

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

API 47 - 085 - 10099 County Ritchie District Clay  
Quad Pennsboro 7.5' Pad Name Noland Pad Field/Pool Name -----  
Farm name Darrell A. Noland, et al Well Number Penns Park 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 4349954m Easting 501883m  
Landing Point of Curve Northing 4349998.16m Easting 501531.48m  
Bottom Hole Northing 4351673m Easting 500871m

Elevation (ft) 1143' 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 6/24/2014 Date drilling commenced 3/16/2015 Date drilling ceased 6/10/2015  
Date completion activities began 3/17/2016 Date completion activities ceased 5/5/2016  
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 124', 216' Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths \_\_\_\_\_

**APPROVED**

NAME: Michael Doff  
DATE: 12/21/2016

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Reviewed by: \_\_\_\_\_

API 47-085 - 10099

Farm name Darrell A. Noland, et al

Well number Penns Park 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	30"	20"	40'	New	94#/H-40	N/A	Y
Surface	17-1/2"	13-3/8"	580'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2493'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	13,097'	New	23#/P-110	N/A	Y
Tubing		2-3/8"	6687'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	193 sx	15.6	1.18	38 Cu. Ft.	0'	8 Hrs.
Surface	Class A	687 sx	15.6	1.18	403 Cu. Ft.	0'	8 Hrs.
Coal							
Intermediate 1	Class A	971 sx	15.6	1.18	781 Cu. Ft.	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1004 sx (Lead), 1004 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.30 (Lead), 1.85 (Tail)	2544 Cu. Ft.	-500' Into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13,097' MD, 6416' TVD (BHL), 6440' TVD (Deepest Point Drilled)

Loggers TD (ft) 13,097' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6420'

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Penns Park Unit 2H API# 47-085-10100). Please reference the wireline logs submitted with Form WR-35 for the Penns Park 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

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

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API 47-085-10099 Farm Name Darrell A. Noland, et al Well Number Penns Park Unit 1H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	17-Mar-16	12,843	13,010	60	Marcellus
2	18-Mar-16	12,645	12,812	60	Marcellus
3	18-Mar-16	12,447	12,614	60	Marcellus
4	18-Mar-16	12,249	12,416	60	Marcellus
5	19-Mar-16	12,051	12,218	60	Marcellus
6	19-Mar-16	11,854	12,020	60	Marcellus
7	19-Mar-16	11,656	11,823	60	Marcellus
8	19-Mar-16	11,458	11,625	60	Marcellus
9	20-Mar-16	11,260	11,427	60	Marcellus
10	20-Mar-16	11,062	11,229	60	Marcellus
11	20-Mar-16	10,864	11,031	60	Marcellus
12	20-Mar-16	10,666	10,833	60	Marcellus
13	21-Mar-16	10,468	10,635	60	Marcellus
14	21-Mar-16	10,270	10,437	60	Marcellus
15	21-Mar-16	10,072	10,239	60	Marcellus
16	22-Mar-16	9,875	10,041	60	Marcellus
17	22-Mar-16	9,677	9,844	60	Marcellus
18	22-Mar-16	9,479	9,646	60	Marcellus
19	22-Mar-16	9,281	9,448	60	Marcellus
20	22-Mar-16	9,083	9,250	60	Marcellus
21	23-Mar-16	8,885	9,052	60	Marcellus
22	23-Mar-16	8,687	8,854	60	Marcellus
23	23-Mar-16	8,489	8,656	60	Marcellus
24	23-Mar-16	8,291	8,458	60	Marcellus
25	24-Mar-16	8,093	8,260	60	Marcellus
26	24-Mar-16	7,895	8,062	60	Marcellus
27	24-Mar-16	7,698	7,864	60	Marcellus
28	24-Mar-16	7,500	7,667	60	Marcellus
29	24-Mar-16	7,302	7,469	60	Marcellus
30	25-Mar-16	7,104	7,271	60	Marcellus
31	25-Mar-16	6,906	7,073	60	Marcellus
32	26-Mar-16	6,708	6,875	60	Marcellus

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**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 (bbbls)	Amount of Nitrogen/ other (units)
1	18-Mar-16	70.9	6,810	5,994	4,477	301,800	8,298	N/A
2	18-Mar-16	71.0	6,534	6,077	4,216	301,720	7,838	N/A
3	18-Mar-16	72.0	6,738	5,656	4,313	301,820	8,528	N/A
4	18-Mar-16	72.1	6,650	5,759	4,777	303,280	7,823	N/A
5	19-Mar-16	72.5	6,499	5,474	4,830	303,170	7,813	N/A
6	19-Mar-16	71.0	6,445	5,577	4,291	301,670	7,767	N/A
7	19-Mar-16	72.0	6,530	5,659	3,820	301,680	7,743	N/A
8	19-Mar-16	72.7	6,520	5,778	4,936	301,480	7,783	N/A
9	20-Mar-16	74.0	6,555	5,348	4,398	303,110	7,764	N/A
10	20-Mar-16	73.0	6,508	5,665	4,620	300,990	7,715	N/A
11	20-Mar-16	73.0	6,444	5,420	4,536	300,760	7,699	N/A
12	20-Mar-16	73.9	6,416	5,491	5,070	287,520	7,657	N/A
13	21-Mar-16	73.6	6,491	5,456	4,836	302,150	8,346	N/A
14	21-Mar-16	72.1	6,294	5,870	3,321	301,950	7,663	N/A
15	21-Mar-16	74.4	6,777	6,898	3,515	280,690	8,251	N/A
16	22-Mar-16	74.1	6,352	6,002	4,509	301,090	7,627	N/A
17	22-Mar-16	73.5	6,404	6,604	4,280	301,900	8,347	N/A
18	22-Mar-16	72.6	6,192	6,390	3,593	301,900	7,612	N/A
19	22-Mar-16	71.9	6,258	6,520	4,818	302,970	7,656	N/A
20	22-Mar-16	72.4	6,227	6,528	4,539	302,750	7,621	N/A
21	23-Mar-16	72.2	6,331	6,697	3,139	302,650	7,589	N/A
22	23-Mar-16	72.4	6,487	7,100	4,389	303,150	8,371	N/A
23	23-Mar-16	74.8	6,217	6,671	4,175	301,060	7,533	N/A
24	23-Mar-16	70.8	6,498	6,354	4,775	284,720	8,651	N/A
25	24-Mar-16	71.1	6,398	6,112	4,455	301,830	7,524	N/A
26	24-Mar-16	73.7	6,417	5,409	4,785	301,615	7,530	N/A
27	24-Mar-16	72.6	6,258	5,722	4,719	301,275	7,515	N/A
28	24-Mar-16	72.2	6,284	5,839	5,306	301,620	7,544	N/A
29	24-Mar-16	70.7	6,202	6,056	5,232	302,100	7,471	N/A
30	25-Mar-16	73.4	6,304	7,223	4,972	301,450	8,348	N/A
31	25-Mar-16	72.1	6,291	7,156	4,705	301,950	8,192	N/A
32	26-Mar-16	72.3	5,691	7,115	3,394	300,500	7,458	N/A
	AVG=	72.5	6,407	6,113	4,429	9,608,320	251,277	TOTAL

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**EXHIBIT 3**

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	124	N/A	124	N/A
Fresh Water	216	N/A	216	N/A
Siltstone/Sandstone	0	139	0	139
Sandstone	139	219	139	219
Shale	219	359	219	359
Siltstone/Shale	359	399	359	399
Trace Coal	399	659	399	659
Siltstone	659	699	659	699
Sandstone	699	739	699	739
Siltstone/Shale	739	759	739	759
Sandstone	759	779	759	779
Shale/Limestone	779	819	779	819
Siltstone	819	879	819	879
Shale	879	959	879	959
Shale	959	999	959	999
Shale/Limestone	999	1,259	999	1,259
Siltstone/Shale	1,259	1,359	1,259	1,359
Sandstone	1,359	1,579	1,359	1,579
Sandstone	1,579	2,023	1,579	2,024
Big Lime	2,023	2,900	2,024	2,901
Fifty Foot Sandstone	2,900	3,020	2,901	3,021
Gordon	3,020	3,448	3,021	3,449
Fifth Sandstone	3,448	3,523	3,449	3,524
Bayard	3,523	3,993	3,524	3,994
Speechley	3,993	4,250	3,994	4,253
Baltown	4,250	4,688	4,253	4,702
Bradford	4,688	5,034	4,702	5,081
Benson	5,034	5,267	5,081	5,337
Alexander	5,267	6,168	5,337	6,339
Sycamore	6,168	6,261	6,339	6,451
Middlesex	6,261	6,360	6,451	6,598
Burkett	6,360	6,387	6,598	6,653
Tully	6,387	6,401	6,653	6,687
Marcellus	6,401	NA	6,687	NA

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	3/18/2016
Job End Date	3/26/2016
State	West Virginia
County	Ritchie
API Number	47-085-10099-00-00
Operator Name	Antero Resources Corporation
Well Name and Number	Penns Park 1H
Latitude	39.29896000
Longitude	-80.97816190
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	6,440
Total Base Water Volume (gal)	10,869,314
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					
Sand	U.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	14.10463	
LGC-15	U.S. Well Services	Gelling Agents					
			Water	7732-18-5	87.50000	0.13415	
			Hydrogen Chloride	7647-01-0	18.00000	0.03204	
			Guar Gum	9000-30-0	50.00000	0.04305	
			Petroleum Distillates	64742-47-8	60.00000	0.04077	
			Suspending agent (solid)	14808-60-7	3.00000	0.00658	
			Surfactant	68439-51-0	3.00000	0.00258	
WFRA-405	U.S. Well Services	Friction Reducer					
			Water	7732-18-5	60.00000	0.03411	
			2-Propenoic acid, polymer with 2-propenamides	29003-06-9	30.00000	0.01706	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01373	



SI-1100	U.S. Well Services	Scale Inhibitor	Ethoxylated alcohol blend	68002-97-1	4.00000	0.00227
			Water	7732-18-5	80.00000	0.00995
			Ethylene Glycol	107-21-1	25.00000	0.00352
			Copolymer of Maleic and Acrylic acid	62255-49-9	10.00000	0.00147
			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	U.S. Well Services	Anti-Bacterial Agent	2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00402
			Deionized Water	7732-18-5	28.00000	0.00230
AP One	U.S. Well Services	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00000	0.00153
AI-302	U.S. Well Services	Acid Corrosion Inhibitors	Water	7732-18-5	95.00000	0.00029
			2-Propyn-1-ol compound with methylloxirane	88172-91-7	15.00000	0.00005

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)

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LATITUDE 39°20'00"

5,659'

8,979' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 80°57'30"

6,905' TO BOTTOM HOLE

12,549'

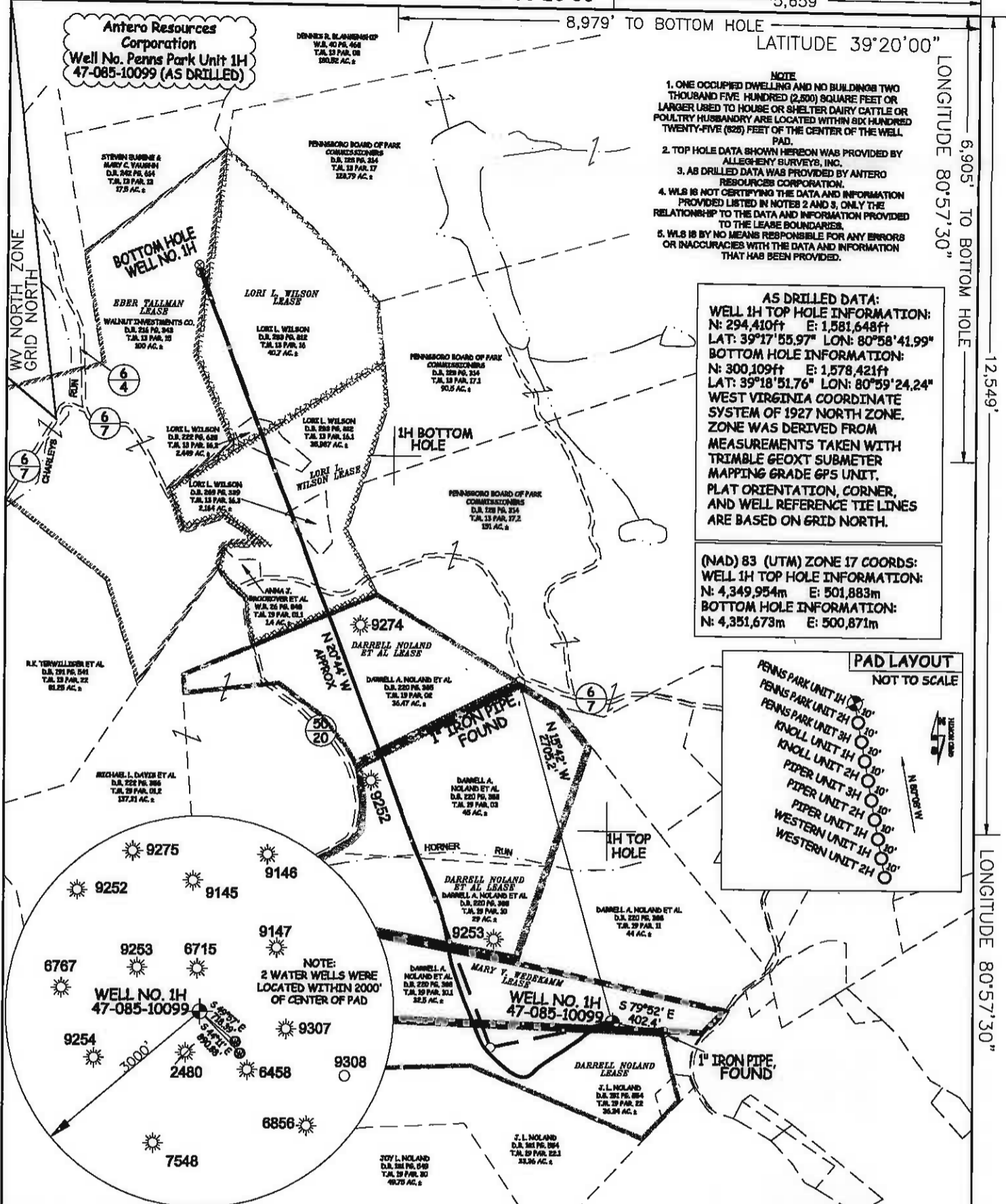
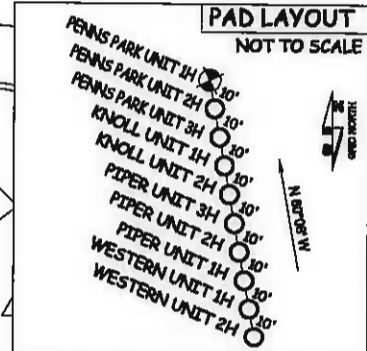
LONGITUDE 80°57'30"

Antero Resources Corporation Well No. Penns Park Unit 1H 47-085-10099 (AS DRILLED)

- NOTE
- ONE OCCUPIED DWELLING AND NO 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.
  - TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
  - AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
  - 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.
  - WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

**AS DRILLED DATA:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 294,410ft E: 1,581,648ft  
 LAT: 39°17'55.97" LON: 80°58'41.99"  
**BOTTOM HOLE INFORMATION:**  
 N: 300,109ft E: 1,578,421ft  
 LAT: 39°18'51.76" LON: 80°59'24.24"  
 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 1H TOP HOLE INFORMATION:**  
 N: 4,349,954m E: 501,883m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,351,673m E: 500,871m



JOB # 13-010WA  
 DRAWING # PENNSPARK1HAD  
 SCALE 1" = 1000'  
 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

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

LOCATION: ELEVATION 1,159' ORIGINAL - 1,143' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-  
 OIL & GAS ROYALTY OWNER MARY V. WEDEKAMM, DARRELL NOLAND; DARRELL NOLAND ET AL; DARRELL NOLAND ET AL; LORI L. WILSON; LORI L. WILSON; EBER TALLMAN LEASE ACREAGE 32.5 ACRES +/- 32 ACRES +/- 74 ACRES +/- 40 ACRES +/- 41 ACRES +/- 40 ACRES +/- 80 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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,416' TVD 13,097' MQ

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM  
DENVER, CO 80202 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

**LEGEND**

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

DATE 09/22/15  
 OPERATOR'S WELL# PENNS PARK UNIT 1H  
 API WELL # 47 - 085 - 10099  
 STATE CLAY COUNTY RITCHIE PERMIT

LATITUDE 39°20'00"

5,659'

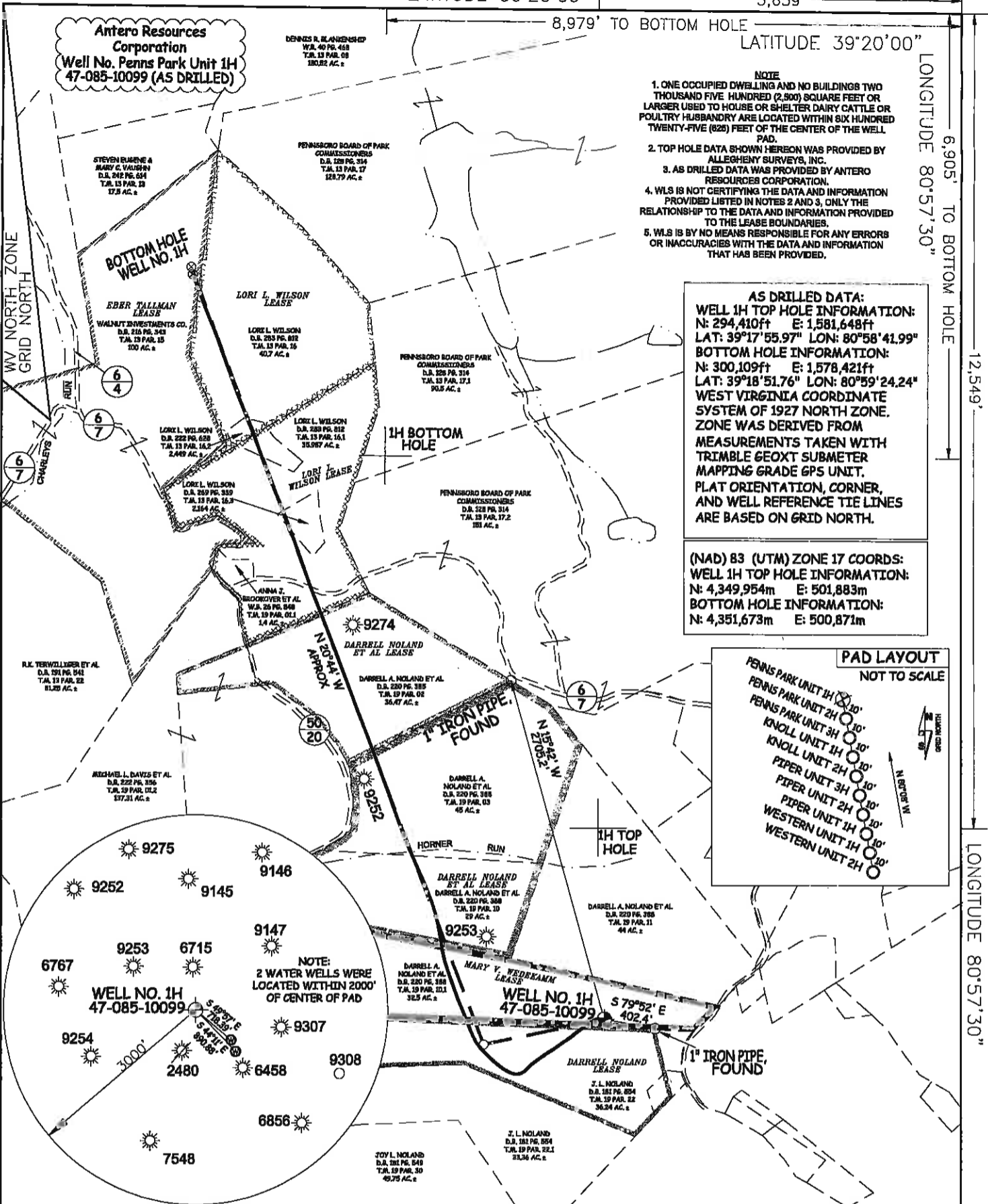
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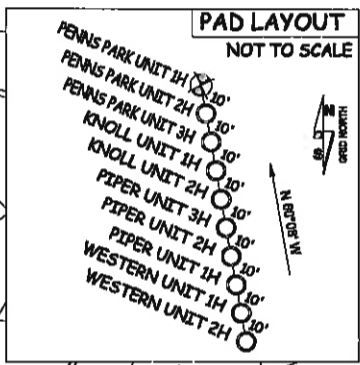
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 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
 WELL TYPE: OIL    GAS X LIQUID INJECTION    WASTE DISPOSAL.     
 (IF "GAS") PRODUCTION X STORAGE    DEEP    SHALLOW X  
 LOCATION: ELEVATION 1,158' ORIGINAL - 1,143' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
 SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-  
 OIL & GAS ROYALTY OWNER MARY V. WEDEKAMM; DARRELL NOLAND; DARRELL NOLAND ET AL; LORI L. WILSON; LORI L. WILSON; EBER TALLMAN LEASE ACREAGE 32.5 ACRES±; 32 ACRES±; 74 ACRES±; 40 ACRES±; 42 ACRES±; 40 ACRES±; 30 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 6,416' TVD 13,097' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM  
DENVER, CO 80202 5400 D BIG TYLER ROAD  
   CHARLESTON, WV 25313

STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

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

DATE 09/22/15  
 OPERATOR'S WELL # PENNS PARK UNIT 1H  
 API WELL # 47 085 10099  
 STATE COUNTY PERMIT

COUNTY NAME RITCHIE  
 PERMIT