

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

RECEIVED  
Office Of Oil and Gas

OCT 08 2024

WV Department of  
Environmental Protection

API 47 - 017 - 06958 County Doddridge District West Union  
Quad West Union Pad Name Genevieve Field/Pool Name -----  
Farm name Antero Resources Corp Well Number Dixie Unit 1H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4350493.082m Easting 518820.785m  
Landing Point of Curve Northing 4350260.03m Easting 518733.53m  
Bottom Hole Northing 4347925.536m Easting 519500.674m

Elevation (ft) 886' GL Type of Well  New  Existing Type of Report  Interim  Final  
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)

Air - Foam & 4% KCL

Mud - Polymer

Date permit issued 9/11/2023 Date drilling commenced 12/12/2023 Date drilling ceased 4/2/2024  
Date completion activities began 5/25/2024 Date completion activities ceased 6/29/2024  
Verbal plugging (Y/N) N/A 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 414', 516' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1468' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:

**APPROVED**

SK 12-4-24  
12/13/2024

API 47-017 - 06958 Farm name Antero Resources Corp Well number Dixie Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	624'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3209'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15380'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6763.5'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>2</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.18	241	0'	8 Hrs.
Surface	Class C	570 sx	15.8	1.16	661	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1240 sx	15.8	1.16	1438	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	2103 sx, 2495 sx (Tail)	8.33, 15.2(Tail)	1.31 (Tail)	3269	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17200' MD, 7000' TVD (BHL), 6559' (Deepest Point Drilled) Loggers TD (ft) 17200' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 5069'

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 \_\_\_\_\_

Conductor - 0  
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface  
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface  
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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 N/A

APPROVED 12/13/2024 12-7-24



WR-35  
Rev. 8/23/13

API 47- 017 - 06958 Farm name Antero Resources Corp Well number Dixie Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6505' (TOP) TVD	6998' (TOP) MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2557 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 13873.86 mcfpd Oil 145.81 bpd NGL --- bpd Water 593.49 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor H & P Drilling  
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services  
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Halliburton Energy Services  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Stimulating Company Halliburton  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373  
Signature Carly Marvel Title Permitting Agent Date 8/23/2024

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

APPROVED 12/13/2024

OCT 08 2024

WV Department of  
Environmental Protection

API 47-017-06958 Farm Name Antero Resources Corporation Well Number Dixie Unit 1A

**Exhibit 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/25/2024	15295.3	15251.2	36	Marcellus
2	5/26/2024	15212.6748	15048.0488	36	Marcellus
3	5/26/2024	15012.72358	14848.0976	36	Marcellus
4	5/27/2024	14812.77236	14648.1463	36	Marcellus
5	5/28/2024	14612.82114	14448.1951	36	Marcellus
6	5/29/2024	14412.86992	14248.2439	36	Marcellus
7	5/29/2024	14212.9187	14048.2927	36	Marcellus
8	5/30/2024	14012.96748	13848.3415	36	Marcellus
9	5/31/2024	13813.01626	13648.3902	36	Marcellus
10	6/1/2024	13613.06504	13448.439	36	Marcellus
11	6/1/2024	13413.11382	13248.4878	36	Marcellus
12	6/2/2024	13213.1626	13048.5366	36	Marcellus
13	6/2/2024	13013.21138	12848.5854	36	Marcellus
14	6/2/2024	12813.26016	12648.6341	36	Marcellus
15	6/3/2024	12613.30894	12448.6829	36	Marcellus
16	6/3/2024	12413.35772	12248.7317	36	Marcellus
17	6/3/2024	12213.4065	12048.7805	36	Marcellus
18	6/4/2024	12013.45528	11848.8293	36	Marcellus
19	6/4/2024	11813.50407	11648.878	36	Marcellus
20	6/4/2024	11613.55285	11448.9268	36	Marcellus
21	6/5/2024	11413.60163	11248.9756	36	Marcellus
22	6/5/2024	11213.65041	11049.0244	36	Marcellus
23	6/6/2024	11013.69919	10849.0732	36	Marcellus
24	6/6/2024	10813.74797	10649.122	36	Marcellus
25	6/6/2024	10613.79675	10449.1707	36	Marcellus
26	6/7/2024	10413.84553	10249.2195	36	Marcellus
27	6/7/2024	10213.89431	10049.2683	36	Marcellus
28	6/7/2024	10013.94309	9849.31707	36	Marcellus
29	6/8/2024	9813.99187	9649.36585	36	Marcellus
30	6/8/2024	9614.04065	9449.41463	36	Marcellus
31	6/8/2024	9414.089431	9249.46341	36	Marcellus
32	6/8/2024	9214.138211	9049.5122	36	Marcellus
33	6/8/2024	9014.186992	8849.56098	36	Marcellus
34	6/9/2024	8814.235772	8649.60976	36	Marcellus
35	6/9/2024	8614.284553	8449.65854	36	Marcellus
36	6/9/2024	8414.333333	8249.70732	36	Marcellus
37	6/10/2024	8214.382114	8049.7561	36	Marcellus
38	6/10/2024	8014.430894	7849.80488	36	Marcellus
39	6/10/2024	7814.479675	7649.85366	36	Marcellus
40	6/11/2024	7614.528455	7449.90244	36	Marcellus
41	6/12/2024	7414.577236	7249.95122	36	Marcellus
42	6/12/2024	7214.626016	7050	36	Marcellus

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API 47-017-06958 Farm Name Antero Resources Corporation Well Number Dixie Unit 1H  
Department of Environmental Protection

**EXHIBIT 2**

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	5/25/2024	94.9	8925.8	6263.2	3972	164140	5658.9	N/A
2	5/26/2024	95.7	9016.1	6693.9	3817.705	416460	7516.7	N/A
3	5/26/2024	96.9	8728.3	7012.4	3869	415280	6757.5	N/A
4	5/27/2024	94.8	9085.2	6737.0	3340.889	410820	7017.5	N/A
5	5/28/2024	94.1	9072.6	6767.6	3386.052	415280	7060.1	N/A
6	5/29/2024	96.2	8969.3	5647.4	3875	417140	7017.2	N/A
7	5/29/2024	83.9	8285.3	6410.9	4295	417540	7178.1	N/A
8	5/30/2024	97.0	9526.7	6602.3	3480	416120	6701.3	N/A
9	5/31/2024	96.5	9309.5	7153.2	3467.598	418440	7096.7	N/A
10	6/1/2024	98.0	9048.5	6440.4	3892	418500	6942.9	N/A
11	6/1/2024	97.1	9418.7	6408.3	3677	418620	7018.4	N/A
12	6/2/2024	98.0	9376.0	6644.7	3505	421500	6911.0	N/A
13	6/2/2024	97.1	9016.0	6479.5	3219.435	418680	7064.2	N/A
14	6/2/2024	98.0	8874.1	6582.2	3561	419780	6964.0	N/A
15	6/3/2024	97.1	8825.5	6258.0	3329	400620	6530.4	N/A
16	6/3/2024	96.8	9035.4	7255.0	3507.434	419020	7107.5	N/A
17	6/3/2024	96.3	8873.8	6439.0	3537	396060	6634.9	N/A
18	6/4/2024	96.2	8915.0	6405.4	3942	397300	6769.3	N/A
19	6/4/2024	98.1	8923.0	6734.0	3805.524	411920	6782.6	N/A
20	6/4/2024	94.0	8711.3	6947.4	3436.163	398790	6793.8	N/A
21	6/5/2024	95.9	8918.0	6730.7	3508.668	391020	6887.6	N/A
22	6/5/2024	95.8	8778.2	6406.2	3333.21	403100	6500.7	N/A
23	6/6/2024	93.7	9028.7	6491.1	3242.952	404610	6903.5	N/A
24	6/6/2024	96.9	8892.0	6848.6	3539.532	410960	7017.5	N/A
25	6/6/2024	94.6	8726.8	6727.9	3543.5	399270	6395.2	N/A
26	6/7/2024	97.1	8689.0	6452.5	3548.597	397510	6785.9	N/A
27	6/7/2024	96.2	8989.1	6942.0	3520.2	401980	6878.5	N/A
28	6/7/2024	94.8	8987.1	7197.0	4652.172	211740	5623.0	N/A
29	6/8/2024	96.6	8912.2	7125.6	3881.093	408520	7136.1	N/A
30	6/8/2024	96.5	8650.0	6540.7	3704.263	403630	6924.0	N/A
31	6/8/2024	85.6	8795.0	6893.7	3755.229	400090	7598.6	N/A
32	6/8/2024	92.7	8097.8	6491.8	3426.734	407530	6741.2	N/A
33	6/8/2024	97.7	8074.0	6010.5	3889.696	399580	6468.9	N/A
34	6/9/2024	98.1	7901.2	4924.4	4014.46	397100	6799.3	N/A
35	6/9/2024	95.8	8364.8	6089.6	3772.504	403940	6753.5	N/A
36	6/9/2024	97.5	8256.8	5998.4	3698.957	394150	6520.0	N/A
37	6/10/2024	98.1	8319.6	6946.6	3693.362	402680	6677.1	N/A
38	6/10/2024	97.7	8410.8	6571.2	4355	400060	6695.8	N/A
39	6/10/2024	97.1	7872.4	6648.1	3664.887	407080	6550.8	N/A
40	6/11/2024	97.6	8005.9	7075.3	3999	403270	6692.2	N/A
41	6/12/2024	97.5	8249.5	7100.1	3876.22	399050	6536.5	N/A
42	6/12/2024	97.6	8399.4	7283.2	3600.642	398030	6685.8	N/A
	<b>AVERAGE</b>	<b>96</b>	<b>8,744</b>	<b>6,604</b>	<b>3,694</b>	<b>16,656,910</b>	<b>285,295</b>	<b>TOTAL</b>

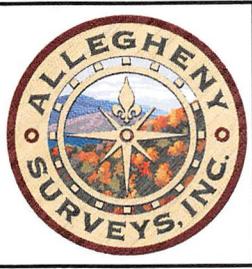
**EXHIBIT 3**

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone, Occ Shale	100	200	100	200
Silty Shale, Occ Sandstone	200	250	200	250
Silty Sandstone, Occ Shale	250	550	250	550
Silty Shale, Occ Sandstone	300	700	300	700
Sandy Siltstone, Occ Shale	550	700	550	700
Silty Sandstone	700	800	700	800
Sandstone, Occ Siltstone	800	1,000	800	1,000
Sandy Siltstone, Occ Shale	1,000	1,100	1,000	1,100
Silty Sandstone	1,100	1,250	1,100	1,250
Sandy Siltstone, rr Coal	1,250	1,350	1,250	1,350
Silty Sandstone	1,350	1,450	1,350	1,450
Silty Sandstone, tr Coal	1,450	1,600	1,450	1,600
Sandy Siltstone	1,600	1,800	1,600	1,800
Sandy Siltstone, tr Shale	1,800	1,820	1,800	1,820
Shaley Siltstone, tr Sandstone	1,820	1,774	1,820	1,774
Big Lime	1,804	2,452	1,774	2,452
Fifty Foot Sandstone	2,452	2,539	2,422	2,539
Gordon	2,539	2,754	2,509	2,754
Fifth Sandstone	2,754	2,863	2,724	2,863
Bayard	2,863	3,647	2,833	3,651
Speechley	3,647	3,905	3,621	3,914
Balltown	3,905	4,408	3,884	4,448
Bradford	4,408	4,847	4,418	4,930
Benson	4,847	5,121	4,900	5,222
Alexander	5,121	6,332	5,192	6,609
Sycamore	6,172	6,302	6,392	6,579
Middlesex	6,302	6,430	6,579	6,794
Burkett	6,430	6,458	6,794	6,860
Tully	6,458	6,505	6,860	6,998
Marcellus	6,505	NA	6,998	NA

\*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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Environmental Protection

**Antero Resources**  
**Well No. Dixie 1H**  
**As-Drilled**  
**Antero Resources Corporation**



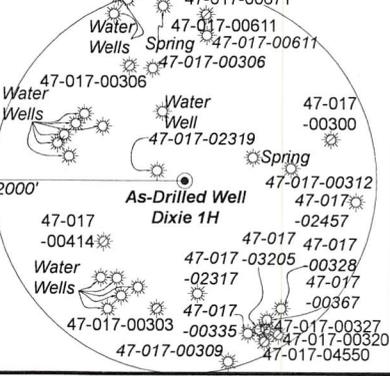
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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: 14 water wells and 2 springs 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.

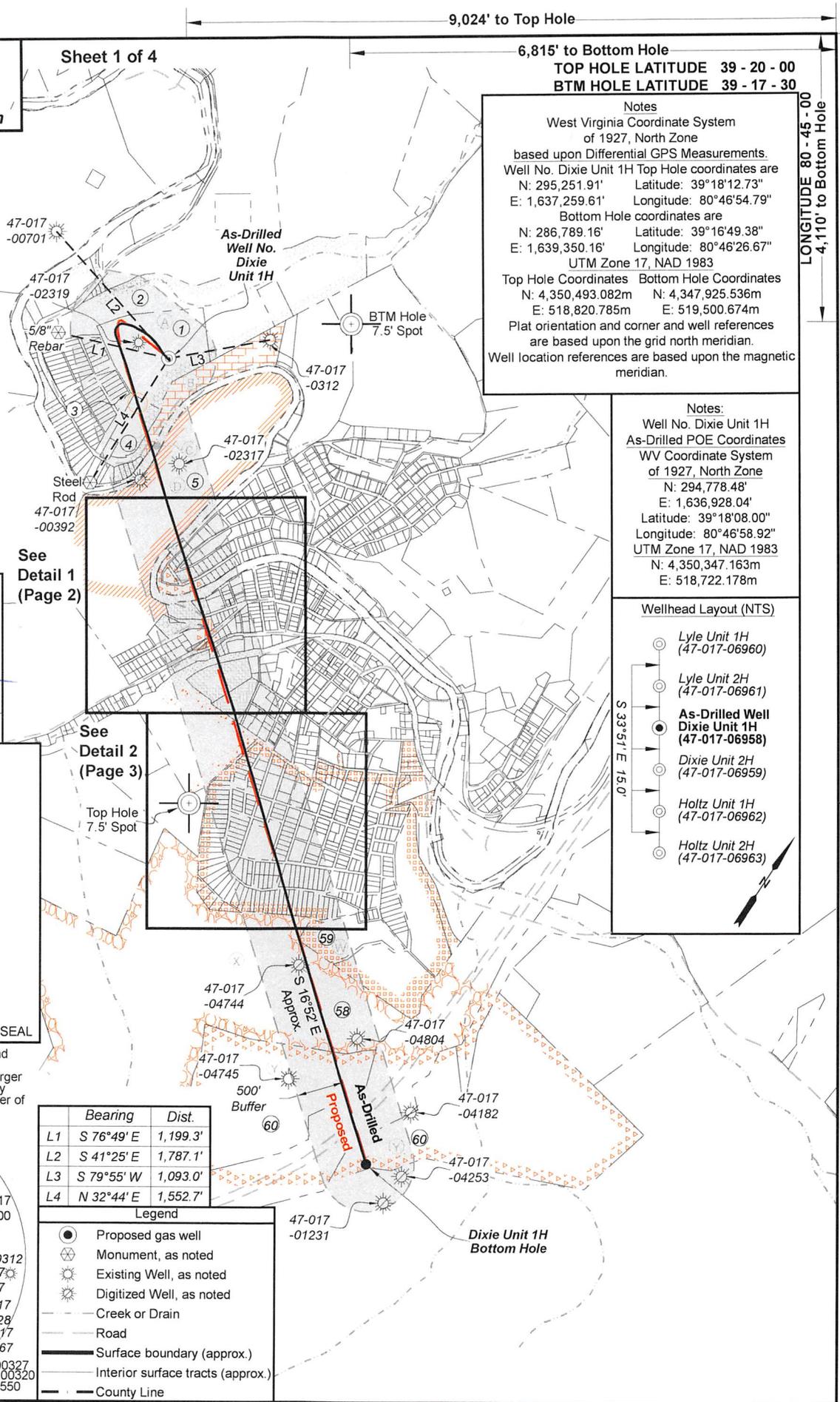


Bearing	Dist.
L1 S 76°49' E	1,199.3'
L2 S 41°25' E	1,787.1'
L3 S 79°55' W	1,093.0'
L4 N 32°44' E	1,552.7'

- 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.)
  - County Line

See Detail 1 (Page 2)

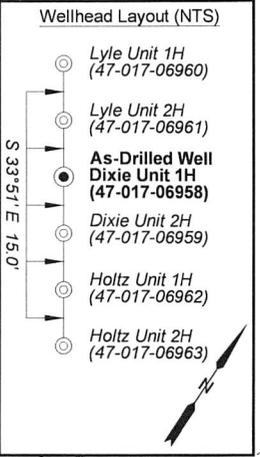
See Detail 2 (Page 3)



9,024' to Top Hole  
 6,815' to Bottom Hole  
 TOP HOLE LATITUDE 39 - 20 - 00  
 BTM HOLE LATITUDE 39 - 17 - 30

**Notes**  
 West Virginia Coordinate System of 1927, North Zone  
 based upon Differential GPS Measurements.  
 Well No. Dixie Unit 1H Top Hole coordinates are  
 N: 295,251.91' Latitude: 39°18'12.73"  
 E: 1,637,259.61' Longitude: 80°46'54.79"  
 Bottom Hole coordinates are  
 N: 286,789.16' Latitude: 39°16'49.38"  
 E: 1,639,350.16' Longitude: 80°46'26.67"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,350,493.082m N: 4,347,925.536m  
 E: 518,820.785m E: 519,500.674m  
 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. Dixie Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone  
 N: 294,778.48'  
 E: 1,636,928.04'  
 Latitude: 39°18'08.00"  
 Longitude: 80°46'58.92"  
 UTM Zone 17, NAD 1983  
 N: 4,350,347.163m  
 E: 518,722.178m



FILE NO: 57-30-WU-14  
 DRAWING NO: Dixie Unit 1H As-Driled Well Plat  
 SCALE: 1" = 1500'  
 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: October 4 20 24  
 OPERATOR'S WELL NO. Dixie Unit 1H  
 API WELL NO  
 47 - 017 - 06958  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
 DISTRICT: West Union Antero COUNTY: Doddridge  
 SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,506' TVD 15,380' 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

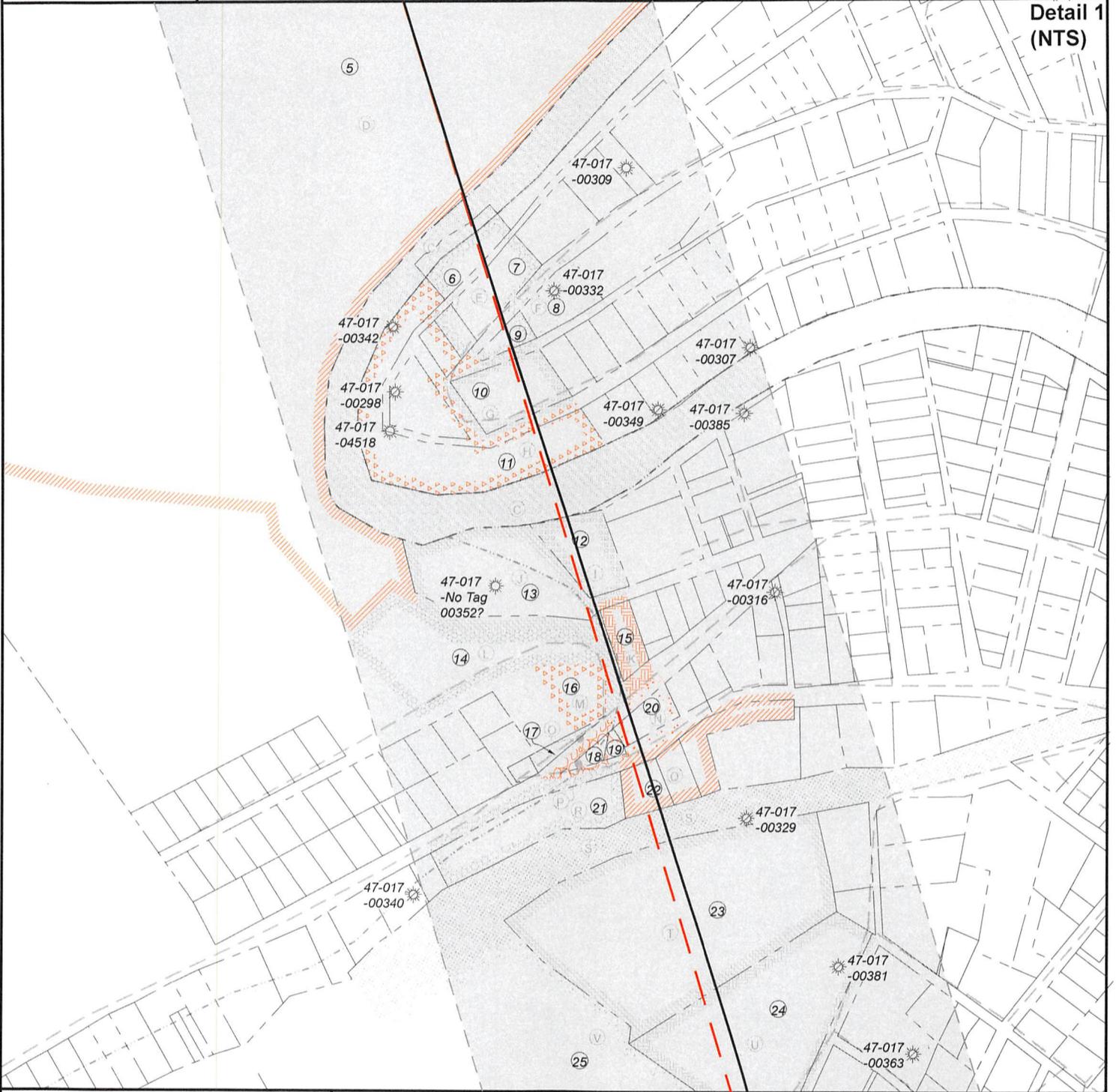
10,853' to Top Hole

LONGITUDE 80 - 45 - 00  
 4,110' to Bottom Hole

12/13/2024



Detail 1  
(NTS)



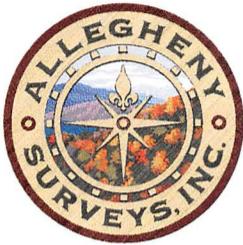
FILE NO: 57-30-WU-14  
DRAWING NO: Dixie Unit 1H As-Drilled Well Plat  
SCALE: 1" = 1500'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

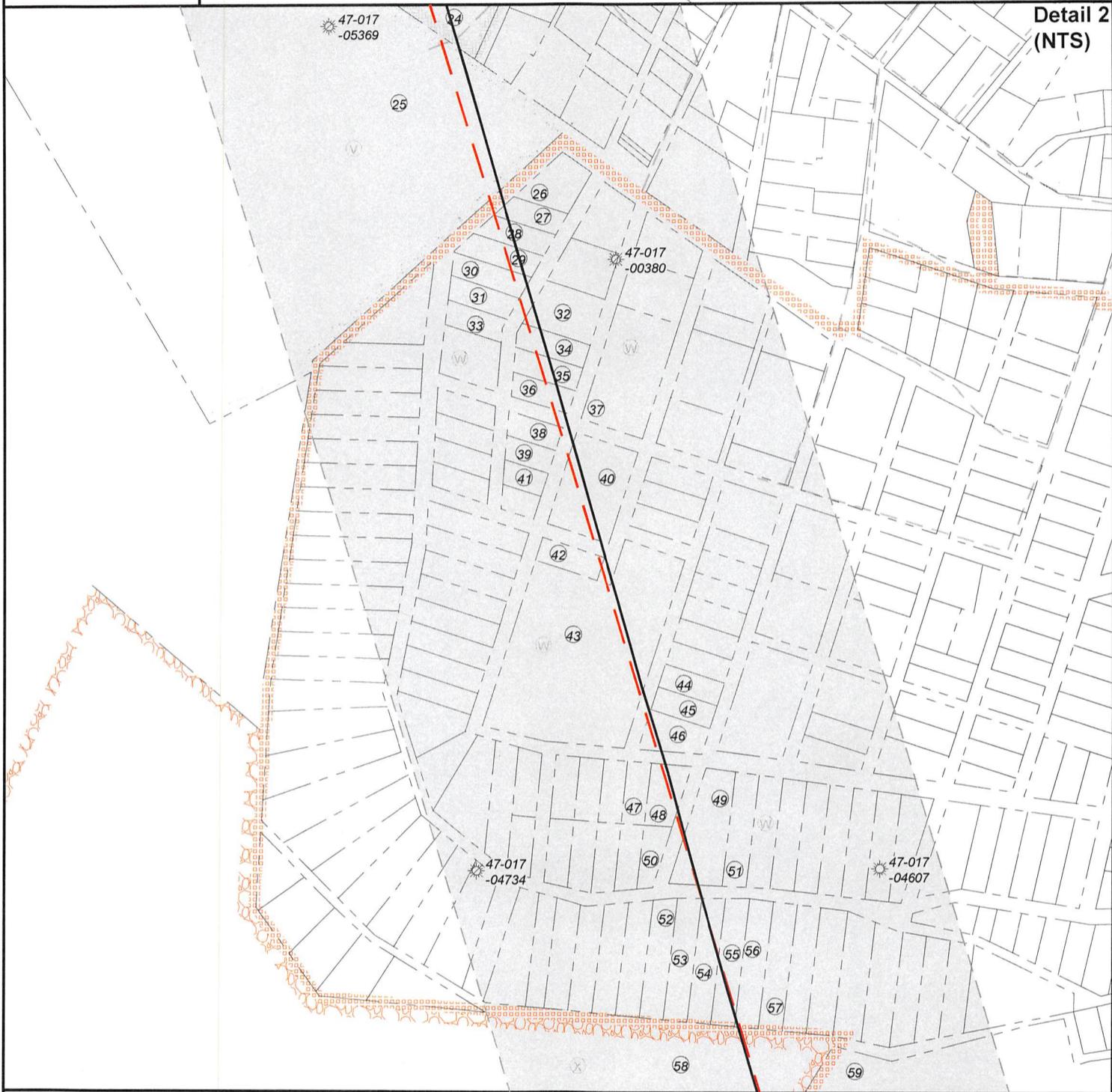
DATE: October 4 20 24  
OPERATOR'S WELL NO. Dixie Unit 1H  
API WELL NO  
47 - 017 - 06958  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Doddridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,380' MD 6,506' TVD

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



**Detail 2**  
**(NTS)**



FILE NO: 57-30-WU-14  
 DRAWING NO: Dixie Unit 1H As-Driled Well Plat  
 SCALE: 1" = 1500'  
 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: October 4 2024  
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
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**12/13/2024**



Leases	
A	Claude F. Smith, et ux
B	Harret B. Jarvis, et al
C	WVDNR
D	J.M.L. Smith
E	Town of West Union
F	William Leo Tarbet
G	William Leo Tarbet
H	Cheryl Ann Tarbet
I	WLT, LLC
J	James D. Powell
K	Arnold L. Stuart
L	Cheryl Ann Tarbet
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P	WVDOT, Division of Highways
Q	Franklin R. Kinney
R	Ronald L. Cumberledge
S	WV State Rail Authority
T	Nicholas Powell
U	John C. Farr
V	John C. Farr
W	Mary A. Stuart, et al
X	Celia Schulte & Hazel B. Butler
Y	Joseph Cheuront & W.S. Stuart

ID	TM-Par	Owner	Bk/Pg	Acres
1	11-3	Antero Resources Corp.	431/528	16.50
2	11-4	Paul D. & Sharon K. Weekley	186/743	17.30
3	35-99	Antero Resources Corp.	431/240	0.43
4	35-100	David N. & Tina M. McCartney	288/60	4.50
5	11-13	Frank E. McGill	429/448	58.55
6	3-160.1	Town of West Union	241/254	0.37
7	3-160	Town of West Union	241/254	0.35
8	3-102	Delgreta Lee Tarbet	WB34/568	0.27
9	3-162	Town of West Union	254/279	0.12
10	3-163	Delgreta Lee Tarbet	WB34/568	0.52
11	3-161.1	Town of West Union	143/44	0.35
12	3-106	WLT LLC	276/539	0.55
13	3-104	Roy L. Smith, et al	WB18/117	1.10
14	3-320	Cheryl Ann Tarbet	WB119/228	---
15	3-170	West End Cafe LLC	282/637	0.21
16	3-171	Leroy R. Kinney	236/521	---
17	3-174	Jason Balis, et al	431/390	0.11
18	3-175	WV DOH	134/207	---
19	3-176	WV DOH	134/209	---
20	3-177.1	JP Service Station	310/26	0.19
21	3-319	Donald L., Jr. & Tammy Lynn Mossor	467/132	0.88
22	3-181.1	Russell Leroy Kinney	188/311	0.25
23	3-185.1	Nicholas A. Powell	260/539	4.64
24	3-266	John C. Farr	234/91	3.62
25	11-38	John C. Farr	234/91	17.90
26	31-46	Roy L. & Tammy S. Porter	286/5	0.24
27	31-47	Roy L. & Tammy S. Porter	286/5	0.16
28	31-1	Roy L. & Tammy S. Porter	286/5	0.18
29	31-48	Roy L. & Tammy S. Porter	286/5	0.19
30	31-49	Dora Jean Porter	282/388	0.19
31	31-50	Dora Jean Porter	282/388	0.17
32	31-9	Kimberly A. Flanigan	WB98/579	0.31
33	31-51	Dora Jean Porter	282/388	0.15
34	31-52	Dora Jean Porter	282/388	0.16
35	31-20	Dora Jean Porter	282/388	0.16
36	31-53	Dora Jean Porter	282/388	0.15
37	31-10	Dora Jean Porter	442/210	0.62
38	31-54	Town of West Union	264/680	---
39	31-55	Town of West Union	264/680	---
40	31-26	Helen D. & Donald H. Michels	WB32/156	0.62
41	31-56	Town of West Union	264/680	---
42	31-32	Donna R. Campbell	462/320	0.15
43	31-86	George J. Buff, III & J. Charles Buff	377/517	2.64
44	31-95	Powell Family Trust	304/371	0.14
45	31-96	Powell Family Trust	304/371	0.14
46	31-97	Powell Family Trust	304/371	0.20
47	31-82	George J. Buff, III & J. Charles Buff	377/517	0.15
48	31-85	George J. Buff, III & J. Charles Buff	377/517	0.23
49	31-42	Powell Family Trust	304/369	0.52
50	31-84	George J. Buff, III & J. Charles Buff	377/517	---
51	31-98	Gregory Barton, III	180/37	0.27
52	31-207	George J. Buff, III & J. Charles Buff	377/517	0.29
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54	31-209	George J. Buff, III & J. Charles Buff	377/517	0.30
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58	15-3	E Properties LTD	201/396	186.86
59	11-71	Lyle K. Baker	177/304	8.29
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FILE NO: 57-30-WU-14  
 DRAWING NO: Dixie Unit 1H As-Driled Well Plat  
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Submeter  
 PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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

DATE: October 4 20 24  
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 API WELL NO  
47 - 017 - 06958  
 STATE COUNTY PERMIT

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330

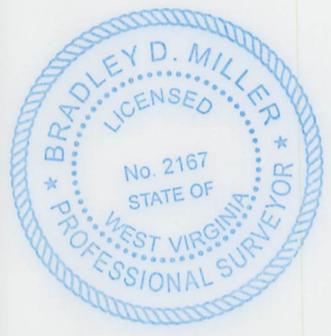
**Antero Resources**  
**Well No. Dixie 1H**  
**As-Drilled**  
**Antero Resources Corporation**



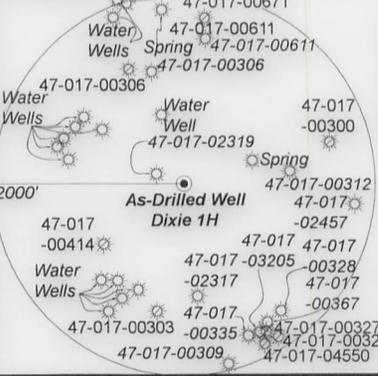
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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: 14 water wells and 2 springs 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.



Sheet 1 of 4

9,024' to Top Hole

6,815' to Bottom Hole

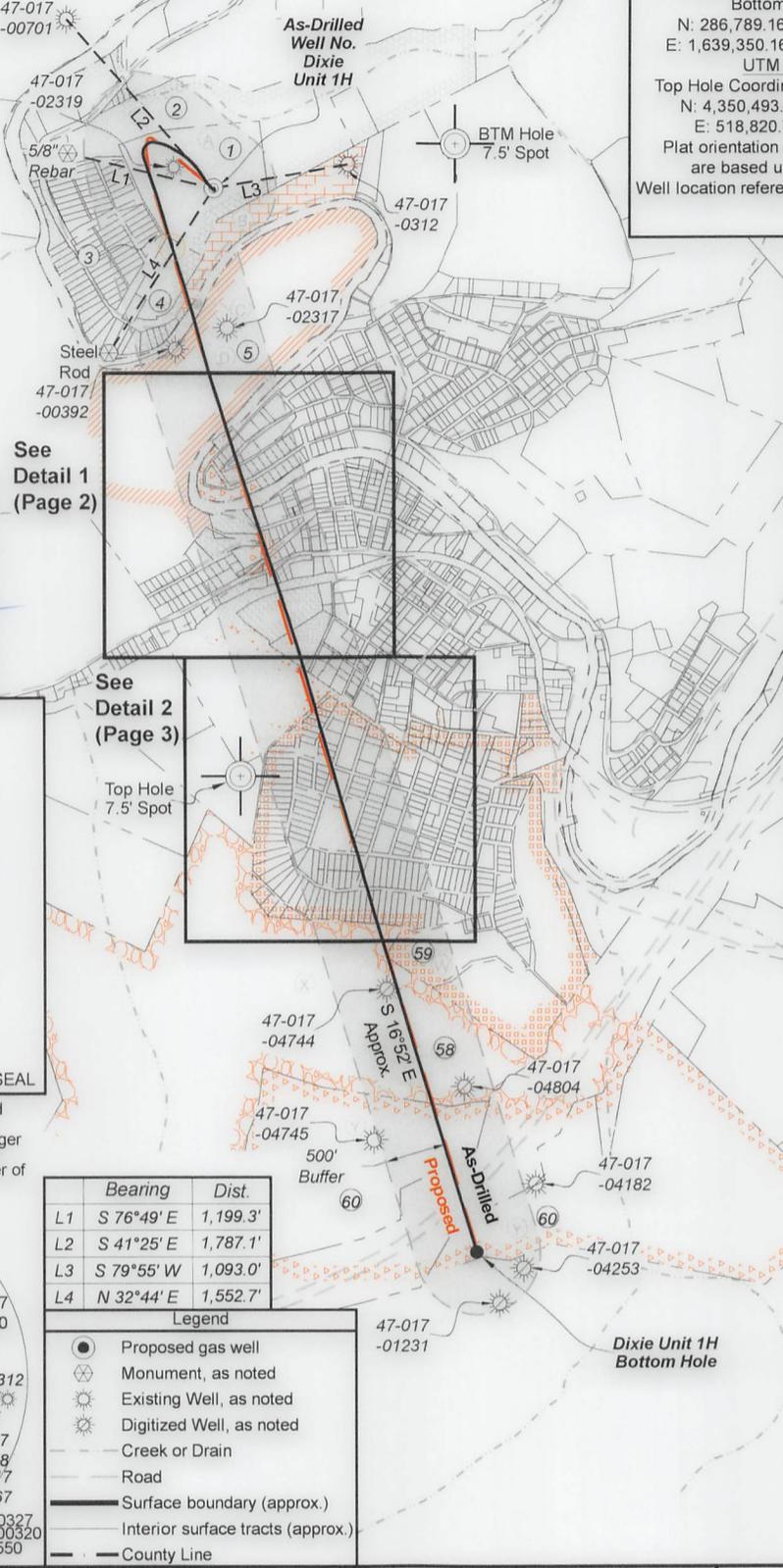
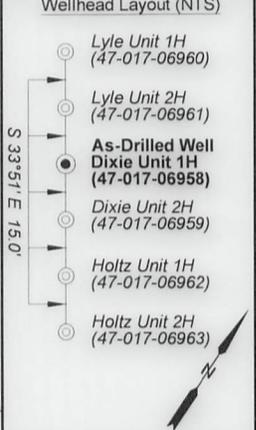
TOP HOLE LATITUDE 39 - 20 - 00  
 BTM HOLE LATITUDE 39 - 17 - 30

LONGITUDE 80 - 45 - 00  
 4,110' to Bottom Hole

10,853' to Top Hole

**Notes**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Dixie Unit 1H Top Hole coordinates are  
 N: 295,251.91' Latitude: 39°18'12.73"  
 E: 1,637,259.61' Longitude: 80°46'54.79"  
 Bottom Hole coordinates are  
 N: 286,789.16' Latitude: 39°16'49.38"  
 E: 1,639,350.16' Longitude: 80°46'26.67"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,350,493.082m N: 4,347,925.536m  
 E: 518,820.785m E: 519,500.674m  
 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. Dixie Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone  
 N: 294,778.48'  
 E: 1,636,928.04'  
 Latitude: 39°18'08.00"  
 Longitude: 80°46'58.92"  
 UTM Zone 17, NAD 1983  
 N: 4,350,347.163m  
 E: 518,722.178m



	Bearing	Dist.
L1	S 76°49' E	1,199.3'
L2	S 41°25' E	1,787.1'
L3	S 79°55' W	1,093.0'
L4	N 32°44' E	1,552.7'

- 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.)
  - County Line

FILE NO: 57-30-WU-14  
 DRAWING NO: Dixie Unit 1H As-Drilled Well Plat  
 SCALE: 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
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**STATE OF WEST VIRGINIA**  
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**OIL AND GAS DIVISION**

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 API WELL NO  
 47 — 017 — 06958  
 STATE COUNTY PERMIT

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Detail 1  
(NTS)



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12/13/2024



Detail 2  
(NTS)



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WR-35



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## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	05/23/2024
Job End Date:	06/12/2024
State:	West Virginia
County:	Doddridge
API Number:	47-017-06958-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	DIXIE UNIT 1H
Latitude:	39.30362
Longitude:	-80.78172
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6559
Total Base Water Volume (gal)*:	12262018
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

RECEIVED  
Office Of Oil and Gas  
OCT 08 2024  
WV Department of Environmental Protection

## 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
Excelerate LX-21	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

Items above are Trade Names. Items below are the individual ingredients.

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			Water	7732-18-5	100.00000	87.88979	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.94135	None
			Water	7732-18-5	100.00000	0.14473	None
			Hydrochloric acid	7647-01-0	30.00000	0.03535	None
			Complex amine compound	Proprietary	60.00000	0.02132	None
			Hydrotreated distillate	Proprietary	30.00000	0.01066	None
			Guar gum	9000-30-0	100.00000	0.00715	None
			Glutaraldehyde	111-30-8	30.00000	0.00239	None
			Ammonium chloride	12125-02-9	5.00000	0.00178	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00178	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00178	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00040	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00036	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00036	None
			Methanol	67-56-1	100.00000	0.00022	None
			Ammonium persulfate	7727-54-0	100.00000	0.00017	None
			Citric acid	77-92-9	1.00000	0.00008	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00005	None
			Propargyl alcohol	107-19-7	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	None
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	None

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

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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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