



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

Monday, July 15, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Dodrill Unit 1H
47-017-06979-00-00

Extended Lateral Length

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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: Dodrill Unit 1H
Farm Name: Shawn A Glaspell
U.S. WELL NUMBER: 47-017-06979-00-00
Horizontal 6A New Drill
Date Modification Issued: 7/15/2024

Promoting a healthy environment.

07/19/2024

4701706979

WW-6B
(04/15)

API NO. 47-017 -
OPERATOR WELL NO. Dodrill Unit 1H MOD
Well Pad Name: Crimson Pad

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

1) Well Operator: Antero Resources Corporation 494507062 017-Doddrick McLellan Center Point 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Dodrill Unit 1H MOD Well Pad Name: Crimson Pad

3) Farm Name/Surface Owner: Shawn A. Glaspell Public Road Access: Riggins Run

4) Elevation, current ground: 1249' Elevation, proposed post-construction: 1222'

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):
Marcellus Shale: 7700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 21400' MD

11) Proposed Horizontal Leg Length: 12069.3'

12) Approximate Fresh Water Strata Depths: 303', 953'

13) Method to Determine Fresh Water Depths: 47-017-00483

14) Approximate Saltwater Depths: 2123'

15) Approximate Coal Seam Depths: None Identified

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: _____

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Environmental Protection

[Signature]
7-10-24

WW-6B
(04/15)

4701706979
 API NO. 47-017 - _____
 OPERATOR WELL NO. Dodril Unit 1H MOD
 Well Pad Name: Crimson Pad

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	94#	100	100	CTS, 89 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	1003	1003	CTS, 1045 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	21400	21400	4465 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-HPOZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			RECEIVED Office of Oil and Gas
Sizes:	N/A			JUL 12 2024
Depths Set:	N/A			WV Department of Environmental Protection

Gregory St...
7-10-24

WW-6B
(10/14)

4701706979
API NO. 47-017
OPERATOR WELL NO. Dodrig Unit 1H MOD
Well Pad Name: Crimson Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the freshwater string which makes it difficult to determine when freshwater is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all freshwater zones are covered.

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

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 36.89 acres

22) Area to be disturbed for well pad only, less access road (acres): 14.46 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

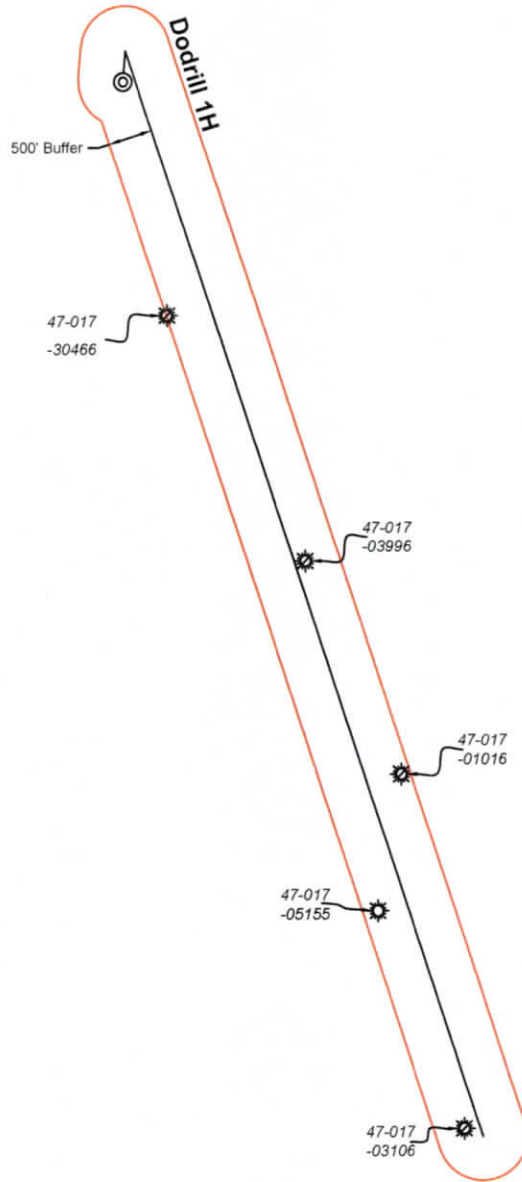
4701706979

LEGEND

- ⊙ Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted

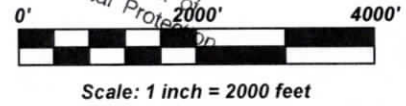


The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



Bridgeport Office Phone: (304) 848-5035 Fax: (304) 848-5037		172 Thompson Drive Bridgeport, WV 26330	
PARTY CHIEF: C. Lynch		DRAWN BY: J. Smith	
RESEARCH: J. Miller		PREPARED: October 9, 2023	
SURVEYED: Dec. 2016		PROJECT NO: 259-30-M-23	
FIELD CREW: C.L., K.M.		DRAWING NO: Dodrill 1H AOR	
Sheet 1 of 1			

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UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017039960000	JOHNSON WILLIAM R ETAL	1	DIVERSIFIED PROD LLC	PETROLEUM DEV CORP	5,239	2014 - 5074	Big Injun, Benson	Weir, Alexander
47017010160000	W B & GERTIE SWIGER	1	TAPO ENERGY INC	PENN & WAYNE	2,116		Maxon, Big Injun	Weir, Benson, Alexander
47017051550000	DEPI	7199	DIVERSIFIED PRODUCTION LLC	DOMINION EXPL&PROD	4,830	1684 - 2872	Maxton, Big Injun, Gordon	Weir, Benson, Alexander
47017031060000	HOSKINSON EVANS	5-413-1	R & R OIL & GAS LLC	SCOTT JAMES F	5,500	5230 - 5389	Benson	Weir, Alexander
47017304660000	D N DOAK 1/HRBRT CARROLL	371	CARNEGIE NATURAL GAS	CARNEGIE NATURAL GAS	2,943		Big Injun, Gordon	Weir, Alexander

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WV Department of
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WW-6A1

Operator's Well Number

Dodrill Unit 1H MOD

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A: Minda Allen Lease			
Minda Allen	W. B. Allen	1/8	7/357
W. B. Allen	South Penn Oil Company	Assignment	7/359
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Deed	203/621
Pennzoil Products Company	Pennzoil Exploration and Production Company	Deed	239/355
Pennzoil Exploration and Production Company	Pennz Energy Exploration and Production LLC	Deed	240/702
Pennz Energy Exploration and Production LLC	Devon Energy Production Company LP	Merger	244/399
Devon Energy Production Company LP	East Resources, Inc	Assignment	247/337
East Resources, Inc	HG Energy, LLC	Assignment	253/31
HG Energy, LLC	American Energy Marcellus LLC	Assignment	361/1
American Energy Marcellus LLC	Ascent Resources- Marcellus LLC	Name Change	36/455
Ascent Resources- Marcellus LLC	Tribune Resources, LLC	Merger	431/260
Tribune Resources, LLC	Antero Resources Corporation	Assignment	530/325
B: Morris Mountaineer Oil & Gas LLC Lease			
Morris Mountaineer Oil & Gas LLC	Antero Resources Corporation	1/8+	510/376
C: Shawn Glaspell Lease			
Shawn Glaspell	Antero Resources Corporation	1/8+	525/225
D: Johnnie Huy Rominger Lease			
Johnnie Huy Rominger	Antero Resources Corporation	1/8+	520/348
E: CNX Gas Company Lease			
CNX Gas Company LLC	Antero Resources Corporation	1/8+	523/705
F: Acropolis, Inc. Lease			
Acropolis, Inc.	Antero Resources Corporation	1/8+	517/403
G: AMP IV, LP Lease			
AMP IV, LP	Antero Resources Corporation	1/8+	532/108
I: Brian A. Moreno & Diane P. Blanchette Lease			
Brian A. Moreno & Diane P. Blanchette	Antero Resources Corporation	1/8+	518/506
J: Clyde M. Ford III Lease			
Clyde M. Ford III	Antero Resources Corporation	1/8+	526/693

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07/19/2024

Operator's Well Number

Dodrigill Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
L: Burnetta C. Hoskinson Lease Burnetta C. Hoskinson	Antero Resources Corporation	1/8+	471/159

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

*Cotenancy Utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

**Pooling/Unitization - Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract

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WW-6A1
(5/13)

Operator's Well No. Dodril Unit 1H MOD

**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)**

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- (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
M: Ollie M. Ford, et al Lease	Ollie M/ Ford, et al James F. Scott Emax Oil Company	James F. Scott Emax Oil Company Antero Resources Corporation	1/8 Assignment Assignment	99/732 317/210 342/346

*Cotenancy Utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.
 **Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract

**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

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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: Antero Resources Corporation
 By: Max Green
 Its: Vice President of Land

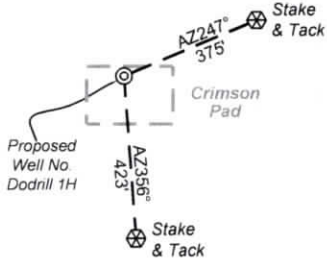
**Antero Resources
Well No. Dodrill 1H**

Antero Resources Corporation



Well Location References

Not To Scale



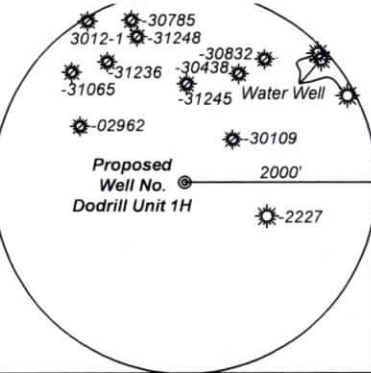
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167



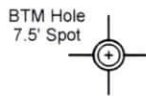
Note: 3 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Legend

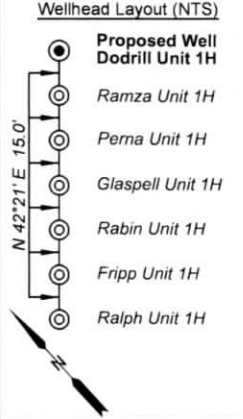
- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Notes
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Dodrill Unit 1H Top Hole coordinates are
N: 324,448.81' Latitude: 39°23'05.03"
E: 1,664,865.31' Longitude: 80°41'08.54"
Bottom Hole coordinates are
N: 312,996.49' Latitude: 39°21'12.35"
E: 1,668,709.44' Longitude: 80°40'17.68"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,359,528.516m N: 4,356,059.996m
E: 527,082.641m E: 528,311.656m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.



Notes
Well No. Dodrill Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,302,170.89'
E: 1,729,222.73'
Point of Entry Coordinates
N: 14,302,205.13'
E: 1,729,354.62'
Bottom Hole Coordinates
N: 14,290,788.16'
E: 1,733,255.93'

Leg	Bearing	Dist.
L1	S 81°22' E	2,040.8'
L2	S 27°30' W	560.1'
L3	S 79°09' W	816.7'
L4	N 66°59' W	1,013.5'
L5	N 76°24' E	136.3'



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JUN 27 2024
WV Department of Environmental Protection

FILE NO: 259-30-M-23
DRAWING NO: Dodrill 1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: April 25 2024
OPERATOR'S WELL NO. Dodrill 1H
API WELL NO
47 - 017 - 06979
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Proposed: 1,222' Existing: 1,249' WATERSHED: McElroy Creek QUADRANGLE: Center Point
DISTRICT: McClellan Shawn A. COUNTY: Doddridge
SURFACE OWNER: Glaspell ACREAGE: 100
ROYALTY OWNER: Minda Allen LEASE NO: ACREAGE: 100
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,700' TVD 21,400' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

07/19/2024

Antero Resources Corporation



Leases	
A	Minda Allen
B	Morris Mountaineer Oil & Gas LLC
C	Shawn Gaspell
D	Johnnie Huy Rominger
E	CNX Gas Company, LLC
F	Acropolis, Inc.
G	AMP IV, LP
H	Cliff Wilson & Opal Willson
I	Brian A. Moreno & Diane P. Blanchette
J	Clyde Ford, III
K	Romona L. Clauson
L	Burnetta C. Hoskinson
M	Ollie M. Ford, et al
N	Roy Hoskinson & Faye Hoskinson
O	Peter Ash
P	Antero Minerals, LLC
Q	Arthur G. Doak, et ux
R	R. Clyde Roberts, et al
S	Mary A. Murphy Simons

ID	TM-Par	Owner	Bk/Pg	Acres
1	17-3.3	Shawn A. Gaspell	283/601	100.00
2	17-3.6	Shawn A. Gaspell	283/601	13.05
3	17-10	Kathryn Renee Blessing, et al	W39/506	48.50
4	17-3.2	Shawn A. Gaspell	283/601	135.00
5	17-3.4	Shawn A. Gaspell	283/601	17.50
6	17-18	Faith L. Fry	238/167	80.14
7	17-19	Shawn A. Gaspell	372/215	13.82
8	17-20	Shawn A. Gaspell	372/215	12.07
9	17-25	Shawn A. Gaspell	372/215	7.89
10	17-21	Patrick M. MacMillan	379/615	30.69
11	22-2	Timothy C. Pitts	W100/240	45.13
12	22-3	Timothy C. Pitts	W100/240	29.89
13	22-4	Debra Mellott	249/417	17.50
14	22-3.1	George D. Payton & Donald V. Sandstrom	236/354	24.11
15	23-8	Steven R. Chipps & Nathaniel Hoskinson	432/200	40.99
16	6-16	Brian A. Moreno & Diane P. Blanchette	389/382	104.80
17	22-6	Robert F. & Deborah C. Fetty	304/421	1.30
18	22-5	Jerry W. Harman	282/436	27.00
19	23-12	Jerry W. Harman	282/436	73.00
20	6-17	Clyde M. Ford III	234/474	65.6
21	7-1	Steven M. & Mary Ellen Perna	286/506	132.54
22	7-5	David A. Hoskinson	168/787	10.23

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FILE NO: 259-30-M-23
DRAWING NO: Dodrill 1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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



DATE: April 25 2024
OPERATOR'S WELL NO. Dodrill 1H
API WELL NO
47 - 017 - 06979
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Proposed: 1,222' Existing: 1,249' WATERSHED: McElroy Creek QUADRANGLE: Center Point
DISTRICT: McClellan Shawn A. Glaspell COUNTY: Doddridge
SURFACE OWNER: Glaspell ACREAGE: 100
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