

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

RECEIVED

MAY 26 2016

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06658 County Doddridge District Central
Quad Oxford 7.5' Pad Name Fritz Pad Field/Pool Name ---
Farm name Horton, Judy A. Well Number Sheep Run Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop St. 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 4342768m Easting 513806m
Landing Point of Curve Northing 4342894.90m Easting 514380.39m
Bottom Hole Northing 4341240m Easting 515149m

Elevation (ft) 1053' 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 1/26/2015 Date drilling commenced 3/9/2015 Date drilling ceased 5/4/2015
Date completion activities began 11/8/2015 Date completion activities ceased 3/2/2016
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 97' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1143', 1529' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1429' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

WR-35
Rev. 8/23/13

Page ___ of ___

API 47-017 - 06658 Farm name Horton, Judy A. Well number Sheep Run Unit 2H

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	30"	20"	40'	New	94# J-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	364'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2573'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	13273'	New	20# P-110	N/A	Y
Tubing		2-3/8"	7021'		4.7# N-80	N/A	
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	150 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	443 sx	15.3	1.18	253	0'	8 Hrs.
Coal							
Intermediate 1	Class A	946 sx	15.4	1.18	806	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	969 sx (Lead) 1057 sx (Tail)	14.5 Lead 15.2 Tail	1.30 Lead 1.86 Tail	2566	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13273' MD, 6485' TVD (BHL), 6564' (Deepest Point Drilled) Loggers TD (ft) 13273'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6732'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Washington Unit 2H API #47-017-06371). Please reference the wireline logs submitted with Form WR-35 for Washington 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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 017 - 06658 Farm name Horton, Judy A. Well number Sheep Run Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

API 47- 017 - 06658 Farm name Horton, Judy A. Well number Sheep Run Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6517' (TOP) TVD	7076' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3000 psi Bottom Hole -- psi DURATION OF TEST -- hrs

OPEN FLOW Gas 10240 mcfpd Oil 86 bpd NGL -- bpd Water 0 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**

Please insert additional pages as applicable.

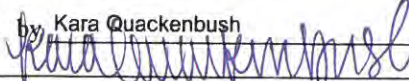
Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Rd. City Pennsboro State WV Zip 26415

Logging Company Rush Wellsite Services
Address 600 Alpha Drive City Canonsburg State PA Zip 15317

Cementing Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company US Well Services
Address 533 Industrial Park Dr. City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature  Title Permit Representative Date 5/24/2016

API 47-017-06658 Farm Name Horton, Judy A. Well Number Sheep Run Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8-Nov-15	13,053	13,181	60	Marcellus
2	31-Dec-15	12,900	13,029	60	Marcellus
3	31-Dec-15	12,748	12,877	60	Marcellus
4	31-Dec-15	12,596	12,725	60	Marcellus
5	31-Dec-15	12,444	12,573	60	Marcellus
6	1-Jan-16	12,292	12,421	60	Marcellus
7	1-Jan-16	12,140	12,269	60	Marcellus
8	1-Jan-16	11,988	12,117	60	Marcellus
9	1-Jan-16	11,836	11,965	60	Marcellus
10	2-Jan-16	11,684	11,812	60	Marcellus
11	2-Jan-16	11,532	11,660	60	Marcellus
12	2-Jan-16	11,379	11,508	60	Marcellus
13	2-Jan-16	11,227	11,356	60	Marcellus
14	2-Jan-16	11,075	11,204	60	Marcellus
15	3-Jan-15	10,923	11,052	60	Marcellus
16	3-Jan-16	10,771	10,900	60	Marcellus
17	3-Jan-16	10,619	10,748	60	Marcellus
18	3-Jan-16	10,467	10,596	60	Marcellus
19	4-Jan-16	10,315	10,444	60	Marcellus
20	4-Jan-16	10,163	10,291	60	Marcellus
21	4-Jan-16	10,011	10,139	60	Marcellus
22	4-Jan-16	9,858	9,987	60	Marcellus
23	4-Jan-16	9,706	9,835	60	Marcellus
24	5-Jan-16	9,554	9,683	60	Marcellus
25	5-Jan-16	9,402	9,531	60	Marcellus
26	6-Jan-16	9,250	9,379	60	Marcellus
27	6-Jan-16	9,098	9,227	60	Marcellus
28	6-Jan-16	8,946	9,075	60	Marcellus
29	7-Jan-16	8,794	8,922	60	Marcellus
30	7-Jan-16	8,642	8,770	60	Marcellus
31	7-Jan-16	8,490	8,618	60	Marcellus
32	8-Jan-16	8,337	8,466	60	Marcellus
33	8-Jan-16	8,185	8,314	60	Marcellus
34	8-Jan-16	8,033	8,162	60	Marcellus
35	8-Jan-16	7,881	8,010	60	Marcellus
36	8-Jan-16	7,729	7,858	60	Marcellus
37	8-Jan-16	7,577	7,706	60	Marcellus
38	9-Jan-16	7,425	7,554	60	Marcellus
39	9-Jan-16	7,273	7,401	60	Marcellus
40	9-Jan-16	7,121	7,249	60	Marcellus

API 47-017-06658 Farm Name Horton, Judy A. Well Number Sheep Run 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	30-Dec-15	72.0	7,097	5,360	3,074	136,950	6,684	N/A
2	31-Dec-15	71.0	6,908	6,523	3,128	212,950	6,303	N/A
3	31-Dec-15	71.0	6,993	6,230	4,315	211,400	5,834	N/A
4	31-Dec-15	74.0	7,015	5,879	5,003	235,000	6,043	N/A
5	31-Dec-15	72.0	6,807	5,708	4,159	222,850	6,395	N/A
6	1-Jan-16	72.0	6,811	5,847	5,096	236,650	6,057	N/A
7	1-Jan-16	73.0	6,822	5,936	4,761	237,800	6,124	N/A
8	1-Jan-16	73.0	6,843	6,348	4,731	235,400	6,037	N/A
9	1-Jan-16	73.0	8,131	5,724	3,394	221,200	6,545	N/A
10	2-Jan-16	72.0	6,962	5,993	3,591	236,350	6,062	N/A
11	2-Jan-16	73.0	6,714	5,617	3,887	237,100	6,025	N/A
12	2-Jan-16	73.0	6,732	5,980	3,729	238,750	6,033	N/A
13	2-Jan-16	72.0	6,679	6,521	3,953	218,500	6,215	N/A
14	2-Jan-16	74.0	6,758	6,034	4,523	236,500	5,973	N/A
15	3-Jan-15	74.0	6,610	5,957	4,538	236,450	5,989	N/A
16	3-Jan-16	73.0	6,692	6,164	5,226	216,400	5,746	N/A
17	3-Jan-16	73.0	6,631	6,257	4,904	235,400	5,913	N/A
18	3-Jan-16	74.0	6,462	5,735	4,097	236,500	5,920	N/A
19	4-Jan-16	74.0	6,641	6,080	4,532	236,250	5,980	N/A
20	4-Jan-16	67.0	6,451	5,700	5,378	188,450	6,468	N/A
21	4-Jan-16	73.0	6,493	5,489	5,008	234,550	5,909	N/A
22	4-Jan-16	73.0	7,013	5,694	3,569	237,080	5,870	N/A
23	4-Jan-16	72.0	6,892	6,842	4,832	218,360	5,743	N/A
24	5-Jan-16	72.0	6,339	6,168	3,971	236,720	5,937	N/A
25	5-Jan-16	70.0	6,641	6,681	4,990	63,350	6,414	N/A
26	6-Jan-16	73.0	6,635	6,167	3,884	237,500	5,833	N/A
27	6-Jan-16	73.0	6,885	6,724	5,377	212,250	6,389	N/A
28	6-Jan-16	72.0	6,908	5,528	4,136	229,490	5,783	N/A
29	7-Jan-16	70.0	7,320	6,614	5,077	219,350	6,163	N/A
30	7-Jan-16	73.0	6,677	5,987	5,781	238,550	5,833	N/A
31	7-Jan-16	73.0	7,155	5,774	5,686	236,150	5,773	N/A
32	8-Jan-16	72.0	6,349	5,652	4,176	237,060	5,777	N/A
33	8-Jan-16	73.0	6,848	6,510	5,614	216,200	6,325	N/A
34	8-Jan-16	73.0	6,427	6,658	4,669	237,400	5,751	N/A
35	8-Jan-16	74.0	6,541	6,606	4,483	187,750	6,007	N/A
36	8-Jan-16	72.0	6,331	6,465	3,454	237,200	5,730	N/A
37	8-Jan-16	72.0	6,775	6,086	4,267	207,650	6,239	N/A
38	9-Jan-16	75.0	6,671	5,638	5,146	224,300	6,264	N/A
39	9-Jan-16	72.0	6,297	5,901	4,723	237,120	5,703	N/A
40	9-Jan-16	73.0	5,986	6,252	3,575	237,200	5,718	N/A
AVG=		72.5	6,749	6,076	4,461	8,852,080	6,038	TOTAL

API 47-017-06658 Farm Name Horton, Judy A. Well Number Sheep Run Unit 2H

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	97'	N/A	97'	N/A
Siltstone/Sandstone	0	109	0	109
Shale/ Siltstone	est. 109	169	est. 109	169
Siltstone/ Trace Coal	est. 169	329	est. 169	329
Siltstone/ Shale	est. 329	429	est. 329	429
Shale	est. 429	509	est. 429	509
Sandstone	est. 509	549	est. 509	549
Shale/ Siltstone	est. 549	629	est. 549	629
Limestone/ Shale	est. 629	689	est. 629	689
Shale/ Siltstone	est. 689	829	est. 689	829
Shale/ Limestone	est. 829	909	est. 829	909
Sandstone	est. 909	969	est. 909	969
Shale	est. 969	1089	est. 969	1089
Siltstone/ Trace Coal	est. 1089	1429	est. 1089	1429
Coal	est. 1429	1549	est. 1429	1549
Siltstone/ Trace Coal	est. 1549	1689	est. 1549	1689
Shale/ Siltstone	est. 1689	1909	est. 1689	1909
Sandstone	est. 1909	1957	est. 1909	1960
Big Lime	1957	2631	1960	2634
Fifty Foot Sandstone	2631	2680	2634	2684
Gordon	2680	2824	2684	2828
Fifth Sandstone	2824	2979	2828	2984
Bayard	2979	3865	2984	3944
Speechley	3865	4098	3944	4214
Baltown	4098	4542	4214	4718
Bradford	4542	4934	4718	5160
Benson	4934	5192	5160	5454
Alexander	5192	6165	5454	6553
Sycamore	6165	6339	6553	6771
Middlesex	6339	6460	6771	6945
Burkett	6460	6486	6945	6996
Tully	6486	6517	6996	7076
Marcellus	6517	NA	7076	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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/30/2015
Job End Date:	1/9/2016
State:	West Virginia
County:	Doddridge
API Number:	47-017-06658-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Sheep Run 2H
Longitude:	-80.84003300
Latitude:	39.23410300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,563
Total Base Water Volume (gal):	10,651,338
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
Water	Antero Resources	Base Fluid	Water	7732-18-5	100.00000	90.58613	
Sand	U.S. Well Services, LLC	Proppant					
LC-15	U.S. Well Services	Gelling Agents	Crystalline Silica, quartz	14808-60-7	100.00000	9.02686	
			Guar Gum	9000-30-0	50.00000	0.08248	
			Petroleum Distillates	64742-47-8	60.00000	0.07811	
			Suspending agent (solid)	14808-60-7	3.00000	0.01261	
			Surfactant	68439-51-0	3.00000	0.00495	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.08735	
			Hydrogen Chloride	7647-01-0	18.00000	0.02087	
WFRA-405	U.S. Well Services	Friction Reducer					
			Water	7732-18-5	60.00000	0.03756	
			2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.01878	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01512	
			Ethoxylated alcohol blend	68002-97-1	4.00000	0.00250	

SI-1100	J.S. Well Services	Scale Inhibitor							
			Water	7732-18-5		80.00000		0.00993	
			Ethylene Glycol	107-21-1		25.00000		0.00351	
			Copolymer of Maleic and Acrylic acid	52255-49-9		10.00000		0.00146	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8		7.50000		0.00126	
			Phosphino carboxylic acid polymer	71050-62-9		5.00000		0.00081	
			Hexamethylene tramine penta (methylene phosphonic acid)	34690-00-1		5.00000		0.00081	
			Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5		2.00000		0.00032	
K-BAC 1020	J.S. Well Services	Anti-Bacterial Agent							
			2,2-dibromo-3-nitropropionamide	10222-01-2		20.00000		0.00388	
			Deionized Water	7732-18-5		28.00000		0.00221	
AP One	J.S. Well Services	Gel Breakers							
			Ammonium Persulfate	7727-54-0		100.00000		0.00207	
AI-302	J.S. Well Services	Acid Corrosion Inhibitors							
			Water	7732-18-5		95.00000		0.00038	
			2-Propyn-1-olcompound with methyloxirane	38172-91-7		15.00000		0.00006	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

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

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

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

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

LATITUDE 39°15'00" 1,947'

LATITUDE 39°15'00"

LONGITUDE 80°47'30"

5,819'

LONGITUDE 80°50'00"

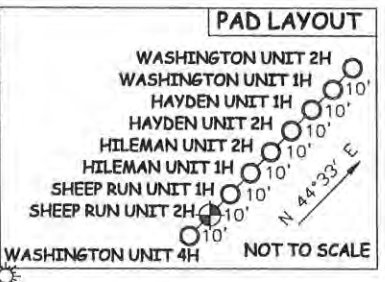
LONGITUDE 80°50'00"

Antero Resources Corporation
Well No. Sheep Run Unit 2H
47-017-06658 (AS DRILLED)

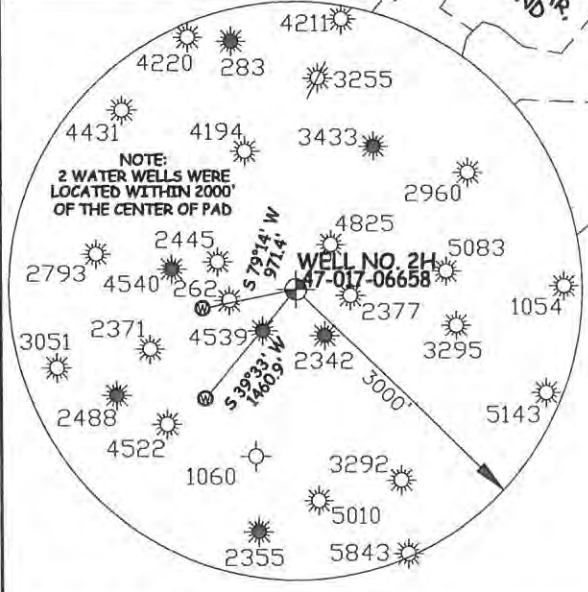
AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 270,178ft E: 1,620,380ft
LAT: 39°14'02.49" LON: 80°50'24.74"
BOTTOM HOLE INFORMATION:
N: 265,088ft E: 1,624,705ft
LAT: 39°13'12.81" LON: 80°49'28.83"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,342,768m E: 513,806m
BOTTOM HOLE INFORMATION:
N: 4,341,240m E: 515,149m

2H TOP HOLE



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 ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



JOB # 14-086WA
DRAWING # SHEEPRUNZHAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



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

LEGEND
- - - Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
X Existing Fence
⊕ Found monument, as noted
○ Proposed Well Path
⊗ As Drilled Well Path

DATE 07/16/15
OPERATOR'S WELL# SHEEP RUN UNIT #2H
API WELL # 47 - 017 - 06658
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,068' ORIGINAL - 1,053' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE OXFORD 7.5' DISTRICT CENTRAL (TH) WEST UNION (LP) SOUTHWEST (BH) COUNTY DODDRIDGE
SURFACE OWNER JUDY A. HORTON ACREAGE 65.06 ACRES +/-
OIL & GAS ROYALTY OWNER STELLA MAY ET AL; ANJO INVESTMENTS INC.; HARVEY SMITH; J.W. SMITH; SAMUEL HILEMAN LEASE ACRES: 125.5 ACRES±; 50 ACRES±; 450 ACRES±; 486 ACRES±; 122 ACRES±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,485' TVD 13,273' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT