

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

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WV Department of
Environmental Protection

API 47 - 095 - 02360 County Tyler District Centerville
Quad Shirley 7.5' Pad Name Edna Monroe Pad Field/Pool Name ---
Farm name Edna Monroe Well Number Deulley Unit 2H
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 4363699m Easting 510916m
Landing Point of Curve Northing 4363747.66m Easting 511344.18m
Bottom Hole Northing 4360606m Easting 512477m

Elevation (ft) 1044' 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 07/22/2016 Date drilling commenced 09/13/2016 Date drilling ceased 01/15/2017
Date completion activities began 05/02/2017 Date completion activities ceased 02/06/2018
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 337' Open mine(s) (Y/N) depths No
Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

Reviewed

Dmt

WR-35
Rev. 8/23/13

API 47-095 - 02360 Farm name Edna Monroe Well number Deulley Unit 2H

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	24"	20"	105'	New	94#, H-40	N/A	Y
Surface	17- 1/2"	13- 3/8"	537'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2617'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	18096'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6895'		4.7#, N-80		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ²)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.18	241	0	8 Hrs.
Surface	Class A	629 sx	15.6	1.19	749	0	8 Hrs.
Coal							
Intermediate 1	Class A	1016 sx	15.6	1.18	1199	0	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	820 sx (Lead), 1575 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	4126	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18096' MD, 6569' TVD (BHL), 6572' TVD (Deepest point drilled) Loggers TD (ft) 18096' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6210'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Bead Unit 2H API# 47-095-02362). Please reference the wireline logs submitted with Form WR-35 for the Bead Unit 2H. A Cement Bond Log has been included with this submittal.

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 _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

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Rev. 8/23/13

API 47- 095 - 02360 Farm name Edna Monroe Well number Deulley Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>			
Marcellus	6488' (Top)	TVD	6909' (Top)	MD
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 4100 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 8854 mcfpd Oil 4 bpd NGL -- bpd Water 398 bpd GAS MEASURED BY Estimated Orifice Pilot

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 (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
* PLEASE SEE ATTACHED EXHIBIT 3					
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Please insert additional pages as applicable.

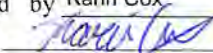
Drilling Contractor Patterson – UTI Drilling Company LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Pro Oilfield Services LLC
Address 3141 Pulaski Rd City New Castle State PA Zip 16105

Cementing Company Allied Oil & Gas Services, LLC
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Halliburton
Address 121 Champion Way Suite 200 City Cannonsburg State PA Zip 15317

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-6820
Signature  Title Permitting Agent Date 06/19/2018

API 47-095-02360 Farm Name Edna Monroe Well Number Deulley Unit 2H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/2/2017	17898	0	90	Marcellus
2	6/28/2017	17697	17782	90	Marcellus
3	12/4/2017	17584	17618	90	Marcellus
4	12/5/2017	17383	17468	90	Marcellus
5	12/5/2017	17183	17267	90	Marcellus
6	12/6/2017	16982	17067	90	Marcellus
7	12/6/2017	16782	16866	90	Marcellus
8	12/7/2017	16581	16666	90	Marcellus
9	12/7/2017	16381	16465	90	Marcellus
10	12/8/2017	16180	16265	90	Marcellus
11	12/8/2017	15979	16064	90	Marcellus
12	12/9/2017	15779	15863	90	Marcellus
13	12/9/2017	15578	15663	90	Marcellus
14	12/10/2017	15378	15462	90	Marcellus
15	12/10/2017	15177	15262	90	Marcellus
16	12/10/2017	14977	15061	90	Marcellus
17	12/11/2017	14776	14861	90	Marcellus
18	12/11/2017	14575	14660	90	Marcellus
19	12/11/2017	14375	14459	90	Marcellus
20	12/12/2017	14174	14259	90	Marcellus
21	12/13/2017	13974	14058	90	Marcellus
22	12/13/2017	13773	13858	90	Marcellus
23	12/13/2017	13573	13657	90	Marcellus
24	12/14/2017	13372	13457	90	Marcellus
25	12/14/2017	13172	13256	90	Marcellus
26	12/15/2017	12971	13056	90	Marcellus
27	12/17/2017	12770	12855	90	Marcellus
28	12/19/2017	12570	12654	90	Marcellus
29	12/19/2017	12369	12454	90	Marcellus
30	12/19/2017	12169	12253	90	Marcellus
31	12/20/2017	11968	12053	90	Marcellus
32	12/20/2017	11768	11852	90	Marcellus
33	12/21/2017	11567	11652	90	Marcellus
34	12/21/2017	11366	11451	90	Marcellus
35	12/21/2017	11166	11250	90	Marcellus
36	12/22/2017	10965	11050	90	Marcellus
37	12/23/2017	10765	10849	90	Marcellus
38	12/24/2017	10564	10649	90	Marcellus
39	12/24/2017	10364	10448	90	Marcellus
40	12/27/2017	10163	10248	90	Marcellus
41	12/28/2017	9962	10047	90	Marcellus
42	12/29/2017	9762	9846	90	Marcellus
43	12/29/2017	9561	9646	90	Marcellus
44	12/30/2017	9361	9445	90	Marcellus
45	12/30/2017	9160	9245	90	Marcellus
46	12/30/2017	8960	9044	90	Marcellus
47	12/31/2017	8759	8844	90	Marcellus
48	12/31/2017	8558	8643	90	Marcellus
49	1/1/2018	8358	8442	90	Marcellus
50	1/1/2018	8157	8242	90	Marcellus
51	1/3/2018	7957	8041	90	Marcellus
52	1/4/2018	7756	7841	90	Marcellus
53	1/4/2018	7556	7640	90	Marcellus
54	1/4/2018	7355	7440	90	Marcellus
55	1/5/2018	7154	7239	90	Marcellus
56	1/5/2018	6954	7038	90	Marcellus

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11/09/2018

API 47-095-02360 Farm Name Edna Monroe Well Number Deulley Unit 2H

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	5/2/2017	76.6	7004	4949	2866	271,630	7526	N/A
2	6/28/2017	77	7499	5106	4249	380,990	9414	N/A
3	12/4/2017	69.4	7783	4881	4312	226,140	6860.4	N/A
4	12/5/2017	67	7495	5542	3536	400,310	9124.3	N/A
5	12/5/2017	59.8	7639	5420	3635	414,020	11584.9	N/A
6	12/6/2017	78.5	8084	5280	4032	405,780	9860.3	N/A
7	12/6/2017	74.1	7729	5420	3934	404,760	8943.9	N/A
8	12/7/2017	72.8	7540	5406	3954	407,780	9280.4	N/A
9	12/7/2017	74.5	7826	5212	4466	405,420	9022	N/A
10	12/8/2017	72.5	7620	5107	4057	402,840	8991.7	N/A
11	12/8/2017	74.2	7680	4871	4082	402,800	8639.6	N/A
12	12/9/2017	72	7553	5372	4072	406,320	8833	N/A
13	12/9/2017	70.5	7462	5608	4598	406,560	9121.7	N/A
14	12/10/2017	65.2	7997	5335	4082	403,580	11162.2	N/A
15	12/10/2017	74.4	7654	5160	4056	406,860	8649	N/A
16	12/10/2017	72	7378	5226	4142	406,780	8886.9	N/A
17	12/11/2017	76.6	7467	5362	4067	400,460	8830.1	N/A
18	12/11/2017	69.7	7479	5444	4064	405,420	8513.3	N/A
19	12/11/2017	71.7	7597	5275	4050	404,160	10949.9	N/A
20	12/12/2017	62.6	7320	5788	4631	376,690	10233.5	N/A
21	12/13/2017	74.4	7406	4965	4325	404,700	9986.1	N/A
22	12/13/2017	71	7764	5636	4210	395,510	8568.5	N/A
23	12/13/2017	74.6	7395	5716	4006	402,760	8480.1	N/A
24	12/14/2017	76.8	7322	5301	4300	407,500	8558.9	N/A
25	12/14/2017	75.5	7372	5177	4247	407,700	8625.1	N/A
26	12/15/2017	74.5	7569	5328	4123	406,840	8506.8	N/A
27	12/17/2017	74.5	7534	4950	4112	409,200	8506.8	N/A
28	12/19/2017	73.3	7222	5387	4219	409,140	8975.6	N/A
29	12/19/2017	67.4	7710	5400	4285	398,240	11488.2	N/A
30	12/19/2017	68.4	7337	5991	4157	383,380	9357.5	N/A
31	12/20/2017	69	7025	5375	4371	393,300	10185.3	N/A
32	12/20/2017	69.7	6955	5307	4205	408,630	8577	N/A
33	12/21/2017	68.1	7327	5257	4202	398,100	9822.6	N/A
34	12/21/2017	68	7464	5245	3959	390,520	10654	N/A
35	12/21/2017	64.5	7823	5522	4016	399,320	10362.2	N/A
36	12/22/2017	67.2	6987	5455	3925	412,060	8758	N/A
37	12/23/2017	68	6935	5287	4959	400,640	13177.9	N/A
38	12/24/2017	69.8	6854	5450	4102	414,100	8509.8	N/A
39	12/24/2017	69.2	6806	5479	4169	400,700	8497.2	N/A
40	12/27/2017	68.8	7223	5779	3967	409,900	10308.8	N/A
41	12/28/2017	66.4	6949	5153	3913	406,680	8341	N/A
42	12/29/2017	73.2	6607	5306	4154	418,490	8574.8	N/A
43	12/29/2017	71.8	6848	5504	4101	402,700	8430.8	N/A
44	12/30/2017	71.4	6704	5004	4107	397,920	8119.9	N/A
45	12/30/2017	68.1	6368	5029	4146	407,060	8561	N/A
46	12/30/2017	68.2	6822	5072	4168	402,960	8688.9	N/A
47	12/31/2017	65.4	6664	5345	4071	400,840	8359.3	N/A
48	12/31/2017	65.8	6760	5072	4079	418,690	8965.1	N/A
49	1/1/2018	67.5	6456	5219	4690	391,900	8308.8	N/A
50	1/1/2018	64.3	6308	4989	4303	395,380	8291.5	N/A
51	1/3/2018	71.6	7979	5102	6321	326,345	15436.6	N/A
52	1/4/2018	72.8	7119	4993	4063	418,300	8643.3	N/A
53	1/4/2018	68.7	6669	4807	4188	405,440	8245.4	N/A
54	1/4/2018	65.8	7437	4163	4054	426,915	11503.3	N/A
55	1/5/2018	69.6	7255	5146	4088	403,260	9704.5	N/A
56	1/5/2018	71.5	6486	5225	4139	404,060	8107.8	N/A

AVG= 70.4625 7272.625 5266.0714 4166.589 22218480 520615.5 Total

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API 47-095-02360 Farm Name <u>Edna Monroe</u> Well Number <u>Deulley Unit 2H</u>				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Fresh Water	337'	N/A	337'	N/A
Sandy Siltstone	0	225	0	225
Sandstone	est. 225	325	est. 225	325
Shale/Siltstone	est. 325	605	est. 325	605
Silty Limestone	est. 605	805	est. 605	805
Sandy Siltstone	est. 805	1,025	est. 805	1,025
Silty Shale	est. 1025	1,065	est. 1025	1,065
Sandstone	est. 1065	1,445	est. 1065	1,445
Sandy Shale	est. 1445	1,545	est. 1445	1,545
Shale/Sandstone	est. 1545	1,705	est. 1545	1,705
Sandstone/Siltstone	est. 1705	1,745	est. 1705	1,745
Sandstone	est. 1745	1,810	est. 1745	1,810
Sandy Shale	est. 1810	1,867	est. 1810	1,871
Big Lime	1,867	2,008	1,871	2,016
Big Injun	2,008	2,562	2,016	2,598
Gantz Sand	2,562	2,656	2,598	2,697
Fifty Foot Sandstone	2,656	2,765	2,697	2,811
Gordon	2,765	3,109	2,811	3,175
Fifth Sandstone	3,109	3,172	3,175	3,242
Bayard	3,172	3,506	3,242	3,591
Warren	3,506	3,955	3,591	4,066
Speechley	3,955	4,183	4,066	4,305
Baltown	4,183	4,512	4,305	4,650
Bradford	4,512	4,882	4,650	5,037
Benson	4,882	5,263	5,037	5,437
Alexander	5,263	5,439	5,437	5,623
Elk	5,439	5,693	5,623	5,891
Rhinestreet	5,693	6,172	5,891	6,396
Sycamore	6,147	6,318	6,371	6,584
Middlesex	6,318	6,421	6,584	6,751
Burkett	6,421	6,455	6,751	6,820
Tully	6,455	6,488	6,820	6,909
Marcellus	6,488	NA	6,909	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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Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	12/4/2017
Job End Date:	2/5/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02360-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Deulley Unit 2H
Latitude:	39.42267222
Longitude:	-80.87335278
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,571
Total Base Water Volume (gal):	21,956,282
Total Base Non Water Volume:	0



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
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	89.24876	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16666	

SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
FR-76	Halliburton	Friction Reducer					
				Listed Below			
SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant					
				Listed Below			
HYDROCHLORI C ACID	Halliburton	Solvent					
				Listed Below			
SCALECHEK LP-50	Halliburton	Scale Inhibitor					
				Listed Below			
SP BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
				Listed Below			

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MC B-8614	Halliburton	Biocide					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	10.52694	
			Guar gum	9000-30-0	100.00000	0.02152	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02115	
			Inorganic salt	Proprietary	30.00000	0.02115	
			Acrylamide acrylate copolymer	Proprietary	30.00000	0.02115	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Hydrochloric acid	7647-01-0	15.00000	0.01632	
			Methanol	67-56-1	60.00000	0.00423	
			Phosphate of a Diamine, Sodium Salt	Proprietary	30.00000	0.00410	
			Glutaraldehyde	111-30-8	30.00000	0.00267	
			Sodium persulfate	7775-27-1	100.00000	0.00075	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00044	
			Ethanol	64-17-5	1.00000	0.00009	
			Ethoxylated alcohols	Proprietary	30.00000	0.00006	
			Fatty acids, tall oil	Proprietary	30.00000	0.00006	
			Modified thiourea polymer	Proprietary	30.00000	0.00006	
			Olefins	Proprietary	5.00000	0.00002	
			Propargyl alcohol	107-19-7	10.00000	0.00002	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Sodium sulfate	7757-82-6	0.10000	0.00000	

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- 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%
- *** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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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LATITUDE 39°27'30"

11,305'

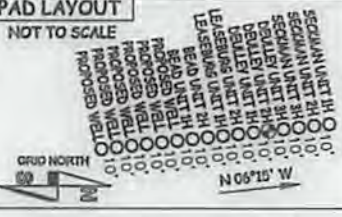
6,200' TO BOTTOM HOLE

LATITUDE 39°25'00"

Antero Resources Corporation
Well No. Deulley Unit 2H
47-095-02360 (AS DRILLED)

AS DRILLED NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 339,021ft E: 1,612,043ft
LAT: 39°25'21.62" LON: 80°52'24.06"
BOTTOM HOLE INFORMATION:
N: 328,785ft E: 1,616,996ft
LAT: 39°23'41.20" LON: 80°51'18.98"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 4,363,699m E: 510,916m
BOTTOM HOLE INFORMATION:
N: 4,360,606m E: 512,477m



WV NORTH ZONE GRID NORTH

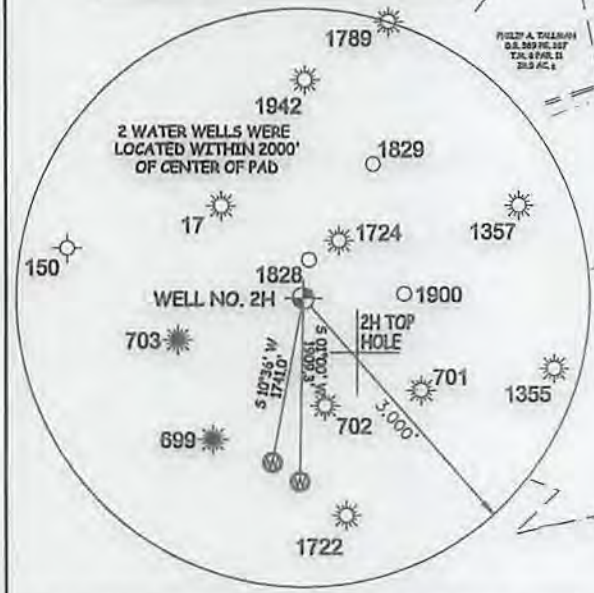
11/09/2018

7,965' TO BOTTOM HOLE

12,989'

LONGITUDE 80°50'00"

LONGITUDE 80°50'00"



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



JOB # 15-012WA
DRAWING # DEULLEY2HAD
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND
Surface Owner Boundary Lines +/-
Interior Surface Tracts +/-
Found monument, as noted
Proposed Well Path
As Drilled Well Path
DOUGLAS R. ROWE P.S. 2202
DATE 12/13/17
OPERATOR'S WELL # DEULLEY UNIT #2H

NOTE
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY DISCREPANCIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02360
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT
LOCATION: ELEVATION 1,044' - AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE SHIRLEY 7.5' DISTRICT CENTERVILLE COUNTY TYLER
SURFACE OWNER EDNA MONROE ACREAGE 110.32 ACRES +/-
OIL & GAS ROYALTY OWNER CARL BAKER; FORREST E. LEASEBURG ET UX; CARL W. NOLAN; RONALD ASH ET UX; EMORY J. WILCOX; LEASE ACREAGE 87 AC±; 78 AC±; 120 AC±; 72 AC±; 168.75 AC±;
CARL W. ASH ET UX; CARL W. ASH; CARL W. ASH ET UX; RICHARD E. DEULLEY ET UX; RUTH MEREDITH; DENNIS L. SPENCER JR.; ROBERT TENNANT; 24 AC±; 24.63 AC±; 17.4 AC±; 113 AC±; 210 AC±; 221 AC±; 12.76 AC±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
(SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,569' TVD 18,096' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

