

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 051 - 02330 County Marshall District Franklin
Quad New Martinsville 7.5' Pad Name Goudy Field/Pool Name _____
Farm name TH Exploration III, LLC Well Number Goudy 1S-4HM
Operator (as registered with the OOG) Tug Hill Operating, LLC
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey

Top hole Northing 4,398,579.86 Easting 514,677.83
Landing Point of Curve Northing 4,398,168.54 Easting 514,448.41
Bottom Hole Northing 4,394,612.48 Easting 516,501.17

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Elevation (ft) 1242.0' GL Type of Well New Existing Type of Report Intermediate Deep Shallow
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)

SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 7/30/2020 Date drilling commenced 9/9/2021 Date drilling ceased 6/23/2021
Date completion activities began 9/9/2021 Date completion activities ceased 10/20/2021
Verbal plugging (Y/N) N Date permission granted n/a Granted by n/a

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 889' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1506' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 788-794', 883-889' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) _____

APPROVED
Reviewed by:
[Signature]
10/14/2022
10-11-2022

API 47- 051 - 02330 Farm name TH Exploration III, LLC Well number Goudy 1S-4HM

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	17 1/2"	13 3/8"	997'	NEW	48#	N/A	Y
Coal	17 1/2"	13 3/8"	997'	NEW	48#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,653'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	19,194'	NEW	20#	N/A	Y
Tubing		2 3/8"	9,597'	NEW	4.7#	N/A	Y
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	547	15.6	1.18	646	0	8
Surface	A	1040	15.6	1.199	1246.96	0	8
Coal	A	1040	15.6	1.199	1246.96	0	8
Intermediate 1	A	800	15	1.378	1102.4	0	8
Intermediate 2							
Intermediate 3							
Production	A	4100	14.5	1.3	5330	0	8
Tubing							

Drillers TD (ft) 19,231' Loggers TD (ft) n/a
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

Kick off depth (ft) 6,576'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 3 centralizers on surface casing at equal distance.
Intermediate - 1 centralizer every other joint.
 Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	*see attached				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	attached							

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6444'-6580'	TVD 7199'-19231' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2280 psi Bottom Hole _____ psi DURATION OF TEST 4 hrs

OPEN FLOW Gas 168.00 mcfpd Oil 192 bpd NGL _____ bpd Water 840 bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
*see attached	0		0		

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Please insert additional pages as applicable.

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Drilling Contractor Nabors Drilling USA
Address 505 West Greens Road, Suite 1000 City Houston State TX Zip 77067

Logging Company n/a
Address _____ City _____ State _____ Zip _____

Cementing Company Halliburton Energy Services, Inc.
Address 121 Champion Way, Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company PRO-FRAC
Address 333 Shops Boulevard City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Amy L. Morris Telephone 304-376-0111
Signature  Title Permitting Specialist - Appalachia Date 10-3-2022

**GOUDY 1S-4HM
STIMULATION INFORMATION PER STAGE**

Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	73.00	8582	7977	3699	248540	12,007	0
2	78.00	7185	4951	4459	471940	8,997	0
3	88.00	7726	5234	4881	468220	8,950	0
4	89.00	7598	4977	4609	454020	8,688	0
5	90.00	7588	5042	5042	461820	8,792	0
6	88.00	7441	5264	5094	468080	8,985	0
7	89.00	7531	5271	5061	465220	8,842	0
8	89.00	7352	4931	5178	468480	8,862	0
9	89.00	7361	4975	4746	467200	8,835	0
10	89.00	7609	5448	5159	469860	8,981	0
11	88.00	7507	5195	5069	464500	8,865	0
12	89.00	7459	5047	4935	467920	8,858	0
13	89.00	7358	4981	4983	466400	8,898	0
14	89.00	7290	5023	4529	463960	8,807	0
15	90.00	7455	5005	4765	467700	8,863	0
16	88.00	7380	4984	4979	459640	8,768	0
17	90.00	7397	5060	4928	465060	8,791	0
18	89.00	7239	5076	4931	466560	8,836	0
19	89.00	7374	5210	4401	464980	8,851	0
20	90.00	7338	5083	5065	465700	8,856	0
21	89.00	7288	5427	5047	462740	8,801	0
22	90.00	7348	5312	5247	466220	8,802	0
23	88.00	7334	5282	4432	466620	8,678	0
24	90.00	7403	5158	4944	461940	8,899	0
25	89.00	7279	5173	4601	461540	8,678	0
26	90.00	7350	5286	4261	465520	8,713	0
27	89.00	7250	5608	4310	466900	9,047	0
28	90.00	7271	5559	4968	467240	8,751	0
29	89.00	7371	5298	5094	459140	8,776	0
30	90.00	7372	5389	4543	459720	8,648	0
31	88.00	7332	5296	4813	460620	8,671	0
32	89.00	7247	5347	4817	469660	8,920	0

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 BY: [Signature]
 Title: [Title]

Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	88.00	7150	5366	4478	464340	8,927	0
34	88.00	7211	5094	4505	419960	8,159	0
35	88.00	7116	5397	4569	465980	8,725	0
36	89.00	6873	5416	3552	466340	8,658	0
37	88.00	6887	5585	4085	465660	8,706	0
38	90.00	7069	5393	4192	469660	9,362	0
39	89.00	6966	5456	4837	468660	8,688	0
40	89.00	6823	4771	4683	465440	8,627	0
41	88.00	7084	5532	4717	461580	8,651	0
42	90.00	7193	5391	4137	461700	8,567	0
43	88.00	6937	5116	4146	460400	8,929	0
44	89.00	6988	5399	4663	433240	8,314	0
45	89.00	6804	5080	3761	528740	10,070	0
46	90.00	7023	4995	3344	517400	9,409	0
47	89.00	7218	5424	3424	526540	11,138	0
48	88.00	7073	5138	3485	532240	9,532	0
49	89.00	6848	5101	4034	521900	9,400	0
50	89.00	6872	5384	3322	526260	9,378	0
51	90.00	6782	5557	3671	525280	9,482	0
52	88.00	6965	5723	4104	435820	8,862	0
53	89.00	6700	4842	4812	525060	9,342	0
54	89.00	6593	5377	4781	530320	9,526	0
55	89.00	6487	5523	4603	519760	9,342	0
56	90.00	6695	5850	4515	512340	9,352	0
57	90.00	6584	5706	4070	524040	9,473	0
58	89.00	6545	6080	3807	524360	9,437	0

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**GOUDY 1S-4HM
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	9/9/2021	18,997	19,047	48	Marcellus
2	9/10/2021	18,796	18,942	48	Marcellus
3	9/11/2021	18,620	18,766	48	Marcellus
4	9/11/2021	18,444	18,590	48	Marcellus
5	9/12/2021	18,268	18,414	48	Marcellus
6	9/13/2021	18,092	18,238	48	Marcellus
7	9/14/2021	17,916	18,062	48	Marcellus
8	9/14/2021	17,740	17,886	48	Marcellus
9	9/15/2021	17,564	17,710	48	Marcellus
10	9/15/2021	17,388	17,534	48	Marcellus
11	9/16/2021	17,212	17,358	48	Marcellus
12	9/17/2021	17,036	17,182	48	Marcellus
13	9/17/2021	16,860	17,006	48	Marcellus
14	9/18/2021	16,684	16,830	48	Marcellus
15	9/18/2021	16,508	16,654	48	Marcellus
16	9/19/2021	16,332	16,478	48	Marcellus
17	9/19/2021	16,156	16,302	48	Marcellus
18	9/20/2021	15,980	16,126	48	Marcellus
19	9/21/2021	15,804	15,950	48	Marcellus
20	9/21/2021	15,628	15,774	48	Marcellus
21	9/22/2021	15,452	15,598	48	Marcellus
22	9/22/2021	15,276	15,422	48	Marcellus
23	9/23/2021	15,100	15,246	48	Marcellus
24	9/23/2021	14,924	15,070	48	Marcellus
25	9/24/2021	14,748	14,894	48	Marcellus
26	9/25/2021	14,572	14,718	48	Marcellus
27	9/25/2021	14,396	14,542	48	Marcellus
28	9/25/2021	14,220	14,366	48	Marcellus
29	9/26/2021	14,044	14,190	48	Marcellus
30	9/26/2021	13,868	14,014	48	Marcellus
31	9/27/2021	13,692	13,838	48	Marcellus
32	9/28/2021	13,516	13,662	48	Marcellus
33	9/28/2021	13,340	13,486	48	Marcellus
34	9/29/2021	13,164	13,310	48	Marcellus
35	9/29/2021	12,988	13,134	48	Marcellus
36	9/30/2021	12,812	12,958	48	Marcellus
37	9/30/2021	12,636	12,782	48	Marcellus
38	10/1/2021	12,460	12,606	48	Marcellus
39	10/1/2021	12,284	12,430	48	Marcellus
40	10/2/2021	12,108	12,254	48	Marcellus
41	10/2/2021	11,932	12,078	48	Marcellus

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	10/3/2021	11,756	11,902	48	Marcellus
43	10/3/2021	11,580	11,726	48	Marcellus
44	10/4/2021	11,404	11,550	48	Marcellus
45	10/11/2021	11,228	11,374	48	Marcellus
46	10/18/2021	11,052	11,198	48	Marcellus
47	10/18/2021	10,876	11,022	48	Marcellus
48	10/19/2021	10,700	10,846	48	Marcellus
49	10/19/2021	10,524	10,670	48	Marcellus
50	10/19/2021	10,348	10,494	48	Marcellus
51	10/19/2021	10,172	10,318	48	Marcellus
52	10/20/2021	9,996	10,142	48	Marcellus
53	10/20/2021	9,820	9,966	48	Marcellus
54	10/20/2021	9,644	9,790	48	Marcellus
55	10/20/2021	9,468	9,614	48	Marcellus
56	10/20/2021	9,292	9,438	48	Marcellus
57	10/20/2021	9,116	9,262	48	Marcellus
58	10/20/2021	8,940	9,086	48	Marcellus

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Goudy 1S-4HM

Lithology Information

LITHOLOGY/FORMATION	TOP DEPTH IN FT/ Name TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID
Maxton	1895	1995	1897	1997	Sandstone
Big Lime	1995	2076	1997	2078	Limestone
Big Injun	2076	2384	2078	2387	Sandstone
Weir	2384	2574	2387	2577	Sandstone
Berea	2574	2934	2577	2939	Sandstone
Gordon	2934	2996	2939	3002	Sandstone
Fifty Foot	2996	3528	3002	3559	Sandstone
Speechley	3528	4883	3559	5133	Sandstone
Benson	4883	5257	5133	5570	Sandstone
Alexander	5257	5831	5570	6239	Siltstone
Rhinestreet	5831	6253	6239	6748	Black Shale
Middlesex	6253	6336	6748	6881	Black Shale
Geneseo/Burkett	6336	6365	6881	6939	Black Shale
Tully	6365	6389	6939	6992	Limestone
Hamilton	6389	6407	6992	7041	Gray Shale
Marcellus	6407	-	7041	-	Black Shale

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/9/2021
Job End Date:	10/20/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02330-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Goudy 1S-4HM
Latitude:	39.73705000
Longitude:	-80.82868600
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,511
Total Base Water Volume (gal):	21,998,424
Total Base Non Water Volume:	0

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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.68789	None
Sand (40/70 White Proppant)	Tug Hill Operating	Proppant	Silica Substrate	14808-60-7	100.00000	8.83929	None
Sand (100 Mesh Proppant)	Tug Hill Operating	Proppant	Silica Substrate	14808-60-7	100.00000	2.97094	None
Sand (30/50 White Proppant)	Tug Hill Operating	Proppant	Silica Substrate	14808-60-7	100.00000	1.13637	None
Hydrochloric Acid (7.5%)	CNR	Acidizing	Water	7732-18-5	85.00000	0.21242	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.09246	None
StimStream FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01719	None
			Butene, homopolymer	9003-29-6	25.00000	0.01719	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00206	None

MC MX 9-4743	Multi-Chem	Biocide	Sodium Nitrate	7631-99-4	60.00000	0.02208	None
LD-7750W	Multi-Chem	Scale Inhibitor	Methanol	67-56-1	60.00000	0.00503	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	None
ProHib 100	CNR	Acid Inhibitor	2-Butoxyethanol	111-76-2	60.00000	0.00046	None
			Proprietary material	68391-11-7	30.00000	0.00023	None
			Proprietary non-ionic surfactant	9043-30-5	20.00000	0.00015	None
			Proprietary ethoxylated alcohol	84133-50-6	10.00000	0.00008	None
			Proprietary corrosion inhibitor	104-55-2	10.00000	0.00008	None
ProFE 105	CNR	Iron Control	Citric Acid	77-92-9	20.00000	0.00018	None
			Acetic Acid	64-19-7	5.00000	0.00005	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.21242	
			Butene, homopolymer	9003-29-6	25.00000	0.01719	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00206	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	
			Proprietary material	68391-11-7	30.00000	0.00023	
			Proprietary non-ionic surfactant	9043-30-5	20.00000	0.00015	
			Proprietary ethoxylated alcohol	84133-50-6	10.00000	0.00008	
			Proprietary corrosion inhibitor	104-55-2	10.00000	0.00008	
			Acetic Acid	64-19-7	5.00000	0.00005	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

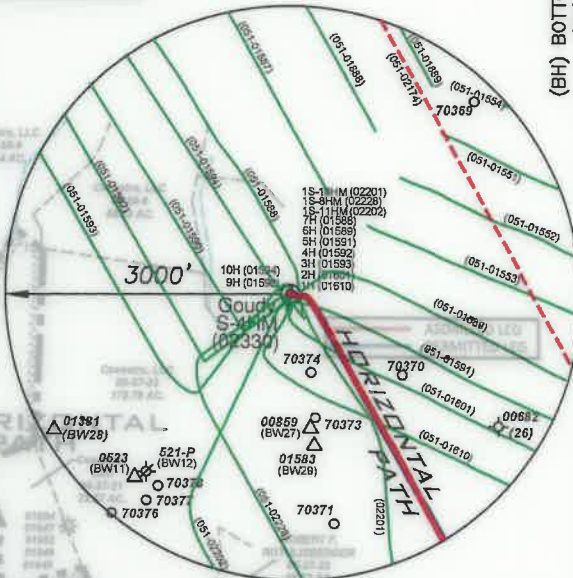
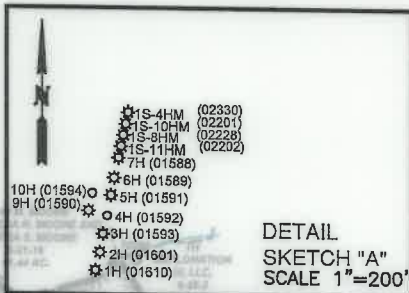
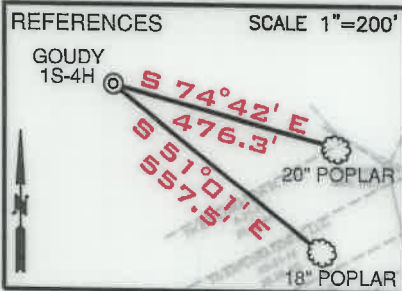
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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GOUDY LEASE WELL 1S-4HM 818.9883± ACRES



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

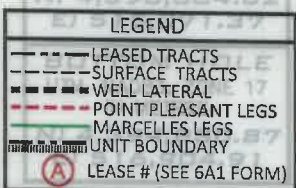
SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,398,587.16 E) 514,679.29
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,397,948.97 E) 515,103.70
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,394,831.69 E) 516,900.88

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 78°53' E	55.47'	100.99'	55.19'
C2	S 85°38' E	36.86'	155.67'	36.97'
C3	N 67°05' E	18.33'	90.49'	18.36'
C4	S 75°34' E	85.04'	112.40'	82.91'
C5	S 36°43' E	56.37'	224.20'	58.51'



- NOTES
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN AUGUST, 2020. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058904.0401147

LINE	BEARING	DISTANCE
L1	N 12°02' W	2266.28'
L2	S 52°10' E	1761.67'
L3	S 29°07' E	2334.56'



FILE NUMBER _____

DRAWING NUMBER GOUDY S-4HM_REV 4

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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



David L Jackson

JACKSON SURVEYING INC.
P.O. Box 1480
Clarksburg, WV 26302
304-623-5851

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

DATE: OCTOBER 03, 2022

OPERATORS WELL NO. GOUDY 1S-4HM
API WELL NO. 47-051-02330
STATE COUNTY PERMIT

LOCATION ELEVATION 1,242.00' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER TH EXPLORATION III, LLC. ACREAGE 10014/2022

OIL & GAS ROYALTY OWNER PPG INDUSTRIES, INC., ET AL. THEIR SUCCESSORS OR ASSIGNS LEASE ACREAGE 70.0

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

TARGET FORMATION MARCELLUS

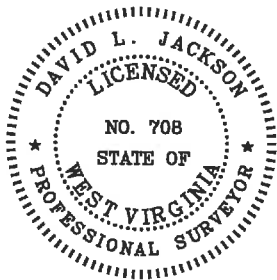
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

**GOUDY LEASE
WELL 1S-4HM
818.9883± ACRES**

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	C 05-28-12	TH Exploration III, LLC	20.226
S2	D 05-28-11	Carol A. Martin	24.681
S3	E 05-27-19	Covestro, LLC	33.786
S4	F 05-27-20	Covestro LLC	93.027
S5	G 05-27-20.1	Appalachian Power Co.	43.973
S6	H 05-27-27	James Andrew & Karen Lynne Richmond	8.9353
S7	J 05-27-25	James Andrew & Karen Lynne Richmond	41.35
S8	12-01-31	Steven Jack & Susan Louise Hafer	20.0
S9	12-01-29	Baxter Farm, LLC	2.0
S10	O 12-01-28	Steven J. & Susan L. Hafer	88.39
S11	12-01-7.1	Harry Wayman Estate	2.0
S12	K 12-01-04	Robert F. Rothlisberger	6.0
S13	12-01-03	Charles D. & Edith Feenerty Harrison	7.8
S14	12-01-02	James Andrew & Karen L. Richmond	2.7
S15	L 12-01-05	Irvin L. Hoyt, Jr. & David L. Hoyt	36.8
S16	12-01-06	Mona Parsons, et al	52.75
S17	12-01-16	Vivian A. Parsons, et al	5.125
S18	12-01-01	Covestro, LLC	135.0
S19	12-01-1.7	Colombia Gas Transmission, Corp.	0.15
S20	12-23-15	Donna Jo Cain	0.70
S21	12-23-15.1	Robert F. Rothlisberger	0.47
S22	12-23-13	Donna Jo Cain	0.38
S23	05-27-27.2	Donna Jo. Cain	0.1767
S24	05-27-27.1	Donald P. Cain	1.645
S25	05-27-27.3	Donna Jo. Cain	1.018
S26	05-27-28	Covestro, LLC	8.0
S27	12-23-12	Donna Jo Cain	0.37
S28	12-23-11	Covestro, LLC	1.25
S29	12-23-10	Covestro, LLC	1.28
S30	12-23-05	Covestro, LLC	3.69
S31	05-27-40	Covestro, LLC	3.36
S32	12-23-06	Covestro, LLC	0.34
S33	12-27-44	Covestro, LLC	0.21
S34	05-27-43	Covestro, LLC	0.63
S35	05-27-42	Covestro, LLC	0.52
S36	05-27-42.1	Covestro, LLC	0.52
S37	05-27-41	Martha Jean Arrick	0.99
S38	05-27-31.2	Appalachian Power Co.	3.33
S39	05-27-31	Covestro, LLC	16.1
S40	05-27-30	Covestro, LLC	0.371
S41	05-27-31.1	Covestro, LLC	3.0
S42	05-27-32.2	Covestro, LLC	3.95
S43	05-27-29	Covestro, LLC	9.0
S44	05-27-45	Covestro, LLC	0.3627
S45	05-27-32	Covestro, LLC	33.53
S46	05-27-03	Covestro, LLC	1.27
S47	05-27-04	Covestro, LLC	2.52
S48	05-27-05	Covestro, LLC	2.52
S49	05-27-06	Covestro, LLC	2.52
S50	05-27-07	Covestro, LLC	2.52
S51	05-27-08	Covestro, LLC	2.52
S52	05-27-09	Covestro, LLC	1.87
S53	05-27-10	Covestro, LLC	0.52
S54	05-27-12	Covestro, LLC	1.0
S55	05-27-13	Covestro, LLC	0.34
S56	05-27-14	Covestro, LLC	0.25
S57	05-27-15	Covestro, LLC	0.47
S58	05-27-16	Covestro, LLC	0.23
S59	05-27-18	Covestro, LLC	0.97
S60	05-27-17	Covestro, LLC	0.88
S61	05-27-19.3	Cemetery	2.0
S62	05-27-02	Covestro, LLC	28.099
S63	05-27-19.2	Wheeling Electric Co.	0.75
S64	05-28-12.2	Covestro, LLC	3.1
S65	05-28-12.3	Covestro, LLC	18.784
S66	05-28-13.1	Air Products & Chemicals, Inc	5.522
S67	05-27-19.1	Covestro, LLC	21.267
S68	05-27-11	Covestro, LLC	0.03
S69	A 05-28-13	TH Exploration III, LLC	70.0
S70	05-28-13.2	Covestro, LLC	11.02
S71	05-28-1.1	Covestro, LLC	5.2217
S72	12-23-14	Robert E. Rothlisberger	0.27
S73	05-21-3.1	Eagle Natrium, LLC	98.613
S74	12-01-19	Steven J. & Susan L. Hafer	36.5
S75	12-01-27	Steven J. & Susan L. Hafer	83.69
S76	12-01-18	Travis Darrell Blake & Angela Dawn Mitchell	48.4

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10/14/2022



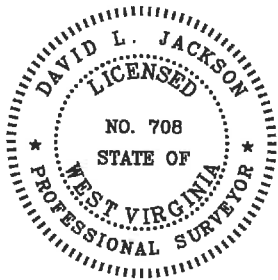
TUG HILL
OPERATING

OPERATOR'S
WELL #: Goudy 1S-4HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API # 47-051-02330

WELL PLAT
PAGE 3 OF 4
DATE: 10/03/22

**GOUDY LEASE
WELL 1S-4HM
818.9883± ACRES**

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S98	12-06-16	Brock T. & Emma J. Conners	27.0
S99	12-6A-01	Ronald E. McCoy	6.51
S100	12-06-05	Steven & Susan Louis Hafer	9.0
S101	12-06-04	Steven & Susan Hafer	6.5
S102	12-01-27	Steven J. & Susan Hafer	83.69
S103	12-01-26	William Joseph Blake	13.83
S104	12-01-25	Jack R. & Linda S. Blake	17.42
S105	12-01-15.3	Daniel L. & Vickie L Williams	7.0
S106	12-01-1.1	W.V. D.O.H	10.59
S107	12-01-15.2	Michael Goddard	1.09
S108	12-01-15.1	Marshall & Tara Cecil (L/C), Roy Yoho	1.46
S109	12-01-22	William D. Glover	18.84
S110	12-01-23.2	Raymond L. Pribble	0.782
S111	12-01-23	Raymond L. Pribble	1.55
S112	12-01-23.1	RHL Properties, LLC	34.17
S113	12-01-25.1	Timothy Q. & Ronda K. Bohrer	1.2
S114	12-01-24	Mitzilou Cecil, Trustee of the Tiger Cecil Irrevocable	0.85
S115	12-06-02	Brock T. Conner	23.83
S116	12-06-49	Kirkland Enterprises, LLC.	10.32
S117	12-06-51	Steven & Susan Hafer	0.599
S118	12-06-48	Ronald E. & Susan L. McCoy	0.36
S119	05-27-39	Covestro, LLC	3.74
S120	12-23-04	Pittsburgh Plate Glass Corp.	2.41
S121	12-23-09	Covestro, LLC	3.95
S122	12-23-08	Dora N. Moore Hrs., Et al	6.95
S123	12-01-1.5	United States of America	7.14
S124	12-23-02	Covestro, LLC	1.27
S125	12-23-03	Covestro, LLC	4.67
S126	12-27-38	Covestro, LLC	2.72
S127	12-27-37	Covestro, LLC	3.20
S128	12-27-35	Covestro, LLC	1.79
S129	12-27-34	Covestro, LLC	1.91
S130	12-27-36	Covestro, LLC	1.58
S131	12-27-33	Covestro, LLC	1.95
S137	12-01-1.2	West Virginia Dept. of Transportation	0.27
S138	12-22-59	Kenneth R. Morris	2.00
S139	12-22-60	Franklin W. & Barabara J. Cogar	0.5
S140	12-22-09	M.B. Investment	0.20
S141	12-22-10	M.B. Investment	0.24
S142	12-22-12	Jack Ray & Linda S. Blake	0.16
S143	12-22-13	Dewayne E. & Patricia A. Yost	0.07
S144	12-22-28	Kenneth R. Morris	0.12
S145	12-22-29	Jack R. & Linda S. Blake	0.50
S146	12-22-30	Jack R. & Linda S. Blake	0.24
S147	12-22-32	Ren Realty, LLC.	0.27
S148	12-22-33	Ren Realty, LLC.	0.08
S149	12-22-34	Ren Realty, LLC.	0.08
S150	12-22-51	Eric R. & Debra S. Sims	0.10
S151	12-22-52	Eric R. & Debra S. Sims	0.10
S152	12-22-53	Eric R. & Debra S. Sims	0.10
S153	12-22-54	Eric R. & Debra S. Sims	0.10
S154	12-22-55	Eric R. & Debra S. Sims	0.19
S155	12-22-56	Michael L. & Joyce D. Durig	0.22
S156	12-22-57	Michael L. & Joyce D. Durig	0.11
S157	12-22-58	Michael L. & Joyce D. Durig	0.15
S158	12-22-50	Michael L. & Joyce D. Durig	0.17
S159	12-22-49	Daniel J. Stillwagoner	0.13
S160	12-22-62	Virginia Bohrer, et al	0.05
S161	12-22-62.1	John R. & Toni Wright	0.314
S162	12-22-44	John R. & Toni Wright	0.52
S163	12-01-1.9	Grandview Doolin Public Service District	0.13
S164	12-22-27	Grandview Doolin Public Service District	0.27
S165	12-01-1.12	United States of America	22.55
S166	12-01-1.8	Grandview Doolin Public Service District	0.0895



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OPERATING

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