



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

Thursday, June 13, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Walshin Unit 1H
47-103-03650-00-00

Extended Lateral

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.

A blue ink signature of James A. Martin.

James A. Martin
Chief

Operator's Well Number: Walshin Unit 1H
Farm Name: Dallison Lumber, Inc.
U.S. WELL NUMBER: 47-103-03650-00-00
Horizontal 6A New Drill
Date Modification Issued: 6/13/2024

Promoting a healthy environment.

06/14/2024

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

1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzel Green Pine Grove 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Walshin Unit 1H MOD Well Pad Name: Galmish Pad

3) Farm Name/Surface Owner: Dallison Lumber Inc. Public Road Access: McKimmie Ridge Road

4) Elevation, current ground: As-Built 1160.7 Elevation, proposed post-construction: _____

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: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26500' MD

11) Proposed Horizontal Leg Length: 15836' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 45', 130'

13) Method to Determine Fresh Water Depths: 47103025550000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1961'

15) Approximate Coal Seam Depths: N/A

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	<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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300'	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	26500'	26500'	CTS, 5750 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"	0.375"	2250	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"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

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 fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water 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): 64.40 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.53 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 G/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.

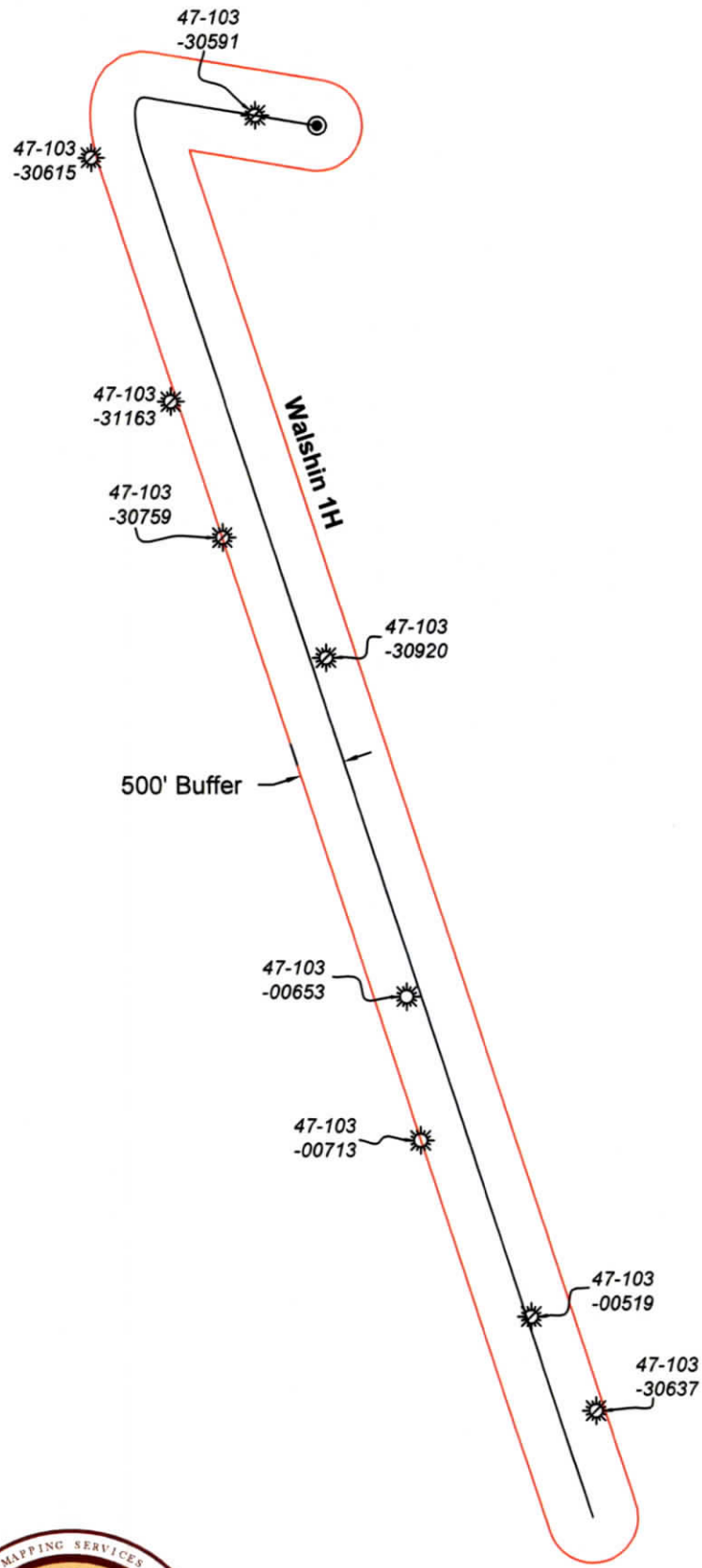
SMW
06/14/2024
5-30-24

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



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Environmental Protection

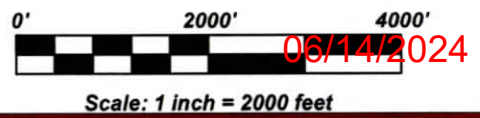


Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: J. McNemar
RESEARCH: J. Miller	PREPARED: March 12, 2024
SURVEYED: Dec. 2016	PROJECT NO: 134-34-G-18
FIELD CREW: C.L., K.M.	DRAWING NO: Walshin 1H AOR

Sheet 1 of 1



UWI (APNNum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Produced Formation(s) not perf'd
47103305910000	C E GRIM 1	5235	UNKNOWN	UNKNOWN	2,898		Big Injun, Gordon Stray	Weir, Berea, Benson, Alexander
47103306150000	JOHN C. MCELLOWNEY 1	1678	PITTSBURGH&W VA GAS	PITTSBURGH&W VA GAS	2,837		Undetermined Unit, Gordon Stray	Weir, Berea, Benson, Alexander
47103311650000	F C HEADLEY 1	5314	EQUITABLE GAS CO	EQUITABLE GAS CO				
47103307590000	C AMOS LONG	1	UNKNOWN	UNKNOWN				
47103309200000	C A LONG	5645	HOPE NATURAL GAS	HOPE NATURAL GAS	2,626		Undetermined, 1st Cow, 1st Salt, Big Injun, Gordon Stray, Fourth	Weir, Berea, Benson, Alexander
47103006530000	P HAUGHT	23	ROSS & WHARTON GAS CO	CONSOL GAS SUPPLY CRP	2,511		Big Injun, Gordon Stray, Gordon	Weir, Berea, Benson, Alexander
47103007130000	S CUNNINGHAM	5241	DIVERSIFIED PRODUCTION LLC	HOPE NATURAL GAS	1,585			Weir, Berea, Benson, Alexander
47103005190000	C P MCCOY HRS	9	HOPE NATURAL GAS	HOPE NATURAL GAS	2,678		Salt Sands, Maxton, Fourth	Weir, Berea, Benson, Alexander

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Environmental Protection

06/14/2024

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
Q: Robert Barry Myers, Jr. Lease Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	300A/0634
T: Freeda Marie Brown Lease Freeda Marie Brown	Antero Resources Corporation	1/8+	308A/0508
A: Clarice Ann Brown LeMasters Lease Clarice Ann Brown LeMasters	Antero Resources Corporation	1/8+	308A/0488
B: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Production Company LLC Antero Exchange Properties LLC	SWN Production Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	157A/0640 177A/0533 0013/0311
C: Three Rivers Royalty II, LLC Lease Three Rivers Royalty II, LLC CNX Gas Company LLC	CNX Gas Company LLC Antero Resources Corporation	1/8+ Assignment	293A/0373 300A/0159
B: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Production Company LLC Antero Exchange Properties LLC	SWN Production Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	157A/0640 177A/0533 0013/0311
A: Clarice Ann Brown LeMasters Lease Clarice Ann Brown LeMasters	Antero Resources Corporation	1/8+	308A/0488
D: Clarice Ann Brown LeMasters Lease Clarice Ann Brown LeMasters	Antero Resources Corporation	1/8+	308A/0488
E: Bounty Minerals, LLC Lease Bounty Minerals, LLC	Antero Resources Corporation	1/8+	296A/0314
G: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	323A/0541
K: Eddie D. Dallison Lease Eddie D. Dallison	Antero Resources Corporation	1/8+	307A/0447
B: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Production Company LLC Antero Exchange Properties LLC	SWN Production Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	157A/0640 177A/0533 0013/0311
L: Three Rivers Royalty II, LLC Lease Three Rivers Royalty II, LLC CNX Gas Company LLC	CNX Gas Company, LLC Antero Resources Corporation	1/8+ Assignment	293A/0373 300A/0159

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>M: Thomas Cunningham, et ux Lease</u>			
Thomas Cunningham, et ux	L.G. Robinson	1/8	0048/0569
L.G. Robinson	South Penn Oil Company	Assignment	0049/0659
South Penn Oil Company	Hope Natural Gas Company	Assignment	009A/0230
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc.	Assignment	076A/0232
Eastern States Oil & Gas Inc.	Equitable Production – Eastern States Inc.	Name Change	0013/0014
Equitable Production – Eastern States Inc.	Equitable Production Company	Merge	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
<u>O: Ridgetop Appalachia, LLC Lease</u>			
Ridgetop Appalachia, LLC	Antero Resources Corporation	1/8+	304A/0061
<u>M: Thomas Cunningham, et ux Lease</u>			
Thomas Cunningham, et ux	L.G. Robinson	1/8	0048/0569
L.G. Robinson	South Penn Oil Company	Assignment	0049/0659
South Penn Oil Company	Hope Natural Gas Company	Assignment	009A/0230
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc.	Assignment	076A/0232
Eastern States Oil & Gas Inc.	Equitable Production – Eastern States Inc.	Name Change	0013/0014
Equitable Production – Eastern States Inc.	Equitable Production Company	Merge	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
<u>O: Ridgetop Appalachia, LLC Lease</u>			
Ridgetop Appalachia, LLC	Antero Resources Corporation	1/8+	304A/0061

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Environmental Protection

*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.

**Co-tenancy 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.

06/14/2024

**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
<u>P: George H. & A. A. Umstead Lease</u>				
	George H. & A.A. Umstead	George E. Foster	1/8	0049/0213
	George E. Foster	South Penn Oil Company	Assignment	0055/0002
	South Penn Oil Company	Hope Natural Gas Company	Assignment	138A/0641
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
	Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
	CNG Transmission Corporation	Eastern States Oil & Gas Inc.	Assignment	076A/0232
	Eastern States Oil & Gas Inc.	Equitable Production - Eastern States Inc.	Name Change	0013/0014
	Equitable Production - Eastern States Inc.	Equitable Production Company	Name Change	0013/0014
	Equitable Production Company	EQT Production Company	Name Change	0013/0014
	EQT Production Company	Antero Resources Corporation	Assignment	230A/0801

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****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 permit **RECEIVED** approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following: Office of Oil and Gas

- 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

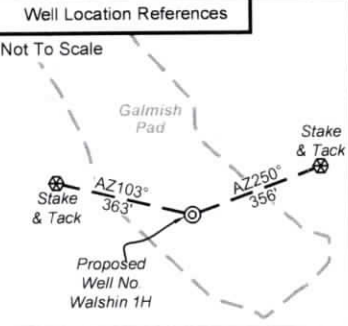
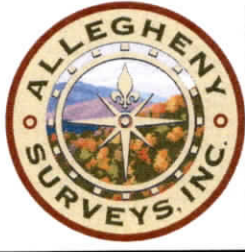
MAY 24 2024

WV Department of
Environmental Protection

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.

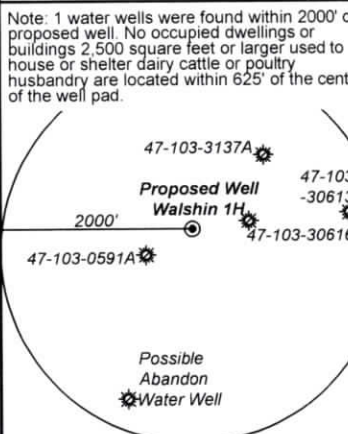
Well Operator: Antero Resources Corporation
By: Tim Rady
Its: Senior Vice President of Land

Antero Resources
Well No. Walshin 1H
BHL MOD
Antero Resources Corporation



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



	Bearing	Dist.
L1	S 09°17' W	1,255.6'
L2	S 58°06' W	1,348.6'
L3	N 88°40' W	1,645.5'
L4	N 39°36' E	2,738.3'
L5	S 80°03' W	1,950.0'

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

8,118' to Top Hole
 4,929' to Bottom Hole

TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

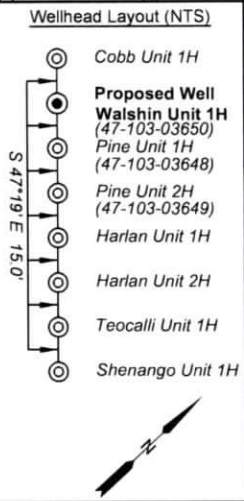
Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Walshin Unit 1H Top Hole coordinates are
 N: 394,597.30' Latitude: 39°34'38.08"
 E: 1,663,039.56' Longitude: 80°41'43.68"
 Bottom Hole coordinates are
 N: 379,204.80' Latitude: 39°32'06.35"
 E: 1,666,028.83' Longitude: 80°41'02.91"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,380,890.460m N: 4,376,216.219m
 E: 526,170.149m E: 527,158.960m
 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. Walshin Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,372,255.62'
 E: 1,726,227.78'
 Point of Entry Coordinates
 N: 14,371,886.99'
 E: 1,724,313.57'
 Bottom Hole Coordinates
 N: 14,356,920.26'
 E: 1,729,472.46'

See Detail 1 (Page 2)

See Detail 2 (Page 2)

See Detail 3 (Page 2)



FILE NO: 134-34-G-18
 DRAWING NO: Walshin 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. Walshin 1H
 API WELL NO
 47 - 103 - 03650
 STATE COUNTY PERMIT

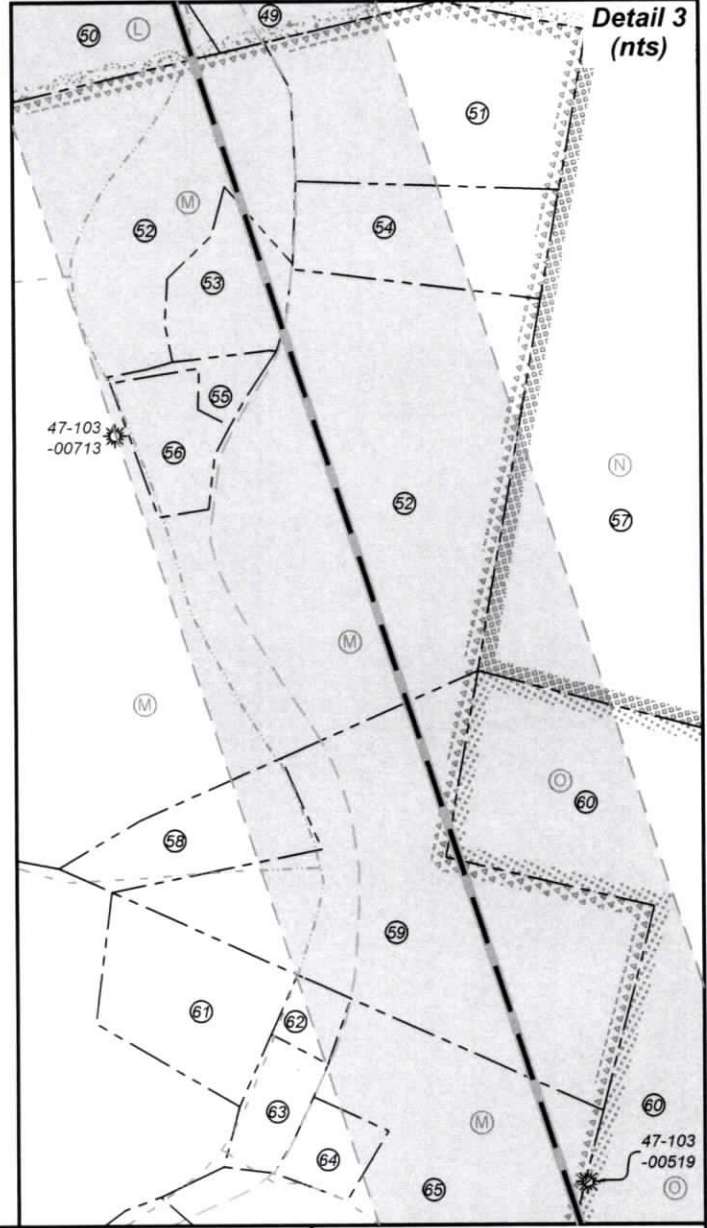
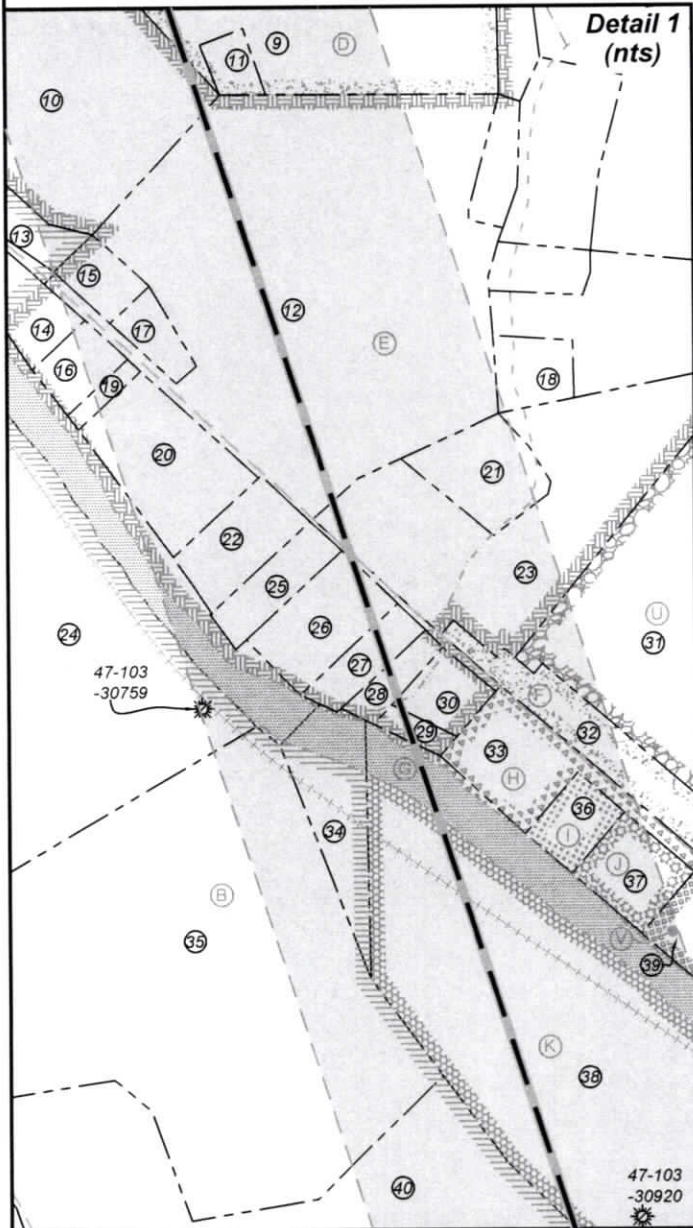
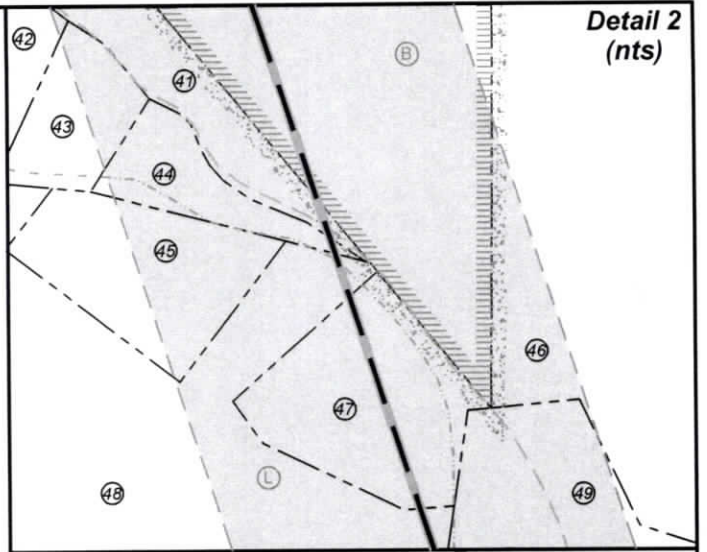
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel 06/14/2024
 SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
 ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL Mod 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,500' 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

Antero Resources
Well No. Walshin 1H
BHL MOD
Antero Resources Corporation



FILE NO: 134-34-G-18
DRAWING NO: Walshin 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. Walshin 1H
API WELL NO
47 - 103 - 03650
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek

QUADRANGLE: Pine Grove

DISTRICT: Green
Dallison
SURFACE OWNER: Lumber Inc.

COUNTY: Wetzel 06/14/2024

ROYALTY OWNER: Robert Barry Myers, Jr.

LEASE NO: ACREAGE: 25

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL Mod

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,500' MD 7,600' TVD

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

DESIGNATED AGENT: Kevin Ellis
ADDRESS: 535 White Oaks Blvd
Bridgeport, WV 26330



Leases	
A	Clance Ann Brown LeMasters
B	Chesapeake Appalachia, LLC
C	Three Rivers Royalty II, LLC
D	Clarice Ann Brown LeMasters
E	Bounty Minerals, LLC
F	WVDOH
G	WVDNR
H	WVDOH
I	Michael W. Long, et ux
J	Michael W. Long, et ux
K	Eddie D. Dallison
L	Three Rivers Royalty II, LLC
M	Thomas Cunningham, et ux
N	J.L. Newman
O	Ridgetop Appalachia, LLC
P	George H. & A. A. Umstead
Q	Robert Barry Myers, Jr.
R	Robert Barry Myers, Jr.
S	Anix Energy, LLC
T	Freeda Marie Brown
U	James E. Coen, et ux
V	Michael W. Long, et ux

ID	TM-Par	Owner	Bk/Pg	Acres
1	14-9	Dallison Lumber, Inc.	474/290	25.00
2	14-12	Freeda M. Brown	WB79/104	70.06
3	14-8	Clarice Ann Brown Lemasters	223/127	9.00
4	14-7	Clarice Ann Brown Lemasters	223/127	44.00
5	14-6	Antero Midstream, LLC	491/484	29.56
6	19-55	Antero Midstream LLC	491/484	63.90
7	14-5	Donald L. & Myrna R. Mason	390/62	117.00
8	14-16	Antero Midstream, LLC	491/484	54.00
9	14-17	Clarice Ann Brown Lemasters	223/127	42.00
10	14-72	Joshua Curry Gump	420/795	12.16
11	14-28	Grimm Cemetery	---/---	0.49
12	14-30.14	Gail F. & Barbara L. Headley	384/233	20.56
13	14-25	Joshua Curry Gump	420/795	0.55
14	14-27	John R. & Sheryl D. Greathouse	444/300	1.37
15	14-30.4	Eddie D. & Kim L. Dallison	444/866	0.68
16	14-30.3	Eddie D. & Kim L. Dallison	444/866	0.33
17	14-30	Joshua Curry Gump	420/795	0.56
18	14-30.2	Alan & Debra Miller	310/425	0.81
19	14-30.12	Eddie D. & Kim L. Dallison	444/866	0.19
20	14-30.13	Gail F. & Barbara L. Headley	384/233	3.22
21	14-38.6	Jessica Carolyn Wright	415/320	1.51
22	14-30.9	Joseph E. Tracy	373/192	1.32
23	14-38	James Edward & Shawn L. Coen	399/394	9.20
24	14-36	Dominion Gathering & Processing, Inc.	460/781	57.41
25	14-38.2	Marilyn K. Daugherty	395/311	0.90
26	14-38.3	Barbara Sue Noland	356/444	1.60
27	14-38.4	Harold L. & Dianna Brinker	441/870	0.79
28	14-38.5	Virginia Dare Tracy	W31/454	0.50
29	14-38.1	Virginia Dare Tracy	W31/454	0.32
30	14-37	Virginia Dare Tracy	W31/454	0.75
31	14-39	James Edward & Shawn L. Coen	397/542	30.95
32	14-39.1	WV Dept. of Highways	217/346	2.60
33	14-46.1	WV Dept. of Highways	216/129	2.32
34	14-70	Raymond P. & Pamela J. Gaston	429/231	2.10
35	14-65	Hornet Midstream Pipeline, LLC	453/326	22.90
36	14-46.5	George David Sell	395/449	0.77
37	14-46	William D. Dulaney	397/303	1.15
38	14-71	Dallison Lumber, Inc.	365/678	34.50
39	14-46.4	3B Development, LLC	395/447	1.21
40	14-73	Tina D. Dallison	452/207	59.17
41	18-2	Michael E. Goodrich	380/383	72.83
42	18-2.6	Heath L. Tennant	403/77	3.55
43	18-2.2	Lucky A. Price & Darlene J. Price	395/124	1.90
44	18-2.8	Lucky A. Price & Darlene J. Davis-Price	423/431	2.13
45	18-2.12	Jeffery E. Derby & Rikki J. Miller	457/158	4.45
46	18-2	Michael E. Goodrich	380/383	72.83
47	18-2.5	Howard B. & Roxie J. Rice	333/486	5.39
48	18-2.7	Howard B. & Roxie J. Rice	335/520	67.70
49	18-3	Kenneth K. Parks	W125/832	62.45
50	18-2.4	Andrew C. Brown, Jr.	401/340	16.19
51	18-4.1	Robert W. & Julie D. Cunningham	441/121	7.50
52	18-4	Barbara D. Cunningham	291/112	212.80
53	18-4.4	Brian James & Leslie Cunningham	467/26	2.26
54	18-4.2	Robert W. & Julie D. Cunningham	441/121	3.95
55	18-4.3	Franklin & Pamela K. Cunningham	467/18	0.66
56	18-5	Franklin Cunningham	291/111	1.80
57	18-3.1	Dominion Gathering & Processing, Inc.	460/781	150.00
58	18-7.1	Barbara D. Cunningham	291/112	2.65
59	18-7	Tommy A. Bassett	439/617	13.35
60	18-10	Paul U. & Betty A. Garber Revocable Living Trust	474/722	150.00
61	18-6.1	Tommy A. Bassett	439/617	4.19
62	18-9.3	Herman K. & Bonita J. Ring	315/466	0.63
63	18-9.1	Herman K. & Bonita J. Ring	311/68	1.22
64	18-9.2	Charles D. Sr. & Cecelia F. Moore	436/311	1.01
65	18-9	Gordon F. Yost, et al	405/237	74.47
66	5-21-3	Dallison Lumber	419/596	50.00
67	4-21-3	WV Conservation Commission	207/239	5,104.5

FILE NO: 134-34-G-18
 DRAWING NO: Walshin 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

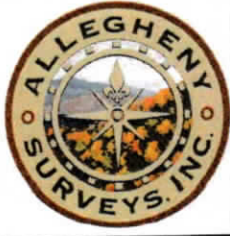
DATE: April 25, 2024
 OPERATOR'S WELL NO. Walshin 1H
 API WELL NO
 47 - 103 - 03650
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel 06/14/2024
 SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
 ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL Mod 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,500' 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

Antero Resources
Well No. Walshin 1H
BHL MOD
Antero Resources Corporation

Page 1 of 3



Well Location References

Not To Scale



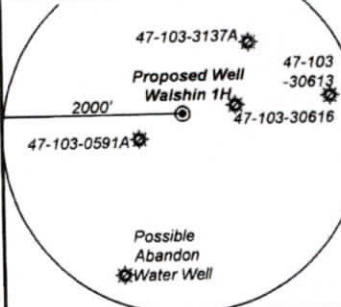
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



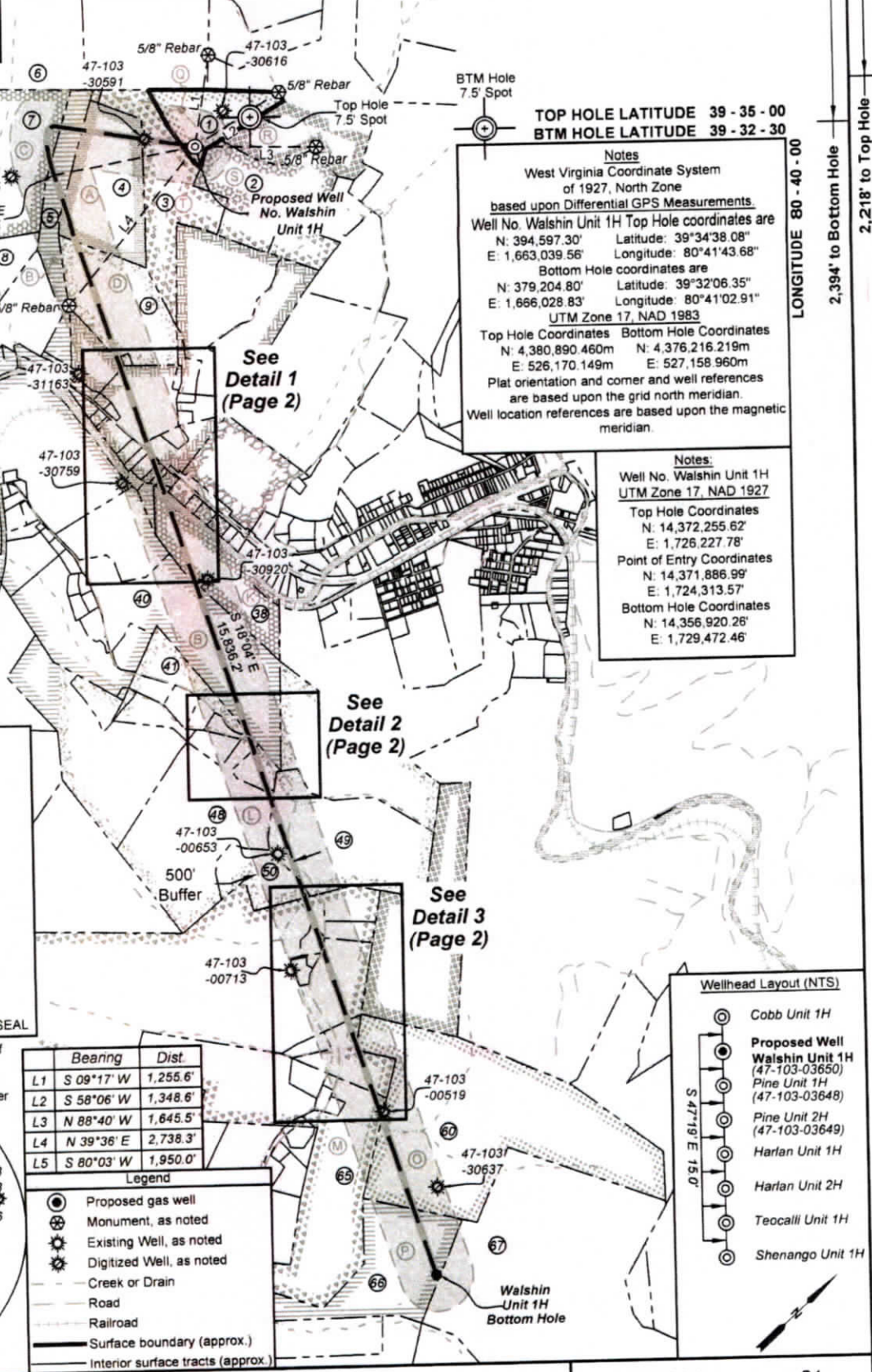
SEAL

Note: 1 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.



	Bearing	Dist.
L1	S 09°17' W	1,255.6'
L2	S 58°06' W	1,348.6'
L3	N 88°40' W	1,645.5'
L4	N 39°36' E	2,738.3'
L5	S 80°03' W	1,950.0'

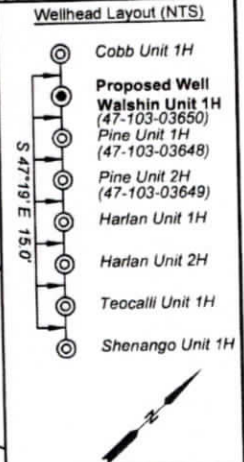
- Legend**
- Proposed gas well
 - ⊗ Monument, as noted
 - ⊙ Existing Well, as noted
 - ⊛ Digitized Well, as noted
 - Creek or Drain
 - Road
 - Railroad
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)



TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Walshin Unit 1H Top Hole coordinates are
 N: 394,597.30' Longitude: 80°41'43.68"
 E: 1,663,039.56'
 Bottom Hole coordinates are
 N: 379,204.80' Longitude: 80°41'02.91"
 E: 1,666,028.83'
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,380,890.460m N: 4,376,216.219m
 E: 526,170.149m E: 527,158.960m
 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. Walshin Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,372,255.62'
 E: 1,726,227.78'
 Point of Entry Coordinates
 N: 14,371,886.99'
 E: 1,724,313.57'
 Bottom Hole Coordinates
 N: 14,356,920.26'
 E: 1,729,472.46'



FILE NO: 134-34-G-18
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 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. Walshin 1H
 API WELL NO
 47 - 103 - 03650
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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06/14/2024

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