: Production Data for West County # 01 Permit # 0100. This table contains multiple columns for well names, dates, and production volumes. It is divided into sections for different wells and time periods.

West County # 01 Permit # 0100

Table 2: Production Data for West County # 01 Permit # 0100. This table continues the production data from the first table, showing additional well names and production metrics.

West County # 01 Permit # 0100

Table 3: Production Data for West County # 01 Permit # 0100. This table provides further production data, including well names and associated production values.

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Web County - F1 Permit - F1542

TABLE 1: PERMIT INFORMATION

Permit No.	Permit Title	Applicant	Location	Effective Date	Expiration Date
F1542

TABLE 2: WELL INFORMATION

Well No.	Well Name	Operator	Depth	Completion Date
...

TABLE 3: PRODUCTION DATA

Month	Oil (bbl)	Gas (Mcf)	Water (bbl)
Jan
Feb

TABLE 4: OPERATIONAL DATA

Parameter	Value
...	...

TABLE 5: COMPLIANCE DATA

Category	Requirement	Compliance Status
...

There is no flaring data for this well.
There is no nitrogen data for this well.

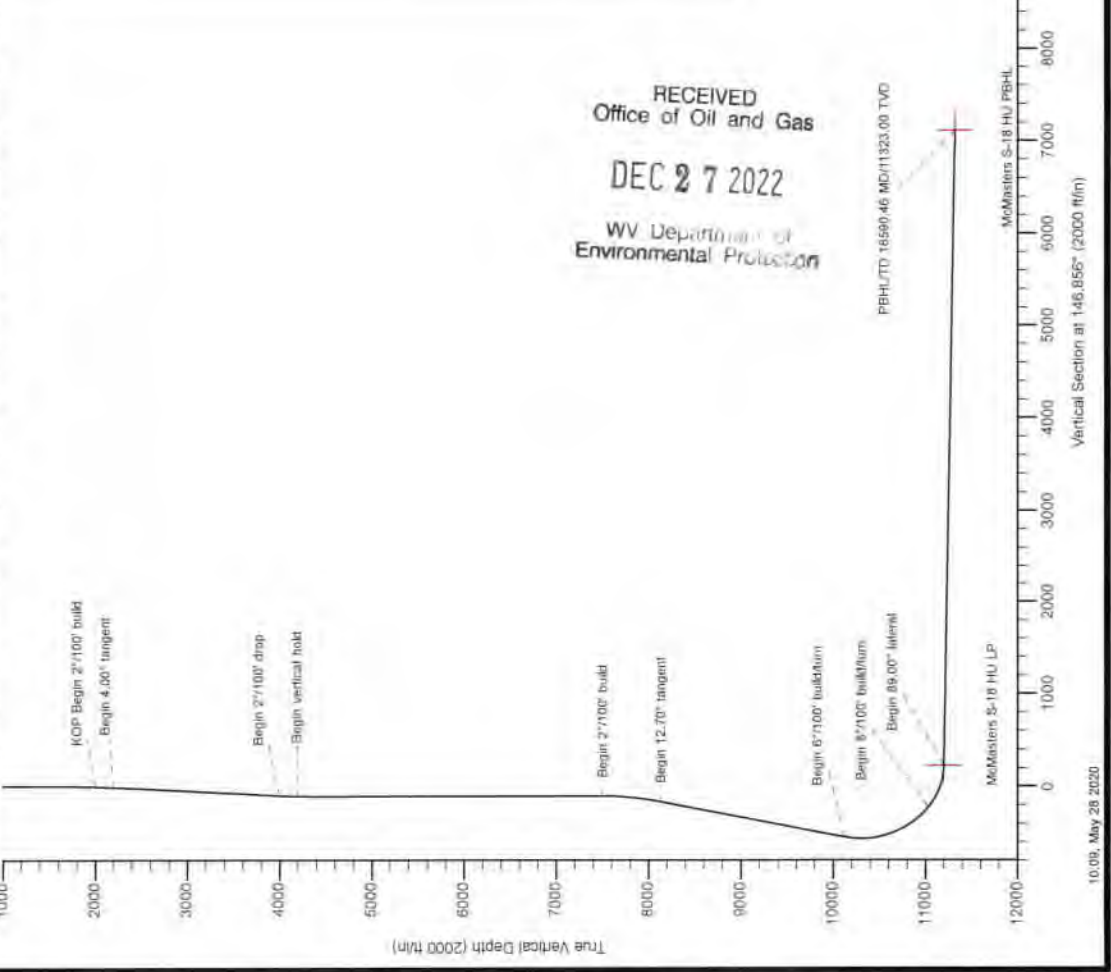
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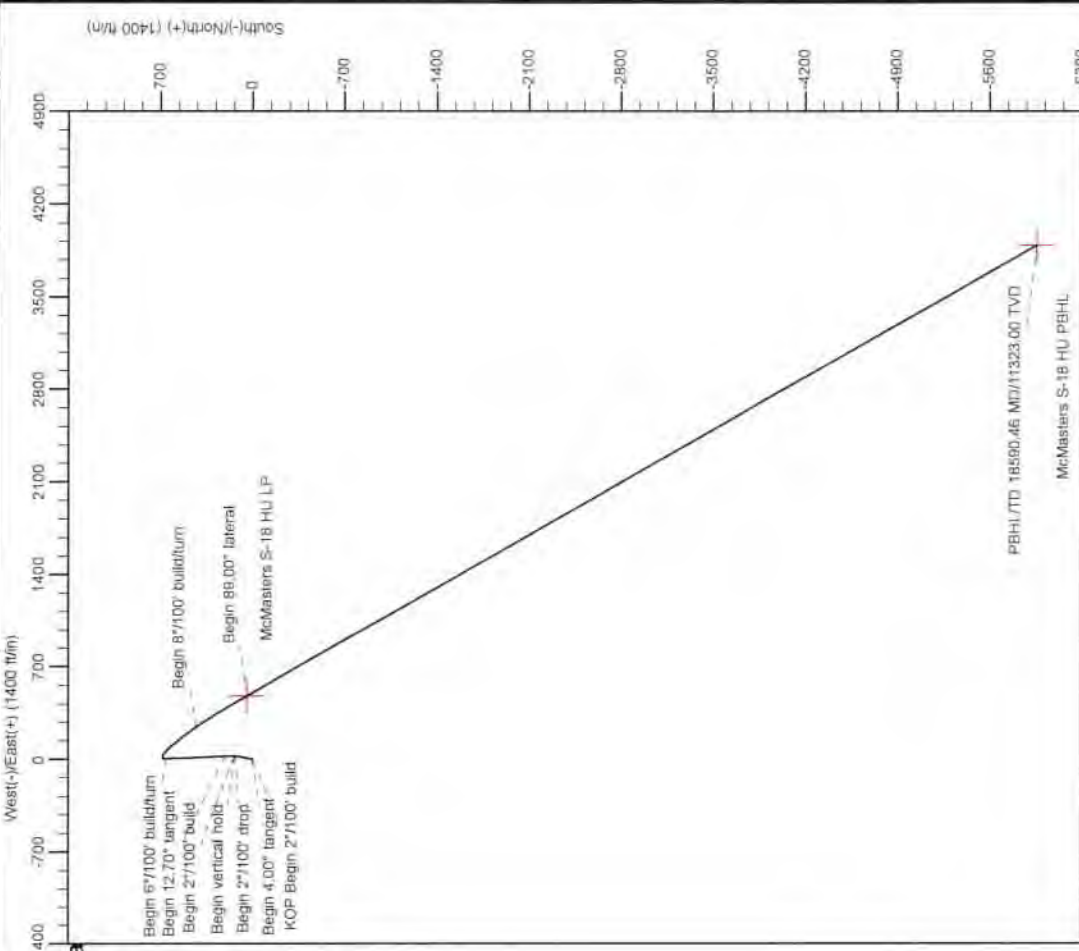
Well: **McMasters S-18 HU (slot H)**
 Site: **McMasters Shields**
 Project: **Marshall County, West Virginia**
 Design: **rev 2**
 Rig:

SECTION DETAILS

SPC	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000	0.00	
2	2000.00	0.00	0.000	2000.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 2'100' build
3	2200.00	4.00	10.000	2199.84	6.87	1.21	2.00	0.000	-86.94	Begin 4.00' tangent
4	4004.56	0.00	10.000	4000.00	130.84	23.97	0.00	0.000	-102.03	Begin vertical hold
5	4204.56	0.00	10.000	4199.84	137.71	24.28	2.00	180.000	-102.03	Begin 2'100' drop
6	7504.72	0.00	10.000	7500.00	137.71	24.28	2.00	190.000	-162.18	Begin 2'100' build
7	8139.67	12.70	357.788	8129.96	207.78	21.58	2.00	357.788	-547.51	Begin 12.70' tangent
8	10182.72	12.70	357.788	10122.80	656.96	4.54	0.00	0.000	-547.51	Begin 6'100' build
9	11039.67	86.00	146.366	11033.41	424.46	47.65	0.00	152.165	-227.62	Begin 6'100' build
10	11850.46	86.00	150.385	11833.00	-5856.36	3869.37	0.00	0.000	7113.75	PBHL/TD 18590.46 MD/11323.00 TVD



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Geodetic System: Universal Transverse Mercator (US Survey Foot)
 Datum: NAD83 West Virginia - HARN
 Ellipsoid: GRS 1980
 Zone: Zone 17N (84 W to 78 W)
 System Datum: Mean Sea Level
 Depth Reference: GL @ 1206.00ft
 Northing: 14439522.41
 Easting: 1700142.80
 Latitude: 39.7603203
 Longitude: -80.76747215
 Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.84°
 Azimuths to Grid North
 True North: -0.14°
 Magnetic North: -8.84°
 Magnetic Field
 Strength: 51863.8nT
 Dip Angle: 66.74°
 Data: 12/06/2019
 Model: IGRF2015



4705102487
 02/10/2023



Database:	DB_Aug1918_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Project	Marshall County, West Virginia		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD83 West Virginia - HARN		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	McMasters Shields				
Site Position:		Northing:	14,439,441.76 usft	Latitude:	39.76008050
From:	Lat/Long	Easting:	1,700,145.18 usft	Longitude:	-80.78746471
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.136 °

Well	McMasters S-18 HU (slot H)					
Well Position	+N/-S	0.00 ft	Northing:	14,439,522.42 usft	Latitude:	39.76030203
	+E/-W	0.00 ft	Easting:	1,700,142.90 usft	Longitude:	-80.78747216
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	1,206.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/9/2019	-8.707	66.739	51,883.55522183

Design	rev2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	146.856

Plan Survey Tool Program	Date	5/28/2020		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,590.46 rev2 (Original Hole)	MWD MWD - Standard	

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4705102487



Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.000	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,200.00	4.00	10.000	2,199.84	6.87	1.21	2.00	2.00	0.00	10.000	
4,004.56	4.00	10.000	4,000.00	130.84	23.07	0.00	0.00	0.00	0.000	
4,204.56	0.00	10.000	4,199.84	137.71	24.28	2.00	-2.00	0.00	180.000	
7,504.72	0.00	10.000	7,500.00	137.71	24.28	0.00	0.00	0.00	10.000	
8,139.87	12.70	357.788	8,129.96	207.78	21.58	2.00	2.00	-1.92	357.788	
10,182.72	12.70	357.788	10,122.80	656.66	4.24	0.00	0.00	0.00	0.000	
11,199.67	50.00	145.566	11,033.41	424.79	243.20	6.00	3.67	14.53	152.165	
11,690.18	89.00	150.385	11,202.00	41.55	479.95	8.00	7.95	0.98	7.630	
18,590.46	89.00	150.385	11,323.00	-5,956.36	3,889.37	0.00	0.00	0.00	0.000	McMasters S-18 HU F

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Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey									
Measured Depth (ft)	Inclination (")	Azimuth (")	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
100.00	0.00	0.000	100.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
200.00	0.00	0.000	200.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
300.00	0.00	0.000	300.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
400.00	0.00	0.000	400.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
500.00	0.00	0.000	500.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
600.00	0.00	0.000	600.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
700.00	0.00	0.000	700.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
800.00	0.00	0.000	800.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
900.00	0.00	0.000	900.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,000.00	0.00	0.000	1,000.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,100.00	0.00	0.000	1,100.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,200.00	0.00	0.000	1,200.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,300.00	0.00	0.000	1,300.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,400.00	0.00	0.000	1,400.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,500.00	0.00	0.000	1,500.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,600.00	0.00	0.000	1,600.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,700.00	0.00	0.000	1,700.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,800.00	0.00	0.000	1,800.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
1,900.00	0.00	0.000	1,900.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
2,000.00	0.00	0.000	2,000.00	0.00	0.00	14,439,522.42	1,700,142.90	39.76030203	-80.78747216
KOP Begin 2°/100' build									
2,100.00	2.00	10.000	2,099.98	1.72	0.30	14,439,524.14	1,700,143.20	39.76030675	-80.78747107
2,200.00	4.00	10.000	2,199.84	6.87	1.21	14,439,529.29	1,700,144.11	39.76032090	-80.78746779
Begin 4.00° tangent									
2,300.00	4.00	10.000	2,299.59	13.74	2.42	14,439,536.16	1,700,145.32	39.76033976	-80.78746342
2,400.00	4.00	10.000	2,399.35	20.61	3.63	14,439,543.03	1,700,146.53	39.76035861	-80.78745905
2,500.00	4.00	10.000	2,499.11	27.48	4.85	14,439,549.90	1,700,147.75	39.76037747	-80.78745469
2,600.00	4.00	10.000	2,598.86	34.35	6.06	14,439,556.77	1,700,148.96	39.76039633	-80.78745032
2,700.00	4.00	10.000	2,698.62	41.22	7.27	14,439,563.64	1,700,150.17	39.76041519	-80.78744595
2,800.00	4.00	10.000	2,798.38	48.09	8.48	14,439,570.51	1,700,151.38	39.76043405	-80.78744158
2,900.00	4.00	10.000	2,898.13	54.96	9.69	14,439,577.38	1,700,152.59	39.76045290	-80.78743721
3,000.00	4.00	10.000	2,997.89	61.83	10.90	14,439,584.25	1,700,153.80	39.76047176	-80.78743284
3,100.00	4.00	10.000	3,097.65	68.70	12.11	14,439,591.12	1,700,155.01	39.76049062	-80.78742848
3,200.00	4.00	10.000	3,197.40	75.57	13.32	14,439,597.99	1,700,156.22	39.76050948	-80.78742411
3,300.00	4.00	10.000	3,297.16	82.44	14.54	14,439,604.86	1,700,157.44	39.76052834	-80.78741974
3,400.00	4.00	10.000	3,396.91	89.31	15.75	14,439,611.73	1,700,158.65	39.76054720	-80.78741537
3,500.00	4.00	10.000	3,496.67	96.18	16.96	14,439,618.60	1,700,159.86	39.76056605	-80.78741100
3,600.00	4.00	10.000	3,596.43	103.05	18.17	14,439,625.47	1,700,161.07	39.76058491	-80.78740664
3,700.00	4.00	10.000	3,696.18	109.92	19.38	14,439,632.33	1,700,162.28	39.76060377	-80.78740227
3,800.00	4.00	10.000	3,795.94	116.79	20.59	14,439,639.20	1,700,163.49	39.76062263	-80.78739790
3,900.00	4.00	10.000	3,895.70	123.66	21.80	14,439,646.07	1,700,164.70	39.76064149	-80.78739353
4,000.00	4.00	10.000	3,995.45	130.53	23.02	14,439,652.94	1,700,165.91	39.76066034	-80.78738916
4,004.56	4.00	10.000	4,000.00	130.84	23.07	14,439,653.28	1,700,165.97	39.76066120	-80.78738896
Begin 2°/100' drop									
4,100.00	2.09	10.000	4,095.30	135.83	23.95	14,439,658.25	1,700,166.85	39.76067491	-80.78738579
4,200.00	0.09	10.000	4,195.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068006	-80.78738460
4,204.56	0.00	10.000	4,199.84	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
Begin vertical hold									
4,300.00	0.00	10.000	4,295.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
4,400.00	0.00	10.000	4,395.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
4,500.00	0.00	10.000	4,495.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
4,600.00	0.00	10.000	4,595.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
4,700.00	0.00	10.000	4,695.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459

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Planning Report - Geographic

Database:	DB_Aug1818_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,800.00	0.00	10.000	4,795.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
4,900.00	0.00	10.000	4,895.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,000.00	0.00	10.000	4,995.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,100.00	0.00	10.000	5,095.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,200.00	0.00	10.000	5,195.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,300.00	0.00	10.000	5,295.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,400.00	0.00	10.000	5,395.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,500.00	0.00	10.000	5,495.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,600.00	0.00	10.000	5,595.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,700.00	0.00	10.000	5,695.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,800.00	0.00	10.000	5,795.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
5,900.00	0.00	10.000	5,895.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,000.00	0.00	10.000	5,995.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,100.00	0.00	10.000	6,095.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,200.00	0.00	10.000	6,195.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,300.00	0.00	10.000	6,295.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,400.00	0.00	10.000	6,395.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,500.00	0.00	10.000	6,495.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,600.00	0.00	10.000	6,595.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,700.00	0.00	10.000	6,695.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,800.00	0.00	10.000	6,795.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
6,900.00	0.00	10.000	6,895.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,000.00	0.00	10.000	6,995.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,100.00	0.00	10.000	7,095.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,200.00	0.00	10.000	7,195.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,300.00	0.00	10.000	7,295.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,400.00	0.00	10.000	7,395.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,500.00	0.00	10.000	7,495.28	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
7,504.72	0.00	10.000	7,500.00	137.71	24.28	14,439,660.13	1,700,167.18	39.76068007	-80.78738459
Begin 2°/100' build									
7,600.00	1.91	357.788	7,595.26	139.30	24.22	14,439,661.71	1,700,167.12	39.76068442	-80.78738480
7,700.00	3.91	357.788	7,695.13	144.36	24.03	14,439,666.78	1,700,166.93	39.76069833	-80.78738545
7,800.00	5.91	357.788	7,794.76	152.90	23.70	14,439,675.32	1,700,166.60	39.76072180	-80.78738855
7,900.00	7.91	357.788	7,894.03	164.92	23.23	14,439,687.34	1,700,166.13	39.76075479	-80.78739810
8,000.00	9.91	357.788	7,992.82	180.39	22.63	14,439,702.80	1,700,165.53	39.76079728	-80.78739010
8,100.00	11.91	357.788	8,091.00	199.29	21.90	14,439,721.71	1,700,164.80	39.76084970	-80.78739254
8,139.87	12.70	357.788	8,128.96	207.76	21.58	14,439,730.20	1,700,164.48	39.76087252	-80.78739363
Begin 12.70° tangent									
8,200.00	12.70	357.788	8,188.62	220.99	21.07	14,439,743.41	1,700,163.97	39.76090661	-80.78739534
8,300.00	12.70	357.788	8,286.17	242.97	20.22	14,439,765.38	1,700,163.12	39.76096916	-80.78739817
8,400.00	12.70	357.788	8,383.72	264.94	19.37	14,439,787.36	1,700,162.27	39.76103171	-80.78740101
8,500.00	12.70	357.788	8,481.27	286.91	18.52	14,439,809.33	1,700,161.42	39.76109426	-80.78740384
8,600.00	12.70	357.788	8,578.83	308.89	17.67	14,439,831.30	1,700,160.57	39.76115681	-80.78740667
8,700.00	12.70	357.788	8,676.38	330.86	16.82	14,439,853.28	1,700,159.72	39.76121936	-80.78740951
8,800.00	12.70	357.788	8,773.93	352.83	15.97	14,439,875.25	1,700,158.87	39.76127091	-80.78741234
8,900.00	12.70	357.788	8,871.48	374.81	15.12	14,439,897.22	1,700,158.02	39.76133246	-80.78741518
9,000.00	12.70	357.788	8,969.04	396.78	14.28	14,439,919.20	1,700,157.18	39.76139401	-80.78741801
9,100.00	12.70	357.788	9,066.59	418.75	13.43	14,439,941.17	1,700,156.33	39.76145556	-80.78742085
9,200.00	12.70	357.788	9,164.14	440.73	12.58	14,439,963.14	1,700,155.48	39.76151711	-80.78742368
9,300.00	12.70	357.788	9,261.69	462.70	11.73	14,439,985.12	1,700,154.63	39.76157866	-80.78742652
9,400.00	12.70	357.788	9,359.24	484.68	10.88	14,440,007.09	1,700,153.78	39.76164021	-80.78742935
9,500.00	12.70	357.788	9,456.80	506.65	10.03	14,440,029.06	1,700,152.93	39.76169376	-80.78743218
9,600.00	12.70	357.788	9,554.35	528.62	9.18	14,440,051.04	1,700,152.08	39.76175531	-80.78743502
9,700.00	12.70	357.788	9,651.90	550.60	8.33	14,440,073.01	1,700,151.23	39.76181686	-80.78743785

REGISTRY
Office of Statewide Gas
DEC 27 2022
WV Dept of Environmental Protection



Planning Report - Geographic

Database:	DB_Aug1918_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,800.00	12.70	357.788	9,749.45	572.57	7.49	14,440,094.99	1,700,150.39	39.76187442	-80.78744069	
9,900.00	12.70	357.788	9,847.01	594.54	6.64	14,440,116.96	1,700,149.54	39.76183477	-80.78744352	
10,000.00	12.70	357.788	9,944.56	616.52	5.79	14,440,138.93	1,700,148.69	39.76199512	-80.78744636	
10,100.00	12.70	357.788	10,042.11	638.49	4.94	14,440,160.91	1,700,147.84	39.76205547	-80.78744919	
10,182.72	12.70	357.788	10,122.80	656.66	4.24	14,440,179.08	1,700,147.14	39.76210539	-80.78745154	
Begin 6°/100' build/tum										
10,200.00	11.80	0.157	10,139.69	660.33	4.17	14,440,182.75	1,700,147.07	39.76211546	-80.78745175	
10,300.00	7.25	24.729	10,238.33	676.30	6.84	14,440,198.72	1,700,149.74	39.76215930	-80.78744211	
10,400.00	6.15	77.229	10,337.73	683.22	14.71	14,440,205.64	1,700,157.61	39.76217826	-80.78741404	
10,500.00	9.74	113.551	10,436.81	681.03	27.70	14,440,203.44	1,700,170.60	39.76217215	-80.78736784	
10,600.00	14.85	127.793	10,534.49	669.74	45.66	14,440,192.15	1,700,188.56	39.76214102	-80.78730402	
10,700.00	20.59	134.587	10,629.69	648.47	68.40	14,440,171.88	1,700,211.30	39.76208521	-80.78722328	
10,800.00	26.38	138.525	10,721.37	620.45	95.66	14,440,142.87	1,700,238.56	39.76200534	-80.78712651	
10,900.00	32.25	141.119	10,808.53	583.00	127.16	14,440,105.42	1,700,270.05	39.76190228	-80.78701477	
11,000.00	38.15	142.985	10,890.21	537.52	162.53	14,440,059.94	1,700,305.43	39.76177717	-80.78688927	
11,100.00	44.08	144.416	10,965.51	484.53	201.40	14,440,006.94	1,700,344.30	39.76163136	-80.78675140	
11,199.67	50.00	145.566	11,033.41	424.79	243.20	14,439,947.21	1,700,386.10	39.76146704	-80.78660317	
Begin 8°/100' build/tum										
11,200.00	50.03	145.571	11,033.62	424.58	243.34	14,439,947.00	1,700,386.24	39.76146647	-80.78660267	
11,300.00	57.96	146.819	11,092.36	357.39	288.28	14,439,879.81	1,700,431.18	39.76128166	-80.78644335	
11,400.00	65.91	147.967	11,139.37	283.15	335.83	14,439,805.56	1,700,476.73	39.76107744	-80.78627477	
11,500.00	73.86	148.792	11,173.74	203.28	385.07	14,439,725.70	1,700,527.67	39.76085779	-80.78610022	
11,600.00	81.82	149.645	11,194.78	119.36	435.05	14,439,641.78	1,700,577.85	39.76062899	-80.78592309	
11,690.18	89.00	150.385	11,202.00	41.55	479.95	14,439,563.97	1,700,622.84	39.76041300	-80.78576400	
Begin 89.00° lateral										
11,700.00	89.00	150.385	11,202.17	33.02	484.80	14,439,555.44	1,700,627.69	39.76038954	-80.78574682	
11,800.00	89.00	150.385	11,203.93	-53.90	534.21	14,439,468.51	1,700,677.10	39.76015050	-80.78557174	
11,900.00	89.00	150.385	11,205.68	-140.83	583.62	14,439,381.59	1,700,726.51	39.75991146	-80.78539666	
12,000.00	89.00	150.385	11,207.43	-227.75	633.03	14,439,294.67	1,700,775.92	39.75967242	-80.78522159	
12,100.00	89.00	150.385	11,209.19	-314.67	682.44	14,439,207.74	1,700,825.33	39.75943338	-80.78504651	
12,200.00	89.00	150.385	11,210.94	-401.60	731.85	14,439,120.82	1,700,874.74	39.75919434	-80.78487144	
12,300.00	89.00	150.385	11,212.69	-488.52	781.26	14,439,033.90	1,700,924.15	39.75895530	-80.78469637	
12,400.00	89.00	150.385	11,214.45	-575.44	830.67	14,438,946.98	1,700,973.56	39.75871626	-80.78452130	
12,500.00	89.00	150.385	11,216.20	-662.36	880.08	14,438,860.05	1,701,022.97	39.75847722	-80.78434623	
12,600.00	89.00	150.385	11,217.96	-749.29	929.49	14,438,773.13	1,701,072.38	39.75823817	-80.78417116	
12,700.00	89.00	150.385	11,219.71	-836.21	978.90	14,438,686.21	1,701,121.79	39.75799913	-80.78399610	
12,800.00	89.00	150.385	11,221.46	-923.13	1,028.31	14,438,599.29	1,701,171.20	39.75776009	-80.78382103	
12,900.00	89.00	150.385	11,223.22	-1,010.06	1,077.72	14,438,512.36	1,701,220.61	39.75752105	-80.78364597	
13,000.00	89.00	150.385	11,224.97	-1,096.98	1,127.13	14,438,425.44	1,701,270.02	39.75728201	-80.78347090	
13,100.00	89.00	150.385	11,226.72	-1,183.90	1,176.54	14,438,338.52	1,701,319.43	39.75704296	-80.78329584	
13,200.00	89.00	150.385	11,228.48	-1,270.82	1,225.95	14,438,251.60	1,701,368.84	39.75680392	-80.78312078	
13,300.00	89.00	150.385	11,230.23	-1,357.75	1,275.36	14,438,164.67	1,701,418.25	39.75656488	-80.78294572	
13,400.00	89.00	150.385	11,231.98	-1,444.67	1,324.77	14,438,077.75	1,701,467.66	39.75632583	-80.78277066	
13,500.00	89.00	150.385	11,233.74	-1,531.59	1,374.18	14,437,990.83	1,701,517.07	39.75608679	-80.78259561	
13,600.00	89.00	150.385	11,235.49	-1,618.52	1,423.59	14,437,903.91	1,701,566.48	39.75584775	-80.78242055	
13,700.00	89.00	150.385	11,237.24	-1,705.44	1,473.00	14,437,816.98	1,701,615.89	39.75560870	-80.78224550	
13,800.00	89.00	150.385	11,239.00	-1,792.36	1,522.41	14,437,730.06	1,701,665.30	39.75536966	-80.78207044	
13,900.00	89.00	150.385	11,240.75	-1,879.28	1,571.82	14,437,643.14	1,701,714.71	39.75513061	-80.78189539	
14,000.00	89.00	150.385	11,242.50	-1,966.21	1,621.23	14,437,556.21	1,701,764.12	39.75489157	-80.78172034	
14,100.00	89.00	150.385	11,244.26	-2,053.13	1,670.64	14,437,469.29	1,701,813.53	39.75465252	-80.78154529	
14,200.00	89.00	150.385	11,246.01	-2,140.05	1,720.05	14,437,382.37	1,701,862.94	39.75441348	-80.78137024	
14,300.00	89.00	150.385	11,247.77	-2,226.97	1,769.46	14,437,295.45	1,701,912.35	39.75417443	-80.78119520	
14,400.00	89.00	150.385	11,249.52	-2,313.90	1,818.87	14,437,208.52	1,701,961.76	39.75393538	-80.78102015	
14,500.00	89.00	150.385	11,251.27	-2,400.82	1,868.28	14,437,121.60	1,702,011.17	39.75369634	-80.78084510	

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Planning Report - Geographic

4705102187 02/10/2023

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,600.00	89.00	150.385	11,253.03	-2,487.74	1,917.69	14,437,034.68	1,702,060.58	39.75345729	-80.78067006
14,700.00	89.00	150.385	11,254.78	-2,574.67	1,967.10	14,436,947.76	1,702,109.99	39.75321824	-80.78049502
14,800.00	89.00	150.385	11,256.53	-2,661.59	2,016.51	14,436,860.83	1,702,159.40	39.75297920	-80.78031998
14,900.00	89.00	150.385	11,258.29	-2,748.51	2,065.92	14,436,773.91	1,702,208.81	39.75274015	-80.78014494
15,000.00	89.00	150.385	11,260.04	-2,835.43	2,115.33	14,436,686.99	1,702,258.22	39.75250110	-80.77996990
15,100.00	89.00	150.385	11,261.79	-2,922.36	2,164.74	14,436,600.07	1,702,307.63	39.75226205	-80.77979486
15,200.00	89.00	150.385	11,263.55	-3,009.28	2,214.15	14,436,513.14	1,702,357.04	39.75202300	-80.77961982
15,300.00	89.00	150.385	11,265.30	-3,096.20	2,263.56	14,436,426.22	1,702,406.45	39.75178395	-80.77944479
15,400.00	89.00	150.385	11,267.05	-3,183.13	2,312.97	14,436,339.30	1,702,455.86	39.75154491	-80.77926976
15,500.00	89.00	150.385	11,268.81	-3,270.05	2,362.38	14,436,252.38	1,702,505.27	39.75130586	-80.77909472
15,600.00	89.00	150.385	11,270.56	-3,356.97	2,411.79	14,436,165.45	1,702,554.68	39.75106681	-80.77891969
15,700.00	89.00	150.385	11,272.31	-3,443.89	2,461.20	14,436,078.53	1,702,604.09	39.75082776	-80.77874466
15,800.00	89.00	150.385	11,274.07	-3,530.82	2,510.61	14,435,991.61	1,702,653.50	39.75058871	-80.77856963
15,900.00	89.00	150.385	11,275.82	-3,617.74	2,560.02	14,435,904.69	1,702,702.91	39.75034966	-80.77839460
16,000.00	89.00	150.385	11,277.58	-3,704.66	2,609.43	14,435,817.76	1,702,752.32	39.75011061	-80.77821958
16,100.00	89.00	150.385	11,279.33	-3,791.59	2,658.84	14,435,730.84	1,702,801.73	39.74987156	-80.77804455
16,200.00	89.00	150.385	11,281.08	-3,878.51	2,708.25	14,435,643.92	1,702,851.14	39.74963250	-80.77786953
16,300.00	89.00	150.385	11,282.84	-3,965.43	2,757.66	14,435,556.99	1,702,900.55	39.74939345	-80.77769450
16,400.00	89.00	150.385	11,284.59	-4,052.35	2,807.07	14,435,470.07	1,702,949.96	39.74915440	-80.77751948
16,500.00	89.00	150.385	11,286.34	-4,139.28	2,856.48	14,435,383.15	1,702,999.37	39.74891535	-80.77734446
16,600.00	89.00	150.385	11,288.10	-4,226.20	2,905.89	14,435,296.23	1,703,048.78	39.74867630	-80.77716944
16,700.00	89.00	150.385	11,289.85	-4,313.12	2,955.30	14,435,209.30	1,703,098.19	39.74843724	-80.77699442
16,800.00	89.00	150.385	11,291.60	-4,400.04	3,004.71	14,435,122.38	1,703,147.60	39.74819819	-80.77681941
16,900.00	89.00	150.385	11,293.36	-4,486.97	3,054.12	14,435,035.46	1,703,197.01	39.74795914	-80.77664439
17,000.00	89.00	150.385	11,295.11	-4,573.89	3,103.53	14,434,948.54	1,703,246.42	39.74772009	-80.77646938
17,100.00	89.00	150.385	11,296.86	-4,660.81	3,152.94	14,434,861.61	1,703,295.83	39.74748103	-80.77629436
17,200.00	89.00	150.385	11,298.62	-4,747.74	3,202.35	14,434,774.69	1,703,345.24	39.74724198	-80.77611935
17,300.00	89.00	150.385	11,300.37	-4,834.66	3,251.76	14,434,687.77	1,703,394.65	39.74700292	-80.77594434
17,400.00	89.00	150.385	11,302.13	-4,921.58	3,301.17	14,434,600.85	1,703,444.06	39.74676387	-80.77576933
17,500.00	89.00	150.385	11,303.88	-5,008.50	3,350.58	14,434,513.92	1,703,493.47	39.74652481	-80.77559432
17,600.00	89.00	150.385	11,305.63	-5,095.43	3,399.99	14,434,427.00	1,703,542.88	39.74628576	-80.77541931
17,700.00	89.00	150.385	11,307.39	-5,182.35	3,449.40	14,434,340.08	1,703,592.29	39.74604670	-80.77524431
17,800.00	89.00	150.385	11,309.14	-5,269.27	3,498.81	14,434,253.16	1,703,641.70	39.74580765	-80.77506930
17,900.00	89.00	150.385	11,310.89	-5,356.20	3,548.22	14,434,166.23	1,703,691.11	39.74556859	-80.77489430
18,000.00	89.00	150.385	11,312.65	-5,443.12	3,597.63	14,434,079.31	1,703,740.52	39.74532954	-80.77471930
18,100.00	89.00	150.385	11,314.40	-5,530.04	3,647.04	14,433,992.39	1,703,789.93	39.74509048	-80.77454430
18,200.00	89.00	150.385	11,316.15	-5,616.96	3,696.45	14,433,905.46	1,703,839.34	39.74485142	-80.77436930
18,300.00	89.00	150.385	11,317.91	-5,703.89	3,745.86	14,433,818.54	1,703,888.75	39.74461237	-80.77419430
18,400.00	89.00	150.385	11,319.66	-5,790.81	3,795.27	14,433,731.62	1,703,938.16	39.74437331	-80.77401930
18,500.00	89.00	150.385	11,321.41	-5,877.73	3,844.68	14,433,644.70	1,703,987.57	39.74413425	-80.77384430
18,590.46	89.00	150.385	11,323.00	-5,956.36	3,889.37	14,433,566.07	1,704,032.27	39.74391800	-80.77366930

PBHL/TD 18590.46 MD/11323.00 TVD

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DEC 27 2022

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Environmental Protection



Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well McMasters S-18 HU (slot H)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1206.00ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1206.00ft
Site:	McMasters Shields	North Reference:	Grid
Well:	McMasters S-18 HU (slot H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
McMasters S-18 HU LP - plan hits target center - Point	0.00	0.000	11,202.00	41.55	479.95	14,439,563.97	1,700,622.84	39.76041300	-80.78576400
McMasters S-18 HU PBI - plan hits target center - Point	0.00	0.000	11,323.00	-5,956.36	3,889.37	14,433,566.07	1,704,032.27	39.74391800	-80.77368600

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.00	2,000.00	0.00	0.00	KOP Begin 2"/100' build
2,200.00	2,199.84	6.87	1.21	Begin 4.00° tangent
4,004.56	4,000.00	130.84	23.07	Begin 2"/100' drop
4,204.56	4,199.84	137.71	24.28	Begin vertical hold
7,504.72	7,500.00	137.71	24.28	Begin 2"/100' build
8,139.87	8,129.96	207.78	21.58	Begin 12.70° tangent
10,182.72	10,122.80	656.66	4.24	Begin 6"/100' build/turn
11,199.67	11,033.41	424.79	243.20	Begin 8"/100' build/turn
11,690.18	11,202.00	41.55	479.95	Begin 89.00° lateral
18,590.46	11,323.00	-5,956.36	3,889.37	PBHL/TD 18590.46 MD/11323.00 TVD

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Environmental Protection

WW-9
(4/16)

API Number 47 - 051 -
Operator's Well No. McMasters S-18HU

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Tug Hill Operating, LLC OP Code 494510851

Watershed (HUC 10) Fish Creek Quadrangle Powhatan Point 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: AST Tanks with proper containment will be used for staging fresh water for frac and flow back water

Will a synthetic liner be used in the pit? Yes No If so, what ml.? AST Tanks will be used with dripnet control

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number UIC 2469, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes - For Vertical and Horizontal Drilling

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? Barite for weight

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. All drill cuttings to be disposed of in a Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Wetzel County Sanitary Landfill (SWF-1021) WV0109185) and Westmoreland Sanitary Landfill, LLC (SAN)405 / PA DEP ECR1365426/

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jim Pancake
Company Official (Typed Name) Jim Pancake
Company Official Title VP Geosciences

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DEC 27 2022
WV Department of
Environmental Protection

Subscribed and sworn before me this 5th day of December, 2022

Susanne Deliere

Notary Public

My commission expires 1/15/2025

Commonwealth of Pennsylvania - Notary Seal
Susanne Deliere, Notary Public
Washington County
My commission expires January 15, 2025
Commission number 1382332
Member, Pennsylvania Association of Notaries

Tug Hill Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 17.76 Prevegetation pH 6.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2.5 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Annual Ryegrass	40
Spring Oats	96

Seed Type	lbs/acre
Orchard Grass	12
Ladino	3
White Clover	2

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Steve Gower STRADER GOWER 12-1-2022

Comments: _____

Title: WVDEP Oil and Gas Inspector

Date: _____

Field Reviewed? () Yes () No

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DEC 2 2022

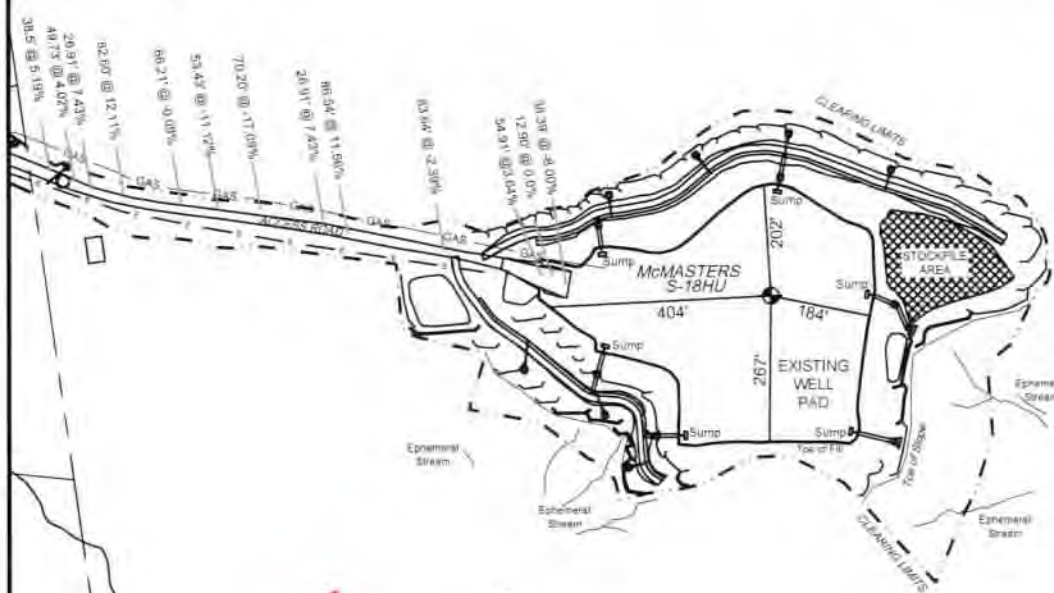
WW-9

PROPOSED McMASTERS S-18HU

SUPPLEMENT PG 1

DIANA HENRY
HAYNES &
CAROL C.
HENRY
05-18-1
62.908 Ac.

OLAN V. &
PATRICIA E.
RUTAN
05-18-3
43.677 Ac.



REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.

INSTALL CULVERTS AS SHOWN ON RECLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.

ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED. TEMPORARILY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION OF LOCATION.

ALL CUT AND FILL SLOPES ARE 3H:1V SLOPE.

ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.

ROBERT L SHIELDS
ET AL
05-18-2
104.11 Ac.

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DUANE BRUNN
05-18-24
102 Ac.

LEGEND

- Note:
- ⊙ — Denotes existing culvert with appropriate sediment outlet control (Rip Rap splash pad).
 - Silt Fence and or Sediment and Erosion Control Measure.
 - - - Surface Boundary



Jackson Surveying Inc.
2413 E. Pike St. #112
Clarksburg, WV 26301
Phone: 304-423-5261

TOPO SECTION		OPERATOR	
POWHATAN POINT: 75'		PREPARED FOR:	
COUNTY:	DISTRICT:	TUG HILL OPERATING, LLC	
MARSHALL	FRANKLIN	386 SOUTHPOINT BLVD	
DRAWN BY:	JOB NO.:	DATE:	SCALE:
J.D.C.	494510551	6-4-2020	NONE



WWW-9

**PROPOSED McMASTERS
S-18HU**

SUPPLEMENT PG 1

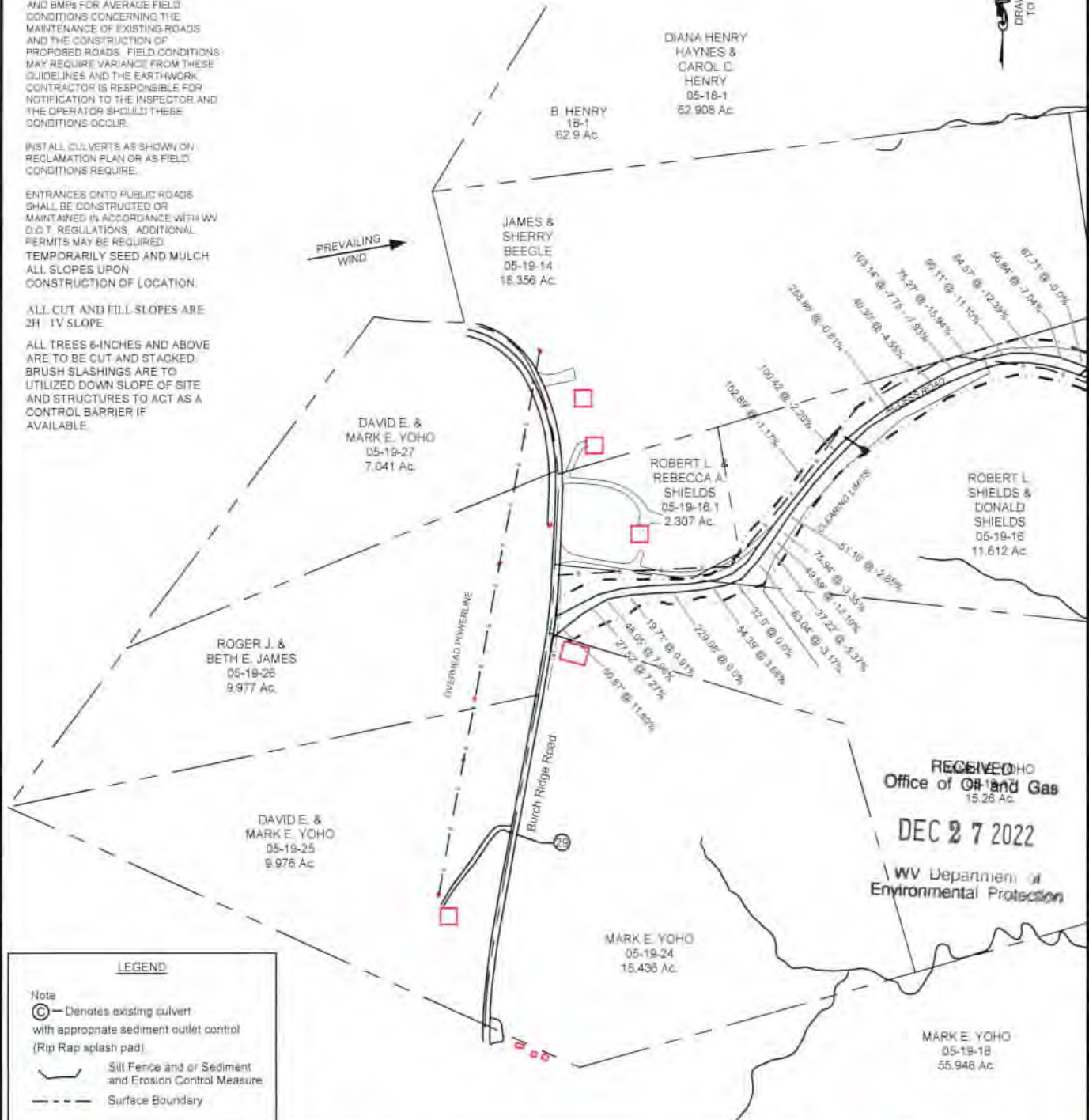
REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS 'EROSION AND SEDIMENT CONTROL FIELD MANUAL' FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.

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ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED. TEMPORARILY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION OF LOCATION.

ALL CUT AND FILL SLOPES ARE 2H : 1V SLOPE

ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.



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15.26 Ac.
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LEGEND

Note
 (C) — Denotes existing culvert with appropriate sediment outlet control (Rip Rap splash pad)

Jackson Surveying Inc.
 2413 E. Main St. #113
 Charleston, WV 26301
 Phone: 204-423-5261

TOPO SECTION		OPERATOR	
POWHATAN POINT T5		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	FRANKLIN	385 SOUTHPOINTE BLVD	
DRAWN BY	JOB NO.	DATE	SCALE
J.T.C.	494510851	8-4-2020	NONE

**TUG HILL
OPERATING**

02/10/2023

4705102487



TUG HILL
OPERATING

Well Site Safety Plan
Part A – Site Specific Data and Figures

Well Name: McMasters S-18HU

Pad Name: Shields

County: Marshall

UTM (meters), NAD83, Zone 17

Northing: 4,401,175.23

Easting: 518,204.59

**KEY CONTACT FOR WELL SITE SAFETY PLAN
DEVELOPMENT AND MAINTENANCE**

Jerry V. DeRosa, Director EH&S Affairs

(724) 338-2029 (office)

(412) 736-5767 (cellular)

24-HOUR EMERGENCY PHONE NUMBER

(800) 921-9745

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Office of Oil and Gas

DEC 27 2022

WV DEPARTMENT OF
Environmental Protection

Signature
12-1-2022

MCMASTERS S-18HU
UTICA UNIT - 543.5974± ACRES
TUG HILL OPERATING

TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°45'00"

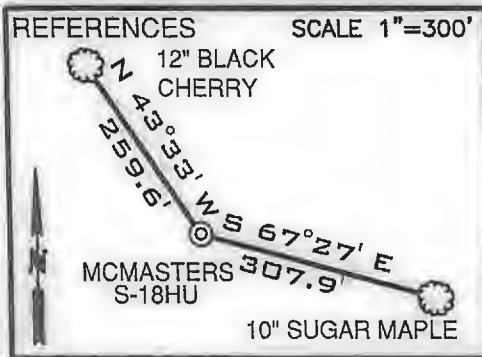
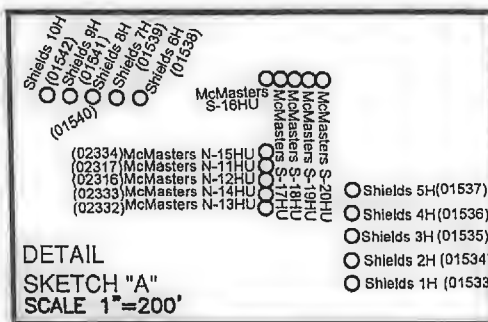


Table with 3 columns: LINE, BEARING, DISTANCE. Contains lines L1 through L4 with bearings and distances.



02/10/2023

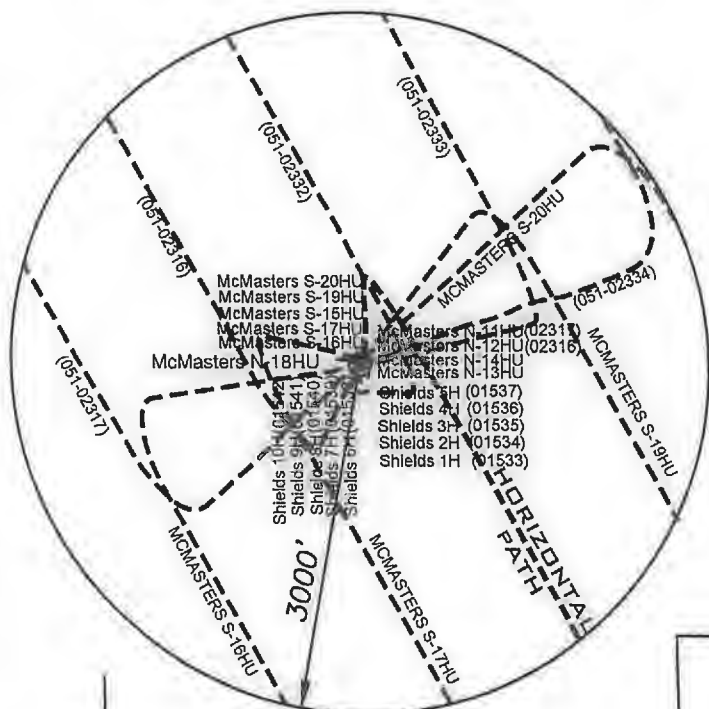


Table with 3 rows: SURFACE HOLE, LANDING POINT 1, BOTTOM HOLE. Columns: UTM. NAD83, ZONE 17 IN METERS, N, E coordinates.

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

LEGEND table listing symbols for LEASE TRACTS, SURFACE TRACTS, WELL LATERAL, POINT PLEASANT LEGS, UNIT BOUNDARY, LEASE #, BORE PATH OFFSET, WELL BORE OFFSET, PROPOSED FIRST TAKE POINT, PROPOSED LAST TAKE POINT.

NOTES

- 1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND...
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2019.
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
5. ALL DEEP WELLS SHOWN ON THIS PLAT.
6. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147

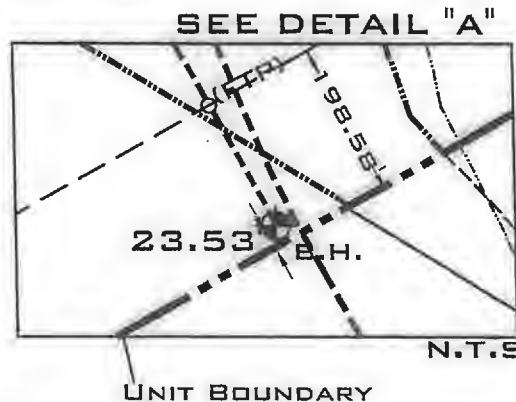


Table with 5 columns: CURVE, CHORD BEARING, CHORD LENGTH, RADIUS, ARC LENGTH. Contains curves C1 through C6.

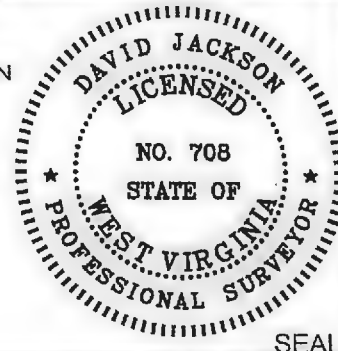
FILE NUMBER, DRAWING NUMBER: MCMASTERS S-18HU_REV2, SCALE 1" = 2000', MINIMUM DEGREE OF ACCURACY 1/200, PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Signature: David L Jackson

P.S. 708

JACKSON SURVEYING INC. P.O. Box 1460 Clarksburg, WV 26302 304-623-5851



WVDEP OFFICE OF OIL & GAS 601 57TH STREET, SE CHARLESTON, WV 25304



DATE: JANUARY 06, 2023

OPERATORS WELL NO. MCMASTERS S-18HU API WELL NO.

47-051-02487 STATE COUNTY PERMIT

LOCATION ELEVATION 1207.50' WATERSHED (HUC 10) FISH CREEK (HUC-10)

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER ROBERT L. SHIELDS, ET AL ACREAGE 104.11

OIL & GAS ROYALTY OWNER ROBERT L. SHIELDS, ET AL LEASE ACREAGE 104.11

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY)

TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,416' TMD: 18,590'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

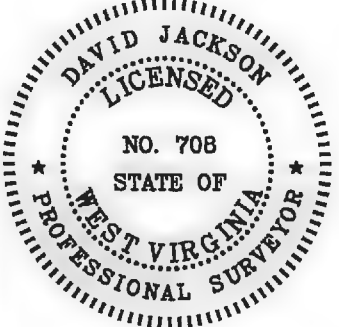
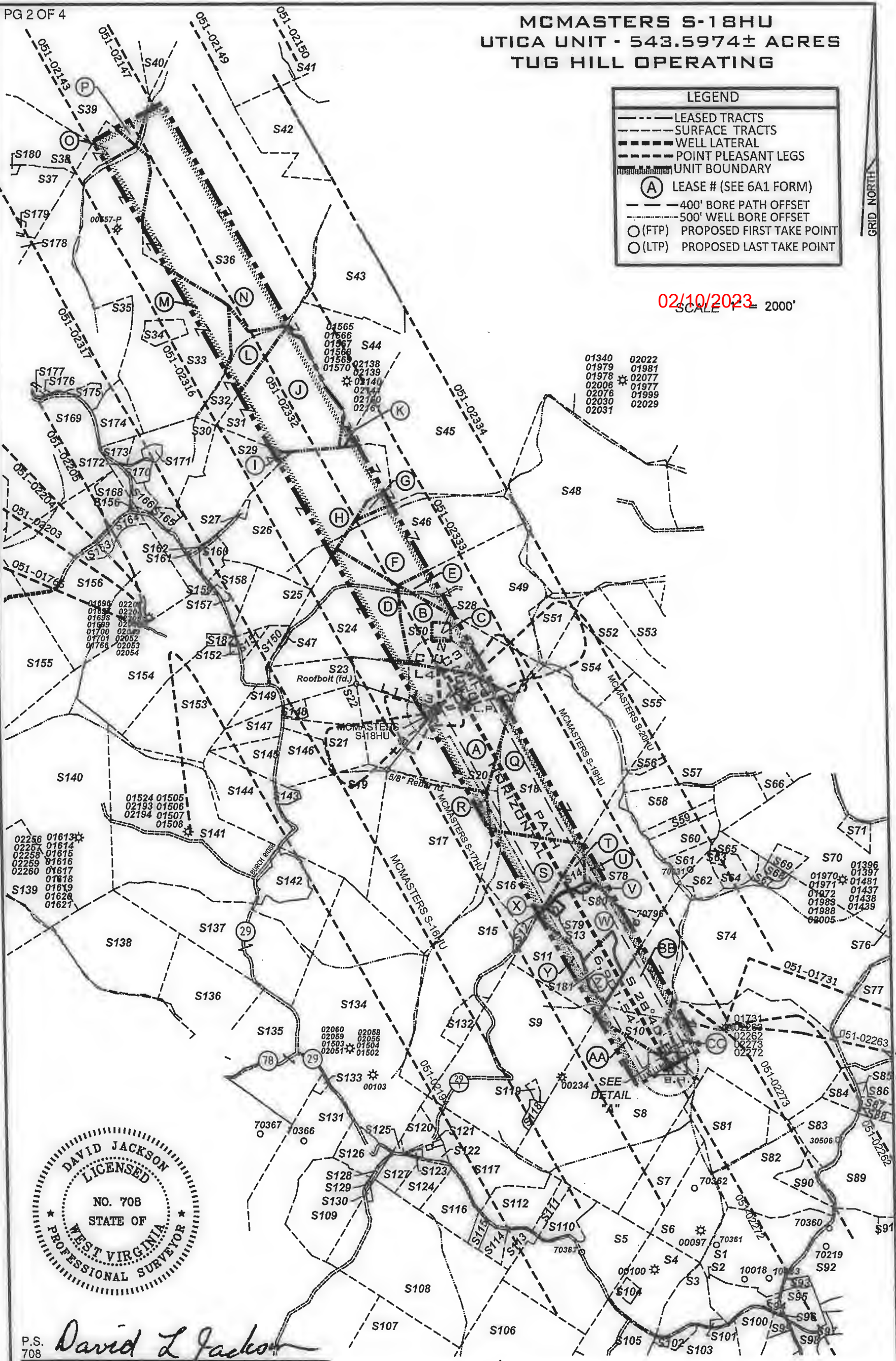
COUNTY NAME PERMIT

MCMASTERS S-18HU UTICA UNIT - 543.5974± ACRES TUG HILL OPERATING

LEGEND

- LEASED TRACTS
- - - SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT

02/10/2023
SCALE 1" = 2000'



P.S. 708 *David L Jackson*



TUG HILL OPERATING

OPERATOR'S
WELL #: MCMASTERS S-18HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02487

WELL PLAT
PAGE 2 OF 4
DATE: 12/21/2022

**MCMASTERS S-18HU
UTICA UNIT - 543.5974± ACRES
TUG HILL OPERATING**

Adjoining Parcel's Ownership Table			
Number	Tax Map - Parcel	Surface Owner	Acres
51	05-23-11.1	JOHN H. & SONYA D. HOLLIDAY	46.182
52	05-23-11.4	KENNETH L. LEMONS, TRUSTEE FOR JEFFERY G. HUDSON	10.879
53	05-23-13	LINDA D. GREATHOUSE	14.24
54	05-23-9.2	LINDA D. GREATHOUSE	25.58
55	05-23-14	DOMINION TRANSMISSION, INC.	59.5
56	05-23-9.3	LINDA D. GREATHOUSE	17.5
57	05-23-08	CARL DAVID & SUZANNE L. GIZMAN	100.7
59	05-23-04	PROCTOR RIDGE, LLC	2.364
512	05-23-2.1	WILLIAM L. & JANICE M. WAYNE	70
515	05-23-02	DANIEL J. & DANIELLE D. LILLEY	55.948
519	05-19-18	MARK E. YOHO, ET UX	15.263
521	05-19-17	MARK A. YOHO	11.612
522	05-19-16	ROBERT L. SHIELDS & DONALD SHIELDS	18.356
523	05-19-14	JAMES & SHERRY BEEGLE	19.037
525	05-19-30	ERNIE & TAMMY ANDERSON	0.800
527	05-19-13.1	DONALD SHIELDS	32.4801
530	05-19-07	OLAN V. RUTAN, ET UX	5.0
534	05-14-12.1	HENRY WILSON PLUNKERT JR.	25.0
537	05-14-9.2	MARIA T. FLORES	73.436
538	05-12-21	EDWARD L. GIBSON-LIFE	148.09
540	05-12-12.1	LINDA L. PERSINGER, ET UX	52.478
541	05-12-11	WESLEY R. BRYAN & WESLEY R. BRYAN II	93.0
542	05-11-15	LIONEL L. PERSINGER, EX UX	121.0
543	05-15-01	MARCUS SHARP	0.392
547	05-18-1.1	CHARLES F. & DIANA L. HAYNES	153.75
548	05-15-10	MARK STANLEY RUCKMAN	8.14
551	05-18-05	TERRY MELOTT	26.44
552	05-18-15.3	ADAM & JESSE L. ROBINSON	21.34
553	05-18-15.4	DAVID R. ANDERSON	26.0
554	05-18-06	ADAM & JESSE L. ROBINSON	24.22
555	05-18-07	ADAM & JESSE L. ROBINSON	17.768
556	05-18-16	ADAM & JESSE L. ROBINSON	11.054
557	05-18-13	SOUTHERN COUNTRY FARMS, INC.	15.79
558	05-18-59	SOUTHERN COUNTRY FARMS, INC.	5.46
559	05-18-30	MARY & DANIEL ROBINSON	10.88
560	05-18-13.10	CARL BERG	5.319
561	05-18-29	CARL G. BERG	6.94
562	05-18-31	JACOB RASTALL	1.165
563	05-18-32.1	LORI D. CARPENTER	5.335
564	05-18-32	JACOB RASTALL	5.545
565	05-18-13.8	LORI D. CARPENTER	5.343
566	05-18-33	SANDRA & GLENN WHISLER	3.33
567	05-17-12	JAMES & JILL C. CORLEY	1.67
568	05-17-12.1	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	4.24
569	05-17-10.5	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	92.61
570	05-17-10	JAMES A. CORLEY, ET AL	4.51
571	05-17-10.1	JAMES A. & JILL C. CORLEY	1.0
572	05-17-9.1	JERI J. WHITE	7.136
573	05-17-9.2	JERI J. WHITE	120.0
574	05-17-11	KENNETH N. CORLEY, ET UX	60.3
575	05-17-9.4	VICKI L. BOWEN HRS, JEREMY S. BOWEN -LIFE	12.478
576	05-17-9.3	JAMES A. & CORLEY, ET UX	67.0
577	05-17-11.1	RANDY W. FRANCIS, ET UX	34.0
581	05-23-8.1	WILLIAM & VIRGINIA ROUPE	38.244
582	05-24-5.4	THOMAS V. TUTTLE, ET UX	17.194
583	05-24-5.5	SONNY & LINDA TAGG	6.354
584	05-23-7.2	FLORELLA LOU WEIGAND	0.549
585	05-23-7.1	RANDY W. & JESSICA L. FRANCIS	4.6
587	05-24-5.1	JAMES D. WATKINS, ET UX	3.151
588	05-24-5.2	JAMES D. WATKINS, ET UX	145.78
589	05-24-5	ROBERT C. FRANCIS, ET UX (LIFE)	5.50
590	05-24-3.1	T.H. EXPLORATION II, LLC	42.84
591	05-24-06	TERRY E. SIMMS, ET UX	37.95
592	05-23-10	TERRY E. SIMMS, ET UX	1.835
593	05-23-11.7	BRYAN L. HUGGINS	1.154
594	05-23-11.2	KENNETH L. LEMONS TRUSTEE FOR JEFFREY G. HUDSON	8.475
595	05-23-11	ROY F. YOHO	0.094
596	05-23-11.6	T.H. EXPLORATION II, LLC	1.347
597	05-25-20.2	JAMES M. ZAMBOTTI	4.49
598	05-25-20.3	JAMES A. & J.O. C. ESTEP	2.25
599	05-23-11.8	ROY F. YOHO	11.29
5100	05-23-11.3	COLIN R. YOHO	0.75
5101	05-23-13.1	JAMES R. & PAMELA J. FERRELL	3.05
5102	05-23-12	MARK A. YOHO	89.25
5103	05-26-11	MARK A. YOHO	2.087
5104	05-23-9.4	JACKSON R. DAVIS SR.	23.376
5105	05-23-9.1	JOHN W. VAN ORDEN, ET UX	

02/10/2023

Parcels within Unit Boundary				
Tags	Number	Tax Map - Parcel	Surface Owner	Acres
A	520	05-18-02	ROBERT L. SHIELDS & DONALD SHIELDS	104.11
B	550	05-18-03	OLAN V. & PATRICIA E. RUTAN	43.677
C	528	05-18-3.1	NIKKI L. & JONATHAN STEVENS	2.223
D	524	05-18-01	DIANA HENRY HAYNES & CAROL C. HENRY	62.908
E	549	05-18-04	OLAN & PATRICIA RUTAN	65.89
F	546	05-15-11	DIANA HENRY HAYNES & CAROL HENRY	65.59
G	545	05-15-12	JOHN DAVID PETROCK & THOMAS ANDREW PETROCK	150.23
H	526	05-19-13	RONA LEE RICE & CHARLES FRANKLIN MCCARDLE	94.925
I	529	05-19-08	CNX RCPC, LLC	40.0
J	531	05-14-15	ROBERT L. SHIELDS & DONALD SHIELDS	53.0
K	544	05-15-15	ROBERT L. SHIELDS & DONALD SHIELDS	49
L	532	05-14-14	ROBERT L. SHIELDS & DONALD SHIELDS	29.05
M	533	05-14-12	DALE R. GALLAHER & HARRY E. GALLAHER	135.100
N	536	05-14-13	RALPH D. & SALLY JANE HOYT	222.18
O	535	05-14-10	WANDA P. RINE, LIFE	107.372
P	539	05-12-14	LINDA HAMILTON, ET AL	117.495
Q	518	05-18-23	XCL MIDSTEAM OPERATING, LLC	110.0
R	517	05-18-24	DUANE BRUNN	102.0
S	516	05-18-22	JASON PALERMO & WENDY MOORE	30.348
T	514	05-18-21.1	JASON PALERMO & WENDY MOORE	5.47
U	578	05-18-20	WAYNE E. CHANNING, ET AL	44.47
V	580	05-18-21.3	XCL MIDSTREAM OPERATING, LLC	0.811
W	513	05-18-21	CURTIS E. & MICHELLE J. HALL	32.569
X	579	05-18-21.2	DAVID P. LASSAN -LIFE	1.0
Y	511	05-23-03	PROCTOR RIDGE, LLC	50.0
Z	5181	05-18-21.4	DYLAN TYLAR HALL	10.55
AA	58	05-23-05	DANIEL D. RHYAND	118.5
BB	510	05-23-06	JAMES A. CHANNING, ET AL	48.0
CC	586	05-23-07	TERRY E. SIMMS, ET UX	123.097



P.S. 708 *David L Jackson*



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: MCMASTERS S-18HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02487

WELL PLAT
PAGE 3 OF 4
DATE: 12/21/2022

PG 4 OF 4
MCMASTERS S-18HU
UTICA UNIT - 543.5974± ACRES
TUG HILL OPERATING

Lease ID	TMP	Tgt	Grantor, Lessor, Etc.	Deed Book/Page
10*14116	5-18-2	A	DONALD SHIELDS, ET AL	669 367
10*14109	5-18-3	B	MARTHA M RUTAN, ET AL	668 636
10*14108	5-18-3	C	MARTHA M RUTAN, ET AL	668 636
10*14142	5-18-1	D	BENJAMIN FRANKLIN HENRY, ET AL	718 498
10*19032	5-18-4	E	IAN L ARNOLD MARSHA A ARNOLD, ET AL	813 111
10*19018	5-15-11	F	BENJAMIN FRANKLIN HENRY FREDRICK ALLEN HENRY	746 5
10*19137	5-15-12	G	JACK PETROCK HATTIE PETROCK	741 56
10*14110	5-19-18	H	RONA LEE MCCARDLE, ET AL	870 472
10*14571	5-19-8	I	MATTHEW S & BRENDA S ANDERSON	840 165
10*14116	5-14-15	J	DONALD SHIELDS, ET AL	669 367
10*14116	5-14-15	K	DONALD SHIELDS, ET AL	669 367
10*14116	5-14-14	L	DONALD SHIELDS, ET AL	669 367
10*14928	5-14-12	M	JOSEPH D. PARRIOTT & NELLIE B. PARRIOTT, HUSBAND AND WIFE	660 517
10*14067	5-14-13	N	REVA FRANZE	696 51
10*14420	5-14-10	O	ELLIS V & WANDA P RIME	725 141
10*12769	5-12-14	P	BETTY HAMILTON, ET AL	957 419
10*14030	5-18-23	Q	LOIS V YOHO, ET AL	665 551
10*14295	5-18-24	R	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE, ET AL	655 548
10*14022	5-18-22	S	DENISE D WAYNE AND HOWARD N WAYNE SR	665 384
10*17145	5-18-21.3	T	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-20	U	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-21.8	V	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-21	W	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-21.2	X	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-23-1	Y	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*21369	5-18-21.4	Z	BARBARA BITTLE	934 641
10*14847	5-23-5	AA	LETHA RUCKMAN, ET AL	806 270
10*17186	5-23-6	BB	ROBERT J HENRY	708 51
10*14140	5-23-1	CC	TERRY S SIMMS AND DEBORAH L SIMMS	666 529

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 WV Department of
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P.S. 708 *David L Jackson*

Adjoining Parcels Ownership Table			
Number	Tax Map (Parcel)	Surface Owner	Acres
S106	05-26-07	DOMINION TRANSMISSION, INC.	71.0
S107	05-26-05	MICHAEL J. WILEY, ET AL	65.0
S108	05-23-26	MICHAEL J. WILEY, ET AL	101.57
S109	05-23-27	MICHAEL J. WILEY, ET AL	23.14
S110	05-23-15	HENRY VIRGINIA ETHEL, ESTATE	15.5
S111	05-23-16.1	DONALD B. HENRY	1.97
S112	05-23-16	ROY FRIEND YOHO SR.	18.03
S113	05-23-17.3	TROY W. THOMAS & ERIN M. AN	4.62
S114	05-23-17	TAMMY & THOMAS E. BROWN	4.62
S115	05-23-17.4	TAMMY D. MEADOWS	2.605
S116	05-23-17.2	DICK ROWAN JR.	14.920
S117	05-23-18	PROCTOR RIDGE, LLC	35.38
S118	05-23-4.1	XCL MIDSTREAM OPERATING, LLC	2.16
S119	05-23-4.2	XCL MIDSTREAM OPERATING, LLC	1.17
S120	05-23-18.1	MARK A. YOHO	7.8
S121	05-23-19	DOTY CEMETERY	1.0
S122	05-23-20	CHRISTIAN CHURCH	0.19
S123	05-23-21	MARK A. YOHO & MARK E. YOHO	0.588
S124	05-23-17.1	CURTIS E. HALL, ET UX	10.051
S125	05-23-29	MICHAEL J. WILEY & MICHELLE BAKER	0.25
S126	05-23-28.2	GEORGE THOMAS THARP IV	10.8
S127	05-23-22	DANIEL D. RHYAND	6.25
S128	05-23-23	MICHAEL J. WILEY, ET AL	1.0
S129	05-23-24	MICHAEL J. WILEY, ET AL	0.25
S130	05-23-25	ARTHUR A. WILEY	0.43
S131	05-23-28	GREGG D. MINOR	39.43
S132	05-23-2.2	JESSICA N. & ANDREW L. JONES	7.636
S133	05-23-28.1	TROY W. & ERIN M. THOMAS	1.0
S134	05-23-01	PATRICIA ACCETTOLO, ET AL	146.66
S135	05-22-7.1	T.H. EXPLORATION II, LLC & XCL MIDSTREAM OPERATING, LLC	20.68
S136	05-22-08	T.H. EXPLORATION II, J LLC	48.44
S137	05-22-06	CNX RCPC, LLC	64.70
S138	05-22-10	T.H. EXPLORATION III, LLC	58.40
S139	05-22-17	CNX RCPC, LLC	37.5
S140	05-22-04	CNX RCPC, LLC	159.05
S141	05-22-05	CNX RCPC, LLC	134.425
S142	05-22-5.1	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	12.875
S143	05-19-18.1	MARK E. YOHO, ET UX	2.57
S144	05-19-18.2	PAUL V. & CAROL NEELY	32.672
S145	05-19-25	DAVID E. YOHO & MARK E. YOHO	9.976
S146	05-19-24	DAVID E. YOHO	15.436
S147	05-19-26	ROGER J. & BETH E. JAMES	9.977
S148	05-19-16.1	ROBERT L. SHIELDS, REBECCA A. SHIELDS & ROBERTA CAMPBELL	2.307
S149	05-19-27	DAVID E. YOHO	7.041
S150	05-19-31	CHARLES F. & DIANA L. HAYNES	8.779
S151	05-19-30.1	ERIC R.W. & ASHLEY A. HUGGINS	2.911
S152	05-19-32	JASPER N. BURCH, ET AL-TRUSTEES	0.397
S153	05-19-28	DAVID E. YOHO	56.899
S154	05-19-19	RUSSELL & MARY BLAKE	64.148
S155	05-19-21	SAMMY E. WHITLATCH, ET AL	118.45
S156	05-19-20	WILBERT H. BUNGARD, ET UX	114.989
S157	05-19-15	CARLY HERRAN	0.72
S158	05-19-29	ERNIE L. & TAMMY L. ANDERSON	10.961
S159	05-19-09	PENNY ELAINE ASHCRAFT	10.44
S160	05-19-12	ERNIE L. ANDERSON, ET UX	5.33
S161	05-19-10	ERNIE L. ANDERSON, ET UX	0.8125
S162	05-19-11	ERNIE L. ANDERSON, ET UX	0.08
S163	05-19-20.3	SIDNEY HARMON	3.715
S164	05-19-20.1	JOHN J. EBERT-LIFE	3.848
S165	05-19-7.5	ADAM T. & JESSE L. ROBINSON	2.64
S166	05-19-7.1	ROBERT L. SHIELDS, ET UX	3.399
S168	05-19-20.2	CASANDRA L. HARMON	7.448
S169	05-19-05	MARGIRENE KEEFE	126.03
S170	05-19-7.2	OLAN RUTAN	2.783
S171	05-19-7.4	OLAN V. RUTAN, ET UX	1.787
S172	05-19-7.3	OLAN V. RUTAN, ET UX	0.341
S173	05-19-06	BELINDA KAY MEADOWS, REBECCA ANN SHIELDS & OLAN V. RUTAN	5.1099
S174	05-14-11	DALE R. GALLAHER & HARRY E. GALLAHER	12.0
S175	05-14-10.4	ADAM T. & JESSE L. ROBINSON	3.343
S176	05-14-10.2	RALPH RANDY HOYT	0.495
S177	05-14-10.1	RALPH RANDY HOYT	0.5
S178	05-14-9.5	MARIA T. FLORES	6.024
S179	05-14-9.1	MARIA T. FLORES	2.882
S180	05-14-17	HILDA DELORIS BAXTER	0.752
S182	05-19-19.1	RUSSELL & MARY BLAKE	2.252

OPERATOR'S WELL #:	MCMASTERS S-18HU	WELL PLAT
DISTRICT:	Franklin	PAGE 4 OF 4
COUNTY:	Marshall	DATE: 12/21/2022
STATE:	WV	
API #:	47-051-02487	



WW-9

PROPOSED McMASTERS S-18HU

SUPPLEMENT PG 2



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Environmental Protection

NOTE CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE
DISTRICT PROCTOR, WV
LAT 39.7136843
LON -80.8260157
LOCATED S 33-24 WAT 20 141' FROM
McMASTERS S-18HU
SURFACE LOCATION



OPERATOR	494510851	TOPO SECTION	LEASE NAME
TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		POWHATAN POINT 7.5'	McMASTERS
		SCALE:	DATE:
		1" = 2000'	DATE: 6-4-2020

WW-6A1
(5/13)

Operator's Well No. McMasters S-18HU

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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*See attached pages

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Office of Oil and Gas
DEC 27 2022
WV Department of
Environmental Protection

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Tug Hill Operating, LLC
 By: Amy L. Morris *Amy L. Morris*
 Its: Permitting Specialist - Appalachia Region

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment		
10*14116	5-18-2	A	DONALD SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 367	NA	NA	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14117	5-18-2	A	ROBERT L SHIELDS AND REBECCA A SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 360	NA	NA	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14109	5-18-3	B	MARTHA M RUFAN	GASTAR EXPLORATION USA INC	1/8+	668 636	NA	NA	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14143	5-18-3	B	LOIS BARRETT	GASTAR EXPLORATION USA INC	1/8+	758 435	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14144	5-18-3	B	RHONDA BARRETT	GASTAR EXPLORATION USA INC	1/8+	760 366	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14145	5-18-3	B	JAMES DONALD BARRETT (DECEASED)	GASTAR EXPLORATION USA INC	1/8+	760 372	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14146	5-18-3	B	JO ANNE BARRETT	GASTAR EXPLORATION USA INC	1/8+	760 375	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14147	5-18-3	B	INEZ DORNON	GASTAR EXPLORATION USA INC	1/8+	760 378	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14148	5-18-3	B	HAZEL R RITCHIE	GASTAR EXPLORATION USA INC	1/8+	760 381	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14149	5-18-3	B	MINNIE PFALZGRAF	GASTAR EXPLORATION USA INC	1/8+	760 369	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14150	5-18-3	B	ARLENE MCCORT	GASTAR EXPLORATION USA INC	1/8+	762 448	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14151	5-18-3	B	RICHARD D LEASURE	GASTAR EXPLORATION USA INC	1/8+	762 451	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14152	5-18-3	B	REBECCA LINN	GASTAR EXPLORATION USA INC	1/8+	762 98	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14153	5-18-3	B	RICHARD LINN	GASTAR EXPLORATION USA INC	1/8+	762 95	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14154	5-18-3	B	JANICE BROWN	GASTAR EXPLORATION USA INC	1/8+	762 92	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14155	5-18-3	B	GUY MCCORT	GASTAR EXPLORATION USA INC	1/8+	765 74	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14156	5-18-3	B	JODI JOHNSON	GASTAR EXPLORATION USA INC	1/8+	765 80	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14157	5-18-3	B	MARLAN BARRETT	GASTAR EXPLORATION USA INC	1/8+	765 77	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14158	5-18-3	B	JAMES HOLLAND	GASTAR EXPLORATION USA INC	1/8+	765 421	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment		
10*14159	5-18-3	B	ROSS BARRRETT	GASTAR EXPLORATION USA INC	1/8+	765 424	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14160	5-18-3	B	KATHY BECHTLI	GASTAR EXPLORATION USA INC	1/8+	765 436	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14161	5-18-3	B	JAMIE DODD	GASTAR EXPLORATION USA INC	1/8+	765 427	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14162	5-18-3	B	ALLEN YEATER	GASTAR EXPLORATION USA INC	1/8+	768 555	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14163	5-18-3	B	MARGARET WILSON HITSIMMONS	GASTAR EXPLORATION USA INC	1/8+	768 567	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14164	5-18-3	B	BARBARA YEATER PERSINGER	GASTAR EXPLORATION USA INC	1/8+	768 557	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14165	5-18-3	B	RACHEL YEATER	GASTAR EXPLORATION USA INC	1/8+	768 559	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14166	5-18-3	B	TRIFLET YEATER PARRISH	GASTAR EXPLORATION USA INC	1/8+	768 563	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14167	5-18-3	B	KAREN YEATER JONES	GASTAR EXPLORATION USA INC	1/8+	768 565	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14168	5-18-3	B	JUDITH BANAHAIS	GASTAR EXPLORATION USA INC	1/8+	770 468	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14169	5-18-3	B	LENA G. BLOHM	GASTAR EXPLORATION USA INC	1/8+	770 471	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14170	5-18-3	B	JAMES C KLINE	GASTAR EXPLORATION USA INC	1/8+	772 405	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14171	5-18-3	B	MICHAEL GALE AIF JOSEPHINE GALE	GASTAR EXPLORATION USA INC	1/8+	775 23	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14172	5-18-3	B	JOHN R & LINDA WILSON	GASTAR EXPLORATION USA INC	1/8+	775 25	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14173	5-18-3	B	BARBARA L YEATER	GASTAR EXPLORATION USA INC	1/8+	775 27	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14174	5-18-3	B	CHARLES L YEATER JR	GASTAR EXPLORATION USA INC	1/8+	775 29	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14175	5-18-3	B	JANE LYNN SWINGLE	GASTAR EXPLORATION USA INC	1/8+	775 19	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14176	5-18-3	B	CONRAD S YEATER	GASTAR EXPLORATION USA INC	1/8+	775 368	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14177	5-18-3	B	CAROLYN LOWE WELER	GASTAR EXPLORATION USA INC	1/8+	775 366	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14178	5-18-3	B	LEANETIP LONG	GASTAR EXPLORATION USA INC	1/8+	775 363	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14179	5-18-3	B	VERA SHIRI FN WORKMAN	GASTAR EXPLORATION USA INC	1/8+	775 363	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14180	5-18-3	B	DIANA S GRAFION	GASTAR EXPLORATION USA INC	1/8+	776 303	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14181	5-18-3	B	DONALD BROOKS WESTLEY	GASTAR EXPLORATION USA INC	1/8+	776 305	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14182	5-18-3	B	RICK WEEKLY	GASTAR EXPLORATION USA INC	1/8+	776 307	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14183	5-18-3	B	NANCY J FOTT	GASTAR EXPLORATION USA INC	1/8+	776 299	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14184	5-18-3	B	HESTER LORETTA DUGAN DIETRA DUGAN POA	GASTAR EXPLORATION USA INC	1/8+	776 301	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14185	5-18-3	B	NICOLA WEEKLY	GASTAR EXPLORATION USA INC	1/8+	776 309	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14186	5-18-3	B	WILLIAM GLENN YEATER	GASTAR EXPLORATION USA INC	1/8+	776 311	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14187	5-18-3	B	GERALD E YEATER	GASTAR EXPLORATION USA INC	1/8+	776 323	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14188	5-18-3	B	WILMA M MILLER	GASTAR EXPLORATION USA INC	1/8+	776 321	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14189	5-18-3	B	BILLIE JO THIEL	GASTAR EXPLORATION USA INC	1/8+	776 319	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14190	5-18-3	B	ELIZABETH LOUISE YEATER MORAN	GASTAR EXPLORATION USA INC	1/8+	776 317	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14191	5-18-3	B	LARRY W. YEATER	GASTAR EXPLORATION USA INC	1/8+	776 315	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14192	5-18-3	B	MYRA HEWITT	GASTAR EXPLORATION USA INC	1/8+	777 581	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14193	5-18-3	B	SONDRA R KING	GASTAR EXPLORATION USA INC	1/8+	777 579	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14194	5-18-3	B	SANDRA RHO CUMPTON	GASTAR EXPLORATION USA INC	1/8+	777 574	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14195	5-18-3	B	FREDERICK MAXWELL YEATER	GASTAR EXPLORATION USA INC	1/8+	777 583	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14196	5-18-3	B	ROSEMARY AGNES YEATER LUNN MANN	GASTAR EXPLORATION USA INC	1/8+	777 587	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14197	5-18-3	B	PIVILLIS YEATER GREGOSKY	GASTAR EXPLORATION USA INC	1/8+	777 585	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14198	5-18-3	B	MARY J YEATER FARNSDAW	GASTAR EXPLORATION USA INC	1/8+	777 590	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14199	5-18-3	B	MARY MARGARET WELLMAN BURLEY	GASTAR EXPLORATION USA INC	1/8+	779 488	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14200	5-18-3	B	RANDALL D MORRIS	GASTAR EXPLORATION USA INC	1/8+	779 490	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14201	5-18-3	B	WILLIAM J VEST TRUST AGMT LARRY W YEATER TRUSTEE	GASTAR EXPLORATION USA INC	1/8+	786 490	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14202	5-18-3	B	MAY H RUCKMAN	GASTAR EXPLORATION USA INC	1/8+	779 486	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14203	5-18-3	B	LINDA KAY MORRIS WILSON	GASTAR EXPLORATION USA INC	1/8+	781 541	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14204	5-18-3	B	JFANI TH SOUTH	GASTAR EXPLORATION USA INC	1/8+	781 537	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14205	5-18-3	B	ANN LOUISE YEATER MARIN	GASTAR EXPLORATION USA INC	1/8+	781 533	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14206	5-18-3	B	COLLEEN MCCLAIN MOORE	GASTAR EXPLORATION USA INC	1/8+	781 535	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14207	5-18-3	B	FREDRIC & BETTY RICHTER	GASTAR EXPLORATION USA INC	1/8+	781 612	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14208	5-18-3	B	NANCY D RHIX	GASTAR EXPLORATION USA INC	1/8+	782 202	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14209	5-18-3	B	MARY JANE BUNGARD	GASTAR EXPLORATION USA INC	1/8+	782 210	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14210	5-18-3	B	JANE E PIRSONS	GASTAR EXPLORATION USA INC	1/8+	782 204	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14211	5-18-3	B	SIFPHEN L YEATER	GASTAR EXPLORATION USA INC	1/8+	782 206	NA	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14212	5-18-3	B	MARTHA ANN GAMBLE & DAN MIGLIORINI	GASTAR EXPLORATION USA INC	1/8+	782 609	NA	NA	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14213	5-18-3	B	SHIRLEY E GBUR	GASTAR EXPLORATION USA INC	1/8+	782 611	NA	NA	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14214	5-18-3	B	SIDNEY F YOHO JR	GASTAR EXPLORATION USA INC	1/8+	782 605	NA	NA	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14215	5-18-3	B	SCOTT K & KATHIE J RICHTER	GASTAR EXPLORATION USA INC	1/8+	782 607	NA	NA	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14216	5-18-3	B	DOUGLAS I GAMBLE	GASTAR EXPLORATION USA INC	1/8+	783 493	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14217	5-18-3	B	DONNA S AND DONALD S KIRCH	GASTAR EXPLORATION USA INC	1/8+	783 497	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14218	5-18-3	B	MICKEY L PORTER	GASTAR EXPLORATION USA INC	1/8+	783 506	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14219	5-18-3	B	SUSAN J BROWN	GASTAR EXPLORATION USA INC	1/8+	783 504	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14220	5-18-3	B	JANIS L & ROY T MILLER	GASTAR EXPLORATION USA INC	1/8+	783 502	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14221	5-18-3	B	DIANNA R LAMBERT	GASTAR EXPLORATION USA INC	1/8+	783 500	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14222	5-18-3	B	ORVILLE V & MALDONA R BIANON	GASTAR EXPLORATION USA INC	1/8+	783 517	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14223	5-18-3	B	SARAH F HOLT	GASTAR EXPLORATION USA INC	1/8+	783 510	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14224	5-18-3	B	SAMUEL E ZUGARO	GASTAR EXPLORATION USA INC	1/8+	784 193	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14225	5-18-3	B	THOMAS FRANCIS YOHO	GASTAR EXPLORATION USA INC	1/8+	784 195	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14226	5-18-3	B	MONICA ANN RENN	GASTAR EXPLORATION USA INC	1/8+	784 197	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14227	5-18-3	B	HUBERT D MORRIS	GASTAR EXPLORATION USA INC	1/8+	784 199	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14228	5-18-3	B	KALFUS T DOUGHMAN	GASTAR EXPLORATION USA INC	1/8+	786 392	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14229	5-18-3	B	JEFFREY H WILSON & PRISCILLA S WILSON	GASTAR EXPLORATION USA INC	1/8+	786 375	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14230	5-18-3	B	JOSEPH P & BARBARA A WILSON	GASTAR EXPLORATION USA INC	1/8+	786 377	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14231	5-18-3	B	YVONNE MARIE SMITH	GASTAR EXPLORATION USA INC	1/8+	786 379	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14232	5-18-3	B	SANDRA I KELLY	GASTAR EXPLORATION USA INC	1/8+	786 400	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14233	5-18-3	B	THOMAS L PORTER	GASTAR EXPLORATION USA INC	1/8+	786 381	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14234	5-18-3	B	WILLIAM D ADAMS	GASTAR EXPLORATION USA INC	1/8+	786 373	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14235	5-18-3	B	JOHN C WILSON	GASTAR EXPLORATION USA INC	1/8+	786 386	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14236	5-18-3	B	RODNEY C LOWE	GASTAR EXPLORATION USA INC	1/8+	786 367	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14237	5-18-3	B	KELLY KEHN	GASTAR EXPLORATION USA INC	1/8+	787 566	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14238	5-18-3	B	LYNN C LAMBERTSEN	GASTAR EXPLORATION USA INC	1/8+	789 283	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14239	5-18-3	B	JAMES S WILSON & ANN D WILSON	GASTAR EXPLORATION USA INC	1/8+	789 281	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14240	5-18-3	B	SHARON L YEAHER	GASTAR EXPLORATION USA INC	1/8+	789 287	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14241	5-18-3	B	CAROL JUDY LANCH	GASTAR EXPLORATION USA INC	1/8+	789 305	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14242	5-18-3	B	PATTI J WILSON	GASTAR EXPLORATION USA INC	1/8+	789 581	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14243	5-18-3	B	JANE T HILBERT	GASTAR EXPLORATION USA INC	1/8+	789 579	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14244	5-18-3	B	ANN M MARTINO SIMONI	GASTAR EXPLORATION USA INC	1/8+	790 580	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14245	5-18-3	B	ODETTE YEATLER	GASTAR EXPLORATION USA INC	1/8+	790 503	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14246	5-18-3	B	SANDRA M WINSLOW	GASTAR EXPLORATION USA INC	1/8+	790 517	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14247	5-18-3	B	RICKY ALLEN YEATER	GASTAR EXPLORATION USA INC	1/8+	790 513	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14248	5-18-3	B	TERRY W YEATER	GASTAR EXPLORATION USA INC	1/8+	790 515	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14249	5-18-3	B	CARDI VAN SCYOC	GASTAR EXPLORATION USA INC	1/8+	790 546	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14250	5-18-3	B	DONALD REX QUIGLEY	GASTAR EXPLORATION USA INC	1/8+	790 533	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14251	5-18-3	B	ELLEN IDNA GORRY HEATH	GASTAR EXPLORATION USA INC	1/8+	792 108	NA	NA	NA	NA	NA	29/157 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14252	5-18-3	B	THELMA VIRGINIA WHIPKEY YEATER	GASTAR EXPLORATION USA INC	1/8+	794 519	NA	NA	NA	NA	NA	806/1 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14253	5-18-3	B	PAGE D HUNT (DECEASED)	GASTAR EXPLORATION USA INC	1/8+	795 152	NA	NA	NA	NA	NA	806/1 Gostar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gostar Exploration USA Inc and Gostar Exploration Inc merger	36/9 Gostar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14254	5-18-3	B	PATRICIA A GULUTZ	GASTAR EXPLORATION USA INC	1/8+	796 77	NA	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC
10*14255	5-18-3	B	RUSSELL BARRETT	GASTAR EXPLORATION USA INC	1/8+	797 193	NA	NA	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger
10*14256	5-18-3	B	MICHAEL JOHNSON	GASTAR EXPLORATION USA INC	1/8+	799 55	NA	NA	NA	NA	NA	NA	NA	36/9 Gastar Exploration Inc to TH Exploration II LLC
10*14257	5-18-3	B	KATHRYN J. MILLER	GASTAR EXPLORATION USA INC	1/8+	799 534	NA	NA	NA	NA	NA	NA	NA	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14258	5-18-3	B	MARGUERITE HARRISON	GASTAR EXPLORATION USA INC	1/8+	799 532	NA	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC
10*14259	5-18-3	B	GEORGE MARTINO JR	GASTAR EXPLORATION USA INC	1/8+	801 146	NA	NA	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger
10*14260	5-18-3	B	JOHN K OTTO	GASTAR EXPLORATION USA INC	1/8+	803 160	NA	NA	NA	NA	NA	NA	NA	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC
10*14261	5-18-3	B	JEAN MARIE SHEPARD	GASTAR EXPLORATION USA INC	1/8+	804 249	NA	NA	NA	NA	NA	NA	NA	36/9 Gastar Exploration Inc to TH Exploration II LLC
10*14262	5-18-3	B	MICHAEL B SHEPARD JENNIFER BRECKENRIDGE PERSONAL REP	GASTAR EXPLORATION USA INC	1/8+	804 251	NA	NA	NA	NA	NA	NA	NA	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14263	5-18-3	B	LAURIE ANN SHEPARD	GASTAR EXPLORATION USA INC	1/8+	804 243	NA	NA	NA	NA	NA	NA	NA	31/184 Gastar Exploration USA Inc and Gastar Exploration Inc merger
10*14264	5-18-3	B	WILLIAM LEWIS OTTO	GASTAR EXPLORATION USA INC	1/8+	809 533	NA	NA	NA	NA	NA	NA	NA	36/9 Gastar Exploration Inc to TH Exploration II LLC
10*14265	5-18-3	B	EDWARD F & KAREN SIMS	GASTAR EXPLORATION USA INC	1/8+	816 12	NA	NA	NA	NA	NA	NA	NA	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14266	5-18-3	B	GREGORY STEINHAKI	GASTAR EXPLORATION USA INC	1/8+	818 564	NA	NA	NA	NA	NA	NA	NA	31/184 Gastar Exploration USA Inc and Gastar Exploration Inc merger
10*14267	5-18-3	B	NANCY WILKOFF SHEPISH	GASTAR EXPLORATION INC	1/8+	833 523	NA	NA	NA	NA	NA	NA	NA	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC
10*14268	5-18-3	B	JACQUELINE M CASILLAS-DUKE	GASTAR EXPLORATION INC	1/8+	839 530	NA	NA	NA	NA	NA	NA	NA	36/9 Gastar Exploration Inc to TH Exploration II LLC
10*14269	5-18-3	B	SHARON D SMITH	GASTAR EXPLORATION INC	1/8+	840 160	NA	NA	NA	NA	NA	NA	NA	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14270	5-18-3	B	ANNA M BARRETT (DC CASI D)	GASTAR EXPLORATION USA INC	1/8+	734 457	NA	NA	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger

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10*14271	5-18-3	8	RICHARD THOMAS BARRETT	GASTAR EXPLORATION USA INC	1/8+	745 582	NA	NA	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14272	5-18-3	8	ROBERT CLARK ASPLEY	GASTAR EXPLORATION INC	1/8+	844 85	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14273	5-18-3	8	MARY ANNE YEATER MACHAMER	GASTAR EXPLORATION INC	1/8+	852 258	NA	NA	NA	NA	NA	NA	NA	34/302 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14274	5-18-3	8	LAURA L YEATER HILL	GASTAR EXPLORATION INC	1/8+	852 245	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14275	5-18-3	8	CAROL MAE YEATER	GASTAR EXPLORATION INC	1/8+	852 247	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14276	5-18-3	8	REBECCA MCPH+K NORRIS	GASTAR EXPLORATION INC	1/8+	854 595	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14277	5-18-3	8	KATHLEEN L YEATER	GASTAR EXPLORATION INC	1/8+	854 593	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14278	5-18-3	8	DAVID GALE	GASTAR EXPLORATION INC	1/8+	854 591	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14279	5-18-3	8	WILLIAM BERNARD YEATER	GASTAR EXPLORATION INC	1/8+	854 589	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14280	5-18-3	8	PAUL EDWARD YEATER	GASTAR EXPLORATION INC	1/8+	854 587	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14281	5-18-3	8	DAWN MCPEEK WREZINSKI	GASTAR EXPLORATION INC	1/8+	860 426	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14282	5-18-3	8	CHERYL VAN PELT	GASTAR EXPLORATION INC	1/8+	860 428	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14283	5-18-3	8	MARY JO BARRETT	GASTAR EXPLORATION INC	1/8+	862 438	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14284	5-18-3	8	JILL F BRIGGS	GASTAR EXPLORATION INC	1/8+	862 435	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14285	5-18-3	8	EARL C BARRETT JR	GASTAR EXPLORATION INC	1/8+	862 432	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14286	5-18-3	8	EMMA LEE NEWHOMER	GASTAR EXPLORATION INC	1/8+	864 315	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14287	5-18-3	8	LAWRENCE AUGUSTIN MCPEEK	GASTAR EXPLORATION INC	1/8+	864 317	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14288	5-18-3	8	REBECCA LYNN LASH	GASTAR EXPLORATION INC	1/8+	864 319	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14289	5-18-3	8	MARYANN RACHEL VANCE	GASTAR EXPLORATION INC	1/8+	864 321	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14290	5-18-3	H	MELISSA ELAINE SCHROTH	GASTAR EXPLORATION INC	1/8+	872 213	NA	NA	NA	NA	NA	NA	NA	35/119 Gaslar Exploration Inc to Atinum Marcellus I LLC	35/9 Gaslar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14291	5-18-3	H	MARK DAVID HUBB	GASTAR EXPLORATION INC	1/8+	872 215	NA	NA	NA	NA	NA	NA	NA	35/119 Gaslar Exploration Inc to Atinum Marcellus I LLC	36/9 Gaslar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14292	5-18-3	H	JOHN BARRITT	GASTAR EXPLORATION INC	1/8+	875 603	NA	NA	NA	NA	NA	NA	NA	35/144 Gaslar Exploration Inc to Atinum Marcellus I LLC	36/9 Gaslar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14293	5-18-3	H	LEONARD O. HARBROSLCH	GASTAR EXPLORATION INC	1/8+	878 647	NA	NA	NA	NA	NA	NA	NA	35/144 Gaslar Exploration Inc to Atinum Marcellus I LLC	36/9 Gaslar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14294	5-18-3	H	MARY ELLEN EVANS JILL A STANLEY AND WILLIAM O STANLEY USE 113571	GASTAR EXPLORATION INC	1/8+	885 585	NA	NA	NA	NA	NA	NA	NA	35/575 Gaslar Exploration Inc to Atinum Marcellus I LLC	36/9 Gaslar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*15697	5-18-3	H	CAROL SUE BLACKWELL AND TERRY LEE BLACKWELL	TH EXPLORATION LLC	1/8+	908 581	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16059	5-18-3	H	BLACKWELL	TH EXPLORATION LLC	1/8+	908 591	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16060	5-18-3	H	JOSEPH LEROY KITTLE AND BARBARA G KITTLE	TH EXPLORATION LLC	1/8+	908 593	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16061	5-18-3	H	GAIL T YEATER AND JUDITH A YEATER	TH EXPLORATION LLC	1/8+	908 595	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16062	5-18-3	H	TERRY WAYNE KITTLE AND DIORAH S KITTLE	TH EXPLORATION LLC	1/8+	908 597	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16063	5-18-3	H	EDWARD O YEATER	TH EXPLORATION LLC	1/8+	908 599	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16064	5-18-3	H	GENE G JOHNSON AND KATHIE L JOHNSON	TH EXPLORATION LLC	1/8+	908 601	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16065	5-18-3	H	CHARLES ARTHUR ANDERSON AND CORINNE ANDERSON	TH EXPLORATION LLC	1/8+	908 639	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16067	5-18-3	H	HOWARD DWIGHT JOHNSON	TH EXPLORATION LLC	1/8+	908 641	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16162	5-18-3	H	MACKIE R ROBERTS AND CHERYL A ROBERTS	TH EXPLORATION LLC	1/8+	908 643	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16163	5-18-3	H	CHRISTINA CAIN	TH EXPLORATION LLC	1/8+	908 645	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16164	5-18-3	H	JENNIFER YEATERS BRECKENRIDGE	TH EXPLORATION LLC	1/8+	908 647	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16196	5-18-3	H	MARILYN S EDWARDS AND JAMES M EDWARDS	TH EXPLORATION LLC	1/8+	908 649	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16197	5-18-3	H	REBECCA ANN HALEY AND RUSSELL L HALEY	TH EXPLORATION LLC	1/8+	909 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16198	5-18-3	H	TERRIE L LAUSIN	TH EXPLORATION LLC	1/8+	909 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16248	5-18-3	H	DAVID ELLIS LOWE AND SHARON K LOWE	TH EXPLORATION LLC	1/8+	909 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16249	5-18-3	H	SANDRA CAROL KOONIZ	TH EXPLORATION LLC	1/8+	909 7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16250	5-18-3	H	MICHAEL E LAUSIN AND SHARON G LAUSIN	TH EXPLORATION LLC	1/8+	909 55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16252	5-18-3	H	GEORGE W YEATER II	TH EXPLORATION LLC	1/8+	909 57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16253	5-18-3	H	SKYLAND MICHAEL EVANS	TH EXPLORATION LLC	1/8+	925 235	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16254	5-18-3	H	DAVID JOHNSON AND TAMMY JOHNSON	TH EXPLORATION LLC	1/8+	925 235	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16255	5-18-3	H	MAX D YEATER	TH EXPLORATION LLC	1/8+	909 59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16300	5-18-3	H	TIMOTHY WAYNE ANDERSON AND SUSAN A ANDERSON	TH EXPLORATION LLC	1/8+	909 61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16302	5-18-3	H	LYNN M HELINSKI AND THOMAS A HELINSKI	TH EXPLORATION LLC	1/8+	925 243	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16303	5-18-3	H	PATRICK T WELLS AND DIORAH S WELLS	TH EXPLORATION LLC	1/8+	925 237	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16401	5-18-3	H	TIMOTHY RUSSELL HINKLE AND SHANNON L HINKLE	TH EXPLORATION LLC	1/8+	908 589	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16432	5-18-3	H	LAUREL L AND PAUL J DUBECK JR	TH EXPLORATION LLC	1/8+	945 241	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16434	5-18-3	H	TERRY V STONE	TH EXPLORATION LLC	1/8+	925 239	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16452	5-18-3	H	RIATRICK JOAN YEATERS KNIGHT	TH EXPLORATION LLC	1/8+	925 247	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16453	5-18-3	H	THE ESTATE OF JOHN E YEATER, DEC'D AND SHARON L YEATER, INDIV. & AS EXECUTRIX	TH EXPLORATION LLC	1/8+	925 245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16455	5-18-3	H	CARLENE KAY CUNNINGHAM AND JAMES HOWARD CUNNINGHAM	TH EXPLORATION LLC	1/8+	925 271	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16456	5-18-3	H	EMILY K RULONG AND WILLIAM F RULONG SR	TH EXPLORATION LLC	1/8+	925 249	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16457	5-18-3	H	LISA ANN MARQUART AND GREGORY F MARQUART	TH EXPLORATION LLC	1/8+	925 331	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16458	5-18-3	H	NANCY JANE HOLLOWAY AND CHESTER K HOLLOWAY	TH EXPLORATION LLC	1/8+	909 64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16492	5-18-3	H	ELIZABETH JANE SNYDER AND HARRY B SNYDER	TH EXPLORATION LLC	1/8+	925 273	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16493	5-18-3	H	JAMES JEFFREY YEATER AND DONNA L YEATER	TH EXPLORATION LLC	1/8+	925 275	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16494	5-18-3	H	SUSAN Y INCIAN AND JOSEPH C INCIAN	TH EXPLORATION LLC	1/8+	925 277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16495	5-18-3	H	JAMES W AND NANCY C SHI PARD	TH EXPLORATION LLC	1/8+	925 279	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16496	5-18-3	H	GERALD B JONES	TH EXPLORATION LLC	1/8+	925 281	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16497	5-18-3	H	MARY B JONES	TH EXPLORATION LLC	1/8+	925 289	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16498	5-18-3	H	SHELLEY YEATER	TH EXPLORATION LLC	1/8+	925 283	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16499	5-18-3	H	SCOTT C HARRIS AND CAROLYN R HARRIS	TH EXPLORATION LLC	1/8+	925 287	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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10*16500	5-18-3	B	JOHN KLING C/O CINDY KLING CORBETT	TH EXPLORATION LLC	1/8+	925 285	NA	NA	NA	NA	NA	NA	NA	NA	
10*16523	5-18-3	B	FREDA F CHURLEY	TH EXPLORATION LLC	1/8+	925 251	NA	NA	NA	NA	NA	NA	NA	NA	
10*16547	5-18-3	B	ANGELA D HARTON	TH EXPLORATION LLC	1/8+	925 231	NA	NA	NA	NA	NA	NA	NA	NA	
10*16564	5-18-3	B	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN	TH EXPLORATION LLC	1/8+	909 66	NA	NA	NA	NA	NA	NA	NA	NA	
10*16654	5-18-3	B	BRETT J LAUSIN SR	TH EXPLORATION LLC	1/8+	925 253	NA	NA	NA	NA	NA	NA	NA	NA	
10*16660	5-18-3	B	RUTH ANN YEATER	TH EXPLORATION LLC	1/8+	925 297	NA	NA	NA	NA	NA	NA	NA	NA	
10*16707	5-18-3	B	HAROLD P AND DONNA SUE RICHMOND	TH EXPLORATION LLC	1/8+	925 333	NA	NA	NA	NA	NA	NA	NA	NA	
10*16703	5-18-3	B	YOHNA J MCPHEE	TH EXPLORATION LLC	1/8+	925 255	NA	NA	NA	NA	NA	NA	NA	NA	
10*16704	5-18-3	B	CORENA A JOHNSON AND BRADLEY L JOHNSON	TH EXPLORATION LLC	1/8+	925 257	NA	NA	NA	NA	NA	NA	NA	NA	
10*16705	5-18-3	B	LINDA SUE FRAIL AND TODD E FRAIL	TH EXPLORATION LLC	1/8+	925 259	NA	NA	NA	NA	NA	NA	NA	NA	
10*16717	5-18-3	B	JAMES L REID AND SHERRY L REID	TH EXPLORATION LLC	1/8+	925 265	NA	NA	NA	NA	NA	NA	NA	NA	
10*16723	5-18-3	B	KATHY N HAWKINS ALBRIGHT AND GEOFFREY A ALBRIGHT	TH EXPLORATION LLC	1/8+	925 263	NA	NA	NA	NA	NA	NA	NA	NA	
10*16724	5-18-3	B	ROBERT W MOCK	TH EXPLORATION LLC	1/8+	925 291	NA	NA	NA	NA	NA	NA	NA	NA	
10*16725	5-18-3	B	RICHARD J LEASURE	TH EXPLORATION LLC	1/8+	925 261	NA	NA	NA	NA	NA	NA	NA	NA	
10*16727	5-18-3	B	JOHN C FRAMI	TH EXPLORATION LLC	1/8+	925 269	NA	NA	NA	NA	NA	NA	NA	NA	
10*16773	5-18-3	B	CASEY L COUCH AND MARIAN BLAIR COUCH	TH EXPLORATION LLC	1/8+	925 267	NA	NA	NA	NA	NA	NA	NA	NA	
10*16774	5-18-3	B	KIM L HAWKINS	TH EXPLORATION LLC	1/8+	925 293	NA	NA	NA	NA	NA	NA	NA	NA	
10*16775	5-18-3	B	WILLIAM CHARLES AND VANITA G ATWELL	TH EXPLORATION LLC	1/8+	925 303	NA	NA	NA	NA	NA	NA	NA	NA	
10*16776	5-18-3	B	MARTHA C GRIMES	TH EXPLORATION LLC	1/8+	925 295	NA	NA	NA	NA	NA	NA	NA	NA	
10*16816	5-18-3	B	BETH ANN AND CHRIS TOPHER D ZINKEN	TH EXPLORATION LLC	1/8+	925 299	NA	NA	NA	NA	NA	NA	NA	NA	
10*16901	5-18-3	B	BRIAN LEE STONE	TH EXPLORATION LLC	1/8+	925 301	NA	NA	NA	NA	NA	NA	NA	NA	
10*17277	5-18-3	B	RUTH ARLENE AND WILLIAM A WYER	TH EXPLORATION LLC	1/8+	925 305	NA	NA	NA	NA	NA	NA	NA	NA	
10*17337	5-18-3	B	ANNETTE M JOHNSON AND ARTHUR Q JOHNSON	TH EXPLORATION LLC	1/8+	925 307	NA	NA	NA	NA	NA	NA	NA	NA	
10*17411	5-18-3	B	IRENE HOLLAND AND JOHN HOLLAND	TH EXPLORATION LLC	1/8+	927 151	NA	NA	NA	NA	NA	NA	NA	NA	
10*17460	5-18-3	B	THOMAS V HAUCK	TH EXPLORATION LLC	1/8+	925 310	NA	NA	NA	NA	NA	NA	NA	NA	
10*17819	5-18-3	B	GEORGE T GALE JR AND CAROL F A GALE	TH EXPLORATION LLC	1/8+	925 335	NA	NA	NA	NA	NA	NA	NA	NA	
10*18631	5-18-3	B	LINDA K STARR AND GEORGE E STARR	TH EXPLORATION LLC	1/8+	927 153	NA	NA	NA	NA	NA	NA	NA	NA	
10*18632	5-18-3	B	RICHARD HOLLAND	TH EXPLORATION LLC	1/8+	927 155	NA	NA	NA	NA	NA	NA	NA	NA	
10*18633	5-18-3	B	BRIAN LEE SPAIN	TH EXPLORATION LLC	1/8+	927 96	NA	NA	NA	NA	NA	NA	NA	NA	
10*27684	5-18-3	B	WASTO UNCLAIMED PROPERTY *	TH EXPLORATION LLC	1/8+	1060 233	NA	NA	NA	NA	NA	NA	NA	NA	
10*27959	5-18-3	B	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1063 594	NA	NA	NA	NA	NA	NA	NA	NA	
10*28158	5-18-3	B	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1068 140	NA	NA	NA	NA	NA	NA	NA	NA	
10*39822	5-18-3	B	DAVID E MITCHELL AND AMY L MITCHELL	TH EXPLORATION LLC	1/8+	927 94	NA	NA	NA	NA	NA	NA	NA	NA	
10*39823	5-18-3	B	SHELLEY L SMITH AND JOSHUA W SMITH	TH EXPLORATION LLC	1/8+	927 157	NA	NA	NA	NA	NA	NA	NA	NA	
10*14109	5-18-3.1	C	MARTHA M RUTAN	GASTAR EXPLORATION USA INC	1/8+	668 636	NA	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14143	5-18-3.1	C	LOIS BARRITT	GASTAR EXPLORATION USA INC	1/8+	758 435	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14144	5-18-3.1	C	RIONDA BARRETT	GASTAR EXPLORATION USA INC	1/8+	760 366	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14145	5-18-3.1	C	JAMES DONALD BARRETT (DECEASED)	GASTAR EXPLORATION USA INC	1/8+	760 372	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14146	5-18-3.1	C	JO ANNE BARRITT	GASTAR EXPLORATION USA INC	1/8+	760 375	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14147	5-18-3.1	C	JANE Z DORNON	GASTAR EXPLORATION USA INC	1/8+	760 378	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14148	5-18-3.1	C	HAZEL L RITCHIE	GASTAR EXPLORATION USA INC	1/8+	760 381	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14149	5-18-3.1	C	MINNIE PFAIZGRAF	GASTAR EXPLORATION USA INC	1/8+	760 369	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14150	5-18-3.1	C	ARIFNE MCCORT	GASTAR EXPLORATION USA INC	1/8+	762 448	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14151	5-18-3.1	C	RICHARD D LEASURE	GASTAR EXPLORATION USA INC	1/8+	762 451	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14152	5-18-3.1	C	REBECCA LINN	GASTAR EXPLORATION USA INC	1/8+	762 98	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14153	5-18-3.1	C	RICHARD LINN	GASTAR EXPLORATION USA INC	1/8+	762 95	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14154	5-18-3.1	C	JANICE BROWN	GASTAR EXPLORATION USA INC	1/8+	762 92	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14155	5-18-3.1	C	GUY MCCOY	GASTAR EXPLORATION USA INC	1/8+	765 74	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14156	5-18-3.1	C	JUDITH JOHNSON	GASTAR EXPLORATION USA INC	1/8+	765 80	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14157	5-18-3.1	C	HARLAN BARRETT	GASTAR EXPLORATION USA INC	1/8+	765 77	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14158	5-18-3.1	C	JAMES HOLLAND	GASTAR EXPLORATION USA INC	1/8+	765 421	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14159	5-18-3.1	C	ROSS BARRETT	GASTAR EXPLORATION USA INC	1/8+	765 424	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14160	5-18-3.1	C	KATHY BICHTLE	GASTAR EXPLORATION USA INC	1/8+	765 436	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14161	5-18-3.1	C	JANICE DODD	GASTAR EXPLORATION USA INC	1/8+	765 427	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14162	5-18-3.1	C	ALLEN YEATER	GASTAR EXPLORATION USA INC	1/8+	768 555	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14163	5-18-3.1	C	MARGARET WILSON FITZSIMMONS	GASTAR EXPLORATION USA INC	1/8+	768 567	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14164	5-18-3.1	C	BARBARA YEATER PERSINGER	GASTAR EXPLORATION USA INC	1/8+	768 557	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14165	5-18-3.1	C	RACHEL YEATER	GASTAR EXPLORATION USA INC	1/8+	768 559	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14166	5-18-3.1	C	THOMAS YEATER PARUSH	GASTAR EXPLORATION USA INC	1/8+	768 563	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14167	5-18-3.1	C	KAREN YEATER JONES	GASTAR EXPLORATION USA INC	1/8+	768 565	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14168	5-18-3.1	C	JUDITH HANNAHS	GASTAR EXPLORATION USA INC	1/8+	770 468	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14169	5-18-3.1	C	LENA G BLOHM	GASTAR EXPLORATION USA INC	1/8+	770 471	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14170	5-18-3.1	C	JAMES C KLINE	GASTAR EXPLORATION USA INC	1/8+	772 405	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14171	5-18-3.1	C	MICHAEL GALE AIB JOSEPHINE GALE	GASTAR EXPLORATION USA INC	1/8+	775 23	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14172	5-18-3.1	C	JOHN R & LINDA WILSON	GASTAR EXPLORATION USA INC	1/8+	775 25	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14173	5-18-3.1	C	BARBARA I YEATER	GASTAR EXPLORATION USA INC	1/8+	775 27	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14174	5-18-3.1	C	CHARLES T YEATER JR	GASTAR EXPLORATION USA INC	1/8+	775 29	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14175	5-18-3.1	C	JANE LYNN SWINGIE	GASTAR EXPLORATION USA INC	1/8+	775 19	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14176	5-18-3.1	C	CONRAD S YEATER	GASTAR EXPLORATION USA INC	1/8+	775 368	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14177	5-18-3.1	C	CAROLYN LOWE WELER	GASTAR EXPLORATION USA INC	1/8+	775 366	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14178	5-18-3.1	C	LEANNETTE LONG	GASTAR EXPLORATION USA INC	1/8+	775 363	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14179	5-18-3.1	C	VERA SHIRLENE WORKMAN	GASTAR EXPLORATION USA INC	1/8+	775 361	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14180	5-18-3.1	C	DIANA S GRAITON	GASTAR EXPLORATION USA INC	1/8+	776 303	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14181	5-18-3.1	C	DONALD BROOKS WESLEY	GASTAR EXPLORATION USA INC	1/8+	776 305	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14182	5-18-3.1	C	RICK WEEKLY	GASTAR EXPLORATION USA INC	1/8+	776 307	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14183	5-18-3.1	C	NANCY J FOTI	GASTAR EXPLORATION USA INC	1/8+	776 299	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14184	5-18-3.1	C	HESTR LORETTA DUGAN DIETRA L DUGAN POA	GASTAR EXPLORATION USA INC	1/8+	776 301	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14185	5-18-3.1	C	NICOLE WEEKLY	GASTAR EXPLORATION USA INC	1/8+	776 309	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14186	5-18-3.1	C	WILLIAM GLENN YEATER	GASTAR EXPLORATION USA INC	1/8+	776 311	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14187	5-18-3.1	C	GERALD E YEATER	GASTAR EXPLORATION USA INC	1/8+	776 323	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14188	5-18-3.1	C	WILLIAM MILLER	GASTAR EXPLORATION USA INC	1/8+	776 321	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14189	5-18-3.1	C	BILLIE JO BETHEL	GASTAR EXPLORATION USA INC	1/8+	776 319	NA	NA	NA	NA	NA	NA	28/499 GASTAR Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14190	5-18-3.1	C	ELIZABETH LOUISE YEATER MOWAN	GASTAR EXPLORATION USA INC	1/8+	776 317	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14191	5-18-3.1	C	LARRY W YEATER	GASTAR EXPLORATION USA INC	1/8+	776 315	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14192	5-18-3.1	C	MYRA HEWELL	GASTAR EXPLORATION USA INC	1/8+	777 581	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14193	5-18-3.1	C	SONDRA R KING	GASTAR EXPLORATION USA INC	1/8+	777 579	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14194	5-18-3.1	C	SANDRA REID CUMPTON	GASTAR EXPLORATION USA INC	1/8+	777 574	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14195	5-18-3.1	C	FREDERICK MAXWELL YEATER	GASTAR EXPLORATION USA INC	1/8+	777 583	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14196	5-18-3.1	C	ROSEMARY AGNES YEATER LUHMANN	GASTAR EXPLORATION USA INC	1/8+	777 587	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14197	5-18-3.1	C	PHYLLIS YEATER GREGOSKY	GASTAR EXPLORATION USA INC	1/8+	777 585	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14198	5-18-3.1	C	MARY J YEATER EARNSHAW	GASTAR EXPLORATION USA INC	1/8+	777 590	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14199	5-18-3.1	C	MARY MARGARET WELLMAN BURLEY	GASTAR EXPLORATION USA INC	1/8+	779 488	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14200	5-18-3.1	C	RANDALL D MORRIS	GASTAR EXPLORATION USA INC	1/8+	779 490	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14201	5-18-3.1	C	WILLIAM J VEST TRUST AGMT LARRY W YLAIER TRUSTEE	GASTAR EXPLORATION USA INC	1/8+	786 490	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14202	5-18-3.1	C	MAY H RUCKMAN	GASTAR EXPLORATION USA INC	1/8+	779 486	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14203	5-18-3.1	C	LINDA KAY MORRIS WILSON	GASTAR EXPLORATION USA INC	1/8+	781 541	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14204	5-18-3.1	C	JEANETTE SOUTH	GASTAR EXPLORATION USA INC	1/8+	781 537	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14205	5-18-3.1	C	ANN LOUISE YEATER MARTIN	GASTAR EXPLORATION USA INC	1/8+	781 533	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14206	5-18-3.1	C	COLLEEN MCCLAIN MOORE	GASTAR EXPLORATION USA INC	1/8+	781 535	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14207	5-18-3.1	C	FREDRIC & BETTY RICHTER	GASTAR EXPLORATION USA INC	1/8+	781 612	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14208	5-18-3.1	C	NANCY D TRUEX	GASTAR EXPLORATION USA INC	1/8+	782 202	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14209	5-18-3.1	C	MARY JANE BUNGARD	GASTAR EXPLORATION USA INC	1/8+	782 210	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14210	5-18-3.1	C	JANIE E PERSONS	GASTAR EXPLORATION USA INC	1/8+	782 204	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14211	5-18-3.1	C	SIFPHEN L YEATEN	GASTAR EXPLORATION USA INC	1/8+	782 206	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14212	5-18-3.1	C	MARTHA ANN GAMBLE & DAN MIGLIORINI	GASTAR EXPLORATION USA INC	1/8+	782 609	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14213	5-18-3.1	C	SHIRLEY E GBUR	GASTAR EXPLORATION USA INC	1/8+	782 611	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14214	5-18-3.1	C	SIDNEY F YOHO JR	GASTAR EXPLORATION USA INC	1/8+	782 605	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14215	5-18-3.1	C	SCOTT K & KATHIE J RICHTER	GASTAR EXPLORATION USA INC	1/8+	782 607	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14216	5-18-3.1	C	DOUGLAS I GAMBLE	GASTAR EXPLORATION USA INC	1/8+	783 493	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14217	5-18-3.1	C	DONNA S AND DONALD S KIRCH	GASTAR EXPLORATION USA INC	1/8+	783 497	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14218	5-18-3.1	C	MICKIE I PORTER	GASTAR EXPLORATION USA INC	1/8+	783 506	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14219	5-18-3.1	C	SUSAN J BROWN	GASTAR EXPLORATION USA INC	1/8+	783 504	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14220	5-18-3.1	C	JANIS L & ROY T MILLER	GASTAR EXPLORATION USA INC	1/8+	783 502	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14221	5-18-3.1	C	DEANNA R LAMBERT	GASTAR EXPLORATION USA INC	1/8+	783 500	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14222	5-18-3.1	C	ORVILLE V & MADONNA R BLANTON	GASTAR EXPLORATION USA INC	1/8+	783 512	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14223	5-18-3.1	C	SARAH I HOIT	GASTAR EXPLORATION USA INC	1/8+	783 510	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14224	5-18-3.1	C	SAMUEL E ZUGARO	GASTAR EXPLORATION USA INC	1/8+	784 193	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14225	5-18-3.1	C	THOMAS FRANCIS YOHO	GASTAR EXPLORATION USA INC	1/8+	784 195	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14226	5-18-3.1	C	MONICA ANN RENN	GASTAR EXPLORATION USA INC	1/8+	784 197	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC
10*14227	5-18-3.1	C	HUBERT O MORRIS	GASTAR EXPLORATION USA INC	1/8+	784 199	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus LLC to TH Exploration II LLC

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10*14228	5-18-3.1	C	KALFUS T DOUGHMAN	GASTAR EXPLORATION USA INC	1/8+	786 392	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14229	5-18-3.1	C	JEFFREY H WILSON & PRISCILLA S WILSON	GASTAR EXPLORATION USA INC	1/8+	786 375	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14230	5-18-3.1	C	JOSEPH P & BARBARA A WILSON	GASTAR EXPLORATION USA INC	1/8+	786 377	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14231	5-18-3.1	C	YVONNE MARIE SMITH	GASTAR EXPLORATION USA INC	1/8+	786 379	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14232	5-18-3.1	C	SANDRA L KELLY	GASTAR EXPLORATION USA INC	1/8+	786 400	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14233	5-18-3.1	C	THOMAS I PORTER	GASTAR EXPLORATION USA INC	1/8+	786 381	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14234	5-18-3.1	C	WILLIAM D ADAMS	GASTAR EXPLORATION USA INC	1/8+	786 373	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14235	5-18-3.1	C	JOHN C WILSON	GASTAR EXPLORATION USA INC	1/8+	786 386	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14236	5-18-3.1	C	RODNEY C LOWE	GASTAR EXPLORATION USA INC	1/8+	786 367	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14237	5-18-3.1	C	KELLY KERN	GASTAR EXPLORATION USA INC	1/8+	787 566	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14238	5-18-3.1	C	LYNN C TAMBIKTSIN	GASTAR EXPLORATION USA INC	1/8+	789 283	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14239	5-18-3.1	C	JAMES S WILSON & ANN D WILSON	GASTAR EXPLORATION USA INC	1/8+	789 281	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14240	5-18-3.1	C	SHARON L YEATER	GASTAR EXPLORATION USA INC	1/8+	789 287	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14241	5-18-3.1	C	CAROL JUDY IANCH	GASTAR EXPLORATION USA INC	1/8+	789 305	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14242	5-18-3.1	C	PATTI J WILSON	GASTAR EXPLORATION USA INC	1/8+	789 581	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14243	5-18-3.1	C	JANET HIPPERI	GASTAR EXPLORATION USA INC	1/8+	789 579	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14244	5-18-3.1	C	ANN M MARTINO SIMONE	GASTAR EXPLORATION USA INC	1/8+	790 580	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14245	5-18-3.1	C	ODETTE YEATER	GASTAR EXPLORATION USA INC	1/8+	790 503	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14246	5-18-3.1	C	SANDRA M WINSLOW	GASTAR EXPLORATION USA INC	1/8+	790 517	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14247	5-18-3.1	C	HICKEY ALLEN YEATER	GASTAR EXPLORATION USA INC	1/8+	790 513	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14248	5-18-3.1	C	TERRY W YEATER	GASTAR EXPLORATION USA INC	1/8+	790 515	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14249	5-18-3.1	C	CAROL VAN SCYOC	GASTAR EXPLORATION USA INC	1/8+	790 546	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14250	5-18-3.1	C	DONALD REX QUIGLEY	GASTAR EXPLORATION USA INC	1/8+	790 533	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14251	5-18-3.1	C	ELLEN IONA GORBY HEATH	GASTAR EXPLORATION USA INC	1/8+	792 108	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14252	5-18-3.1	C	THE LMA VIRGINIA WHIPKEY YEATER	GASTAR EXPLORATION USA INC	1/8+	794 519	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14253	5-18-3.1	C	PAGE D HUNT (D/C/ASFD)	GASTAR EXPLORATION USA INC	1/8+	795 152	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14254	5-18-3.1	C	PATRICIA A GULUTZ	GASTAR EXPLORATION USA INC	1/8+	796 72	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14255	5-18-3.1	C	RUSSELL BARRITT	GASTAR EXPLORATION USA INC	1/8+	797 193	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14256	5-18-3.1	C	MICHAEL JOHNSON	GASTAR EXPLORATION USA INC	1/8+	799 55	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14257	5-18-3.1	C	KATHRYN L MILLER	GASTAR EXPLORATION USA INC	1/8+	799 534	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14258	5-18-3.1	C	MARGUERITE HARRISON	GASTAR EXPLORATION USA INC	1/8+	799 532	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc and Atinum Marcellus LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14259	5-18-3.1	C	GEORGE MARTINO JR	GASTAR EXPLORATION USA INC	1/8+	803 146	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14260	5-18-3.1	C	JOHN K OTTO	GASTAR EXPLORATION USA INC	1/8+	803 160	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14261	5-18-3.1	C	JEAN MARIE SHIPARD	GASTAR EXPLORATION USA INC	1/8+	804 249	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14262	5-18-3.1	C	MICHAEL B SHEPARD JENNIFER BRECKENRIDGE PERSONAL REP	GASTAR EXPLORATION USA INC	1/8+	804 251	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14263	5-18-3.1	C	LAURIE ANN SHEPARD	GASTAR EXPLORATION USA INC	1/8+	804 243	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14264	5-18-3.1	C	WILLIAM LEWIS OTTO	GASTAR EXPLORATION USA INC	1/8+	809 533	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14765	5-18-31	C	HOWARD F & YAREN SIMS	GASTAR EXPLORATION USA INC	1/8+	816 12	NA	NA	NA	NA	NA	21/41 GASTAR Exploration USA Inc and Gastar Exploration Inc merger	31/184 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14766	5-18-31	C	GREGORY STFINIARI	GASTAR EXPLORATION USA INC	1/8+	818 564	NA	NA	NA	NA	NA	21/41 GASTAR Exploration USA Inc and GASTAR Exploration Inc merger	31/184 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14767	5-18-31	C	NANCY WILKOFF SHELISH	GASTAR EXPLORATION INC	1/8+	833 523	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14768	5-18-31	C	JACQUELINE M CASILLAS-DUKE	GASTAR EXPLORATION INC	1/8+	839 530	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14769	5-18-31	C	SHARON D SMITH	GASTAR EXPLORATION INC	1/8+	840 160	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14770	5-18-31	C	ANNA M BARRI 11 (DECEASED)	GASTAR EXPLORATION USA INC	1/8+	734 457	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14771	5-18-31	C	RICHARD THOMAS BARRI 11	GASTAR EXPLORATION USA INC	1/8+	745 587	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14772	5-18-31	C	ROBERT CLARK ASPLEY	GASTAR EXPLORATION INC	1/8+	844 85	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14773	5-18-31	C	MARY ANNI YEATER MACHAMER	GASTAR EXPLORATION INC	1/8+	852 258	NA	NA	NA	NA	NA	NA	NA	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14774	5-18-31	C	LAURA I YEATER HILL	GASTAR EXPLORATION INC	1/8+	852 245	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14775	5-18-31	C	CAROL RAF YEATER	GASTAR EXPLORATION INC	1/8+	852 247	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14776	5-18-31	C	REBECCA MCPHEK NORRIS	GASTAR EXPLORATION INC	1/8+	854 595	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14777	5-18-31	C	KATHLEEN I YEATER	GASTAR EXPLORATION INC	1/8+	854 593	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14778	5-18-31	C	DAVID GALE	GASTAR EXPLORATION INC	1/8+	854 591	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14779	5-18-31	C	WILLIAM BERNARD YEATER	GASTAR EXPLORATION INC	1/8+	854 589	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14780	5-18-31	C	PAUL EDWARD YEATER	GASTAR EXPLORATION INC	1/8+	854 587	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14781	5-18-31	C	DAWN MCPHEK WREZINSKI	GASTAR EXPLORATION INC	1/8+	860 426	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14782	5-18-31	C	CHERYL VAN PELT	GASTAR EXPLORATION INC	1/8+	860 428	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14783	5-18-31	C	MARY JO BARRI 11	GASTAR EXPLORATION INC	1/8+	862 438	NA	NA	NA	NA	NA	NA	NA	35/119 GASTAR Exploration Inc to Atinum Marcellus I LLC	36/9 GASTAR Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14284	5-18-3.1	C	JULIE BRIGGS	GASTAR EXPLORATION INC	1/8*	862 435	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14285	5-18-3.1	C	EARL C BARRETT JR	GASTAR EXPLORATION INC	1/8*	862 432	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14286	5-18-3.1	C	EMMA LEE NEWHOUSE	GASTAR EXPLORATION INC	1/8*	864 315	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14287	5-18-3.1	C	LAWRENCE AUGUSTIN MCPEEK	GASTAR EXPLORATION INC	1/8*	864 317	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14288	5-18-3.1	C	REBECCA LYNN LASH	GASTAR EXPLORATION INC	1/8*	864 319	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14289	5-18-3.1	C	MARYANN RACHEL VANCE	GASTAR EXPLORATION INC	1/8*	864 323	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14290	5-18-3.1	C	MELISSA ERIKNE SCHROTH	GASTAR EXPLORATION INC	1/8*	877 213	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14291	5-18-3.1	C	MARK DAVID REINE	GASTAR EXPLORATION INC	1/8*	877 215	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14292	5-18-3.1	C	JOHN BARRETT	GASTAR EXPLORATION INC	1/8*	875 603	NA	NA	NA	NA	NA	NA	NA	35/144 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14293	5-18-3.1	C	LEONARD D HABERBOSCH	GASTAR EXPLORATION INC	1/8*	878 647	NA	NA	NA	NA	NA	NA	NA	35/144 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14294	5-18-3.1	C	MARY ELLEN EVANS	GASTAR EXPLORATION INC	1/8*	885 585	NA	NA	NA	NA	NA	NA	NA	35/144 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*15697	5-18-3.1	C	JILL A STANLEY AND WILLIAM D STANLEY USE 113571	TH EXPLORATION LLC	1/8*	908 587	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16099	5-18-3.1	C	CAROL SUZ BLACKWILL AND TERRY LEE BLACKWILL	TH EXPLORATION LLC	1/8*	908 591	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16060	5-18-3.1	C	JOSEPH TERRY KITTLE AND BARBARA G KITTLE	TH EXPLORATION LLC	1/8*	908 593	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16061	5-18-3.1	C	GAIL W YEATER AND RUTH A YEATER	TH EXPLORATION LLC	1/8*	908 595	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16062	5-18-3.1	C	TERRY WAYNE KITTLE AND DEBORAH S KITTLE	TH EXPLORATION LLC	1/8*	908 597	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16063	5-18-3.1	C	EDWARD D YEATER	TH EXPLORATION LLC	1/8*	908 599	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16064	5-18-3.1	C	GENE D JOHNSON AND KATHIE L JOHNSON	TH EXPLORATION LLC	1/8*	908 601	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16065	5-18-3.1	C	CHARLES ARTHUR ANDERSON AND CORRINE ANDERSON	TH EXPLORATION LLC	1/8*	908 639	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16067	5-18-3.1	C	HOWARD DWIGHT JOHNSON	TH EXPLORATION LLC	1/8*	908 641	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16162	5-18-3.1	C	MACKIE K ROBERTS AND CHERYL A ROBERTS	TH EXPLORATION LLC	1/8*	908 643	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16163	5-18-3.1	C	CHRISTINA CAIN	TH EXPLORATION LLC	1/8*	908 645	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16164	5-18-3.1	C	JENNIFER YEATER BRICKENRIDGE	TH EXPLORATION LLC	1/8*	908 647	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16196	5-18-3.1	C	MARILYN S EDWARDS AND JAMIS M EDWARDS	TH EXPLORATION LLC	1/8*	908 649	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16197	5-18-3.1	C	REBECCA ANN HALTY AND RUSSELL L HALTY	TH EXPLORATION LLC	1/8*	909 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16198	5-18-3.1	C	TERRIE L LAUSIN	TH EXPLORATION LLC	1/8*	909 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16248	5-18-3.1	C	DAVID ELLIS LOWE AND SHARON K LOWE	TH EXPLORATION LLC	1/8*	909 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16249	5-18-3.1	C	SANDRA CAROL KOONTZ	TH EXPLORATION LLC	1/8*	909 7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16250	5-18-3.1	C	MICHAEL F LAUSIN AND SHARON G LAUSIN	TH EXPLORATION LLC	1/8*	909 55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16252	5-18-3.1	C	GEORGE W YEATER II	TH EXPLORATION LLC	1/8*	909 57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16253	5-18-3.1	C	KYLAND MICHAEL EVANS	TH EXPLORATION LLC	1/8*	925 235	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16254	5-18-3.1	C	DAVID JOHNSON AND TAMMY JOHNSON	TH EXPLORATION LLC	1/8*	925 235	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16255	5-18-3.1	C	MAX D YEATER	TH EXPLORATION LLC	1/8*	909 59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16300	5-18-3.1	C	TIMOTHY WAYNE ANDERSON AND SUSAN A ANDERSON	TH EXPLORATION LLC	1/8*	909 61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16302	5-18-3.1	C	LYNN M HELINSKI AND THOMAS A HELINSKI	TH EXPLORATION LLC	1/8*	925 243	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16303	5-18-3.1	C	PATRICK T WELLS AND DI BORAH S WELLS	TH EXPLORATION LLC	1/8*	925 237	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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10*16401	5-18-3.1	C	TIMOTHY RUSSELL HINKLE AND SHANNON I HINKLE	TH EXPLORATION LLC	1/8+	908 589	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16433	5-18-3.1	C	LAUREL I AND PAUL J DUNCK, JR	TH EXPLORATION LLC	1/8+	945 241	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16434	5-18-3.1	C	TERRY V STONE	TH EXPLORATION LLC	1/8+	925 239	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16452	5-18-3.1	C	BEATRICE JOAN YEATER KNIGHT	TH EXPLORATION LLC	1/8+	925 247	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16453	5-18-3.1	C	THE ESTATE OF JOHN E YEATER, DEC'D AND SHARON L YEATER, INDIV. & AS EXECUTRIX CARLENE KAY CUNNINGHAM AND JAMES HOWARD CUNNINGHAM	TH EXPLORATION LLC	1/8+	925 245	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16455	5-18-3.1	C	HOWARD CUNNINGHAM	TH EXPLORATION LLC	1/8+	925 271	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16456	5-18-3.1	C	EMILY K RULONG AND WILLIAM F RULONG SR	TH EXPLORATION LLC	1/8+	925 249	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16457	5-18-3.1	C	LISA ANN MARQUART AND GREGORY T MARQUART	TH EXPLORATION LLC	1/8+	925 331	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16458	5-18-3.1	C	NANCY JANE HOLLOWAY AND CHESTER K HOLLOWAY	TH EXPLORATION LLC	1/8+	909 64	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16492	5-18-3.1	C	ELIZABETH JANE SNYDER AND HARRY B SNYDER	TH EXPLORATION LLC	1/8+	925 273	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16493	5-18-3.1	C	JAMES JEFFREY YEATER AND DONNA I YEATER	TH EXPLORATION LLC	1/8+	975 275	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16494	5-18-3.1	C	SUSAN Y INCLAN AND JOSEPH C INCLAN	TH EXPLORATION LLC	1/8+	925 277	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16495	5-18-3.1	C	JAMES W AND NANCY C SHEPARD	TH EXPLORATION LLC	1/8+	925 279	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16496	5-18-3.1	C	GERALD B JONES	TH EXPLORATION LLC	1/8+	975 281	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16497	5-18-3.1	C	MARY B JONES	TH EXPLORATION LLC	1/8+	925 289	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16498	5-18-3.1	C	SHELLEY YEATER	TH EXPLORATION LLC	1/8+	925 283	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16499	5-18-3.1	C	SCOTT C HARRIS AND CAROLYN R HARRIS	TH EXPLORATION LLC	1/8+	925 287	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16500	5-18-3.1	C	JOHN KLINE C/O CINDY KLINE CORBETT	TH EXPLORATION LLC	1/8+	925 285	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16521	5-18-3.1	C	FREDA F QUIGLEY	TH EXPLORATION LLC	1/8+	925 251	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16547	5-18-3.1	C	ANGELA D HARTON	TH EXPLORATION LLC	1/8+	925 231	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16564	5-18-3.1	C	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN	TH EXPLORATION LLC	1/8+	909 66	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16654	5-18-3.1	C	BRETT J LAUSIN SR	TH EXPLORATION LLC	1/8+	925 253	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16660	5-18-3.1	C	RUTH ANN YEATER	TH EXPLORATION LLC	1/8+	925 297	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16707	5-18-3.1	C	HAROLD P AND DONNA SUE RICHMOND	TH EXPLORATION LLC	1/8+	925 333	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16703	5-18-3.1	C	YONINA J MCPHEK	TH EXPLORATION LLC	1/8+	925 255	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16704	5-18-3.1	C	CORRENA A JOHNSON AND BRADLEY I JOHNSON	TH EXPLORATION LLC	1/8+	925 257	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16705	5-18-3.1	C	LINDA SUE FRAIL AND TODD E FRAIL	TH EXPLORATION LLC	1/8+	925 259	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16717	5-18-3.1	C	JAMES L REID AND SIFARY L REID	TH EXPLORATION LLC	1/8+	925 265	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16723	5-18-3.1	C	KATHY N HAWKINS ALBRIGHT AND GEOFFREY A ALBRIGHT	TH EXPLORATION LLC	1/8+	925 263	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16724	5-18-3.1	C	ROBERT W MOCK	TH EXPLORATION LLC	1/8+	925 291	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16725	5-18-3.1	C	RICHARD J F ASSURE	TH EXPLORATION LLC	1/8+	925 261	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16727	5-18-3.1	C	JOHN C FRAME	TH EXPLORATION LLC	1/8+	925 269	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16773	5-18-3.1	C	CASEY L COUCH AND MARIAN BLAIR COUCH	TH EXPLORATION LLC	1/8+	925 267	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16774	5-18-3.1	C	KIM L HAWKINS	TH EXPLORATION LLC	1/8+	925 293	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16775	5-18-3.1	C	WILLIAM CHARLES AND VANITA G ATWELL	TH EXPLORATION LLC	1/8+	925 303	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16776	5-18-3.1	C	MARTHA C GRIMES	TH EXPLORATION LLC	1/8+	925 295	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16816	5-18-3.1	C	BETH ANN AND CHRISTOPHER D ZINKEN	TH EXPLORATION LLC	1/8+	925 299	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*16901	5-18-3.1	C	TRIAN LEE STONE	TH EXPLORATION LLC	1/8+	925 301	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*17275	5-18-3.1	C	RUTH ARLÈNE AND WILLIAM A WYER ANNETTE M JOHNSON AND ARTHUR Q JOHNSON	TH EXPLORATION LLC	1/8+	925 307	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*17431	5-18-3.1	C	IRVING HOLLAND AND JOHN HOLLAND	TH EXPLORATION LLC	1/8+	927 351	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*17460	5-18-3.1	C	THOMAS V HAUCK	TH EXPLORATION LLC	1/8+	925 310	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*17819	5-18-3.1	C	GEORGE T GALE JR AND CAROLE A GALE	TH EXPLORATION LLC	1/8+	925 335	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*18631	5-18-3.1	C	LINDA K STARR AND GEORGE E STARR	TH EXPLORATION LLC	1/8+	927 153	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*18632	5-18-3.1	C	RICHARD HOLLAND	TH EXPLORATION LLC	1/8+	927 155	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*18633	5-18-3.1	C	BREYLIAN LEE SPAIN	TH EXPLORATION LLC	1/8+	927 96	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*27694	5-18-3.1	C	WYVIO UNCLAIMED PROPERTY *	TH EXPLORATION LLC	1/8+	1060 233	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*27959	5-18-3.1	C	STONHILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1063 594	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*28158	5-18-3.1	C	STONHILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1068 140	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*39822	5-18-3.1	C	DAVID E MITCHELL AND AMY L MITCHELL	TH EXPLORATION LLC	1/8+	927 94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*39823	5-18-3.1	C	SHELLEY L SMITH AND JOSHUA W SMITH	TH EXPLORATION LLC	1/8+	927 157	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*14142	5-18-1	D	BENJAMIN FRANKLIN HENRY	GASTAR EXPLORATION USA INC	1/8+	718 498	NA	NA	NA	NA	NA	NA	735/263 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14143	5-18-1	D	LOIS BARRETT	GASTAR EXPLORATION USA INC	1/8+	758 435	NA	NA	NA	NA	NA	NA	27/639 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14144	5-18-1	D	RHONDA BARRETT	GASTAR EXPLORATION USA INC	1/8+	760 366	NA	NA	NA	NA	NA	NA	27/639 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14145	5-18-1	D	JAMES DONALD BARRETT (DECASED)	GASTAR EXPLORATION USA INC	1/8+	760 377	NA	NA	NA	NA	NA	NA	27/639 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14146	5-18-1	D	JO ANNE BARRETT	GASTAR EXPLORATION USA INC	1/8+	760 375	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14147	5-18-1	D	INI Z DORNON	GASTAR EXPLORATION USA INC	1/8+	760 378	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14148	5-18-1	D	HAZEL L RITCHIE	GASTAR EXPLORATION USA INC	1/8+	760 381	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14149	5-18-1	D	MINNIE PFALZGRAF	GASTAR EXPLORATION USA INC	1/8+	760 369	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14150	5-18-1	D	ARLENE MCCORT	GASTAR EXPLORATION USA INC	1/8+	762 448	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14151	5-18-1	D	RICHARD D LEASURL	GASTAR EXPLORATION USA INC	1/8+	762 451	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14152	5-18-1	D	RI BECCA LINN	GASTAR EXPLORATION USA INC	1/8+	762 98	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14153	5-18-1	U	RICHARD LINN	GASTAR EXPLORATION USA INC	1/8+	762 95	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14154	5-18-1	D	JANICE BROWN	GASTAR EXPLORATION USA INC	1/8+	762 92	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14155	5-18-1	D	GUY MCCORT	GASTAR EXPLORATION USA INC	1/8+	765 74	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14156	5-18-1	D	JODIE JOHNSON	GASTAR EXPLORATION USA INC	1/8+	765 80	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14157	5-18-1	D	HARIAN BARRETT	GASTAR EXPLORATION USA INC	1/8+	765 77	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14158	5-18-1	D	JAMIE S HOLLAND	GASTAR EXPLORATION USA INC	1/8+	765 421	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14159	5-18-1	D	ROSS BARRETT	GASTAR EXPLORATION USA INC	1/8+	765 424	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14160	5-18-1	D	KATHY RECHTLE	GASTAR EXPLORATION USA INC	1/8+	765 436	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14161	5-18-1	D	JANICE DODD	GASTAR EXPLORATION USA INC	1/8+	765 427	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14162	5-18-1	D	ALLEN L YEATER	GASTAR EXPLORATION USA INC	1/8+	768 555	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14163	5-18-1	D	MARGARET WILSON FITZSIMMONS	GASTAR EXPLORATION USA INC	1/8+	768 567	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC
10*14164	5-18-1	D	BARBARA YEATER PIRSINGER	GASTAR EXPLORATION USA INC	1/8+	768 557	NA	NA	NA	NA	NA	27/639 GASTAR EXPLORATION USA INC to Atinum Marcellus I LLC	21/41 GASTAR EXPLORATION USA INC and GASTAR EXPLORATION INC merger	36/9 GASTAR EXPLORATION INC to TH EXPLORATION II LLC	48/67 Atinum Marcellus I LLC to TH EXPLORATION II LLC

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10*14165	5-18-1	D	RACHEL A YEATER	GASTAR EXPLORATION USA INC	1/8*	768 559	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14166	5-18-1	D	TERI LEE YEATER PARINSH	GASTAR EXPLORATION USA INC	1/8*	768 563	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14167	5-18-1	D	KAREN YEATER JONES	GASTAR EXPLORATION USA INC	1/8*	768 565	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14168	5-18-1	D	JUDITH HANNAHJS	GASTAR EXPLORATION USA INC	1/8*	770 468	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14169	5-18-1	D	LENA G BLOHM	GASTAR EXPLORATION USA INC	1/8*	770 471	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14170	5-18-1	D	JAMES C KEINE	GASTAR EXPLORATION USA INC	1/8*	772 405	NA	NA	NA	NA	NA	NA	27/639 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14171	5-18-1	D	MICHAEL GALT AND JOSEPHINE GALT	GASTAR EXPLORATION USA INC	1/8*	775 23	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14172	5-18-1	D	JOHN R & LINDA WILSON	GASTAR EXPLORATION USA INC	1/8*	775 25	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14173	5-18-1	D	BARBARA L YEATER	GASTAR EXPLORATION USA INC	1/8*	775 27	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14174	5-18-1	D	CHARLES E YEATER JR	GASTAR EXPLORATION USA INC	1/8*	775 29	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14175	5-18-1	D	JANE LYNN SWINGIE	GASTAR EXPLORATION USA INC	1/8*	775 19	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14176	5-18-1	D	CONRAD S YATIR	GASTAR EXPLORATION USA INC	1/8*	775 368	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14177	5-18-1	D	CAROLYN LOWE WELFR	GASTAR EXPLORATION USA INC	1/8*	775 366	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14178	5-18-1	D	LEANETTE LONG	GASTAR EXPLORATION USA INC	1/8*	775 363	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14179	5-18-1	D	VERA SHIRLENE WORKMAN	GASTAR EXPLORATION USA INC	1/8*	775 361	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14180	5-18-1	D	DIANA S GRAFTON	GASTAR EXPLORATION USA INC	1/8*	776 303	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14181	5-18-1	D	DONALD BROOKS WESLEY	GASTAR EXPLORATION USA INC	1/8*	776 305	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14182	5-18-1	D	RICK WEEKLY	GASTAR EXPLORATION USA INC	1/8*	776 307	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14183	5-18-1	D	NANCY J FOJJ	GASTAR EXPLORATION USA INC	1/8*	776 299	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14184	5-18-1	D	HESTER LORETTA DUGAN DIETRA I DUGAN POA	GASTAR EXPLORATION USA INC	1/8+	776 301	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14185	5-18-1	D	NICOLF WEEKLY	GASTAR EXPLORATION USA INC	1/8+	776 309	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14186	5-18-1	D	WILLIAM GLENN YEATER	GASTAR EXPLORATION USA INC	1/8+	776 311	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14187	5-18-1	D	GERALD E YEATER	GASTAR EXPLORATION USA INC	1/8+	776 323	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14188	5-18-1	D	WILMA M MILLER	GASTAR EXPLORATION USA INC	1/8+	776 321	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14189	5-18-1	D	BILLIE JO BETHEL	GASTAR EXPLORATION USA INC	1/8+	776 319	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14190	5-18-1	D	ELIZABETH LOUISE YEATER MORAN	GASTAR EXPLORATION USA INC	1/8+	776 317	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14191	5-18-1	D	LARRY W. YEATER	GASTAR EXPLORATION USA INC	1/8+	776 315	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14192	5-18-1	D	MYRA HEWITT	GASTAR EXPLORATION USA INC	1/8+	777 581	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14193	5-18-1	D	SONDRA R KING	GASTAR EXPLORATION USA INC	1/8+	777 579	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14194	5-18-1	D	SANDRA REID CUMPTON	GASTAR EXPLORATION USA INC	1/8+	777 578	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14195	5-18-1	D	FRYDERICK MAXWELL YEAHER	GASTAR EXPLORATION USA INC	1/8+	777 583	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14196	5-18-1	D	ROSEMARY AGNES YEATER LUNEMANN	GASTAR EXPLORATION USA INC	1/8+	777 587	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14197	5-18-1	D	PHYLLIS YEATER GREGOSKY	GASTAR EXPLORATION USA INC	1/8+	777 585	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14198	5-18-1	D	MARY J YEATER EARNSHAW	GASTAR EXPLORATION USA INC	1/8+	777 590	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14199	5-18-1	D	MAHY MARGARET WELLMAN BURLEY	GASTAR EXPLORATION USA INC	1/8+	779 488	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14200	5-18-1	D	RANDALL D MORRIS	GASTAR EXPLORATION USA INC	1/8+	779 490	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14201	5-18-1	D	WILLIAM J VEST TRUST AGMT LARRY W YEATER TRUSTEE	GASTAR EXPLORATION USA INC	1/8+	786 490	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14202	5-18-1	D	MAY H RUCKMAN	GASTAR EXPLORATION USA INC	1/8+	779 486	NA	NA	NA	NA	NA	NA	28/499 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14203	5-18-1	D	LINDA KAY MORRIS WILSON	GASTAR EXPLORATION USA INC	1/8+	781 541	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14204	5-18-1	D	JEANETTE SOUTH	GASTAR EXPLORATION USA INC	1/8+	781 537	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14205	5-18-1	D	ANN LOUISE YEATER MARTIN	GASTAR EXPLORATION USA INC	1/8+	781 533	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14206	5-18-1	D	COLLEEN MCCLAIN MOORE	GASTAR EXPLORATION USA INC	1/8+	781 535	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14207	5-18-1	D	FREDRIC & BETTY RICHTER	GASTAR EXPLORATION USA INC	1/8+	781 612	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14208	5-18-1	D	NANCY D THURK	GASTAR EXPLORATION USA INC	1/8+	782 202	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14209	5-18-1	D	MARY JANE BUNGARD	GASTAR EXPLORATION USA INC	1/8+	782 210	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14210	5-18-1	D	JANET E PERSONS	GASTAR EXPLORATION USA INC	1/8+	782 204	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14211	5-18-1	D	STEPHEN L YEATER	GASTAR EXPLORATION USA INC	1/8+	782 206	NA	NA	NA	NA	NA	NA	28/499 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14212	5-18-1	D	MARTHA ANN GAMBLE & DAN MIGLIORINI	GASTAR EXPLORATION USA INC	1/8+	782 609	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14213	5-18-1	D	SHIRLEY I GBUR	GASTAR EXPLORATION USA INC	1/8+	782 611	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14214	5-18-1	D	SIDNEY F YOLHO JR	GASTAR EXPLORATION USA INC	1/8+	782 605	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14215	5-18-1	D	SCOTT K & KATHIE J RICHTER	GASTAR EXPLORATION USA INC	1/8+	782 607	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14216	5-18-1	D	DOUGLAS I GAMBLE	GASTAR EXPLORATION USA INC	1/8+	783 493	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14217	5-18-1	D	DONNA S AND DONALD S KIRCH	GASTAR EXPLORATION USA INC	1/8+	783 497	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14218	5-18-1	D	MICKEY I PORTER	GASTAR EXPLORATION USA INC	1/8+	783 506	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14219	5-18-1	D	SUSAN J BROWN	GASTAR EXPLORATION USA INC	1/8+	783 504	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14220	5-18-1	D	JANIS L & ROY T MILLER	GASTAR EXPLORATION USA INC	1/8+	783 502	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14221	5-18-1	D	DEANNA R LAMBERI	GASTAR EXPLORATION USA INC	1/8+	783 500	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14222	5-18-1	D	ORVILLE V B MADONNA R BLANTON	GASTAR EXPLORATION USA INC	1/8+	783 512	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14223	5-18-1	D	SARAH E HOLT	GASTAR EXPLORATION USA INC	1/8+	783 510	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14224	5-18-1	D	SAMUEL E ZUGARO	GASTAR EXPLORATION USA INC	1/8+	784 193	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14225	5-18-1	D	THOMAS FRANCIS YOHO	GASTAR EXPLORATION USA INC	1/8+	784 195	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14226	5-18-1	D	MONICA ANN RENN	GASTAR EXPLORATION USA INC	1/8+	784 197	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14227	5-18-1	D	HILBERT D MORRIS	GASTAR EXPLORATION USA INC	1/8+	784 199	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14228	5-18-1	D	KALFUS I DOUGHMAN	GASTAR EXPLORATION USA INC	1/8+	786 392	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14229	5-18-1	D	JEFFERY H WILSON & PRISCILLA S WILSON	GASTAR EXPLORATION USA INC	1/8+	786 375	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14230	5-18-1	D	JOSEPH P R BARBARA A WILSON	GASTAR EXPLORATION USA INC	1/8+	786 377	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14231	5-18-1	D	YVONNE MARIE SMITH	GASTAR EXPLORATION USA INC	1/8+	786 379	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14232	5-18-1	D	SANDRA L KELLY	GASTAR EXPLORATION USA INC	1/8+	786 400	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14233	5-18-1	D	THOMAS E PORTER	GASTAR EXPLORATION USA INC	1/8+	786 381	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14234	5-18-1	D	WILLIAM D ADAMS	GASTAR EXPLORATION USA INC	1/8+	786 373	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14235	5-18-1	D	JOHN C WILSON	GASTAR EXPLORATION USA INC	1/8+	786 386	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14236	5-18-1	D	RODNEY C LOWE	GASTAR EXPLORATION USA INC	1/8+	786 367	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14237	5-18-1	D	KHLLY KERN	GASTAR EXPLORATION USA INC	1/8+	787 566	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14238	5-18-1	D	LYNN C LAMBERTSEN	GASTAR EXPLORATION USA INC	1/8+	789 283	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14239	5-18-1	D	JAMES S WILSON & ANN D WILSON	GASTAR EXPLORATION USA INC	1/8+	789 281	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14240	5-18-1	D	SHARON L YEATER	GASTAR EXPLORATION USA INC	1/8+	789 287	NA	NA	NA	NA	NA	29/157 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14241	5-18-1	D	CAROL JUDY LAMCH	GASTAR EXPLORATION USA INC	1/8+	789 305	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14242	5-18-1	D	PATRIJ WILSON	GASTAR EXPLORATION USA INC	1/8+	789 581	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14243	5-18-1	D	JANET HILPERT	GASTAR EXPLORATION USA INC	1/8+	789 579	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14244	5-18-1	D	ANN M MARTINO SIMONI	GASTAR EXPLORATION USA INC	1/8+	790 580	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14245	5-18-1	D	ODETTE YEATER	GASTAR EXPLORATION USA INC	1/8+	790 503	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14246	5-18-1	D	SANDRA M WINSLOW	GASTAR EXPLORATION USA INC	1/8+	790 517	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14247	5-18-1	D	RICKY ALLEN YEATER	GASTAR EXPLORATION USA INC	1/8+	790 513	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14248	5-18-1	D	TERRY W YEATER	GASTAR EXPLORATION USA INC	1/8+	790 515	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14249	5-18-1	D	CAROL VAN SCYOC	GASTAR EXPLORATION USA INC	1/8+	790 546	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14250	5-18-1	D	DONALD REX QUIGLEY	GASTAR EXPLORATION USA INC	1/8+	790 533	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14251	5-18-1	D	EILEEN IONA GORBY HEATH	GASTAR EXPLORATION USA INC	1/8+	797 108	NA	NA	NA	NA	NA	NA	29/157 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14252	5-18-1	D	THELMA VIRGINIA WHIPKEY YEATER	GASTAR EXPLORATION USA INC	1/8+	794 519	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14253	5-18-1	D	PAGE D HUNT (DECEASED)	GASTAR EXPLORATION USA INC	1/8+	795 152	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14254	5-18-1	D	PATRICIA A GOLUTZ	GASTAR EXPLORATION USA INC	1/8+	796 72	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14255	5-18-1	D	RUSSELL BARRETT	GASTAR EXPLORATION USA INC	1/8+	797 193	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14256	5-18-1	D	MICHAEL JOHNSON	GASTAR EXPLORATION USA INC	1/8+	799 55	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14257	5-18-1	D	KATHRYN L MILLER	GASTAR EXPLORATION USA INC	1/8+	799 534	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14258	5-18-1	D	MARGUERITE HAMBISON	GASTAR EXPLORATION USA INC	1/8+	799 537	NA	NA	NA	NA	NA	NA	806/1 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14259	5-18-1	D	GEORGE MARTINO JR	GASTAR EXPLORATION USA INC	1/8+	803 146	NA	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14260	5-18-1	D	JOHN K OTTO	GASTAR EXPLORATION USA INC	1/8+	803 160	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14261	5-18-1	D	JEAN MARIE SHEPARD	GASTAR EXPLORATION USA INC	1/8+	804 249	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14262	5-18-1	D	MICHAEL B SHEPARD JENNIFER BRICKENRIEGE PERSONAL REP	GASTAR EXPLORATION USA INC	1/8+	804 251	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14263	5-18-1	D	LAURIE ANN SHEPARD	GASTAR EXPLORATION USA INC	1/8+	804 243	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14264	5-18-1	D	WILLIAM LEWIS OTTO	GASTAR EXPLORATION USA INC	1/8+	809 533	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14265	5-18-1	D	EDWARD F & KAREN SIMS	GASTAR EXPLORATION USA INC	1/8+	816 12	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14266	5-18-1	D	GREGORY STEINHART	GASTAR EXPLORATION USA INC	1/8+	818 564	NA	NA	NA	NA	NA	NA	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	31/184 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14267	5-18-1	D	NANCY WILKOFF SHEBISH	GASTAR EXPLORATION INC	1/8+	833 523	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14268	5-18-1	D	JACQUELINE M CASILLAS DUKE	GASTAR EXPLORATION INC	1/8+	839 530	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14269	5-18-1	D	SHARON D SMITH	GASTAR EXPLORATION INC	1/8+	840 160	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14270	5-18-1	D	ANNA M BARRETT (DECEASED)	GASTAR EXPLORATION USA INC	1/8+	734 457	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14271	5-18-1	D	RICHARD THOMAS BARRETT	GASTAR EXPLORATION USA INC	1/8+	745 582	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14272	5-18-1	D	ROBERT CLARK ASPLLY	GASTAR EXPLORATION INC	1/8+	844 85	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14273	5-18-1	D	MARY ANNE YEATER MACHAMER	GASTAR EXPLORATION INC	1/8+	852 258	NA	NA	NA	NA	NA	NA	NA	NA	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14274	5-18-1	D	LAURA YEATER HILL	GASTAR EXPLORATION INC	1/8+	852 245	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14275	5-18-1	D	CAROL RAE YEATER	GASTAR EXPLORATION INC	1/8+	852 247	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14276	5-18-1	D	REBECCA MICHELE NORRIS	GASTAR EXPLORATION INC	1/8+	854 595	NA	NA	NA	NA	NA	NA	NA	35/119 Gaster Exploration Inc to Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14277	5-18-1	D	KATHLEEN I YEATER	GASTAR EXPLORATION INC	1/8+	854 593	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14278	5-18-1	D	DAVID GALE	GASTAR EXPLORATION INC	1/8+	854 591	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14279	5-18-1	D	WILLIAM BERNARD YEATER	GASTAR EXPLORATION INC	1/8+	854 589	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14280	5-18-1	D	PAUL EDWARD YEATER	GASTAR EXPLORATION INC	1/8+	854 587	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14281	5-18-1	D	DAWN MCPPEK WREZINSKI	GASTAR EXPLORATION INC	1/8+	860 476	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14282	5-18-1	D	CHERYL VAN PELT	GASTAR EXPLORATION INC	1/8+	860 428	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14284	5-18-1	D	MARY ID BARRETT	GASTAR EXPLORATION INC	1/8+	862 438	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14284	5-18-1	D	JULIE BRIGGS	GASTAR EXPLORATION INC	1/8+	862 435	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14285	5-18-1	D	EARL C BARRETT JR	GASTAR EXPLORATION INC	1/8+	862 432	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14286	5-18-1	D	EMMA LEE NEWHOUSE	GASTAR EXPLORATION INC	1/8+	864 315	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14287	5-18-1	D	LAWRENCE AUGUSTIN MCPPEK	GASTAR EXPLORATION INC	1/8+	864 317	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14288	5-18-1	D	REBECCA LYNN LASH	GASTAR EXPLORATION INC	1/8+	864 319	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14289	5-18-1	D	MARYANN RACHEL VANCE	GASTAR EXPLORATION INC	1/8+	864 321	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14290	5-18-1	D	MELISSA ELAINE SCHROTH	GASTAR EXPLORATION INC	1/8+	872 213	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14291	5-18-1	D	MARK DAVID HUNT	GASTAR EXPLORATION INC	1/8+	872 215	NA	NA	NA	NA	NA	NA	NA	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14292	5-18-1	D	JOHN BARRETT	GASTAR EXPLORATION INC	1/8+	875 603	NA	NA	NA	NA	NA	NA	NA	35/144 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14293	5-18-1	D	LEONARD O HABERBOSCH	GASTAR EXPLORATION INC	1/8+	878 647	NA	NA	NA	NA	NA	NA	NA	35/144 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14294	5-18-1	D	MARY ELLEN EVANS	GASTAR EXPLORATION INC	1/8+	885 585	NA	NA	NA	NA	NA	NA	NA	35/575 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*15697	5-18-1	D	JILL A STANLEY AND WILLIAM D STANLEY USE 113571	TH EXPLORATION LLC	1/8+	908 587	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16059	5-18-1	D	CAROL SUE BLACKWELL AND BERRY LLL BLACKWELL	TH EXPLORATION LLC	1/8+	908 591	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16060	5-18-1	D	JOSEPH LEROY KITTLE AND BARBARA G KITTLE	TH EXPLORATION LLC	1/8+	908 593	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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10*16061	5-18-1	D	GAIL YEATER AND JUDITH A YEATER	TH EXPLORATION LLC	1/8+	908 595	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16062	5-18-1	D	TERRY WAYNE KITTLE AND DEBORAH S KITTLE	TH EXPLORATION LLC	1/8+	908 597	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16063	5-18-1	D	EDWARD D YEATER	TH EXPLORATION LLC	1/8+	908 599	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16064	5-18-1	D	GENE O JOHNSON AND KATHIE L JOHNSON CHARLES ARTHUR ANDERSON AND CORRIE ANDERSON	TH EXPLORATION LLC	1/8+	908 601	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16065	5-18-1	D	HOWARD DWIGHT JOHNSON	TH EXPLORATION LLC	1/8+	908 639	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16067	5-18-1	D	MACKIE R ROBERTS AND CHERYL A ROBERTS	TH EXPLORATION LLC	1/8+	908 643	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16163	5-18-1	D	CHRISTINA CANN	TH EXPLORATION LLC	1/8+	908 645	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16164	5-18-1	D	JENNIFER YEATER BRUCKENRIDGE MARILYN S EDWARDS AND JAMES M EDWARDS	TH EXPLORATION LLC	1/8+	908 647	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16196	5-18-1	D	REBECCA ANN HALEY AND RUSSELL L HALEY	TH EXPLORATION LLC	1/8+	909 1	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16197	5-18-1	D	TERRIE L LAUSIN	TH EXPLORATION LLC	1/8+	909 3	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16198	5-18-1	D	DAVID ELLIS LOWE AND SHARON K LOWE	TH EXPLORATION LLC	1/8+	909 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16248	5-18-1	D	SANDRA CAROL KOONTZ	TH EXPLORATION LLC	1/8+	909 7	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16249	5-18-1	D	MICHAEL E LAUSIN AND SHARON G LAUSIN	TH EXPLORATION LLC	1/8+	909 55	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16250	5-18-1	D	GEORGE W YEATER II	TH EXPLORATION LLC	1/8+	909 57	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16252	5-18-1	D	KYLAND MICHAEL EVANS	TH EXPLORATION LLC	1/8+	925 235	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16253	5-18-1	D	DAVID JOHNSON AND TAMMY JOHNSON	TH EXPLORATION LLC	1/8+	925 235	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16254	5-18-1	D	MAX D YEATER	TH EXPLORATION LLC	1/8+	909 59	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16255	5-18-1	D	TIMOTHY WAYNE ANDERSON AND SUSAN A ANDERSON	TH EXPLORATION LLC	1/8+	909 61	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16300	5-18-1	D	LYNN M HELINSKI AND THOMAS A HELINSKI	TH EXPLORATION LLC	1/8+	925 243	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16302	5-18-1	D	PATRICK I WELLS AND DEBORAH S WELLS	TH EXPLORATION LLC	1/8+	925 237	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16303	5-18-1	D	TIMOTHY RUSSELL HINKLE AND SHANNON L HINKLE	TH EXPLORATION LLC	1/8+	908 589	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16401	5-18-1	D	LAUREL AND PAUL J DUBECK, JR	TH EXPLORATION LLC	1/8+	945 241	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16433	5-18-1	D	TERRY V STONE	TH EXPLORATION LLC	1/8+	925 239	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16434	5-18-1	D	BEATRICE JOAN YEATER KNIGHT	TH EXPLORATION LLC	1/8+	925 247	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16452	5-18-1	D	THE ESTATE OF JOHN F YEATER, DECED AND SHARON L YEATER, INDIV. & AS EXECUTRIX CARLENE KAY CUNNINGHAM AND JAMES HOWARD CUNNINGHAM	TH EXPLORATION LLC	1/8+	925 245	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16453	5-18-1	D	EMILY K RULONG AND WILLIAM T RULONG SR LISA ANN MARQUART AND GREGORY F MARQUART	TH EXPLORATION LLC	1/8+	925 249	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16455	5-18-1	D	NANCY JANE HOLLOWAY AND CHESTER K HOLLOWAY	TH EXPLORATION LLC	1/8+	925 331	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16456	5-18-1	D	ELIZABETH JANE SNYDER AND HARRY B SNYDER	TH EXPLORATION LLC	1/8+	909 64	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16457	5-18-1	D	JAMES JEFFREY YEATER AND DONNA L YEATER	TH EXPLORATION LLC	1/8+	925 273	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16458	5-18-1	D	SUSAN Y INCLAN AND JOSEPH C INCLAN	TH EXPLORATION LLC	1/8+	925 275	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16492	5-18-1	D	JAMES W AND NANCY C SHEPARD	TH EXPLORATION LLC	1/8+	925 277	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16493	5-18-1	D	GERALD B JONES	TH EXPLORATION LLC	1/8+	925 279	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16496	5-18-1	D	MARY B JONES	TH EXPLORATION LLC	1/8+	925 281	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16497	5-18-1	D	SHELLEY YEATER	TH EXPLORATION LLC	1/8+	925 289	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16498	5-18-1	D	SCOTT C HARRIS AND CAROLYN R HARRIS	TH EXPLORATION LLC	1/8+	925 283	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16499	5-18-1	D	JOHN KLINE C/O CINDY KLINE CORBETT	TH EXPLORATION LLC	1/8+	925 287	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16500	5-18-1	D	FREDA F QUIGLEY	TH EXPLORATION LLC	1/8+	925 285	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16521	5-18-1	D	ANGELO D HARDON	TH EXPLORATION LLC	1/8+	925 251	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16547	5-18-1	D	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN	TH EXPLORATION LLC	1/8+	925 231	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16564	5-18-1	D	BRETT J LAUSIN SR	TH EXPLORATION LLC	1/8+	909 66	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16654	5-18-1	D	RUTH ANN YEATER	TH EXPLORATION LLC	1/8+	925 253	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16660	5-18-1	D	HAROLD P AND DONNA SUE RICHMOND	TH EXPLORATION LLC	1/8+	925 297	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16702	5-18-1	D	YOHNA J MCPECK	TH EXPLORATION LLC	1/8+	925 333	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16703	5-18-1	D	COREENA A JOHNSON AND BRADLEY L JOHNSON	TH EXPLORATION LLC	1/8+	925 255	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16704	5-18-1	D	LINDA SUE FRAIL AND TODD E FRAIL	TH EXPLORATION LLC	1/8+	925 257	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16705	5-18-1	D	JAMES L REID AND SHERRY L REID	TH EXPLORATION LLC	1/8+	925 259	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16717	5-18-1	D	KATHY N HAWKINS ALBRIGHT AND GEOFFREY A ALBRIGHT	TH EXPLORATION LLC	1/8+	925 265	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16723	5-18-1	D	ROBERT W MOCK	TH EXPLORATION LLC	1/8+	925 263	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16724	5-18-1	D	RICHARD J LEASURE	TH EXPLORATION LLC	1/8+	925 291	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16725	5-18-1	D	JOHN C FRAME	TH EXPLORATION LLC	1/8+	925 261	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16727	5-18-1	D	CASEY L COUCH AND MARIAN BLAIR COUCH	TH EXPLORATION LLC	1/8+	925 269	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16773	5-18-1	D	KIM L HAWKINS	TH EXPLORATION LLC	1/8+	925 267	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16774	5-18-1	D	WILLIAM CHARLES AND VANITA G ATWELL	TH EXPLORATION LLC	1/8+	925 293	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16775	5-18-1	D	MARTHA C GRIMES	TH EXPLORATION LLC	1/8+	925 303	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16776	5-18-1	D	BETH ANN AND CHRISTOPHER D ZINKEN	TH EXPLORATION LLC	1/8+	925 295	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16816	5-18-1	D	BRIAN LEE STONE	TH EXPLORATION LLC	1/8+	925 299	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*16901	5-18-1	D	RUTH ARLENE AND WILLIAM A WYER	TH EXPLORATION LLC	1/8+	925 301	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17225	5-18-1	D		TH EXPLORATION LLC	1/8+	925 305	NA	NA	NA	NA	NA	NA	NA	NA	NA

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10*17337	5-18-1	D	ANNETTE M JOHNSON AND ARTHUR Q JOHNSON	IH EXPLORATION LLC	1/8+	925 307	NA	NA	NA	NA	NA	NA	NA	NA	
10*17411	5-18-1	D	IRENE HOLLAND AND JOHN HOLLAND	IH EXPLORATION LLC	1/8+	927 151	NA	NA	NA	NA	NA	NA	NA	NA	
10*17460	5-18-1	D	THOMAS V NAUCK	IH EXPLORATION LLC	1/8+	925 310	NA	NA	NA	NA	NA	NA	NA	NA	
10*17819	5-18-1	D	GEORGE T GALE JR AND CAROLE A GALE	IH EXPLORATION LLC	1/8+	925 335	NA	NA	NA	NA	NA	NA	NA	NA	
10*18631	5-18-1	D	LINDA K STARR AND GEORGE E STARR	IH EXPLORATION LLC	1/8+	927 153	NA	NA	NA	NA	NA	NA	NA	NA	
10*18632	5-18-1	D	RICHARD HOLLAND	IH EXPLORATION LLC	1/8+	927 155	NA	NA	NA	NA	NA	NA	NA	NA	
10*18633	5-18-1	D	BRYANN LEE SPAIN	IH EXPLORATION LLC	1/8+	927 96	NA	NA	NA	NA	NA	NA	NA	NA	
10*27684	5-18-1	D	UNCLAIMED PROPERTY *	TH EXPLORATION LLC	1/8+	1060 233	NA	NA	NA	NA	NA	NA	NA	NA	
10*27955	5-18-1	D	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1063 594	NA	NA	NA	NA	NA	NA	NA	NA	
10*28158	5-18-1	D	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1068 140	NA	NA	NA	NA	NA	NA	NA	NA	
10*39827	5-18-1	D	DAVID E MITCHELL AND AMY L MITCHELL	TH EXPLORATION LLC	1/8+	927 94	NA	NA	NA	NA	NA	NA	NA	NA	
10*39824	5-18-1	D	SHELLEY SMITH AND JOSHUA W SMITH	TH EXPLORATION LLC	1/8+	927 157	NA	NA	NA	NA	NA	NA	NA	NA	
10*19037	5-18-4	E	JAN I ARNOLD MARSHA A ARNOLD	CHEVRON USA INC	1/8+	813 111	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19033	5-18-4	E	MARTHA I TAMBLYN	CHEVRON USA INC	1/8+	811 637	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19042	5-18-4	E	JOHN MATTHEW ARNOLD AILEEN GAY ARNOLD	CHEVRON USA INC	1/8+	814 346	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19044	5-18-4	E	CYNTHIA GAYLOR	CHEVRON USA INC	1/8+	814 367	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19051	5-18-4	E	JEFFREY L ARNOLD	CHEVRON USA INC	1/8+	813 600	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19053	5-18-4	E	JAMI S LLOYD ARNOLD DARCY L ARNOLD	CHEVRON USA INC	1/8+	815 140	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19058	5-18-4	E	REBECCA E KINKOFF	CHEVRON USA INC	1/8+	818 1	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19065	5-18-4	E	STEVEN LLOYD ARNOLD AND DONNA RAE ARNOLD	CHEVRON USA INC	1/8+	817 467	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19078	5-18-4	E	SCOTT LANE ARNOLD LAURA J ARNOLD	CHEVRON USA INC	1/8+	879 437	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19100	5-18-4	E	GARY GLENN CRAEMER	CHEVRON USA INC	1/8+	837 344	NA	NA	NA	NA	NA	NA	NA	40/127 Chevron USA Inc to TH Exploration LLC	
10*19106	5-18-4	E	A. J. CHASE AND BIL TSY R. CHASE, HUSBAND AND WIFE	AB RESOURCES LLC	1/8+	692 447	NA	NA	NA	NA	NA	24/382 AB Resources LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	24/490 AB Resources LLC and NPAR LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership corrective	Exploration & Development LLC, Chief Oil & Gas LLC, Radler 2000 Limited Partnership, Enerplus Resources USA Corp to Chevron USA Inc	40/127 Chevron USA Inc to TH Exploration LLC
10*19110	5-18-4	E	DONNA SMITH CHASE	AB RESOURCES LLC	1/8+	692 451	NA	NA	NA	NA	NA	24/382 AB Resources LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	24/490 AB Resources LLC and NPAR LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership corrective	Exploration & Development LLC, Chief Oil & Gas LLC, Radler 2000 Limited Partnership, Enerplus Resources USA Corp to Chevron USA Inc	40/127 Chevron USA Inc to TH Exploration LLC
10*19111	5-18-4	E	MARJORIE L CHASE	AB RESOURCES LLC	1/8+	692 453	NA	NA	NA	NA	NA	24/382 AB Resources LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	24/490 AB Resources LLC and NPAR LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership corrective	Exploration & Development LLC, Chief Oil & Gas LLC, Radler 2000 Limited Partnership, Enerplus Resources USA Corp to Chevron USA Inc	40/127 Chevron USA Inc to TH Exploration LLC
10*24308	5-18-4	E	BARBARA ELLIS AND HENRY ELLIS	TH EXPLORATION LLC	1/8+	1017 449	NA	NA	NA	NA	NA	NA	NA	NA	
10*24311	5-18-4	E	KATE CRAEMER ALDEN AND NOEL ALDEN	TH EXPLORATION LLC	1/8+	1019 485	NA	NA	NA	NA	NA	NA	NA	NA	
10*24312	5-18-4	E	BILL CRAEMER	TH EXPLORATION LLC	1/8+	1017 448	NA	NA	NA	NA	NA	NA	NA	NA	

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10*19018	5-15-11	F	BENJAMIN FRANKLIN HENRY FREDRICK ALLEN HENRY	GASTAR EXPLORATION USA INC	1/8+	746 5	NA	NA	23/624 Gastar Exploration USA Inc and Atinum Marcellus I LLC to AB Resources LLC, Chief Exploration & Development LLC, Radler 2000 Limited Partnership and Enerplus Resources USA Corp to TriEnergy Holdings LLC	23/636 AB Resources LLC, Chief Exploration & Development LLC, Radler 2000 Limited Partnership and Enerplus Resources USA Corp to TriEnergy Holdings LLC	25/1 Chief Exploration & Development LLC, Chief Oil & Gas LLC, Radler 2000 Limited Partnership and Enerplus Resources USA Corp to Chevron USA Inc	25/105 Chief Exploration & Development LLC, Chief Oil & Gas LLC, Radler 2000 Limited Partnership and Enerplus Resources USA Corp to Chevron USA Inc	756/397 AB Resources LLC to Chevron USA Inc	40/127 Chevron USA Inc to TH Exploration LLC	
10*19337	5-15-12	G	JACK PITROCK HATHIE PITROCK	TRIENERGY, INC.	1/8+	741 68	NA	NA	20/252 TriEnergy Inc to AB Resources Inc	21/148 TriEnergy Inc to TriEnergy Holdings LLC	24/319 AB Resources LLC to Chief Exploration & Development LLC and Enerplus Resources USA Corp to Chevron USA Inc	25/1 Chief Exploration & Development LLC, Chief Oil & Gas LLC, Radler 2000 Limited Partnership and Enerplus Resources USA Corp to Chevron USA Inc	28/356 TriEnergy Holdings LLC and TriEnergy Inc to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC	
10*14110	5-19-13	H	RONA LEE MCCARDLE	GASTAR EXPLORATION USA INC	1/8+	670 472	NA	NA	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*25633	5-19-13	H	CHESTNUT HOLDINGS INC	TH EXPLORATION LLC	1/8+	1034 350	NA	NA	NA	NA	NA	NA	NA	NA	
10*14571	5-19-8	F	MATTHEWS & BRINDA SANDERSON	GASTAR EXPLORATION USA INC	1/8+	840 165	NA	NA	NA	NA	NA	NA	33/308 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14116	5-14-15	J	DONALD SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 367	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14117	5-14-15	J	ROBERT I SHIELDS AND REBECCA A SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 360	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14118	5-14-15	J	RITA A RUSH	GASTAR EXPLORATION USA INC	1/8+	813 450	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14119	5-14-15	J	CHARLES W & JUDITH A SNYDER	GASTAR EXPLORATION USA INC	1/8+	813 457	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14120	5-14-15	J	CAROL D & ABRAM HARBERT	GASTAR EXPLORATION USA INC	1/8+	813 448	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14121	5-14-15	J	JACK D & GRETA A SNYDER	GASTAR EXPLORATION USA INC	1/8+	813 446	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14122	5-14-15	J	ERIC L STOLTZFUS	GASTAR EXPLORATION INC	1/8+	833 525	NA	NA	NA	NA	32/428 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14123	5-14-15	J	TEESHA L HOLMES	GASTAR EXPLORATION INC	1/8+	836 96	NA	NA	NA	NA	32/428 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14124	5-14-15	J	BETSY G STOLTZFUS	GASTAR EXPLORATION INC	1/8+	836 94	NA	NA	NA	NA	32/428 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14116	5-15-15	K	DONALD SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 367	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14117	5-15-15	K	ROBERT I SHIELDS AND REBECCA A SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 360	NA	NA	NA	NA	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	

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10*14116	5-14-14	L	DONALD SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 367	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14117	5-14-14	L	ROBERT L SHIELDS AND REBECCA A SHIELDS	GASTAR EXPLORATION USA INC	1/8+	669 360	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14928	5-14-12	M	JOSEPH D. PARRIOTT & NELLIE B. PARRIOTT, HUSBAND AND WIFE	TRIFENERGY, INC.	1/8+	660 517			666/40 AB Resources LLC to Chief Exploration & Development LLC	19/623 TriEnergy Inc to AB Resources LLC	21/148 TriEnergy Inc to TriEnergy Holdings LLC	25/1 & 25/105 Chief Expl & Devt, Radler 2000 Ltd Partnership & Enerplus Resources USA Corp to Chevron USA Inc	24/319 AB Resources LLC to Chief Exploration & Development and Radler 2000 limited Partnership	756/397 AB Resources LLC to Chevron USA Inc	32/355 Chevron USA Inc to Gaster Exploration Inc and Atinum Marcellus I LLC	36/9 Gaster Exploration Inc to TH Exploration II LLC
10*14067	5-14-13	N	REVA FRANZE	GASTAR EXPLORATION USA INC	1/8+	666 51	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14470	5-14-10	O	ELLIS V & WANDA P RINI	GASTAR EXPLORATION USA INC	1/8+	725 141	NA	NA	NA	NA	NA	735/263 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*21769	5-12-14	P	BETTY HAMILTON	TH EXPLORATION LLC	1/8+	957 419	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*21770	5-12-14	P	SUSAN WINLAND AND PAUL MCKHATT	TH EXPLORATION LLC	1/8+	957 421	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*21776	5-12-14	P	LINDA HAMILTON	TH EXPLORATION LLC	1/8+	957 417	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*14030	5-18-23	Q	LOIS V YOHO	GASTAR EXPLORATION USA INC	1/8+	665 553	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14031	5-18-23	Q	CHARLES H BASSETT JR & WIFE RUBY D BASSETT	GASTAR EXPLORATION USA INC	1/8+	665 491	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14032	5-18-23	Q	WILBER F AND BARBARA KAY EWING	GASTAR EXPLORATION USA INC	1/8+	665 481	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14295	5-18-24	R	MARK F. YOHO AND MARY YOHO, HUSBAND AND WIFE	TRIFENERGY, INC.	1/8+	655 546	NA	NA	19/623 TriEnergy Inc to AB Resources LLC	666/40 AB Resources LLC to Chief Exploration & Development LLC	21/148 TriEnergy Inc to TriEnergy Holdings LLC	24/39 AB Resources LLC, Chief Exploration & Development LLC, Radler 2000 limited Partnership and Enerplus Resources USA Corp to Gaster Exploration USA Inc and Atinum Marcellus I LLC	21/520 Chief Exploration & Development LLC and Radler 2000 limited Partnership to Enerplus Resources USA Corp	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	
10*14296	5-18-24	R	DUANE BRUNN	TRIFENERGY HOLDINGS, LLC	1/8+	705 484	NA	NA	NA	NA	TriEnergy Holdings LLC to AB Resources LLC (12/28/2010 unrecorded)	24/32 AB Resources LLC to Gaster Exploration USA Inc and Atinum Marcellus I LLC	24/180 TriEnergy Holdings LLC to NPAR LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	
10*14077	5-18-22	S	DENISE D WAYNE AND HOWARD M WAYNE SR	GASTAR EXPLORATION USA INC	1/8+	665 384	NA	NA	NA	NA	NA	23/353 Gaster Exploration USA Inc to Atinum Marcellus I LLC	21/41 Gaster Exploration USA Inc and Gaster Exploration Inc merger	36/9 Gaster Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*17145	5-18-21.1	T	JAMES J CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 458	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-18-21.1	T	CARDOLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8+	685 464	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17147	5-18-21.1	T	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8+	685 470	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC

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10*17148	5-18-21.1	T	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 476	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-18-21.1	F	WANDA M. BLAKE	CHESAPEAKE APPALACHIA LLC	1/8+	685 482	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17150	5-18-21.1	T	IDA L. CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 488	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*22169	5-18-21.1	T	BARBARA WITTE	TH EXPLORATION LLC	1/8+	954 641	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17145	5-18-20	U	JAMES J. CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 458	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-18-20	U	CAROLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8+	685 464	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17147	5-18-20	U	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8+	685 470	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17148	5-18-20	U	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 476	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-18-20	U	WANDA M. BLAKE	CHESAPEAKE APPALACHIA LLC	1/8+	685 482	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17150	5-18-20	U	IDA L. CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 488	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*21347	5-18-20	U	JAMES A CHANNING & ALICE E CHANNING WAYNE E CHANNING AND MYRNA J CHANNING	TH EXPLORATION LLC	1/8+	951 634	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21148	5-18-20	U	DAROLD L CHANNING & PATRICIA A CHANNING	TH EXPLORATION LLC	1/8+	953 84	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21189	5-18-20	U	CHANNING	TH EXPLORATION LLC	1/8+	952 186	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21435	5-18-20	U	RILEY J RADSKI AND TODD A CARR	TH EXPLORATION LLC	1/8+	957 25	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17145	5-18-21.3	V	JAMES J. CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 458	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-18-21.3	V	CAROLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8+	685 464	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17147	5-18-21.3	V	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8+	685 470	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17148	5-18-21.3	V	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 476	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-18-21.3	V	WANDA M. BLAKE	CHESAPEAKE APPALACHIA LLC	1/8+	685 482	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC

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10*17150	5-18-21.3	V	IDA L CAMPBELL	CHESAPEAKE APPALACHIA LLC	3/8+	685 488	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC to TH Exploration LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*2265R	5-18-21.3	V	STONE HILL MINIRATS HOLDINGS LLC	TH EXPLORATION LLC	3/8+	1073 56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17145	5-18-21	W	JAMES J. CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 458	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-18-21	W	CAROLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8+	685 464	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17147	5-18-21	W	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8+	685 470	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17148	5-18-21	W	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 476	NA	NA	NA	NA	NA	23/177 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-18-21	W	WANDA M. BLAKE	CHESAPEAKE APPALACHIA LLC	1/8+	685 482	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17150	5-18-21	W	IDA L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 488	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*22169	5-18-21	W	BARBARA KITTLE	TH EXPLORATION LLC	1/8+	954 641	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17145	5-18-21.2	X	JAMES J. CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 458	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-18-21.2	X	CAROLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8+	685 464	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17147	5-18-21.2	X	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8+	685 470	NA	NA	NA	NA	NA	23/177 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17148	5-18-21.2	X	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 476	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-18-21.2	X	WANDA M. BLAKE	CHESAPEAKE APPALACHIA LLC	1/8+	685 482	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17150	5-18-21.2	X	IDA L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 488	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*22169	5-18-21.2	X	BARBARA KITTLE	TH EXPLORATION LLC	1/8+	954 641	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17145	5-23-3	Y	JAMES J. CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 458	NA	NA	NA	NA	NA	23/177 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-23-3	Y	CAROLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8+	685 464	NA	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC

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10*17147	5-23-3	Y	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8+	685 470	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17148	5-23-3	Y	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 476	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-23-3	Y	WANDA M. BLAKE	CHESAPEAKE APPALACHIA LLC	1/8+	685 482	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17150	5-23-3	Y	IDA L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8+	685 488	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*22145	5-23-3	Y	ARI J HOCHSTETLER AND ANNA E HOCHSTETLER	TH EXPLORATION LLC	1/8+	957 7	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22169	5-18-21.4	Z	BARBARA KITTLE	TH EXPLORATION LLC	1/8+	954 641	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22169	5-18-21.4	Z	BARBARA KITTLE	TH EXPLORATION LLC	1/8+	954 641	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*14847	5-23-5	AA	LETHA RUCKMAN	GASTAR EXPLORATION USA INC	1/8+	806 270	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14849	5-23-5	AA	DAVID GUSTELY	GASTAR EXPLORATION USA INC	1/8+	806 265	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14853	5-23-5	AA	DURWOOD WRIGHT BY CATHERINE HUMMEL AIF	GASTAR EXPLORATION USA INC	1/8+	809 507	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14861	5-23-5	AA	NANCY WHITLATCH	GASTAR EXPLORATION USA INC	1/8+	809 526	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14862	5-23-5	AA	ANN GUSTELY	GASTAR EXPLORATION USA INC	1/8+	809 568	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14864	5-23-5	AA	CAROLYN DURWAY	GASTAR EXPLORATION USA INC	1/8+	810 330	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14866	5-23-5	AA	GARY CARMICHAEL	GASTAR EXPLORATION USA INC	1/8+	810 316	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14868	5-23-5	AA	WOODROW CAMPBELL JR	GASTAR EXPLORATION USA INC	1/8+	813 454	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14869	5-23-5	AA	RALPH VAUGHN TAYLOR	GASTAR EXPLORATION USA INC	1/8+	813 561	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14870	5-23-5	AA	DAVID CARMICHAEL	GASTAR EXPLORATION USA INC	1/8+	816 16	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	
10*14872	5-23-5	AA	DWG OIL & GAS ACQUISITIONS LLC	GASTAR EXPLORATION USA INC	1/8+	817 312	NA	NA	NA	NA	21/41 Gastar Exploration USA Inc and Gastar Exploration Inc merger	31/184 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC	

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10*14873	5-23-5	AA	RAYMOND MILLER	GASTAR EXPLORATION USA INC	1/8+	871 44	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	32/428 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14874	5-23-5	AA	RICHARD MILLER	GASTAR EXPLORATION USA INC	1/8+	822 260	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	32/428 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14876	5-23-5	AA	SHIRLEY LARGENT	GASTAR EXPLORATION USA INC	1/8+	827 278	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	32/428 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14877	5-23-5	AA	GARY F OBOLOY AND DENISE I OBOLOY	GASTAR EXPLORATION USA INC	1/8+	836 112	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	32/428 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14878	5-23-5	AA	ARTHUR BRUCE COULTER	GASTAR EXPLORATION USA INC	1/8+	839 519	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	33/308 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14879	5-23-5	AA	TERESA RINE	GASTAR EXPLORATION USA INC	1/8+	840 162	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	33/308 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14880	5-23-5	AA	IRIS I LUCAS	GASTAR EXPLORATION USA INC	1/8+	849 545	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	34/302 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14881	5-23-5	AA	MARY WHITLATCH POA DERBY A ANDERSON	GASTAR EXPLORATION USA INC	1/8+	849 548	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	34/302 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14882	5-23-5	AA	GARY RINE	GASTAR EXPLORATION USA INC	1/8+	849 551	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	34/402 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14884	5-23-5	AA	KENE E HAGERTY	GASTAR EXPLORATION USA INC	1/8+	852 255	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14885	5-23-5	AA	HOWARD RINE	GASTAR EXPLORATION USA INC	1/8+	854 601	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14886	5-23-5	AA	JOJO YOHIO SMITH	GASTAR EXPLORATION USA INC	1/8+	854 604	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14887	5-23-5	AA	CHRISTINA ROBERTS	GASTAR EXPLORATION USA INC	1/8+	867 392	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14888	5-23-5	AA	DARLENE BUTLER	GASTAR EXPLORATION USA INC	1/8+	867 395	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14889	5-23-5	AA	HAROLD YOHIO	GASTAR EXPLORATION USA INC	1/8+	870 37	NA	NA	NA	NA	NA	NA	21741 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC

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10*14890	5-23-5	AA	HENRY MALONE JR	GASTAR EXPLORATION USA INC	1/8*	870 40	NA	NA	NA	NA	NA	21/21 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*14891	5-23-5	AA	NANCY F FYE & STEPHEN M FYE	GASTAR EXPLORATION USA INC	1/8*	885 606	NA	NA	NA	NA	NA	21/21 Gastar Exploration USA Inc and Gastar Exploration Inc merger	35/119 Gastar Exploration Inc to Atinum Marcellus I LLC	36/9 Gastar Exploration Inc to TH Exploration II LLC	48/67 Atinum Marcellus I LLC to TH Exploration II LLC
10*17145	5-23-5	AA	JAMES J CAMPBELL AND BETTY J CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8*	685 458	NA	NA	NA	NA	73/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17146	5-23-5	AA	CAROLYN CAMPBELL BRITTON AND ROBERT C. BRITTON	CHESAPEAKE APPALACHIA LLC	1/8*	685 464	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17147	5-23-5	AA	JOANN J PARSONS AND GARY D PARSONS	CHESAPEAKE APPALACHIA LLC	1/8*	685 470	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17148	5-23-5	AA	JUNE L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8*	685 476	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17149	5-23-5	AA	WANDA M BLAKE	CHESAPEAKE APPALACHIA LLC	1/8*	685 482	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17150	5-23-5	AA	IDA L CAMPBELL	CHESAPEAKE APPALACHIA LLC	1/8*	685 488	NA	NA	NA	NA	23/127 Chesapeake Appalachia LLC to Statoil Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/424 Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC	19/624 SWN Exchange Titleholder LLC to SWN Production Company LLC	41/256 SWN Production Company LLC to TH Exploration LLC
10*17502	5-23-5	AA	PATRICIA E GUSTELY	TH EXPLORATION LLC	1/8*	942 334	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17532	5-23-5	AA	DONALD S BOBOVNIK AND DOLORES J BOBOVNIK	TH EXPLORATION LLC	1/8*	942 346	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17535	5-23-5	AA	RONALD L MAYER AND DEBRA A MAYER	TH EXPLORATION LLC	1/8*	929 580	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17539	5-23-5	AA	JOANN HAGERTY	TH EXPLORATION LLC	1/8*	942 342	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17540	5-23-5	AA	MONY L STEL	TH EXPLORATION LLC	1/8*	942 624	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17541	5-23-5	AA	ROBERT D STRAWN AND JAMMY J STRAWN	TH EXPLORATION LLC	1/8*	942 21	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17542	5-23-5	AA	JEFFREY G HAZEL AND SHEILA M HAZEL	TH EXPLORATION LLC	1/8*	942 12	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17543	5-23-5	AA	CARL EDWARD MCCOY AND CAROLYN SUE MCCOY	TH EXPLORATION LLC	1/8*	942 15	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17544	5-23-5	AA	DEBORAH LYNN SCHWING	TH EXPLORATION LLC	1/8*	942 377	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17545	5-23-5	AA	LINDA SWOPE	TH EXPLORATION LLC	1/8*	942 24	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17546	5-23-5	AA	SAMUEL EARL FRANCIS AND ALICE L FRANCIS	TH EXPLORATION LLC	1/8*	942 374	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17593	5-23-5	AA	REBECCA HAGERTY	TH EXPLORATION LLC	1/8*	942 350	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17594	5-23-5	AA	MEGAN HAGERTY	TH EXPLORATION LLC	1/8*	942 362	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17595	5-23-5	AA	THOMAS E RINE AND MARY P RINE	TH EXPLORATION LLC	1/8*	929 572	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17640	5-23-5	AA	PATRICIA A GARCAR	TH EXPLORATION LLC	1/8*	942 8	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17679	5-23-5	AA	NORMA J ASH POA SHARON HORNUNG	TH EXPLORATION LLC	1/8*	944 130	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17680	5-23-5	AA	DAVID F CHURCH	TH EXPLORATION LLC	1/8*	932 424	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17681	5-23-5	AA	WALTER F LOSEY AND CINDY L LOSEY	TH EXPLORATION LLC	1/8*	942 338	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17682	5-23-5	AA	MARY K GARLOCH	TH EXPLORATION LLC	1/8*	935 68	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17683	5-23-5	AA	PATRICK HAGERTY AND DALANE HAGERTY	TH EXPLORATION LLC	1/8*	942 358	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17684	5-23-5	AA	DAVID MCCOY AND LORI MCCOY	TH EXPLORATION LLC	1/8*	942 18	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17715	5-23-5	AA	ROBERT A SANDS AND JOYCE A SANDS	TH EXPLORATION LLC	1/8*	942 354	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17719	5-23-5	AA	ROBERT R BARRON	TH EXPLORATION LLC	1/8*	942 380	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17720	5-23-5	AA	WILLIAM KOTSON AND DEBRA KOTSON	TH EXPLORATION LLC	1/8*	938 507	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17775	5-23-5	AA	HAROLD H HAGERTY AND DEBORAH M HAGERTY	TH EXPLORATION LLC	1/8*	942 370	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17776	5-23-5	AA	JAMES GARCAR AND MELISSA GARCAR	TH EXPLORATION LLC	1/8*	941 627	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17824	5-23-5	AA	SARA FULTON	TH EXPLORATION LLC	1/8*	947 384	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17901	5-23-5	AA	ROBYN HAGERTY	TH EXPLORATION LLC	1/8*	924 602	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17965	5-23-5	AA	ROBERT DAVID BARNES AND RHONDA BARNES	TH EXPLORATION LLC	1/8*	942 366	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18042	5-23-5	AA	JOSEPH J ONORE	TH EXPLORATION LLC	1/8*	927 101	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18043	5-23-5	AA	JAMES M ONORE AND CINDY L ONORE	TH EXPLORATION LLC	1/8*	927 105	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18044	5-23-5	AA	TRACY ESTEL	TH EXPLORATION LLC	1/8*	927 109	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18176	5-23-5	AA	CRYSTAL M HOOKER AND JAMES HODKER	TH EXPLORATION LLC	1/8*	929 568	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18329	5-23-5	AA	COLLEEN HAGERTY	TH EXPLORATION LLC	1/8*	929 560	NA	NA	NA	NA	NA	NA	NA	NA	NA

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10*18367	5-23-5	AA	WALTER E SCHUBERT AND BARBARA A SCHUBERT	TH EXPLORATION LLC	1/8+	931 377	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18368	5-23-5	AA	ROBERTA K MILLER	TH EXPLORATION LLC	1/8+	931 457	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18371	5-23-5	AA	HERMAN D FSTEL	TH EXPLORATION LLC	1/8+	931 461	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18386	5-23-5	AA	JOSEPH K RINE AND JENNIFER M RINE	TH EXPLORATION LLC	1/8+	931 492	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18598	5-23-5	AA	MARK E GUSTEY	TH EXPLORATION LLC	1/8+	935 57	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18795	5-23-5	AA	GASTON FAMILY INVESTMENTS LLC	TH EXPLORATION LLC	1/8+	959 502	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18994	5-23-5	AA	SHIRLEY ANN DRASKI	TH EXPLORATION LLC	1/8+	940 137	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19656	5-23-5	AA	DEBRA ROUDEBUSH	TH EXPLORATION LLC	1/8+	944 105	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19736	5-23-5	AA	DOROTHY HLINKA DUKE	TH EXPLORATION LLC	1/8+	944 571	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19999	5-23-5	AA	MELISSA ANN BRAUN AND RAY BRAUN RANDALL C ROGERSON & TRACY LYNN ROGERSON	TH EXPLORATION LLC	1/8+	951 627	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21084	5-23-5	AA	ROGERSON	TH EXPLORATION LLC	1/8+	949 368	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21217	5-23-5	AA	KEITH JAY FISCHER AND DAWN M FISCHER	TH EXPLORATION LLC	1/8+	952 643	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21222	5-23-5	AA	PATRICIA J SHAW KELLER	TH EXPLORATION LLC	1/8+	946 43	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21425	5-23-5	AA	DMU ORIE N YOUNG AND BERNIE A YOUNG FRANCIS R SMITH BY POA HUSTON A SMITH & ANNA M SMITH	TH EXPLORATION LLC	1/8+	957 29	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21428	5-23-5	AA	CATHERINE HUMMEL	TH EXPLORATION LLC	1/8+	957 33	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21434	5-23-5	AA	RICHARD RICH AND KAREN RICH	TH EXPLORATION LLC	1/8+	954 254	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21451	5-23-5	AA	KIMBERLY COX	TH EXPLORATION LLC	1/8+	954 262	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21452	5-23-5	AA	WARREN L COULTER AND ROSLINA A COULTER	TH EXPLORATION LLC	1/8+	954 249	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21457	5-23-5	AA	HUSTON A SMITH JR AND ANN C SMITH	TH EXPLORATION LLC	1/8+	957 45	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21458	5-23-5	AA	JAMES L CHURCH	TH EXPLORATION LLC	1/8+	957 41	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21459	5-23-5	AA	MABEL SHILLINGBURG AND CLIFFORD SHILLINGBURG	TH EXPLORATION LLC	1/8+	954 258	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21498	5-23-5	AA	MATTHEW COULTER AND SIMONE COULTER	TH EXPLORATION LLC	1/8+	954 245	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23500	5-23-5	AA	EUGENIA E HOUSER	TH EXPLORATION LLC	1/8+	954 241	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21501	5-23-5	AA	DFBRA MURIN	TH EXPLORATION LLC	1/8+	954 237	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21502	5-23-5	AA	DARLENE M DAVIS	TH EXPLORATION LLC	1/8+	954 233	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21503	5-23-5	AA	MARY ETIA TAYLOR AND GARY W TAYLOR	TH EXPLORATION LLC	1/8+	958 414	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21562	5-23-5	AA	DAVID R TAYLOR AND MARLA TAYLOR	TH EXPLORATION LLC	1/8+	958 422	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21563	5-23-5	AA	KORINE SUE LANTZ	TH EXPLORATION LLC	1/8+	957 462	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21565	5-23-5	AA	HERBERT M TAYLOR AND LENORA I TAYLOR	TH EXPLORATION LLC	1/8+	958 418	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21566	5-23-5	AA	GARY PARSONS AND JOANN J PARSONS CLARENCE RANDALL EMERY AND PAULA LAN EMERY	TH EXPLORATION LLC	1/8+	959 347	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21615	5-23-5	AA	EMERY	TH EXPLORATION LLC	1/8+	958 344	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21626	5-23-5	AA	JOHN ARLES EMERY	TH EXPLORATION LLC	1/8+	958 339	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21632	5-23-5	AA	STANLEY GUSTEY	TH EXPLORATION LLC	1/8+	965 206	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21655	5-23-5	AA	JOHN OBOY AND JANET I OBOY	TH EXPLORATION LLC	1/8+	959 331	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21856	5-23-5	AA	RONALD J SALKOVICK II & SANDRA SALKOVICK	TH EXPLORATION LLC	1/8+	958 373	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21657	5-23-5	AA	JOYCE KAY BURTON AND SAMUEL C BURTON	TH EXPLORATION LLC	1/8+	957 467	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21774	5-23-5	AA	STUART WHITE AND BETTY WHITE	TH EXPLORATION LLC	1/8+	958 352	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21813	5-23-5	AA	JAMES WAI EMERY AND RENEE R EMERY	TH EXPLORATION LLC	1/8+	958 348	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21815	5-23-5	AA	CINDY GREEN AND LARRY GREEN	TH EXPLORATION LLC	1/8+	958 356	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21816	5-23-5	AA	MARY LOU HLINKA AND RICHARD G HLINKA SR	TH EXPLORATION LLC	1/8+	959 514	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21817	5-23-5	AA	MARY CATHERINE THOMS OTT	TH EXPLORATION LLC	1/8+	958 360	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21819	5-23-5	AA	MAKION DAVID OTT & JANICE L OTT	TH EXPLORATION LLC	1/8+	959 506	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21820	5-23-5	AA	MARQUITA GYLBURN	TH EXPLORATION LLC	1/8+	959 510	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21837	5-23-5	AA	BARBARA H COAKLEY	TH EXPLORATION LLC	1/8+	960 66	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21948	5-23-5	AA	ROBIN ADAIR GUMP AND LOUIS M GUMP	TH EXPLORATION LLC	1/8+	960 70	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21949	5-23-5	AA	JUDITH A TAYLOR	TH EXPLORATION LLC	1/8+	960 74	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21950	5-23-5	AA	CHARLES DOUGLAS LANE	TH EXPLORATION LLC	1/8+	960 77	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21951	5-23-5	AA	MELISSA L DARROW	TH EXPLORATION LLC	1/8+	954 328	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*21994	5-23-5	AA	CHARLES J KNOX	TH EXPLORATION LLC	1/8+	966 112	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22013	5-23-5	AA	SHERMAN E KNOX JR	TH EXPLORATION LLC	1/8+	966 108	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22014	5-23-5	AA	KATHLEEN ROBERTSON	TH EXPLORATION LLC	1/8+	960 539	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22018	5-23-5	AA	KEVIN D CHURCH	TH EXPLORATION LLC	1/8+	957 49	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22026	5-23-5	AA	STEPH N C EMERY AND CATHY J EMERY	TH EXPLORATION LLC	1/8+	954 310	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22027	5-23-5	AA	TODD LEARN AND KENDA LEARN	TH EXPLORATION LLC	1/8+	954 314	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22093	5-23-5	AA	BONNIE LOU GRUBER	TH EXPLORATION LLC	1/8+	954 302	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22107	5-23-5	AA	BETTY PYSLE	TH EXPLORATION LLC	1/8+	961 433	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22142	5-23-5	AA	CHERYL L HILL	TH EXPLORATION LLC	1/8+	961 423	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22143	5-23-5	AA	WANDA J RIDING AND GERALD R RIDING	TH EXPLORATION LLC	1/8+	961 426	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22144	5-23-5	AA	VICKY STRAUSS AND DENNIS A STRAUSS	TH EXPLORATION LLC	1/8+	961 429	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22145	5-23-5	AA	DEBRA L YSESKI AND GERALD A YSESKI ANGELA HENTHORN AND WILLIAM R HENTHORN	TH EXPLORATION LLC	1/8+	954 306	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22178	5-23-5	AA	HENTHORN	TH EXPLORATION LLC	1/8+	972 58	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22287	5-23-5	AA	MESSY JONES AND MICHAEL JONES	TH EXPLORATION LLC	1/8+	962 195	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22332	5-23-5	AA	DORIS WEST AND ROBERT WEST	TH EXPLORATION LLC	1/8+	962 542	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22339	5-23-5	AA	BETTY EEE HOWARD LOY	TH EXPLORATION LLC	1/8+	963 392	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22354	5-23-5	AA	LORITTA M DOUGHERTY AND DAVID DOUGHERTY	TH EXPLORATION LLC	1/8+	964 516	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22436	5-23-5	AA	TESSIAN FAMILY REVOCABLE LIVING TRUST	TH EXPLORATION LLC	1/8+	963 626	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lease ID	IMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*22427	5-23-5	AA	SHERRY L IMRIE AND DANIEL IMRIE JR	TH EXPLORATION LLC	1/8+	963 631	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22440	5-23-5	AA	EUGENE FANKHAUSER	TH EXPLORATION LLC	1/8+	963 153	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22443	5-23-5	AA	GATHA CHAMBERS	TH EXPLORATION LLC	1/8+	963 622	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22450	5-23-5	AA	JUDY ANN MERCER	TH EXPLORATION LLC	1/8+	963 634	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22503	5-23-5	AA	KENNETH R SHAW AND DONNA K SHAW	TH EXPLORATION LLC	1/8+	966 518	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22504	5-23-5	AA	MELVIN FANKHAUSER	TH EXPLORATION LLC	1/8+	974 351	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22505	5-23-5	AA	JAMES D DRAKE AND DONNA K DRAKE	TH EXPLORATION LLC	1/8+	964 425	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22509	5-23-5	AA	RANDY BERISFORD AND LINDA JO BERISFORD	TH EXPLORATION LLC	1/8+	964 429	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22560	5-23-5	AA	RONALD JOE KELLER	TH EXPLORATION LLC	1/8+	965 485	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22592	5-23-5	AA	RUSSELL W ROGERSON AND SUSAN ROGERSON	TH EXPLORATION LLC	1/8+	966 119	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22593	5-23-5	AA	RONALD E ROGERSON	TH EXPLORATION LLC	1/8+	966 116	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22594	5-23-5	AA	JAMES A WADE SR	TH EXPLORATION LLC	1/8+	965 481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22609	5-23-5	AA	KATHY JO CULLUM	TH EXPLORATION LLC	1/8+	966 514	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22613	5-23-5	AA	JIMMY I CAMPBELL	TH EXPLORATION LLC	1/8+	966 510	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22644	5-23-5	AA	RICHARD EUGENE KELLER	TH EXPLORATION LLC	1/8+	968 214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22779	5-23-5	AA	STEVEN WADK	TH EXPLORATION LLC	1/8+	968 424	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22809	5-23-5	AA	MARGARET C MCMURRY & WILLIAM F MCMURRY	TH EXPLORATION LLC	1/8+	972 54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22811	5-23-5	AA	ROBERT E ROGERSON	TH EXPLORATION LLC	1/8+	972 54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22812	5-23-5	AA	JOSEPH I GOBLOWSKY	TH EXPLORATION LLC	1/8+	968 478	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*22861	5-23-5	AA	LAURINE C CURTIS & EDGAR A CURTIS III	TH EXPLORATION LLC	1/8+	976 147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23166	5-23-5	AA	JAMES DAVID CRANDALL	TH EXPLORATION LLC	1/8+	984 46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23168	5-23-5	AA	JASON WADE	TH EXPLORATION LLC	1/8+	966 506	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23368	5-23-5	AA	ROSE MARIE CAMPBELL	TH EXPLORATION LLC	1/8+	988 447	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23369	5-23-5	AA	STEFANIE CIRILLI AND MATTHEW CIRILLI	TH EXPLORATION LLC	1/8+	988 451	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23370	5-23-5	AA	DEMVER J TAYLOR	TH EXPLORATION LLC	1/8+	988 454	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23371	5-23-5	AA	JONNA MARPLE AND ERIC MARPLE	TH EXPLORATION LLC	1/8+	988 442	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23398	5-23-5	AA	JON GUSTELY AND MARIYNN NIE	TH EXPLORATION LLC	1/8+	1008 12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23410	5-23-5	AA	JENNA WADE	TH EXPLORATION LLC	1/8+	1008 16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23478	5-23-5	AA	DAVID L SNYDER POA JILL BEVERIDGE	TH EXPLORATION LLC	1/8+	1008 313	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23444	5-23-5	AA	JENNIFER CUCHTA AND KEVIN CUCHTA	TH EXPLORATION LLC	1/8+	1008 310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23505	5-23-5	AA	HINEE KELLAR	TH EXPLORATION LLC	1/8+	971 633	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23647	5-23-5	AA	MARILYN M ROBINSON	TH EXPLORATION LLC	1/8+	1009 309	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23648	5-23-5	AA	PAUL D RINE JR	TH EXPLORATION LLC	1/8+	1009 313	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23672	5-23-5	AA	CHAD FRANCIS AND LISA FRANCIS	TH EXPLORATION LLC	1/8+	1010 356	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23727	5-23-5	AA	LISA TUCKER AND FRANCIS TUCKER	TH EXPLORATION LLC	1/8+	1011 525	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23756	5-23-5	AA	KAREN DRAKE AND JEFF DRAKE	TH EXPLORATION LLC	1/8+	1012 182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23757	5-23-5	AA	DAVID DRAKE	TH EXPLORATION LLC	1/8+	1012 187	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23767	5-23-5	AA	MARK ALAN SLAEM	TH EXPLORATION LLC	1/8+	1014 481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23771	5-23-5	AA	ROBIN ROSE	TH EXPLORATION LLC	1/8+	1014 485	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23792	5-23-5	AA	STEVEN W SLATEN AND RIONDA SLATEN	TH EXPLORATION LLC	1/8+	1014 488	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23793	5-23-5	AA	ELIZABETH BENNETT AND DONNIE BENNETT	TH EXPLORATION LLC	1/8+	1014 492	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23794	5-23-5	AA	PATTY JEAN LANTZ	TH EXPLORATION LLC	1/8+	1014 495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23826	5-23-5	AA	NANCY C DWYER AND WENDEL MARTINKOVIC	TH EXPLORATION LLC	1/8+	1017 6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23838	5-23-5	AA	RONALD DEAN YOHO & VICTORIA LYNN YOHO	TH EXPLORATION LLC	1/8+	1017 7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*23883	5-23-5	AA	VICKI WILLIAMS	TH EXPLORATION LLC	1/8+	1016 644	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24274	5-23-5	AA	JO ELLEN GUSTELY	TH EXPLORATION LLC	1/8+	1023 527	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24483	5-23-5	AA	SUSAN ALFRED AND KEVIN J ALFRED	TH EXPLORATION LLC	1/8+	1025 401	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24551	5-23-5	AA	LEONARD LEE COULTER AND DEBRA A COULTER	TH EXPLORATION LLC	1/8+	1025 405	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24751	5-23-5	AA	WILLIAM D TAYLOR AND KIM TAYLOR	TH EXPLORATION LLC	1/8+	1027 315	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24757	5-23-5	AA	PATTI KENNEDY	TH EXPLORATION LLC	1/8+	1027 312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24860	5-23-5	AA	DORA TAYLOR	TH EXPLORATION LLC	1/8+	1028 92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24868	5-23-5	AA	ANNE DWYER	TH EXPLORATION LLC	1/8+	1028 95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*24917	5-23-5	AA	WALTER W STREIGHT JR AND CONNIE JO STREIGHT	TH EXPLORATION LLC	1/8+	1027 781	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*25268	5-23-5	AA	ROBERT LEE MARCIANO AKA ROBERT LEE MAYER	TH EXPLORATION LLC	1/8+	1030 416	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*25269	5-23-5	AA	RAYMOND GUSTELY JR	TH EXPLORATION LLC	1/8+	1030 373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*25462	5-23-5	AA	JERRY HUGGINS ET AL	TH EXPLORATION LLC	1/8+	1030 368	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*27715	5-23-5	AA	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1057 332	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*27959	5-23-5	AA	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1063 594	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*30043	5-23-5	AA	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1098 366	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*30400	5-23-5	AA	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1106 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*17186	5-23-6	BB	ROBERT J HENRY	CHH SAPIANE APPALACHIA LLC	1/8+	708 51	NA	NA	NA	29/325 Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc	33/110 Chesapeake Appalachia LLC to SWN Production Company LLC	33/474 Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC	19/674 SWN Exchange Titleholder LLC and SWN Production Company LLC merger	41/238 Statoil USA Onshore Properties Inc to TH Exploration LLC	41/256 SWN Production Company LLC to TH Exploration LLC		

4705102427
02/10/2023



December 21, 2022

WV Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304
Attention: Susan Rose

RE: McMasters S-18HU

Subject: Proposed Voluntary Pooling and Unitization

Dear Susan:

Tug Hill Operating, LLC is authorized through, either lease or other agreement, to unitize and pool all lands falling within the boundaries of the proposed voluntary unit included with this submission.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111, or by email at amorris@tug-hillop.com.

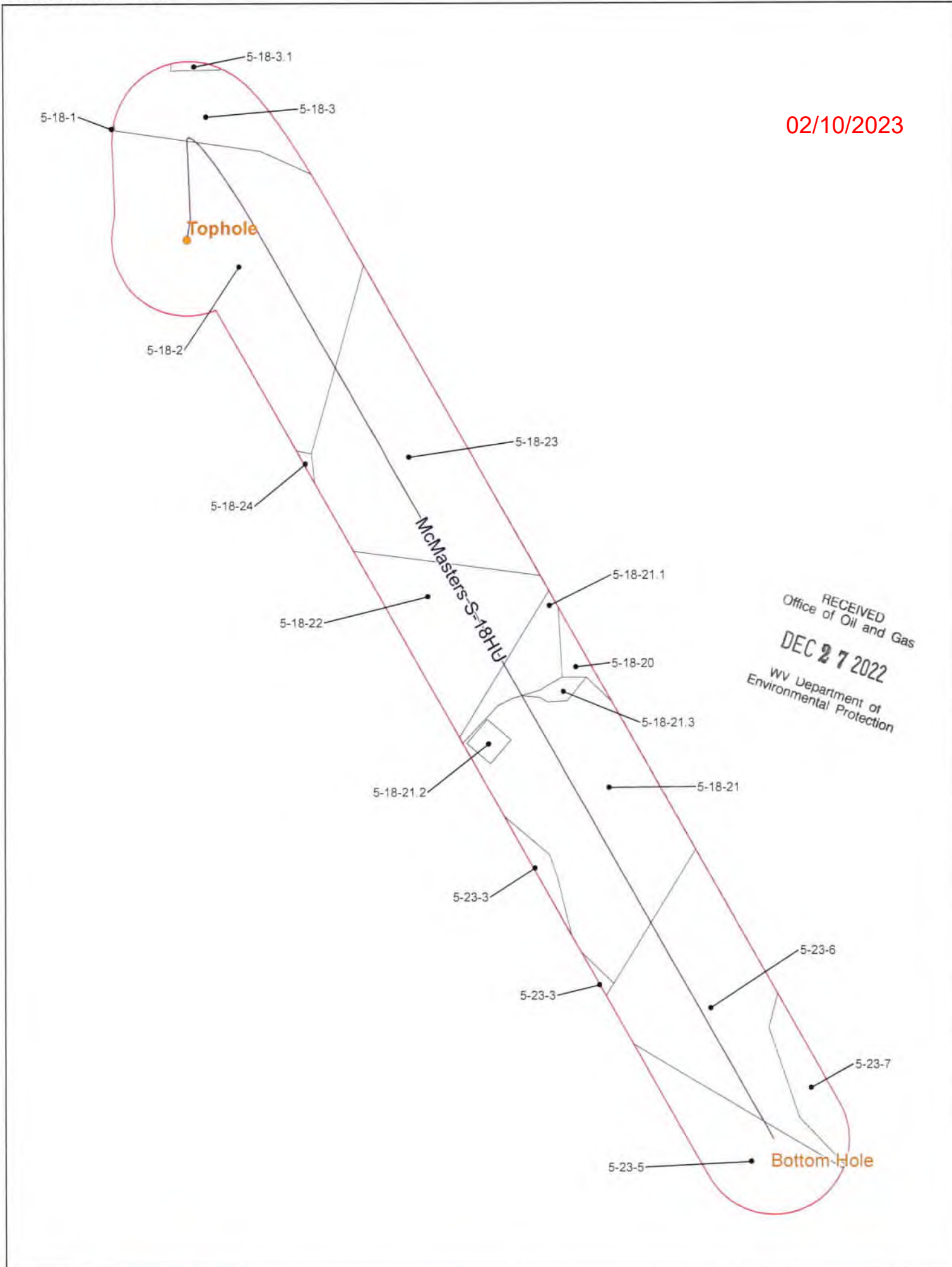
Sincerely,

Amy L. Morris
Permitting Specialist – Appalachia Region
Tug Hill Operating

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Environmental Protection

McMasters S-18HU

02/10/2023



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WV Department of
Environmental Protection

Document Number: 0001-1002-170-000-170
 Project: Tug Hill Operator
 Issue: 10/01/2022
 File Path: 10/01/2022
 Date Modified: 01/03/23
 Scale Factor: 1.0000
 Latitude Offset: 0.0000
 Units: Feet U.S.

CONFIDENTIAL



- Utica Well
- 500' Buffer
- Force Pool

McMasters S-18HU
Operators within 500 Feet of Well Borehole



Operator's Offset within 500' McMasters S - 18HU				
COUNTY	DISTRICT	TMP	OWNER	ADDRESS
Marshall	Franklin	5-18-1	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-1	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-2	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-3	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-3	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-3.1	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-3.1	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-20	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-20	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-21	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-21.1	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-21.2	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-21.3	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-22	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-23	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-18-24	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107

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DEC 27 2022
WV Department of Environmental Protection

02/10/2023

COUNTY	DISTRICT	TMP	OWNER	ADDRESS
Marshall	Franklin	5-23-3	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-23-5	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-23-5	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-23-6	TH EXPLORATION, LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-23-7	TH EXPLORATION II, LLC*	1320 S. University Drive Suite 500 Fort Worth, TX 76107

* TH Exploration II, LLC is a wholly owned subsidiary of THQ Appalachia I, LLC. Tug Hill Operating, LLC provides oil and gas operations services to THQ Appalachia I, LLC under that certain Operating Services Agreement dated July 23, 2014. For further info please see the recorded affidavit submitted as part of the permit package.

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WV Department of
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4720102427

COPY

CERTIFICATE OF CONSENT AND EASEMENT

The undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being the owner of the surface of that certain lot, tract or parcel of land located in Franklin District, Marshall County, State of West Virginia, shown on the attached plat or survey, hereby consents and grants an easement, pursuant to West Virginia Code, Section 22C-9-7(b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to TH Exploration, LLC, its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

Executed this 20th day of November, 2019.

Donald Shields
Donald Shields

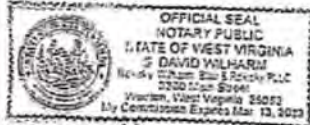
Marshall County
Jan Pest, Clerk
Instrument 1463768
01/29/2020 @ 10:38:16 AM
RIGHT OF WAY W/O CONSIDERATION
Book 1072 @ Page 254
Pages Recorded 2
Recording Cost \$ 11.00

STATE OF WEST VIRGINIA
COUNTY OF MARSHALL

SS:

On this, the 20th day of November, 2019, before me, a notary public, the undersigned officer, personally appeared Donald Shields known to me (or satisfactorily proven) to be the person(s) who's name is subscribed to the within instrument, and acknowledged that he/she/they executed the same for proposed therein contained.

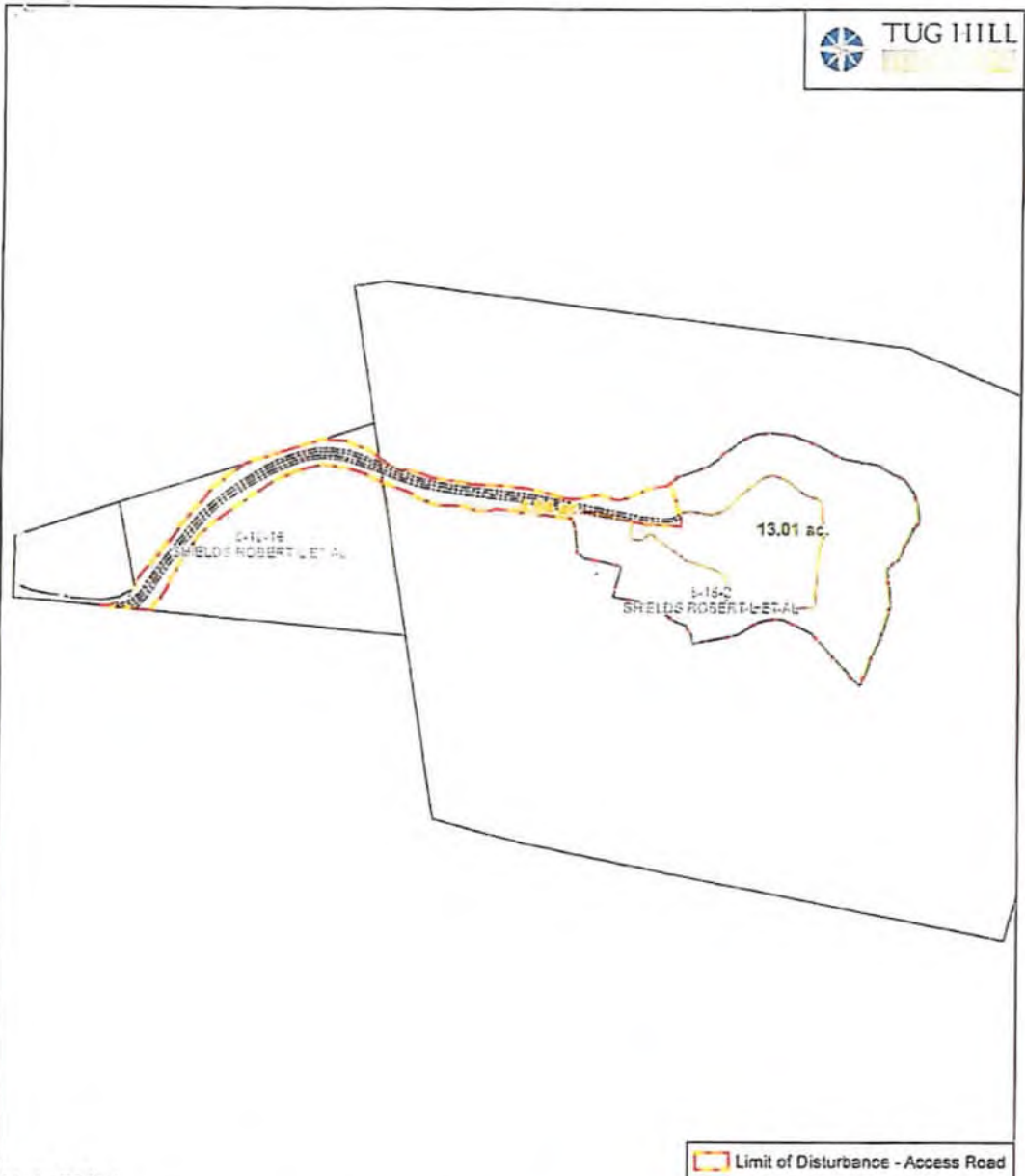
IN WITNESS WHEREOF, I hereunto set my hand and official seal.



My Commission Expires: 3/13/2023
Signature/Notary Public: S David Wilborn
Name/Notary Public (print): S David Wilborn

This instrument prepared by:
WV Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304

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Environmental Protection



1 inch: 435 feet

- Limit of Disturbance - Access Road
- Limit of Disturbance - Pad

0 125 250 500
Feet

N

THIS PLAN IS A PRELIMINARY PLAN AND IS NOT TO BE USED FOR CONSTRUCTION OR AS EVIDENCE OF TITLE. IT IS THE RESPONSIBILITY OF THE CLIENT TO OBTAIN ALL NECESSARY PERMITS AND TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED. THE ENGINEER ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS PLAN.

"Plat"
SHIELDS ROBERT L ET AL
Marshall, WV

Date: Nov 20 2019
Name: Daniel D. [Signature]
Name: _____



Draw: 12/24/2019
PCC: 10/20/2019 UTM Zone 18N East LG

4706102407

COPY

CERTIFICATE OF CONSENT AND EASEMENT

The undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being the owner of the surface of that certain lot, tract or parcel of land located in Franklin District, Marshall County, State of West Virginia, shown on the attached plat or survey, hereby consents and grants an easement, pursuant to West Virginia Code, Section 22C-9-7(b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to TII Exploration, LLC, its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

Executed this 20th day of November, 2019.

Robert L. Shields
Robert L. Shields
Rebecca A. Shields
Rebecca A. Shields

Marshall County
Jan Pest, Clerk
Instrument 1463767
01/29/2020 @ 10:38:15 AM
RIGHT OF WAY W/O CONSIDERATION
Book 1072 @ Page 252
Pages Recorded 2
Recording Cost \$ 11.00

STATE OF WEST VIRGINIA
COUNTY OF MARSHALL

SS:

On this, the 20th day of November, 2019, before me, a notary public, the undersigned officer, personally appeared Robert L. Shields and Rebecca A. Shields known to me (or satisfactorily proven) to be the person(s) who's name is subscribed to the within instrument, and acknowledged that he/she/they executed the same for proposed therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.



My Commission Expires: 3/13/2023
Signature/Notary Public: [Signature]
Name/Notary Public (print): David Wilkerson

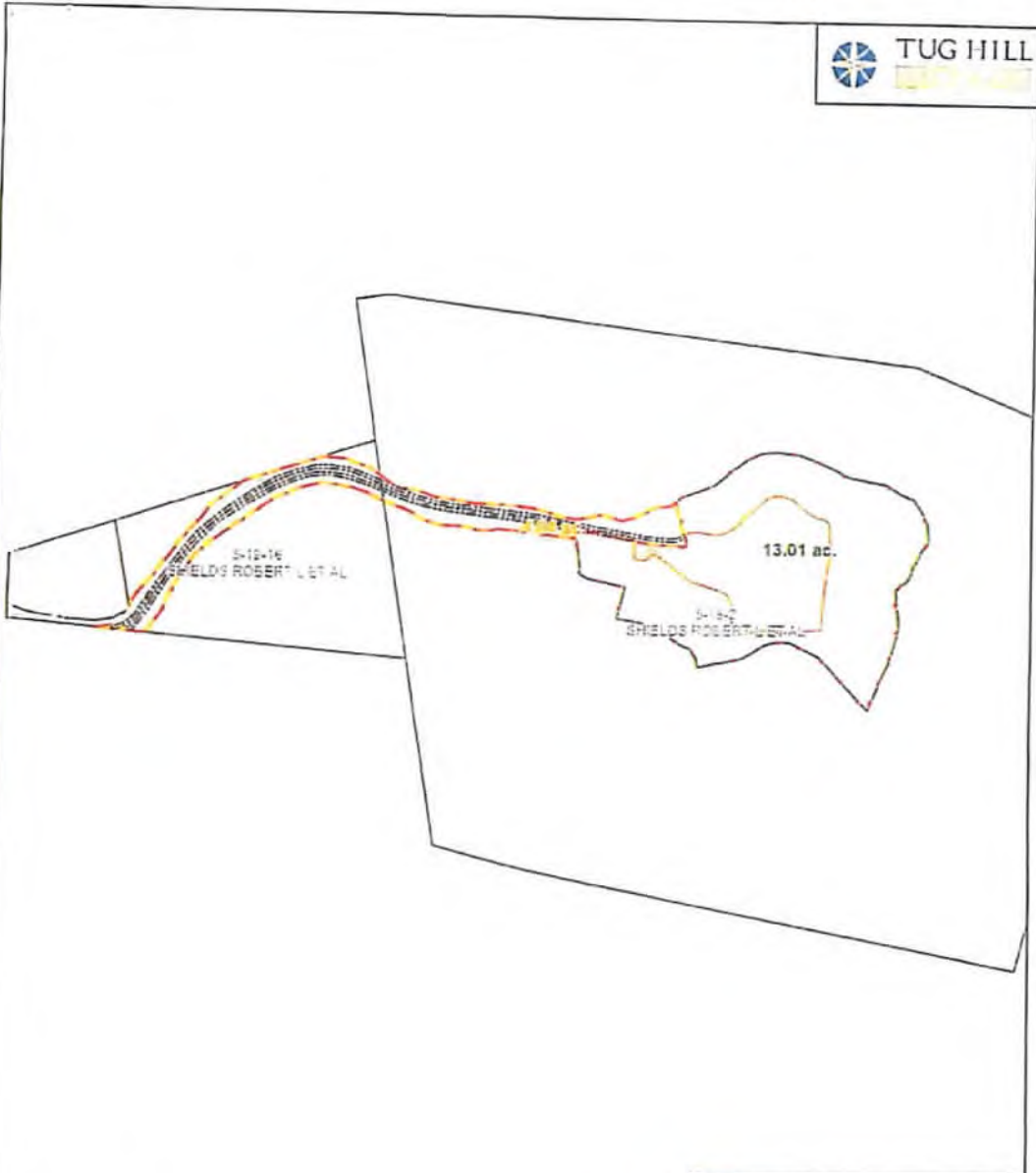
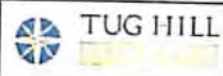
This instrument prepared by:
WV Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304

4838-2618-8605v2

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WV Department of
Environmental Protection

02/10/2023

4703102407



1 inch: 435 feet

- Limit of Disturbance - Access Road
- Limit of Disturbance - Pad

0 125 250 500
Feet

N

THIS DOCUMENT IS A PRELIMINARY PLAT AND IS NOT TO BE USED FOR ANY PURPOSES WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER HAS NOT CONDUCTED A SURVEY OF THE PROPERTY AND HAS NOT BEEN ADVISED OF ANY CHANGES TO THE PROPERTY SINCE THE SURVEY WAS CONDUCTED. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY HIMSELF OR HIS FIRM. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY HIMSELF OR HIS FIRM. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

"Plat"
SHIELDS ROBERT L ET AL
Marshall, WV

Date: 11/20/19
Name: *Robert L. Shields*
Name: *Robert L. Shields*



2019 10/04/2019
PCC 530 1531 U112 2019 171 Fee US

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STATE OF WEST VIRGINIA §
 §
COUNTY OF MARSHALL §

17 0 3 1 0 2 1 0 7

ASSIGNMENT, BILL OF SALE AND CONVEYANCE

THIS ASSIGNMENT, BILL OF SALE AND CONVEYANCE (this "*Assignment*"), dated effective as of 7:00 A.M., local time, where the respective Assets are located, on July 1, 2020 (the "*Effective Time*"), is between **Atinum Marcellus I, LLC**, a Delaware limited liability company ("*Assignor*"), whose mailing address is One Riverway, Suite 710, Houston, TX 77056-1988, and **TH Exploration II, LLC**, a Texas limited liability company, whose mailing address is 1320 S. University Drive, Suite 500, Fort Worth, Texas 76107 ("*Assignee*"). Assignor and Assignee are each, individually, referred to herein as a "*Party*" and, collectively, as the "*Parties*."

Capitalized terms used but not defined herein shall have the respective meanings set forth in that certain Asset Purchase Agreement dated as of November 13, 2020, by and among Assignor and Assignee (the "*Purchase Agreement*").

Section 1. Assignment. The conveyance and assignment herein shall be deemed effective as of the Effective Time.

For Ten Dollars (\$10.00) and other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged), Assignor does hereby forever GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER AND DELIVER unto Assignee, and Assignee does hereby acquire, the undivided interests in the Leases (as defined below) set forth on Exhibit A-1, and all other of Assignor's right, title and interest in and to the interests and properties described in subsections (a) through (k) of this Section 1 (without duplication) (such right, title and interest, less and except the Excluded Assets, collectively the "*Assets*");

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(a) The oil and gas leases, mineral leases and Royalties located in the Covered Counties (which Covered Counties include, for the avoidance of doubt, the county in which this Assignment is filed of record), including those described on Exhibit A-1 together with any and all other right, title and interest in and to the leasehold estates created thereby, subject to the terms, conditions, covenants and obligations set forth in such leases or other instrument creating such rights or interests or on Exhibit A-1 (such leases, Royalties, and mineral interests, collectively, the "*Leases*"), together with any related interest in the lands covered by the Leases or lands unitized, pooled, communitized or consolidated therewith (the "*Lands*");

(b) All of the oil and/or gas wells identified on Exhibit A-2 hereto (the "*Wells*"), and any other oil, gas, or other wells located on any of the Leases or the Lands, in each case, whether producing, non-producing, shut-in, temporarily or permanently abandoned or otherwise;

(c) All rights, titles and interests arising under any unitization, pooling and/or communitization agreements, declarations or designations for drilling, spacing and/or production units related to any of the Leases, Wells or Lands, including the units described on Exhibit A-4;

47 03 02 307

ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "Assignment") is from SWN PRODUCTION COMPANY, LLC, a Texas limited liability company ("Assignor"), to TH Exploration, LLC, a Texas limited liability company ("Assignee"), and is executed on December 18, 2017 (the "Effective Date"). Assignor and Assignee may be referred to herein collectively as the "Parties," or individually as a "Party." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated August 24, 2017 (the "Acreage Trade Agreement").

**ARTICLE 1
ASSIGNMENT OF ASSETS**

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "Leases") INsofar AND ONLY INsofar as they cover those lands described on Exhibit A (the "Leasehold Rights") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "Conveyed Assets").

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.2 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

**ARTICLE 2
SPECIAL WARRANTY OF TITLE AND DISCLAIMERS**

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR

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Environmental Protection



TUG HILL

4705102437
02/10/2023

December 21, 2022

WV Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304
Attention: Charles T. Brewer

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RE: McMasters S-18HU

Subject: Marshall County Route 29/1 Road Crossing Letter

Dear Taylor:

Tug Hill Operating, LLC (THO) hereby submits this letter as confirmation that THO has obtained the right to drill, extract and produce the minerals under Marshall County Route 29/1 in the area reflected on the McMasters S-18HU well plat. THO has conducted a full title search in the relevant Court House to confirm its ownership under said County Routes and is not currently aware of any recorded document that would suggest an ownership other than THO.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111, or by email at amorris@tug-hilop.com.

Sincerely,

Amy Morris
Permit Specialist – Appalachia Region
Cell 304-376-0111
Email: amiller@tug-hilop.com

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 12/21/2022

API No. 47- 051 -

Operator's Well No. McMasters S-18HU

Well Pad Name: Shields

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Eastings: <u>518,204.59</u>
County: <u>Marshall</u>		Northing: <u>4,401,175.23</u>
District: <u>Franklin</u>	Public Road Access: <u>Burch Ridge Road (CR 29)</u>	
Quadrangle: <u>Powhatan Point 7.5'</u>	Generally used farm name: <u>Robert L. Shields, et al</u>	
Watershed: <u>Lower Fish Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="text-align: center;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) RECEIVED Office of Oil and Gas</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

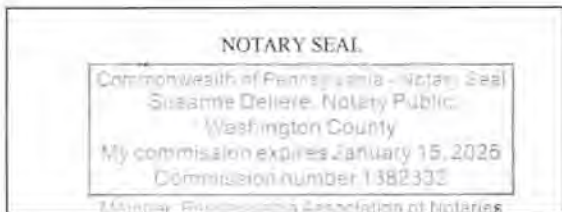
4783102927

Certification of Notice is hereby given:

THEREFORE, I Amy L. Morris, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Tug Hill Operating, LLC
By: Amy L. Morris *Amy L. Morris*
Its: Permitting Specialist - Appalachia Region
Telephone: 724-749-8388

Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15317
Facsimile: 724-338-2030
Email: amorris@tug-hillop.com



Subscribed and sworn before me this 21st day of December 2022
Susanne Deliere Notary Public
My Commission Expires 1/15/2025

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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02/10/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12/20/2022 Date Permit Application Filed: 12/21/2022

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: Donald Shields (Pad and Access Road) ✓
Address: 231 Lonesome Ln.
Proctor, WV 26055

Name: Robert and Rebecca Shields (Pad and Access Road) ✓
Address: 2756 Burch Ridge Road
Proctor, WV 26055

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Mark A. Yoho ✓
Address: 6701 Burch Ridge Road
Proctor, WV 26055

Name: Mark E. Yoho ✓
Address: 3998 Burch Ridge Road
Proctor, WV 26055

SURFACE OWNER(s) (Impoundments or Pits)
Name: n/a
Address: _____

COAL OWNER OR LESSEE

Name: CONSOL Energy ✓
Address: 1000 Consol Drive
Canonsburg, PA 15317

COAL OPERATOR

Name: CONSOL Energy ✓
Address: 1000 Consol Drive
Canonsburg, PA 15317

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Nikki L. & Jonathan Stevens ✓
Address: 757 Weeping Willow Lane
Proctor, WV 26055

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: n/a
Address: _____

*Please attach additional forms if necessary

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WV Department of
Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2). Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A
(8-13)

4705102437
API NO. 47-051 - 02/10/2023
OPERATOR WELL NO. McMasters S-18HU
Well Pad Name: Shields

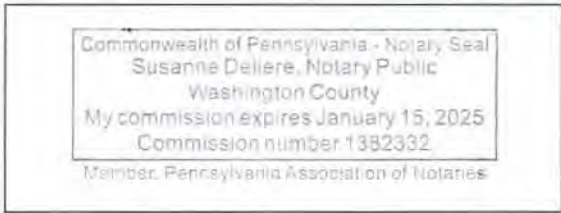
Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC
Telephone: 724-749-8388
Email: amorris@tug-hill-op.com *Emily Morris*

Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.



Subscribed and sworn before me this 14th day of December, 2022
Susanna Deliere Notary Public
My Commission Expires 1/15/2025

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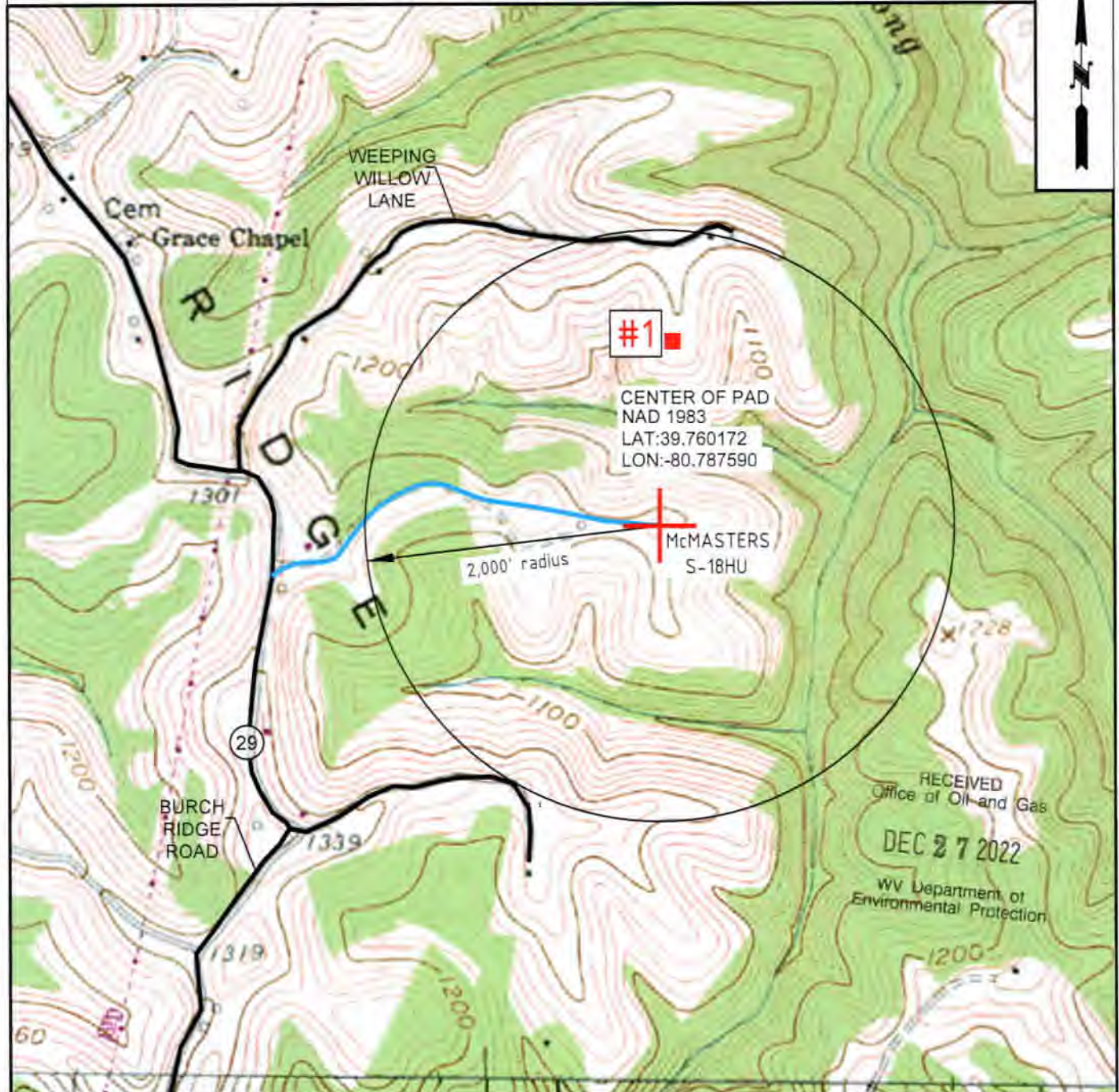
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PROPOSED McMASTERS S-18HU

SUPPLEMENT PG 1

There appears to be one (1) possible water source within 2,000'.



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OPERATOR	494510851	TOPO SECTION	LEASE NAME
TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		POWHATAN POINT 7.5'	McMASTERS
SCALE:		DATE:	
1" = 1000'		DATE: 6-4-2020	

WW-6A

Supplement Pg. 1A

Tug Hill Operating, LLC
380 Southpointe BLVD, Suite 200
Canonsburg, PA 15317

WATER WELL REPORT

Well: MCMASTERS S-18HU
District: Franklin
County: Marshall
State: WV

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There appears to be One (1) possible water source within 2,000 feet of the above referenced well location.

Topo Spot # 1 (House/Cabin) TM 5-18-3.1 Nikki L. & Jonathan Stevens 757 Weeping Willow Ln. Proctor, WV 26055 304-771-0630 © 740-255-3620 © 336-239-2605 ©		

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 11/14/2022 **Date Permit Application Filed:** 11/29/2022

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Donald Shields
Address: 231 Lanesome Ln.
Proctor, WV 26055

Name: Robert and Rebecca Shields
Address: 2756 Burch Ridge Road
Proctor, WV 26055

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Marshall
District: Franklin
Quadrangle: Powhatan Point 7.5'
Watershed: Lower Fish Creek

UTM NAD 83 Easting: 518,197.18
Northing: 4,401,163.66
Public Road Access: Burch Ridge Road (County Route 29)
Generally used farm name: Robert L. Shields, Et

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DEC 27 2022
WV Department of Environmental Protection

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC
Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15317
Telephone: 724-749-8388
Email: amorris@tug-hill.com
Facsimile: _____

Authorized Representative: Darran Brown
Address: 5098 Washington Street W, Suite 407
Charleston, WV 25313-1561
Telephone: 877-467-3525
Email: ct-statecommunications@wolterskluwer.com
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

02/10/2023

WW-6A4 Additional Parties to Notice

Mark A. Yoho
6701 Burch Ridge Road
Proctor, WV 26055

Mark E. Yoho
3998 Burch Ridge Road
Proctor, WV 26055

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 12/20/2022 **Date Permit Application Filed:** 12/21/2022

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Donald Shields
Address: 231 Lonesome Ln
Proctor, WV 26055

Name: Robert and Rebecca Shields
Address: 2756 Burch Ridge Road
Proctor, WV 26055

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Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>518,197.18</u>
County:	<u>Marshall</u>		Northing:	<u>4,401,183.66</u>
District:	<u>Franklin</u>	Public Road Access:	<u>Burch Ridge Road (CR 29)</u>	
Quadrangle:	<u>Pownatan Point 7.5'</u>	Generally used farm name:	<u>Robert L. Shields, et al</u>	
Watershed:	<u>Fish Creek (HUC 10)</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Tug Hill Operating, LLC
Telephone: 724-749-8388
Email: amorris@tug-hill-op.com

Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15317
Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

02/10/2023

ADDITIONAL PARTIES TO NOTICE

McMasters Pad

WW-6A5

Additional Surface Owner:

Mark A. Yoho
6701 Burch Ridge Road
Proctor, WV 26055

Mark E. Yoho
3998 Burch Ridge Road
Proctor, WV 26055

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02/10/2023



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

December 7, 2022

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Shields Pad, Marshall County
McMasters S-18HU Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0693 which has been issued to Tug Hill Operating for access to the State Road for a well site located off Marshall County Route 29 SLS MP 3.91.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

Gary K. Clayton, P.E.
Regional Operations Engineer
Central Office O&G Coordinator

Cc: Amy Morris
Tug Hill Operating
CH, OM, D-6
File

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TUG HILL

4703102407

PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Shields Well Pad

PRODUCT NAME:	CHEMICAL DESCRIPTION:	PRODUCT USE:	HAZARDOUS COMPONENT:
GBW-20C	Hemicellulase Breaker	Breaker - Water	None
ALPHA 1427		Biocide	Glutaraldehyde – CAS#000111-30-8 Quaternary ammonium chloride CAS# 007173-51-5 Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1 Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5
FRAC SAND	Silica Sand (various Mesh sizes)	Proppant	Crystalline silica (quartz) CAS# 14808-60-7
S-8C, Sand	Silica Sand (100 mesh)	Sand	Silica – CAS# 14808-60-7
GW-3LDF		Gellant - Water	Petroleum Distillate Blend – Proprietary, (Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0
FRW-18		Friction Reducer	Hydrotreated light distillate CAS# 064742-47-8
Scaletrol		Scale Inhibitor	Ethylene glycol – CAS# 000107-21-1 Diethylene glycol – CAS# 000111-46-6

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WV Department of
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OPERATOR: Tug Hill Operating, LLC

WELL NO: McMasters S-18HU

PAD NAME: Shields

REVIEWED BY: Amy L. Morris

SIGNATURE: *Amy L. Morris*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

DEP Waiver and Permit Conditions

At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

DEP Waiver and Permit Conditions

At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

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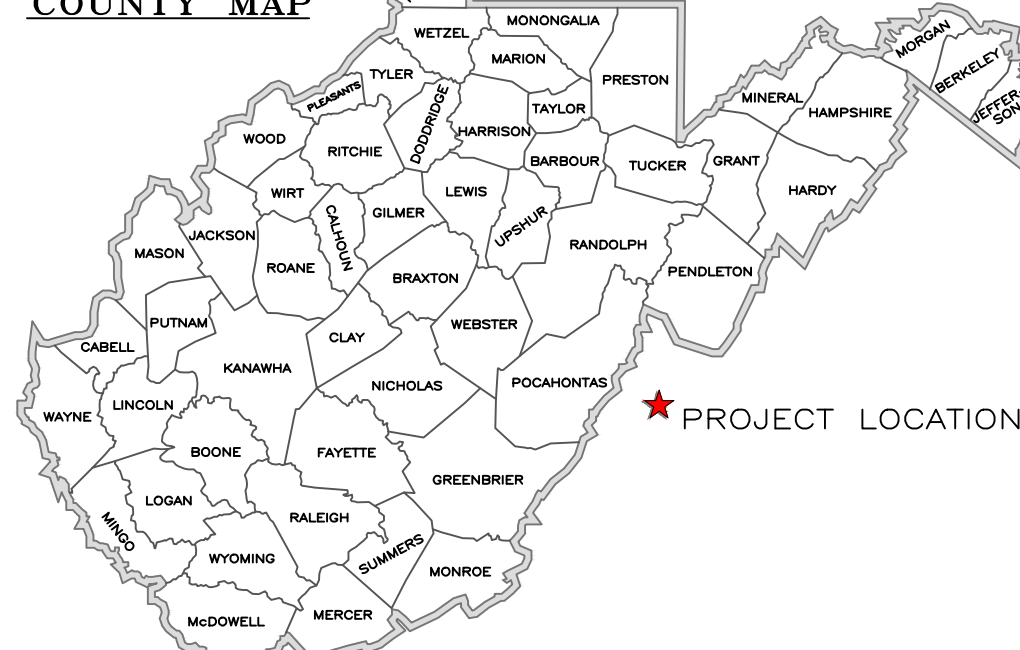
Shields Well Site

Site Design, Construction Plan, &
Erosion and Sediment Control Plans

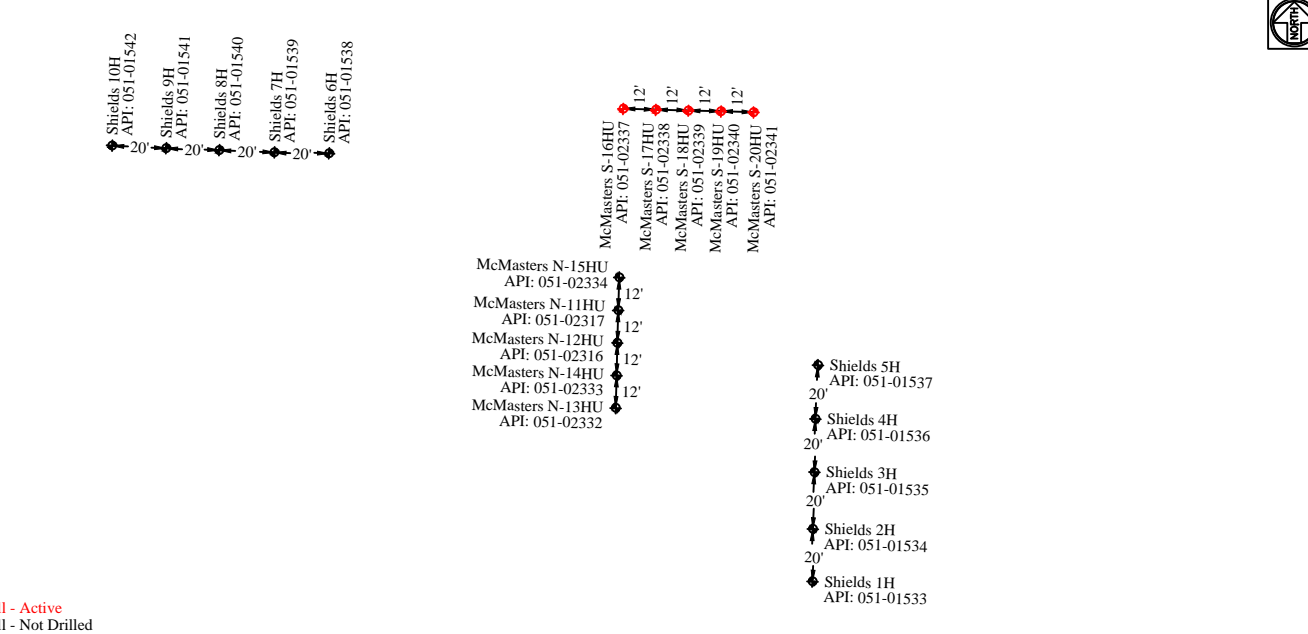
Tug Hill Operating
Marshall County
Franklin District
Latitude 39.76017192°
Longitude -80.78759031°
Lower Fish Creek Watershed

Pertinent Site Information
Shields Well Site
Emergency Number: 304-845-1920
Franklin District, Marshall County, WV
Watershed: Lower Fish Creek Watershed
Tug Hill Contact Number: 1-817-632-3400

WEST VIRGINIA COUNTY MAP



Site Entrance	Center of Well Pad
WV-N NAD 83 N: 461301.16 WV-N NAD 83 E: 1603936.06 WV-N NAD 27 N: 461265.09 WV-N NAD 27 E: 1635373.75 Lat. NAD 83: 39.75928382 Lon. NAD 83: -80.79683310 Lat. NAD 27: 39.75920697 Lon. NAD 27: -80.79701944 UTM 17 NAD 83 N: 4401060.37 UTM 17 NAD 83 E: 517403.01	WV-N NAD 83 N: 461587.24 WV-N NAD 83 E: 1606538.84 WV-N NAD 27 N: 461551.11 WV-N NAD 27 E: 1637976.47 Lat. NAD 83: 39.76017192 Lon. NAD 83: -80.78759031 Lat. NAD 27: 39.76009494 Lon. NAD 27: -80.78777110 UTM 17 NAD 83 N: 4401160.77 UTM 17 NAD 83 E: 518194.51 Pad Elev.: 1207.50'



Shields 1H	Shields 2H	Shields 3H	Shields 4H	Shields 5H
WV-N NAD 83 N: 461460.56 WV-N NAD 83 E: 1606618.31 WV-N NAD 27 N: 461424.43 WV-N NAD 27 E: 1638055.95 Lat. NAD 83: 39.7598273 Lon. NAD 83: -80.7873012 Lat. NAD 27: 39.7597503 Lon. NAD 27: -80.7874880 UTM 17 NAD 83 (m) N: 4401122.58 UTM 17 NAD 83 (m) E: 518219.36	WV-N NAD 83 N: 461480.50 WV-N NAD 83 E: 1606618.56 WV-N NAD 27 N: 461444.37 WV-N NAD 27 E: 1638056.20 Lat. NAD 83: 39.7598273 Lon. NAD 83: -80.7873012 Lat. NAD 27: 39.7598051 Lon. NAD 27: -80.7874881 UTM 17 NAD 83 (m) N: 4401128.66 UTM 17 NAD 83 (m) E: 518219.34	WV-N NAD 83 N: 461501.10 WV-N NAD 83 E: 1606619.10 WV-N NAD 27 N: 461444.37 WV-N NAD 27 E: 1638056.74 Lat. NAD 83: 39.7599390 Lon. NAD 83: -80.7872996 Lat. NAD 27: 39.7599160 Lon. NAD 27: -80.7874872 UTM 17 NAD 83 (m) N: 4401140.97 UTM 17 NAD 83 (m) E: 518219.45	WV-N NAD 83 N: 461520.89 WV-N NAD 83 E: 1606619.61 WV-N NAD 27 N: 461484.76 WV-N NAD 27 E: 1638057.64 Lat. NAD 83: 39.7599920 Lon. NAD 83: -80.7872992 Lat. NAD 27: 39.7599160 Lon. NAD 27: -80.7874864 UTM 17 NAD 83 (m) N: 4401146.85 UTM 17 NAD 83 (m) E: 518219.48	WV-N NAD 83 N: 461540.18 WV-N NAD 83 E: 1606620.00 WV-N NAD 27 N: 461504.05 WV-N NAD 27 E: 1638057.64 Lat. NAD 83: 39.7600459 Lon. NAD 83: -80.7872992 Lat. NAD 27: 39.7599689 Lon. NAD 27: -80.7874860 UTM 17 NAD 83 (m) N: 4401150.00 UTM 17 NAD 83 (m) E: 518219.48

Project Contacts

Tug Hill Operating
Jonathan White - Regulatory Analyst
724-485-2000 Off. 304-689-7676 Cell

Survey and Engineer
Kenneth Kelly
304-338-6985 Off.

Geoff Radler - V.P. Production
817-632-5200 Off.

John P. See
304-442-0220 Off.

Tug Hill Operating, LLC
380 Southpointe Blvd
Southpointe Plaza H, Suite 200
Canonsburg, PA 15317

Zachary Summerfield
304-338-6987 Off.

Environmental:
Wetland Delineations as provided by Allstar Ecology dated December 6, 2019

Topographic Information:
The topographic information shown herein is based on aerial photography by Blue Mountain Aerial Mapping, Burton, WV

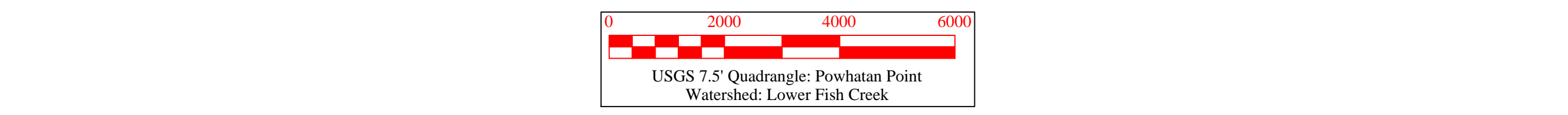
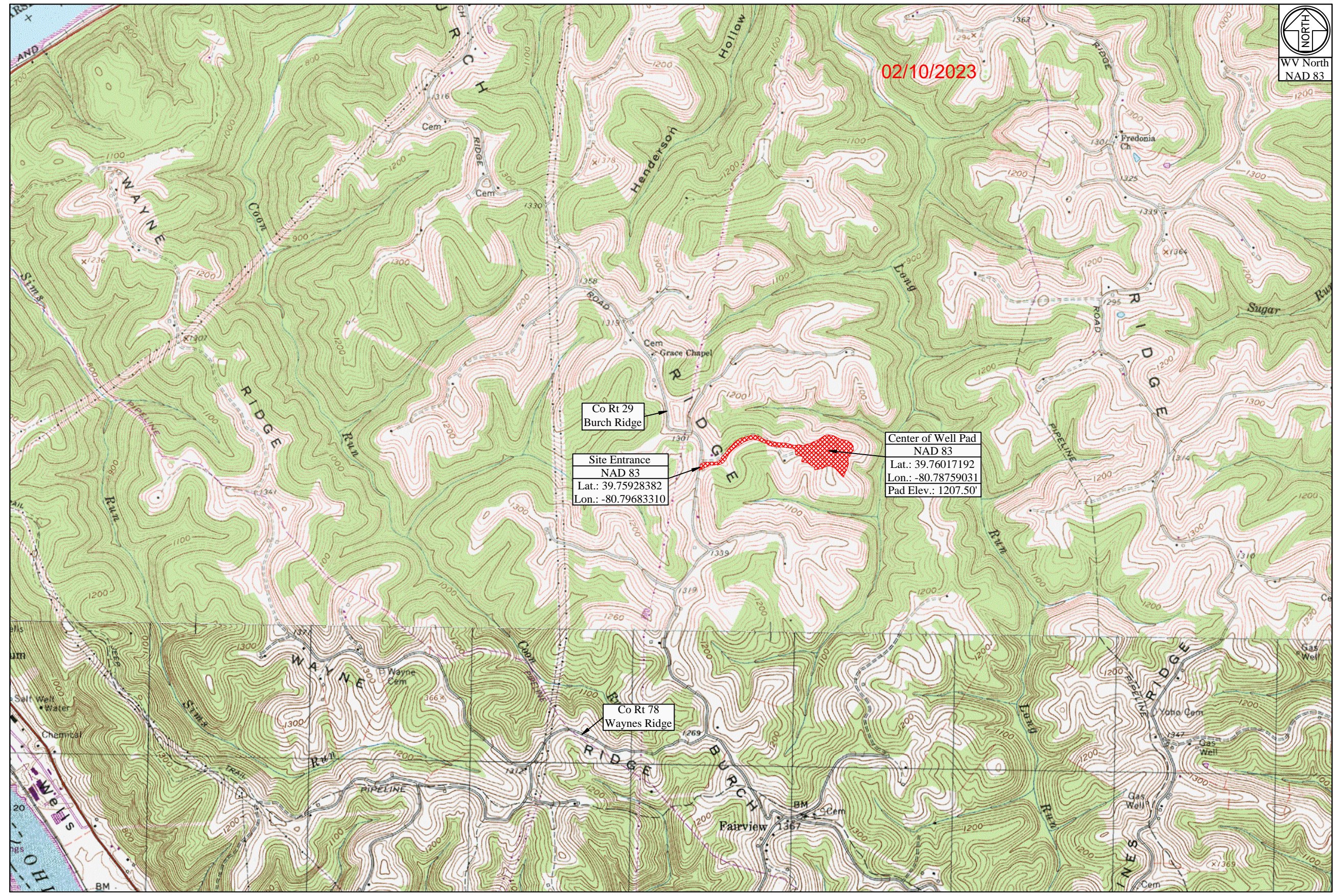
MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
West Virginia State Law
Section XIV, Chapter 24-C requires
that you call two business days
before
you dig in the state of West Virginia.
IT'S THE LAW
Know what's below.
Call before you dig.

Tug Hill Operating will obtain an Encroachment Permit (Form MM-109) from the WV Department of Transportation, Division of Highways, prior to the commencement of any construction activities

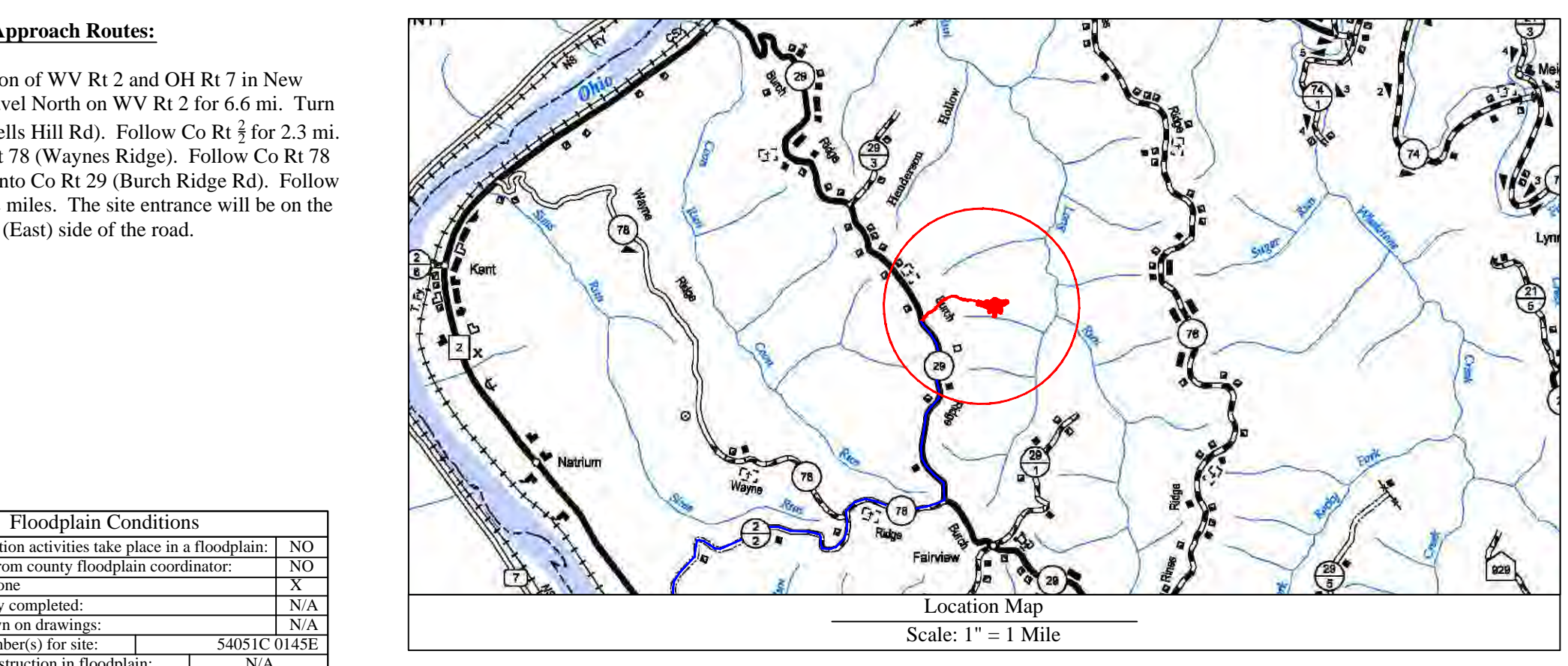
The WV Mines Website was consulted. Previous (Current) mining activities are not within the AOI

WVDEP Website files show that there are active and/or abandoned gas wells within the AOI

Exhibit A: As-Built



Site Locations (NAD 27)			Site Locations (NAD 83)		
Structure	Latitude (DD)	Longitude (DD)	Structure	Latitude (DD)	Longitude (DD)
Site Entrance	39.75928382	-80.79701944	Site Entrance	39.75928382	-80.79683310
Center of Well Pad	39.76009494	-80.78777110	Center of Well Pad	39.76017192	-80.78759031



Property Owner Information - Shields Well Site
Franklin District - Marshall County

Owner	TM - Parcel	Well Pad	Borrow	Access Road	Topsoil/Excess	Add. Clearing	Total Disturbed
M. Yoho	19-24	0.00	0.00	0.00	0.00	0.02	0.02
M. Yoho	19-17	0.00	0.00	0.19	0.00	0.50	0.69
R. Shields	19-16	0.00	0.00	0.48	0.00	1.65	2.13
R. Shields	18-2	5.84	0.70	1.44	0.23	6.71	14.92
Site Totals (Ac)	5.84	0.70	2.11	0.23	8.88	17.76	

Access Road

Surface Owner	TM - Parcel	Road Length	Type
M. Yoho	19-17	417.45'	Existing Access Road
R. Shields	19-16	1,099.06'	Existing Access Road
R. Shields	18-2	3,062.70'	Access Road Construction

Disturbed Area

Well Pad Area	5.84 Ac
Access Road Area	2.11 Ac
Borrow Area	0.70 Ac
Topsoil / Excess Material	0.23 Ac
Additional Clearing	8.88 Ac
Total Disturbed Area	17.76 Ac

Additional Information

Total Wooded Acres Disturbed	2.74 Ac
Total Linear Feet of Access Road	4,161.76'

Shields Well Site Quantities

Description	Cut (CY)	Fill (CY)	Spoil (CY)	Borrow (CY)	Max. Slope	Length of Slope
Well Pad Grading	199.66	5,958.99	-	5,759.33	N/A	N/A
Well Pad Berm	33.20	1,679.37	-	1,646.17	N/A	N/A
Well Pad Access Road	0.70	230.06	-	230.06	17.09%	70.20'
Landowner Access Road #1	965.74	967.51	-	1.77	17.89%	61.50'
Landowner Access Road #2	242.93	158.40	84.53	-	15.22%	65.71'
Borrow Area	7,500.74	7,500.74	-	-	N/A	N/A
Topsoil/Excess Material Stockpile	8,942.97	10,494.47	7,585.13	8,907.27	N/A	N/A
Totals	19,185.94	24,436.93	-1,551.50	-	(Excess Spoil Capacity)	

Stream Note
The Limits of Disturbance (LOD) shown is the originally permitted boundary. There will be no disturbance to streams within the LOD. Disturbance within the LOD shall be limited to the clearing limits.

WVDEP OOG
ACCEPTED AS-BUILT
2/6/2023

Well Location Restrictions

All Pad construction complies with the following restrictions.

- *250' from an existing well or developed spring used for human or domestic animals.
- *625' from an occupied dwelling or barn greater than 2,500 SF used for poultry or dairy measured from the center of the pad.
- *100' from the edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir.
- *300' from the edge of disturbance to a naturally reproducing trout stream.
- *1,000' of a surface or ground water intake to a public water supply.

(Well Location Restrictions of WV Code 22-6A-12)

Zachary C. Summerfield
REGISTERED PROFESSIONAL ENGINEER
22214
STATE OF WEST VIRGINIA

The drawings, construction notes and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas Section 2008.

All Plans, Sheets, and/or Reference Diagrams included in this design constitute a complete set of plans. A complete set of plans is necessary to construct the site in accordance with the design.

Zachary C. Summerfield
RPE 22214
Kelly Surveying PLLC
COA: C0423-09

Date: 11-17-2022

As-Built Certification

Sheet	Description
1	Cover Sheet
V1	Schedule of Quantities
N1-N4	Site Notes
2	Pre-Construction Site Conditions
3	Site Soil Map
4	Overall Plan View
5-7	Plan View
8-9	Cross Sections - Well Pad
10	Cross Sections - Well Pad Access Road
G1-G2	Geotechnical Exhibit
L1	Landowner Disturbed Area Exhibit
S1	Site Reclamation
M1-M3	Production Exhibit
D1-D2	Erosion and Sediment Control Details
R1	Access Road Details
P1	Pad Details

Revision: As-Built
Date: 11-17-2022

TUG HILL OPERATING

THIS DOCUMENT PREPARED FOR TUG HILL OPERATING

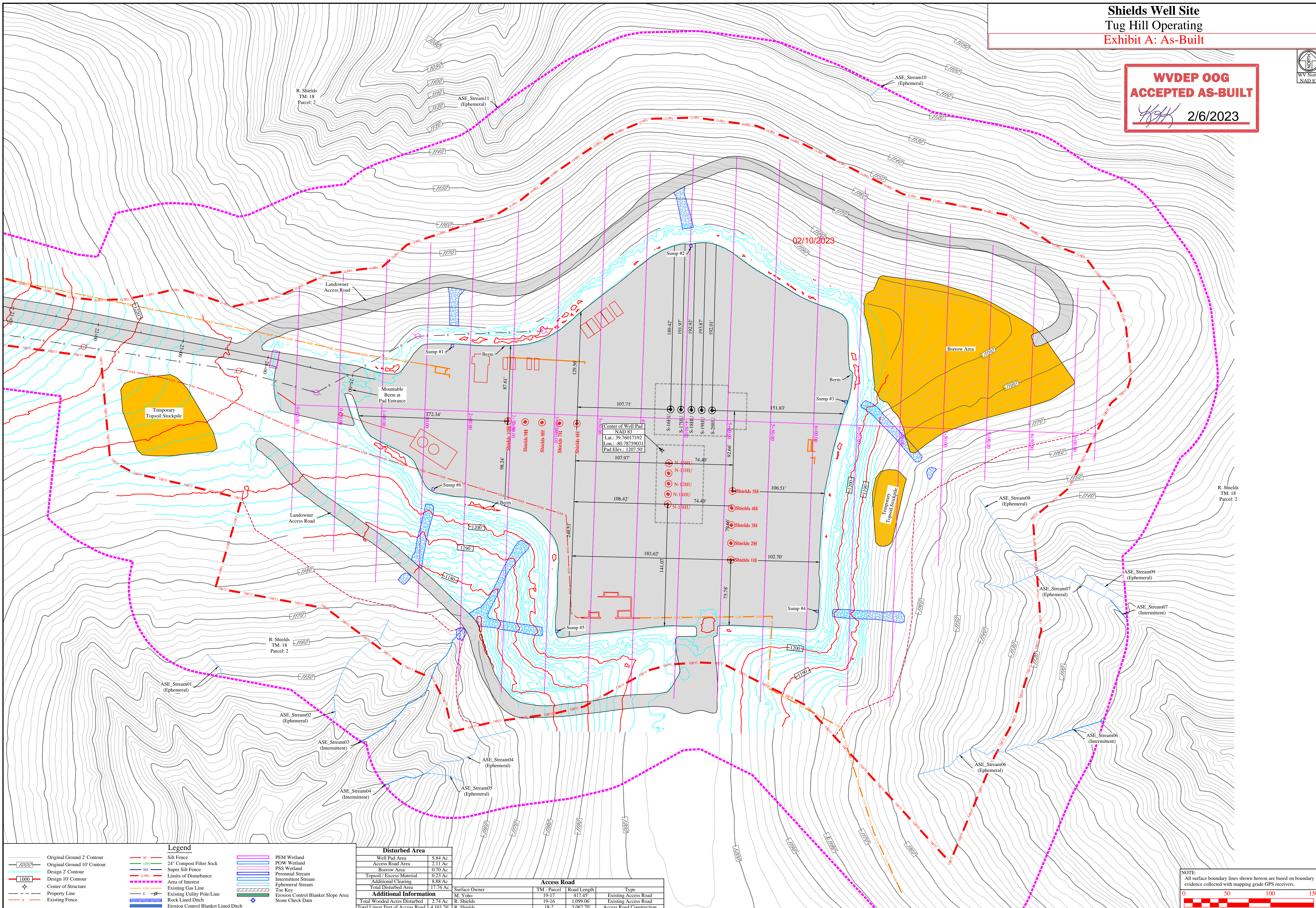
Kelly Surveying
22214
2000 W. 25th St.
Martinsburg, WV 25409
304-633-6985

Cover Sheet
Shields Well Site
Franklin District
Marshall County, WV

Date: 11/17/2022
Scale: As Shown
Designed by: ZS
File No.
Sheet 1 of 10



**WVDEP OOG
ACCEPTED AS-BUILT**
[Signature] 2/6/2023



Legend

	Original Ground 2' Contour		Silt Fence		PEM Wetland
	Original Ground 10' Contour		24" Composite Filter Sock		POW Wetland
	Design 2' Contour		Super Silt Fence		PSS Wetland
	Design 10' Contour		Limits of Disturbance		Perennial Stream
	Area of Interest		Intermittent Stream		Ephemeral Stream
	Existing Gas Line		Toe Key		Erosion Control Blanket Slope Area
	Existing Utility Pole Line		Stone Check Dam		
	Rock Lined Ditch				
	Erosion Control Blanket Lined Ditch				

Disturbed Area

Well Pad Area	5.84 Ac
Access Road Area	2.11 Ac
Borrow Area	0.70 Ac
Topsoil / Excess Material	0.23 Ac
Additional Clearing	8.88 Ac
Total Disturbed Area	17.76 Ac

Additional Information

Surface Owner	TM - Parcel	Road Length	Type
M. Yoho	19-17	417.45'	Existing Access Road
R. Shields	19-16	1,099.16'	Existing Access Road
R. Shields	18-2	3,062.70'	Access Road Construction

NOTE:
All surface boundary lines shown hereon are based on boundary evidence collected with mapping grade GPS receivers.

Revision: As-Built
Date: 11-17-2022

TUG HILL OPERATING

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Kelly Surveying
1000 254
Daleway, WV 26049
304-338-6985

Site Plan
Shields Well Site
Franklin District
Marshall County, WV

Date: 11/17/2022
Scale: As Shown
Designed By: ZS
File No.
Sheet 7 of 10