

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

API 47 - 095 - 02202 County Tyler District Centerville
Quad Shirley 7.5' Pad Name Pierpoint Pad Field/Pool Name ---
Farm name Lloyd C. Seckman Well Number Wall 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 4366954m Easting 512157m
Landing Point of Curve Northing 4366869.08m Easting 512173.16m
Bottom Hole Northing 4364887m Easting 512887m

Elevation (ft) 1201' 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

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Date permit issued 11/19/2014 Date drilling commenced 12/4/2014 Date drilling ceased 6/16/2015
Date completion activities began 8/29/2015 Date completion activities ceased 11/18/2015
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 256', 267' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 889', 2253' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by:

DAH
02/12/2016

API 47-095 - 02202 Farm name Lloyd C. Seckman Well number Wall 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	24"	20"	40'	New	133#/J-55	N/A	Y
Surface	17-1/2"	13-3/8"	506'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2523'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	13,565'	New	20#/P-110	N/A	Y
Tubing		2-3/8"	6786'		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 ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	200 sx	15.6	1.20	38 Cu. Ft.	0'	8 hrs
Surface	Class A	600 sx	15.6	1.18	351 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	978 sx	15.6	1.18	790 Cu. Ft.	0'	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class H	1017 sx (Lead), 1096 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.3 (Lead), 1.85 (Tail)	2644 Cu. Ft.	-500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 13,565' MD, 6742' TVD (BHL), 6744' TVD (Deepest Point Drilled) Loggers TD (ft) 13,517'
 Deepest formation penetrated Marcellus Shale Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6212'

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS JAN 27 2016

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS WV Department of Environmental Protection

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED None

API 47-095-02202 Farm Name Lloyd C. Seckman Well Number Wall Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	29-Aug-15	13,305	13,474	60	Marcellus
2	22-Sep-15	13,104	13,273	60	Marcellus
3	22-Sep-15	12,903	13,072	60	Marcellus
4	22-Sep-15	12,702	12,871	60	Marcellus
5	23-Sep-15	12,501	12,670	60	Marcellus
6	23-Sep-15	12,300	12,470	60	Marcellus
7	23-Sep-15	12,099	12,269	60	Marcellus
8	23-Sep-15	11,898	12,068	60	Marcellus
9	23-Sep-15	11,698	11,867	60	Marcellus
10	24-Sep-15	11,497	11,666	60	Marcellus
11	24-Sep-15	11,296	11,465	60	Marcellus
12	24-Sep-15	11,095	11,264	60	Marcellus
13	24-Sep-15	10,894	11,063	60	Marcellus
14	25-Sep-15	10,693	10,863	60	Marcellus
15	25-Sep-15	10,492	10,662	60	Marcellus
16	25-Sep-15	10,291	10,461	60	Marcellus
17	25-Sep-15	10,091	10,260	60	Marcellus
18	26-Sep-15	9,890	10,059	60	Marcellus
19	26-Sep-15	9,689	9,858	60	Marcellus
20	26-Sep-15	9,488	9,657	60	Marcellus
21	26-Sep-15	9,287	9,456	60	Marcellus
22	26-Sep-15	9,086	9,256	60	Marcellus
23	27-Sep-15	8,885	9,055	60	Marcellus
24	27-Sep-15	8,684	8,854	60	Marcellus
25	27-Sep-15	8,483	8,653	60	Marcellus
26	27-Sep-15	8,283	8,452	60	Marcellus
27	27-Sep-15	8,082	8,251	60	Marcellus
28	27-Sep-15	7,881	8,050	60	Marcellus
29	28-Sep-15	7,680	7,849	60	Marcellus
30	28-Sep-15	7,479	7,648	60	Marcellus
31	28-Sep-15	7,278	7,448	60	Marcellus
32	28-Sep-15	7,077	7,247	60	Marcellus
33	28-Sep-15	6,876	7,046	60	Marcellus

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API 47-095-02202 Farm Name Lloyd C. Seckman Well Number Wall Unit 1H

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	21-Sep-15	61.6	6,714	N/A	3,902	231,875	7,204	N/A
2	22-Sep-15	71.7	7,044	5,636	4,481	212,515	7,159	N/A
3	22-Sep-15	73.3	7,122	5,593	4,724	174,020	6,765	N/A
4	22-Sep-15	71.3	6,811	6,162	5,157	220,850	7,102	N/A
5	23-Sep-15	71.2	6,432	5,386	5,275	224,100	6,216	N/A
6	23-Sep-15	71.7	6,611	5,325	5,125	242,040	6,418	N/A
7	23-Sep-15	77.3	6,673	5,976	5,347	250,700	6,450	N/A
8	23-Sep-15	73.3	6,842	5,366	6,207	207,700	6,274	N/A
9	23-Sep-15	73.0	6,450	5,559	5,340	247,000	6,326	N/A
10	24-Sep-15	72.1	6,504	6,278	5,018	228,700	6,151	N/A
11	24-Sep-15	72.0	6,698	5,693	4,776	251,880	6,533	N/A
12	24-Sep-15	71.0	6,483	6,065	4,611	223,440	5,990	N/A
13	24-Sep-15	72.5	6,476	5,844	5,021	251,700	6,479	N/A
14	25-Sep-15	74.1	6,747	5,618	4,989	222,310	6,825	N/A
15	25-Sep-15	73.7	6,452	6,280	4,857	252,350	6,349	N/A
16	25-Sep-15	74.1	6,418	6,566	5,132	223,500	6,871	N/A
17	25-Sep-15	73.4	6,208	6,044	4,406	253,600	6,366	N/A
18	26-Sep-15	72.8	6,487	6,178	4,022	238,710	6,937	N/A
19	26-Sep-15	71.7	6,412	5,545	4,587	209,730	6,288	N/A
20	26-Sep-15	72.4	6,435	5,636	4,404	227,470	6,456	N/A
21	26-Sep-15	73.6	6,319	6,122	4,746	254,300	6,309	N/A
22	26-Sep-15	73.9	6,181	5,802	5,659	256,400	6,287	N/A
23	27-Sep-15	73.9	6,128	6,076	4,998	254,200	6,282	N/A
24	27-Sep-15	75.3	6,142	6,109	5,494	252,850	6,436	N/A
25	27-Sep-15	72.7	6,307	5,895	4,668	213,350	6,213	N/A
26	27-Sep-15	40.0	7,561	6,180	4,814	1,580	5,862	N/A
27	27-Sep-15	73.6	6,366	5,708	5,224	231,060	6,060	N/A
28	27-Sep-15	74.1	6,125	5,391	5,241	256,260	6,217	N/A
29	28-Sep-15	74.1	6,020	5,983	4,984	239,000	5,947	N/A
30	28-Sep-15	72.3	6,001	5,563	4,411	251,240	6,197	N/A
31	28-Sep-15	72.7	6,298	6,323	4,456	253,060	6,201	N/A
32	28-Sep-15	75.2	6,120	7,071	4,582	250,350	6,115	N/A
33	28-Sep-15	74.6	6,114	6,015	3,765	255,050	6,166	N/A
	AVG=	71.8	6,476	5,906	4,861	7,562,890	211,451	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	256'	N/A	256'	N/A
Fresh Water	267'	N/A	267'	N/A
Siltstone	0	296	0	296
Siltstone w/trace coal	est 296	316	est 296	316
Siltstone	est 316	336	est 316	336
Sandstone	est 336	376	est 336	376
Siltstone w/trace coal	est 376	466	est 376	466
Sandstone	est 466	716	est 466	716
Sandstone/Siltstone	est 716	956	est 716	956
Limestone/Siltstone	est 956	1,176	est 956	1,176
Siltstone/Sandstone w/trace coal	est 1176	1,216	est 1176	1,216
Siltstone	est 1216	1,356	est 1216	1,356
Sandstone	est 1356	1,496	est 1356	1,496
Siltstone w/trace coal	est 1496	1,516	est 1496	1,516
Sandstone/Siltstone	est 1516	1,916	est 1516	1,916
Sandstone w/trace coal	est 1916	1,956	est 1916	1,956
Sandstone/Siltstone	est 1956	2,108	est 1956	2,112
Big Lime	2,108	2,216	2,112	2,220
Big Injun	2,216	2,711	2,220	2,715
Gantz Sand	2,711	2,853	2,715	2,857
Fifty Foot Sandstone	2,853	2,938	2,857	2,942
Gordon	2,938	3,296	2,942	3,301
Fifth Sandstone	3,296	3,339	3,301	3,344
Bayard	3,339	3,689	3,344	3,694
Warren	3,689	4,089	3,694	4,094
Speechley	4,089	4,799	4,094	4,804
Bradford	4,799	5,198	4,804	5,203
Benson	5,198	5,442	5,203	5,447
Alexander	5,442	5,607	5,447	5,612
Elk	5,607	6,002	5,612	6,007
Rhinestreet	6,002	6,309	6,007	6,318
Sycamore	6,309	6,485	6,318	6,522
Middlesex	6,485	6,583	6,522	6,678
Burkett	6,583	6,609	6,678	6,730
Tully	6,609	6,649	6,730	6,837
Marcellus	6,649	NA	6,837	NA

*Please note Antero determines shallow 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

Job Start Date:	9/21/2015
Job End Date:	9/28/2015
State:	West Virginia
County:	Tyler
API Number:	47-095-02202-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Wall 1H
Longitude:	-80.85887200
Latitude:	39.45198600
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,743
Total Base Water Volume (gal):	9,183,328
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	90.55976	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	8.94246	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.17671	
			Hydrogen Chloride	7647-01-0	18.00000	0.04221	
LGC-15	U.S. Well Services	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.08173	
			Petroleum Distillates	64742-47-8	60.00000	0.07740	
			Suspending agent (solid)	14808-60-7	3.00000	0.01250	
			Surfactant	68439-51-0	3.00000	0.00490	
WFRA-405	U.S. Well Services	Friction Reducer					
			Anionic Polyacrylamide	Proprietary	40.00000	0.02449	
			Water	7732-18-5	40.00000	0.02449	
			Sodium Chloride	7647-14-5	20.00000	0.01225	
			Petroleum Distillates	64742-47-8	20.00000	0.00986	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00306	

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SI-1100	J.S. Well Services	Scale Inhibitor					
			Water	7732-18-5	80.00000	0.01028	
			Ethylene Glycol	107-21-1	25.00000	0.00363	
			Copolymer of Maleic and Acrylic acid	52255-49-9	10.00000	0.00152	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	7.50000	0.00130	
			Hexamethylene triamine penta (methylene phosphonic acid)	34690-00-1	5.00000	0.00084	
			Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.00084	
			Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	2.00000	0.00033	
K-BAC 1020	J.S. Well Services	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00433	
			Deionized Water	7732-18-5	28.00000	0.00247	
AP One	J.S. Well Services	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00229	
AI-301	J.S. Well Services	Acid Corrosion Inhibitors					
			Diethylene Glycol	111-46-6	30.00000	0.00014	
			Methenamine	100-97-0	20.00000	0.00011	
			Hydrogen Chloride	7647-01-0	10.00000	0.00005	
			Polyethylene polyamine	68603-67-8	10.00000	0.00004	
			Coco amine	61791-14-8	5.00000	0.00002	

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°27'30"

7,212'

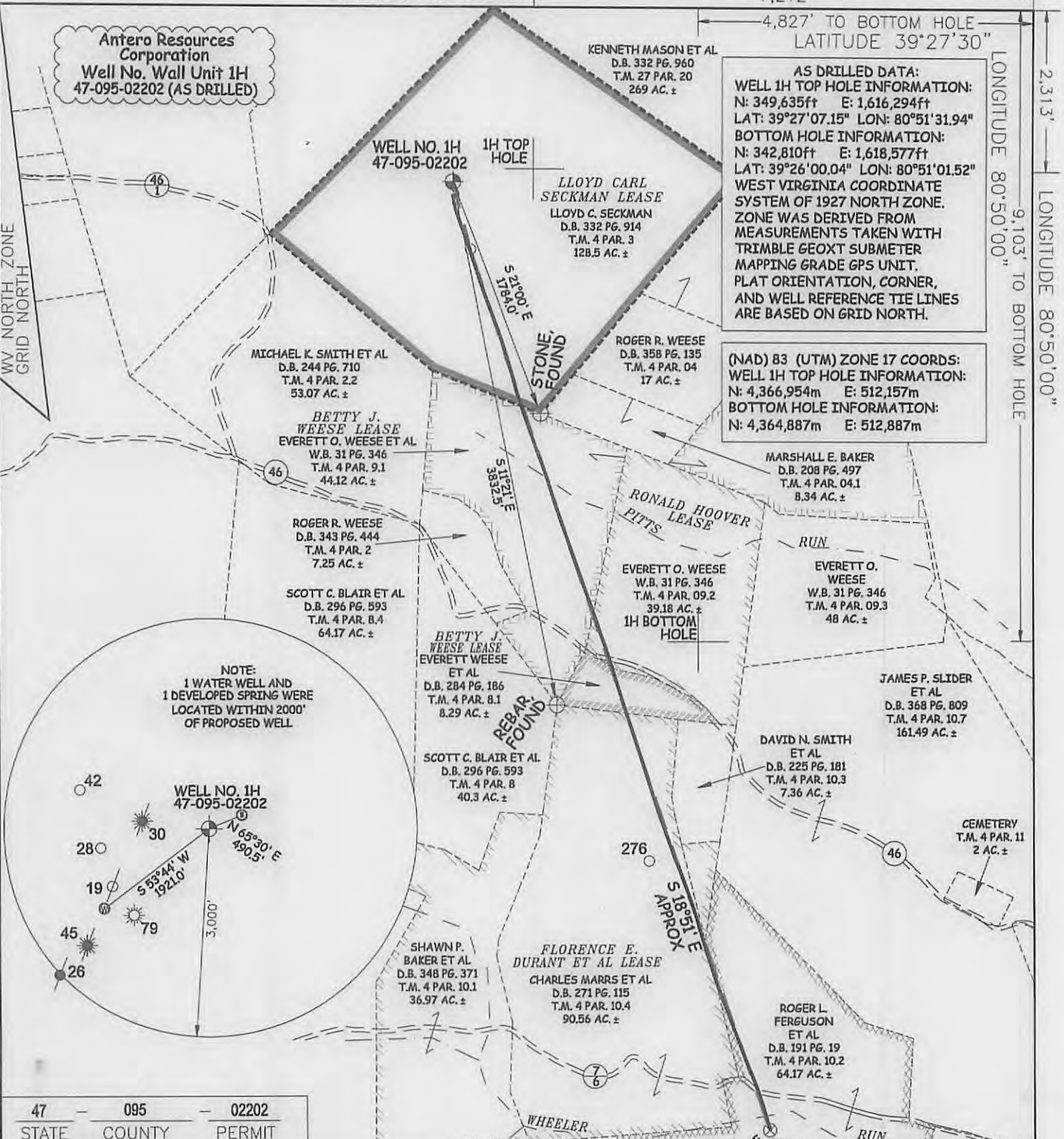
4,827' TO BOTTOM HOLE
LATITUDE 39°27'30"

LONGITUDE 80°50'00"
2,313'
LONGITUDE 80°50'00"
9,103' TO BOTTOM HOLE

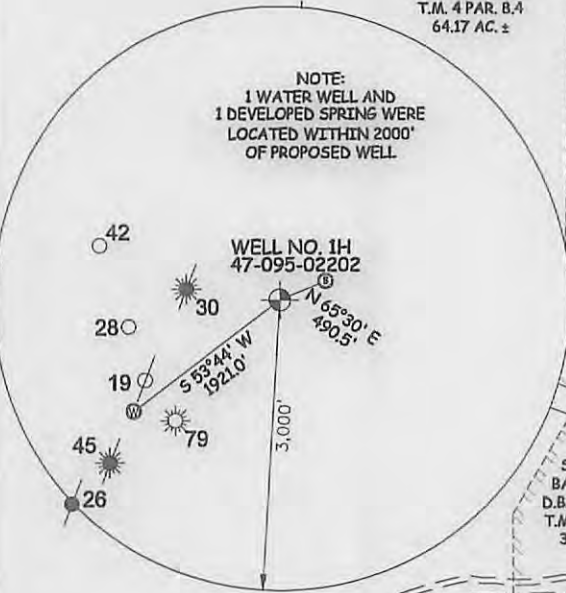
Antero Resources Corporation
Well No. Wall Unit 1H
47-095-02202 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 349,635ft E: 1,616,294ft
LAT: 39°27'07.15" LON: 80°51'31.94"
BOTTOM HOLE INFORMATION:
N: 342,810ft E: 1,618,577ft
LAT: 39°26'00.04" LON: 80°51'01.52"
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: 4,366,954m E: 512,157m
BOTTOM HOLE INFORMATION:
N: 4,364,887m E: 512,887m



NOTE:
1 WATER WELL AND
1 DEVELOPED SPRING WERE
LOCATED WITHIN 2000'
OF PROPOSED WELL.



47 - 095 - 02202
STATE COUNTY PERMIT



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 # 14-057WA
DRAWING # WALL1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

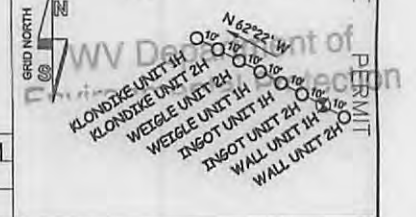
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

DATE 09/11/15
OPERATOR'S WELL# WALL UNIT #1H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,216' ORIGINAL - 1,201' AS DRILLED WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE SHIRLEY 7.5' DISTRICT CENTERVILLE COUNTY TYLER
SURFACE OWNER LLOYD C. SECKMAN ACREAGE 128.5 ACRES +/-
OIL & GAS ROYALTY OWNER LLOYD CARL SECKMAN; BETTY J. WEESE; RONALD HOOVER; LEASE ACREAGE 128.5 AC±; 175.81 AC±; 39.18 AC±;
BETTY J. WEESE; FLORENCE E. DURANT ET AL; ROGER L. FERGUSON 8.29 AC±; 127.53 AC±; 64.17 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 6,742' TVD 13,565' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

- NOTE
1. 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.
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.

PAD LAYOUT
NOT TO SCALE
NOV 02 2015



COUNTY NAME PERMIT

02/12/2016



Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

January 21, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: John Kearney
601 57th Street
Charleston, WV 25304

Mr. Kearney:

Please find enclosed the Well Operator's Report of Well Work, Form WR-35 (including the Directional Survey and FracFocus report) and Discharge Monitoring Report Form WR-34 for the following wells:

- Wall Unit 1H (API# 47-095-02202) – Pierpoint Pad
- Wall Unit 2H (API# 47-095-02203) – Pierpoint Pad
- Weigle Unit 2H (API# 47-095-02215) – Pierpoint Pad

The As-Drilled Survey Plat and corresponding logs for these wells were submitted with the INTERIM Well Operator's Report of Well Work on October 30, 2015.

If you have any questions please feel free to contact me at (303) 357-6820.

Sincerely,

A handwritten signature in blue ink that reads "Natalie Komp".

Natalie Komp
Permitting Representative
Antero Resources Corporation

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Environmental Protection

Enclosures

02/12/2016

*Antero is submitting an "Interim" Form WR-35 showing the well work that has been completed to date. This well has been drilled to TD, but is waiting on completion operations, which are currently deferred at this time. We will follow up with the "Final" Form WR-35 & WR-34 within 90 days of completion.

WR-35
Rev. 8/23/13

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PM

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

API 47-095-02202 County Tyler District Centerville
Quad Shirley 7.5' Pad Name Pierpoint Pad Field/Pool Name -----
Farm name Lloyd C. Seckman Well Number Wall 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 4,366,954m Easting 512,157m
Landing Point of Curve Northing 4,366,869.08m Easting 512,173.16m
Bottom Hole Northing 4,364,887m Easting 512,887m

Elevation (ft) 1201' 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

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Date permit issued 11/19/2014 Date drilling commenced 12/4/2014 Date drilling ceased 6/16/2015
Date completion activities began WOC Date completion activities ceased WOC
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 256', 267' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 889', 2253' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by:

MDC
12-02/12/2016

API 47-095 - 02202 Farm name Lloyd C. Seckman Well number Wall 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	24"	20"	40'	New	133#; J-55	N/A	Yes
Surface	17 1/2"	13 3/8"	506'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2523'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	13,565'	New	20#; P-110	N/A	Yes
Tubing							
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 ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	200 sx	15.60	1.20	38 Cu. Ft.	0'	8 Hrs.
Surface	Class A	600 sx	15.60	1.18	351 Cu. Ft.	0'	8 Hrs.
Coal							
Intermediate 1	Class A	978 sx	15.60	1.18	790 Cu. Ft.	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1017 sx (Lead); 1096 sx (Tail)	14.5 (Lead); 15.2 (Tail)	1.3 (Lead); 1.85 (Tail)	2644 Cu. Ft.	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13,565' MD; 6742' TVD (BHL); 6744' TVD (Deepest Point Drilled) Loggers TD (ft) 13,517'
 Deepest formation penetrated Marcellus Shale Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6212'

**Logs will be submitted with FINAL Completion Report Form WR-35

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

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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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A - WOC

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A - WOC

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

API 47- 095 - 02202 Farm name Lloyd C. Seckman Well number Wall Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>6649' (Top)</u>	<u>TVD</u>	<u>6837' (Top)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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 ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
* PLEASE SEE ATTACHED EXHIBIT 3					

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP
Address 2640 Reach Road City Williamsport State PA Zip 17701

Logging Company _____
Address _____ City _____ State _____ Zip _____

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

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Natalie Komp Telephone 303-357-6820
Signature  Title Permitting Agent Date 10/27/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information* Attach copy of FRACFOCUS Registry*

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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	256'	N/A	256'	N/A
Fresh Water	267'	N/A	267'	N/A
Siltstone	0	296	0	296
Siltstone w/trace coal	est 296	316	est 296	316
Siltstone	est 316	336	est 316	336
Sandstone	est 336	376	est 336	376
Siltstone w/trace coal	est 376	466	est 376	466
Sandstone	est 466	716	est 466	716
Sandstone/Siltstone	est 716	956	est 716	956
Limestone/Siltstone	est 956	1,176	est 956	1,176
Siltstone/Sandstone w/trace coal	est 1176	1,216	est 1176	1,216
Siltstone	est 1216	1,356	est 1216	1,356
Sandstone	est 1356	1,496	est 1356	1,496
Siltstone w/trace coal	est 1496	1,516	est 1496	1,516
Sandstone/Siltstone	est 1516	1,916	est 1516	1,916
Sandstone w/trace coal	est 1916	1,956	est 1916	1,956
Sandstone/Siltstone	est 1956	2,108	est 1956	2,112
Big Lime	2,108	2,216	2,112	2,220
Big Injun	2,216	2,711	2,220	2,715
Gantz Sand	2,711	2,853	2,715	2,857
Fifty Foot Sandstone	2,853	2,938	2,857	2,942
Gordon	2,938	3,296	2,942	3,301
Fifth Sandstone	3,296	3,339	3,301	3,344
Bayard	3,339	3,689	3,344	3,694
Warren	3,689	4,089	3,694	4,094
Speechley	4,089	4,799	4,094	4,804
Bradford	4,799	5,198	4,804	5,203
Benson	5,198	5,442	5,203	5,447
Alexander	5,442	5,607	5,447	5,612
Elk	5,607	6,002	5,612	6,007
Rhinestreet	6,002	6,309	6,007	6,318
Sycamore	6,309	6,485	6,318	6,522
Middlesex	6,485	6,583	6,522	6,678
Burkett	6,583	6,609	6,678	6,730
Tully	6,609	6,649	6,730	6,837
Marcellus	6,649	NA	6,837	NA

*Please note Antero determines shallow 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 geology.

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Wall Unit 1H
Tyler County WV
 Northing: 14326534.83
 Easting: 1680254.73
 As Drilled



To convert Magnetic North to Grid, Subtract 8.56°
 To convert True North to Grid, Subtract 0.09°

Azimuths to Grid North
 True North: -0.09°
 Magnetic North: -8.56°
 Magnetic Field
 Strength: 52222.3snT
 Dip Angle: 66.92°
 Date: 6/9/2015
 Model: BGGM2014

Precision 525: GL 1201° + KB 19° @ 1220.0usft
 Gr. 1201.0

		WELL DETAILS Wall Unit 1H			
		Ground Level: 1201.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14326534.83	1680254.73	39° 27' 7.152 N	80° 51' 31.941 W

Genie Lightfoot
 13:21, June 17 2015

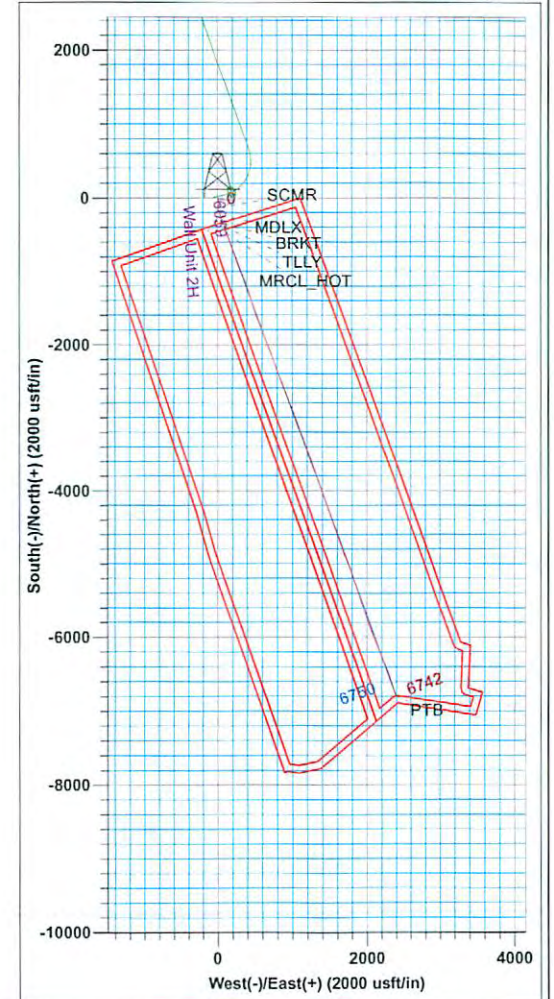
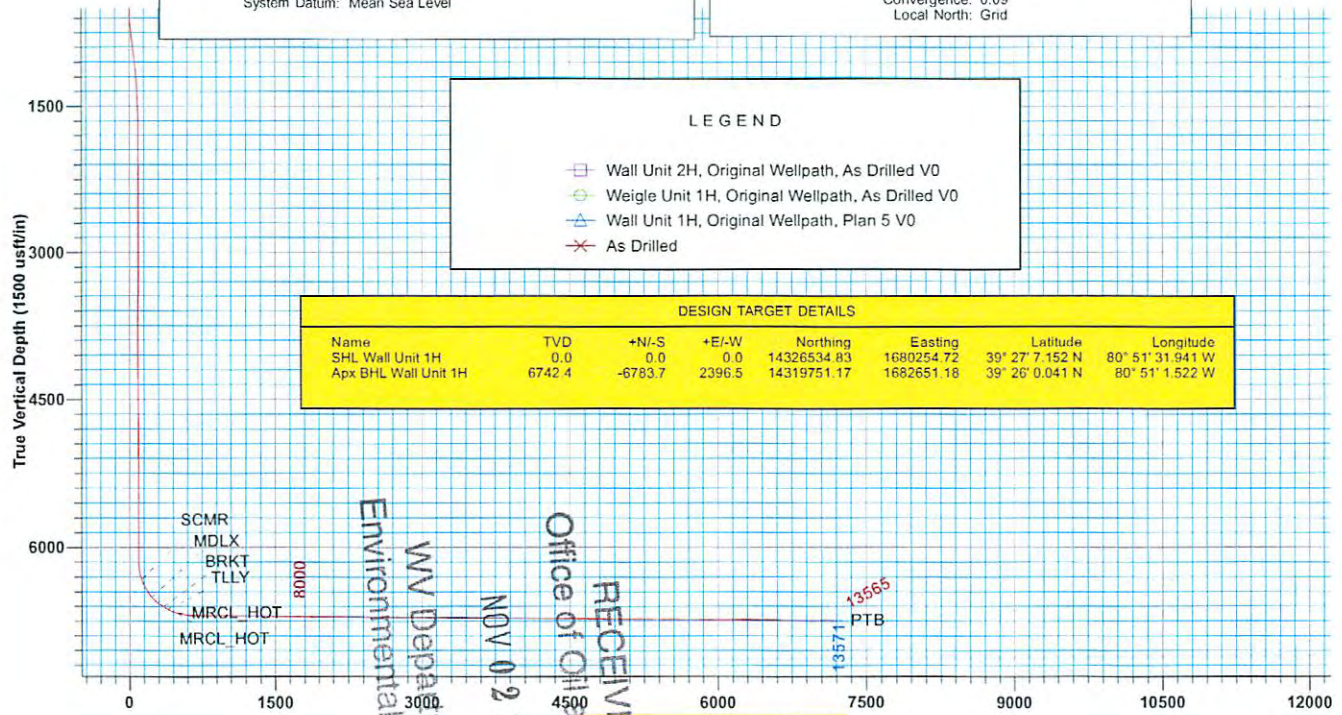
Scientific Drilling
 11220 NW 10th Street
 Yukon OK 73099

PROJECT DETAILS: Tyler County WV
 Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 17N (84 W to 78 W)
 System Datum: Mean Sea Level

SITE DETAILS: Pierpoint Pad: Ingot/Klondike/Wall/Weigle
 Site Centre Northing: 14326547.37
 Easting: 1680227.52
 Positional Uncertainty: 0.0
 Convergence: 0.09
 Local North: Grid

LEGEND	
	Wall Unit 2H, Original Wellpath, As Drilled V0
	Weigle Unit 1H, Original Wellpath, As Drilled V0
	Wall Unit 1H, Original Wellpath, Plan 5 V0
	As Drilled

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Wall Unit 1H	0.0	0.0	0.0	14326534.83	1680254.72	39° 27' 7.152 N	80° 51' 31.941 W
ApX BHL Wall Unit 1H	6742.4	-6783.7	2396.5	14319751.17	1682651.18	39° 26' 0.041 N	80° 51' 1.522 W



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Vertical Section at 160.29° (1500 usft/in)



Antero

Tyler County WV
Pierpoint Pad:Ingot/Klondike/Wall/Weigle
Wall Unit 1H
Original Wellpath

Design: As Drilled

EOW Completion Report

17 June, 2015

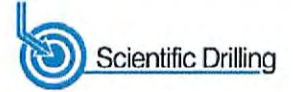
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02/12/2016



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Project	Tyler County WV, Tyler Co West Virginia		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Pierpoint Pad:Ingot/Klondike/Wall/Weigle				
Site Position:	Northing:	14,326,547.37 usft	Latitude:	39° 27' 7.276 N	
From:	Easting:	1,680,227.52 usft	Longitude:	80° 51' 32.288 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.09 °

Well	Wall Unit 1H, Marcellus					
Well Position	+N/-S	0.0 usft	Northing:	14,326,534.83 usft	Latitude:	39° 27' 7.152 N
	+E/-W	0.0 usft	Easting:	1,680,254.73 usft	Longitude:	80° 51' 31.941 W
Position Uncertainty	2.0 usft	Wellhead Elevation:	1,220.0 usft	Ground Level:	1,201.0 usft	

Wellbore	Original Wellpath		
-----------------	-------------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	6/9/2015	-8.47	66.92	52,222

Design	As Drilled		
---------------	------------	--	--

Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	160.29	

Survey Program	From (usft)	To (usft)	Date	Survey (Wellbore)	Tool Name	Description
	106.0	6,041.5	6/17/2015	Survey #1 Def KOP Gyro (Original Wellpa	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
	6,041.5	13,565.0		Survey #2 MWD (Original Wellpath)	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
	106.0	0.41	101.84	106.0	-0.1	0.4	0.2	0.39
	130.8	0.66	95.12	130.8	-0.1	0.6	0.4	0.03
	155.5	0.59	84.15	155.5	-0.1	0.9	0.4	0.56
	180.2	0.49	93.10	180.2	-0.1	1.1	0.5	0.83
	205.6	0.34	102.54	205.6	-0.1	1.3	0.5	0.85
	230.3	0.33	108.66	230.3	-0.2	1.4	0.6	0.15
	254.9	0.33	96.14	254.9	-0.2	1.6	0.7	0.29
	280.8	0.28	97.49	280.8	-0.2	1.7	0.8	0.20
	305.4	0.25	116.88	305.4	-0.2	1.8	0.8	0.38
	330.0	0.33	90.54	330.0	-0.3	1.9	0.9	0.62

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)		
355.7	0.24	79.27	355.7	-0.3	2.0	0.9	0.41		
380.3	0.19	147.78	380.3	-0.3	2.1	1.0	1.00		
404.9	0.29	144.53	404.9	-0.4	2.2	1.1	0.41		
431.0	0.26	101.73	431.0	-0.4	2.3	1.2	0.78		
455.6	0.34	100.24	455.6	-0.5	2.4	1.2	0.33		
478.7	0.25	144.20	478.7	-0.5	2.5	1.3	1.02		
504.2	0.21	158.09	504.2	-0.6	2.5	1.4	0.27		
529.7	0.45	172.90	529.7	-0.7	2.6	1.6	0.99		
555.3	1.17	168.85	555.3	-1.1	2.6	1.9	2.83		
580.8	2.07	167.65	580.8	-1.8	2.8	2.6	3.53		
603.6	2.70	166.72	603.6	-2.7	3.0	3.6	2.77		
629.2	3.49	163.08	629.1	-4.1	3.4	5.0	3.18		
654.6	4.57	161.14	654.5	-5.8	3.9	6.7	4.27		
680.2	5.36	160.03	680.0	-7.8	4.7	9.0	3.11		
705.7	5.49	160.36	705.4	-10.1	5.5	11.4	0.52		
728.5	5.94	159.86	728.0	-12.2	6.2	13.6	1.99		
754.0	6.42	159.71	753.3	-14.8	7.2	16.4	1.88		
779.6	6.91	160.39	778.8	-17.6	8.2	19.4	1.93		
805.2	7.33	158.87	804.2	-20.6	9.3	22.5	1.80		
830.7	7.53	158.54	829.5	-23.7	10.5	25.8	0.80		
853.6	7.58	158.31	852.2	-26.5	11.6	28.8	0.26		
879.2	7.60	158.08	877.5	-29.6	12.9	32.2	0.14		
904.7	7.73	157.33	902.9	-32.8	14.2	35.6	0.64		
930.0	7.64	157.26	927.9	-35.9	15.5	39.0	0.36		
955.0	7.65	156.86	952.7	-38.9	16.8	42.3	0.22		
980.0	7.70	156.49	977.5	-42.0	18.1	45.6	0.28		
1,005.2	7.49	156.03	1,002.5	-45.1	19.4	49.0	0.87		
1,030.2	7.37	155.94	1,027.2	-48.0	20.7	52.2	0.48		
1,055.2	7.09	155.47	1,052.0	-50.9	22.0	55.3	1.14		
1,080.2	6.64	155.00	1,076.9	-53.6	23.3	58.3	1.81		
1,104.4	6.12	155.55	1,100.9	-56.0	24.4	61.0	2.17		
1,129.9	5.76	155.99	1,126.3	-58.4	25.5	63.6	1.42		
1,154.5	5.45	156.82	1,150.8	-60.6	26.5	66.0	1.30		
1,180.0	5.15	156.86	1,176.1	-62.8	27.4	68.4	1.18		
1,204.5	4.71	157.42	1,200.5	-64.7	28.2	70.5	1.81		
1,229.8	4.38	158.53	1,225.8	-66.6	29.0	72.5	1.35		
1,254.5	4.13	156.33	1,250.4	-68.3	29.7	74.3	0.21		
1,279.1	4.08	157.92	1,274.9	-69.9	30.3	76.0	0.51		
1,304.1	3.59	156.82	1,299.9	-71.5	31.0	77.7	1.98		
1,329.2	3.37	156.46	1,324.9	-72.9	31.6	79.2	0.88		
1,354.2	3.22	156.55	1,349.9	-74.2	32.2	80.7	0.60		
1,379.1	2.90	157.67	1,374.7	-75.4	32.7	82.0	1.31		
1,404.1	2.65	157.93	1,399.7	-76.5	33.1	83.2	1.00		
1,429.4	2.45	160.02	1,425.0	-77.6	33.5	84.3	0.87		

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
1,455.0	2.11	157.01	1,450.6	-78.5	33.9	85.4	1.41	
1,480.6	1.91	158.52	1,476.2	-79.3	34.3	86.2	0.81	
1,505.6	1.71	156.51	1,501.2	-80.1	34.6	87.0	0.84	
1,530.4	1.59	154.31	1,525.9	-80.7	34.9	87.7	0.55	
1,553.9	1.40	158.46	1,549.5	-81.3	35.1	88.4	0.93	
1,578.2	1.28	165.88	1,573.8	-81.8	35.3	88.9	0.87	
1,604.0	1.19	160.18	1,599.5	-82.4	35.4	89.5	0.59	
1,629.7	1.03	161.65	1,625.2	-82.8	35.6	90.0	0.63	
1,655.4	0.86	168.16	1,650.9	-83.2	35.7	90.4	0.78	
1,678.3	0.78	164.20	1,673.8	-83.6	35.8	90.7	0.43	
1,704.0	0.64	164.00	1,699.5	-83.9	35.9	91.0	0.54	
1,729.6	0.51	163.80	1,725.1	-84.1	35.9	91.3	0.51	
1,755.1	0.47	177.09	1,750.6	-84.3	36.0	91.5	0.47	
1,780.3	0.43	171.27	1,775.8	-84.5	36.0	91.7	0.24	
1,805.5	0.41	169.12	1,801.1	-84.7	36.0	91.9	0.10	
1,830.8	0.34	178.91	1,826.3	-84.9	36.1	92.0	0.38	
1,853.3	0.32	165.92	1,848.8	-85.0	36.1	92.2	0.34	
1,878.5	0.18	157.58	1,874.0	-85.1	36.1	92.3	0.57	
1,903.7	0.18	157.55	1,899.2	-85.2	36.1	92.4	0.00	
1,928.9	0.13	125.46	1,924.4	-85.2	36.2	92.4	0.39	
1,954.0	0.14	147.34	1,949.5	-85.3	36.2	92.5	0.21	
1,979.2	0.17	123.64	1,974.8	-85.3	36.3	92.5	0.28	
2,004.5	0.18	116.39	2,000.0	-85.3	36.3	92.6	0.10	
2,029.2	0.19	157.27	2,024.8	-85.4	36.4	92.7	0.52	
2,054.0	0.22	118.69	2,049.5	-85.5	36.4	92.7	0.56	
2,079.7	0.21	141.68	2,075.2	-85.5	36.5	92.8	0.34	
2,103.9	0.19	169.91	2,099.4	-85.6	36.5	92.9	0.41	
2,129.1	0.14	186.33	2,124.6	-85.7	36.5	93.0	0.27	
2,154.3	0.09	196.44	2,149.9	-85.7	36.5	93.0	0.21	
2,179.6	0.04	122.79	2,175.1	-85.7	36.5	93.0	0.35	
2,204.4	0.08	158.16	2,199.9	-85.8	36.6	93.1	0.21	
2,229.2	0.13	92.63	2,224.7	-85.8	36.6	93.1	0.49	
2,254.4	0.10	183.15	2,249.9	-85.8	36.6	93.1	0.65	
2,279.6	0.13	150.92	2,275.1	-85.9	36.6	93.2	0.28	
2,304.8	0.09	154.20	2,300.4	-85.9	36.6	93.2	0.16	
2,330.1	0.03	115.85	2,325.6	-85.9	36.7	93.2	0.27	
2,355.3	0.11	193.86	2,350.8	-85.9	36.7	93.3	0.43	
2,380.1	0.10	220.00	2,375.6	-86.0	36.6	93.3	0.20	
2,405.4	0.19	255.93	2,400.9	-86.0	36.6	93.3	0.49	
2,430.6	0.20	234.67	2,426.1	-86.0	36.5	93.3	0.29	
2,455.8	0.13	236.75	2,451.4	-86.1	36.5	93.3	0.28	
2,478.0	0.12	239.28	2,473.5	-86.1	36.4	93.3	0.05	
2,503.6	0.18	237.32	2,499.1	-86.1	36.4	93.4	0.23	
2,528.4	0.16	227.10	2,524.0	-86.2	36.3	93.4	0.15	
2,553.7	0.27	229.28	2,549.2	-86.3	36.2	93.4	0.44	

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
2,578.2	0.25	244.07	2,573.7	-86.3	36.1	93.4	0.29	
2,603.4	0.26	255.15	2,598.9	-86.4	36.0	93.4	0.20	
2,630.8	0.20	279.74	2,626.3	-86.4	35.9	93.4	0.42	
2,655.4	0.26	255.29	2,651.0	-86.4	35.8	93.4	0.46	
2,680.3	0.25	261.00	2,675.8	-86.4	35.7	93.4	0.11	
2,705.0	0.22	261.45	2,700.5	-86.4	35.6	93.4	0.12	
2,729.7	0.23	252.54	2,725.2	-86.4	35.5	93.3	0.15	
2,754.5	0.26	253.15	2,750.0	-86.5	35.4	93.3	0.12	
2,779.2	0.25	258.51	2,774.7	-86.5	35.3	93.3	0.10	
2,804.0	0.35	264.53	2,799.5	-86.5	35.2	93.3	0.42	
2,830.9	0.34	265.08	2,826.4	-86.5	35.0	93.3	0.04	
2,855.2	0.40	268.24	2,850.7	-86.5	34.9	93.2	0.26	
2,880.3	0.32	267.61	2,875.8	-86.5	34.7	93.2	0.32	
2,904.6	0.36	264.90	2,900.1	-86.5	34.6	93.1	0.18	
2,929.8	0.39	270.49	2,925.3	-86.5	34.4	93.1	0.19	
2,954.0	0.51	272.12	2,949.5	-86.5	34.2	93.0	0.50	
2,979.2	0.49	276.88	2,974.7	-86.5	34.0	92.9	0.18	
3,003.7	0.57	268.93	2,999.3	-86.5	33.8	92.8	0.44	
3,029.3	0.42	302.79	3,024.9	-86.5	33.6	92.7	1.26	
3,053.9	0.51	286.58	3,049.4	-86.4	33.4	92.6	0.65	
3,079.0	0.64	275.60	3,074.5	-86.3	33.1	92.5	0.68	
3,104.0	0.49	282.83	3,099.5	-86.3	32.9	92.3	0.66	
3,129.0	0.65	278.33	3,124.5	-86.3	32.6	92.2	0.66	
3,153.9	0.66	270.52	3,149.4	-86.2	32.4	92.1	0.36	
3,179.1	0.64	276.92	3,174.7	-86.2	32.1	92.0	0.30	
3,204.2	0.54	282.69	3,199.7	-86.2	31.8	91.9	0.46	
3,228.8	0.63	280.60	3,224.3	-86.1	31.6	91.7	0.38	
3,253.8	0.59	278.53	3,249.3	-86.1	31.3	91.6	0.18	
3,278.9	0.51	283.34	3,274.4	-86.0	31.1	91.5	0.37	
3,304.0	0.52	283.04	3,299.5	-86.0	30.9	91.4	0.04	
3,329.1	0.52	280.02	3,324.6	-85.9	30.6	91.2	0.11	
3,354.1	0.50	281.28	3,349.6	-85.9	30.4	91.1	0.09	
3,381.0	0.47	274.07	3,376.5	-85.9	30.2	91.0	0.25	
3,405.5	0.50	267.60	3,401.0	-85.9	30.0	91.0	0.25	
3,430.1	0.49	264.44	3,425.6	-85.9	29.8	90.9	0.12	
3,454.7	0.54	270.98	3,450.2	-85.9	29.6	90.8	0.39	
3,479.3	0.56	264.86	3,474.8	-85.9	29.3	90.8	0.25	
3,503.7	0.54	268.63	3,499.2	-85.9	29.1	90.7	0.17	
3,528.4	0.65	264.46	3,523.9	-85.9	28.8	90.6	0.48	
3,555.7	0.55	267.34	3,551.2	-86.0	28.5	90.5	0.38	
3,580.3	0.56	268.42	3,575.7	-86.0	28.3	90.5	0.06	
3,604.7	0.54	270.35	3,600.2	-86.0	28.1	90.4	0.11	
3,629.3	0.48	268.86	3,624.8	-86.0	27.9	90.3	0.25	
3,653.9	0.53	268.25	3,649.4	-86.0	27.6	90.3	0.20	

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
3,678.5	0.53	259.53	3,674.0	-86.0	27.4	90.2	0.33
3,703.1	0.56	267.67	3,698.6	-86.0	27.2	90.1	0.34
3,730.4	0.68	261.59	3,725.8	-86.0	26.9	90.1	0.50
3,755.4	0.80	258.20	3,750.8	-86.1	26.6	90.0	0.51
3,779.5	0.65	259.01	3,775.0	-86.2	26.3	90.0	0.62
3,804.5	0.71	264.04	3,800.0	-86.2	26.0	89.9	0.34
3,830.9	0.76	264.88	3,826.4	-86.2	25.6	89.8	0.19
3,855.4	0.74	265.87	3,850.9	-86.3	25.3	89.8	0.10
3,879.9	0.70	271.58	3,875.4	-86.3	25.0	89.7	0.34
3,904.7	0.65	264.28	3,900.1	-86.3	24.7	89.6	0.40
3,929.0	0.72	267.28	3,924.5	-86.3	24.4	89.5	0.32
3,955.9	0.71	259.45	3,951.4	-86.3	24.1	89.4	0.36
3,980.6	0.60	255.56	3,976.1	-86.4	23.8	89.4	0.48
4,004.4	0.66	254.29	3,999.9	-86.5	23.6	89.4	0.26
4,029.1	0.63	247.90	4,024.6	-86.6	23.3	89.4	0.32
4,053.0	0.74	251.38	4,048.4	-86.7	23.0	89.4	0.49
4,079.4	0.68	254.46	4,074.9	-86.8	22.7	89.3	0.27
4,103.7	0.63	251.87	4,099.2	-86.8	22.5	89.3	0.24
4,130.1	0.61	254.47	4,125.6	-86.9	22.2	89.3	0.13
4,154.3	0.71	253.91	4,149.8	-87.0	21.9	89.3	0.41
4,180.7	0.66	252.29	4,176.1	-87.1	21.6	89.3	0.20
4,204.5	0.55	257.08	4,199.9	-87.2	21.4	89.3	0.51
4,230.0	0.71	245.61	4,225.5	-87.2	21.1	89.3	0.79
4,255.7	0.57	255.77	4,251.2	-87.3	20.8	89.3	0.70
4,278.1	0.64	244.31	4,273.6	-87.4	20.6	89.3	0.62
4,304.3	0.56	236.62	4,299.7	-87.6	20.4	89.3	0.43
4,329.5	0.63	230.16	4,324.9	-87.7	20.2	89.4	0.38
4,355.7	0.59	223.56	4,351.1	-87.9	20.0	89.5	0.31
4,380.9	0.66	219.86	4,376.3	-88.1	19.8	89.6	0.32
4,403.7	0.66	209.99	4,399.2	-88.3	19.6	89.8	0.50
4,429.4	0.69	217.58	4,424.8	-88.6	19.5	90.0	0.37
4,455.1	0.69	222.70	4,450.5	-88.8	19.3	90.1	0.24
4,480.7	0.66	216.97	4,476.1	-89.0	19.1	90.3	0.29
4,503.6	0.62	214.39	4,499.0	-89.3	18.9	90.4	0.25
4,529.1	0.86	223.84	4,524.6	-89.5	18.7	90.6	1.05
4,555.6	0.74	224.54	4,551.0	-89.8	18.5	90.7	0.46
4,579.6	0.67	218.60	4,575.0	-90.0	18.3	90.9	0.42
4,603.6	0.66	227.79	4,599.0	-90.2	18.1	91.0	0.45
4,630.2	0.65	226.31	4,625.6	-90.4	17.9	91.1	0.07
4,653.6	0.58	220.94	4,649.0	-90.6	17.7	91.2	0.23
4,680.1	0.72	224.72	4,675.5	-90.8	17.5	91.4	0.55
4,704.0	0.65	222.69	4,699.4	-91.0	17.3	91.5	0.31
4,730.5	0.71	211.83	4,725.9	-91.3	17.1	91.7	0.53
4,754.4	0.72	221.43	4,749.8	-91.5	16.9	91.8	0.50

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
4,780.9	0.73	215.74	4,776.3	-91.8	16.7	92.0	0.27	
4,804.7	0.72	218.71	4,800.2	-92.0	16.5	92.2	0.16	
4,828.7	0.70	214.64	4,824.1	-92.2	16.3	92.3	0.23	
4,855.1	0.74	217.66	4,850.5	-92.5	16.1	92.5	0.21	
4,878.8	0.81	217.35	4,874.2	-92.8	15.9	92.7	0.30	
4,904.9	0.69	219.38	4,900.3	-93.0	15.7	92.9	0.47	
4,930.5	0.80	219.90	4,925.9	-93.3	15.5	93.1	0.43	
4,953.9	0.78	218.25	4,949.3	-93.5	15.3	93.2	0.13	
4,979.9	0.72	224.17	4,975.3	-93.8	15.1	93.4	0.38	
5,005.4	0.69	220.40	5,000.8	-94.0	14.9	93.5	0.22	
5,028.8	0.62	221.23	5,024.2	-94.2	14.7	93.7	0.30	
5,054.8	0.65	233.18	5,050.2	-94.4	14.5	93.8	0.52	
5,080.7	0.61	229.56	5,076.1	-94.6	14.3	93.9	0.22	
5,104.2	0.58	224.05	5,099.5	-94.8	14.1	94.0	0.28	
5,130.1	0.66	224.78	5,125.5	-95.0	13.9	94.1	0.31	
5,153.9	0.61	232.66	5,149.3	-95.1	13.7	94.2	0.42	
5,179.9	0.58	230.42	5,175.3	-95.3	13.5	94.3	0.15	
5,205.9	0.65	227.03	5,201.3	-95.5	13.3	94.4	0.30	
5,229.3	0.61	230.45	5,224.7	-95.7	13.1	94.5	0.23	
5,255.3	0.75	228.10	5,250.7	-95.9	12.9	94.6	0.55	
5,278.7	0.63	225.79	5,274.0	-96.1	12.7	94.7	0.53	
5,304.7	0.65	237.07	5,300.1	-96.2	12.4	94.8	0.49	
5,330.7	0.69	228.70	5,326.0	-96.4	12.2	94.9	0.41	
5,354.1	0.74	235.30	5,349.5	-96.6	12.0	95.0	0.41	
5,380.1	0.72	240.69	5,375.5	-96.8	11.7	95.0	0.28	
5,403.5	0.80	242.51	5,398.8	-96.9	11.4	95.1	0.36	
5,429.6	0.74	233.99	5,424.9	-97.1	11.1	95.2	0.49	
5,455.6	0.75	242.94	5,450.9	-97.3	10.8	95.2	0.45	
5,479.0	0.75	244.23	5,474.4	-97.4	10.5	95.3	0.07	
5,505.1	0.76	248.42	5,500.4	-97.5	10.2	95.3	0.22	
5,530.7	0.74	240.81	5,526.0	-97.7	9.9	95.3	0.40	
5,554.0	0.76	248.47	5,549.4	-97.8	9.7	95.3	0.44	
5,579.6	0.78	248.09	5,575.0	-98.0	9.3	95.4	0.08	
5,605.8	0.75	251.02	5,601.2	-98.1	9.0	95.4	0.19	
5,629.0	0.76	251.23	5,624.3	-98.2	8.7	95.4	0.04	
5,654.4	0.54	242.87	5,649.8	-98.3	8.4	95.4	0.94	
5,680.4	0.72	256.81	5,675.7	-98.4	8.2	95.4	0.91	
5,705.4	0.65	244.37	5,700.8	-98.5	7.9	95.4	0.65	
5,730.9	0.58	240.96	5,726.2	-98.6	7.7	95.4	0.31	
5,753.9	0.56	255.10	5,749.2	-98.7	7.4	95.4	0.62	
5,779.4	0.59	250.14	5,774.8	-98.8	7.2	95.4	0.23	
5,804.5	0.60	250.68	5,799.8	-98.8	7.0	95.4	0.05	
5,829.9	0.63	244.74	5,825.2	-98.9	6.7	95.4	0.26	
5,854.9	0.64	252.29	5,850.3	-99.0	6.4	95.4	0.34	

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Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,880.4	0.54	244.49	5,875.7	-99.1	6.2	95.4	0.50
5,905.9	0.58	254.44	5,901.2	-99.2	6.0	95.4	0.41
5,930.9	0.52	269.41	5,926.2	-99.3	5.7	95.4	0.62
5,953.9	0.63	257.99	5,949.2	-99.3	5.5	95.3	0.69
5,979.1	0.57	244.56	5,974.5	-99.4	5.3	95.3	0.60
6,004.7	0.52	238.08	6,000.0	-99.5	5.0	95.4	0.31
6,030.9	0.62	256.20	6,026.2	-99.6	4.8	95.4	0.78
6,041.5	0.64	258.95	6,036.8	-99.6	4.7	95.4	0.34
6,077.0	0.58	260.27	6,072.3	-99.7	4.3	95.3	0.17
6,122.0	0.62	268.39	6,117.3	-99.7	3.9	95.2	0.21
6,167.0	0.74	269.64	6,162.3	-99.7	3.3	95.0	0.27
6,212.0	4.48	176.74	6,207.3	-101.5	3.1	96.6	10.17
6,257.0	10.41	171.93	6,251.9	-107.3	3.8	102.3	13.24
6,302.0	16.54	169.91	6,295.6	-117.6	5.5	112.6	13.66
6,337.0	20.76	169.47	6,328.8	-128.6	7.5	123.6	12.05
SCMR							
6,346.0	21.84	169.38	6,337.1	-131.8	8.1	126.8	12.05
6,391.0	26.78	168.35	6,378.1	-150.0	11.7	145.2	11.02
6,436.0	30.33	165.96	6,417.7	-171.0	16.5	166.5	8.29
6,481.0	33.64	162.37	6,455.8	-193.9	23.0	190.3	8.48
6,526.0	38.68	161.09	6,492.2	-219.1	31.4	216.8	11.32
6,541.0	40.98	160.96	6,503.7	-228.2	34.5	226.4	15.34
MDLX							
6,571.0	45.58	160.73	6,525.5	-247.6	41.2	247.0	15.34
6,616.0	52.49	160.09	6,555.0	-279.6	52.6	280.9	15.39
6,660.0	54.11	159.99	6,581.3	-312.7	64.7	316.2	3.69
6,697.0	57.30	159.57	6,602.1	-341.4	75.2	346.8	8.67
BRKT							
6,705.0	57.99	159.48	6,606.4	-347.7	77.6	353.5	8.67
6,749.0	62.71	158.22	6,628.2	-383.4	91.4	391.8	11.02
TLLY							
6,750.0	62.82	158.19	6,628.6	-384.2	91.7	392.6	11.02
6,795.0	66.78	158.37	6,647.8	-422.0	106.8	433.3	8.81
6,840.0	72.57	159.82	6,663.4	-461.4	121.8	475.5	13.22
6,856.0	74.19	160.33	6,668.0	-475.9	127.1	490.8	10.60
MRCL_HOT							
6,884.0	77.04	161.20	6,674.9	-501.5	136.0	517.9	10.60
6,929.0	79.26	161.65	6,684.2	-543.2	150.0	562.0	5.03
6,974.0	83.80	160.55	6,690.8	-585.3	164.5	606.5	10.37
7,002.0	86.64	160.72	6,693.1	-611.6	173.7	637.4	10.16
7,047.0	88.96	160.15	6,694.9	-654.0	188.8	679.3	5.31
7,092.0	89.03	159.48	6,695.7	-696.2	204.3	719.4	1.50
7,182.0	90.10	159.82	6,696.3	-780.6	235.6	814.3	1.25
7,271.0	90.30	158.54	6,696.0	-863.8	267.2	903.4	1.64
7,361.0	90.17	157.07	6,695.7	-947.1	301.2	993.2	1.64

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
7,450.0	87.99	157.59	6,697.1	-1,029.2	335.5	1,082.1	2.52	
7,540.0	88.79	160.35	6,699.6	-1,113.2	367.8	1,172.0	3.19	
7,630.0	89.09	161.22	6,701.3	-1,198.2	397.4	1,262.0	1.02	
7,719.0	88.93	161.67	6,702.8	-1,282.5	425.7	1,351.0	0.54	
7,809.0	89.77	163.55	6,703.8	-1,368.4	452.6	1,440.9	2.29	
7,899.0	90.17	163.92	6,703.9	-1,454.8	477.8	1,530.7	0.61	
7,989.0	89.53	161.32	6,704.1	-1,540.7	504.7	1,620.6	2.98	
8,078.0	89.73	160.27	6,704.7	-1,624.7	534.0	1,709.6	1.20	
8,168.0	89.43	159.62	6,705.4	-1,709.3	564.8	1,799.6	0.80	
8,257.0	89.23	158.58	6,706.4	-1,792.4	596.6	1,888.6	1.19	
8,347.0	89.83	160.30	6,707.1	-1,876.7	628.2	1,978.6	2.02	
8,437.0	89.77	158.95	6,707.5	-1,961.0	659.5	2,068.6	1.50	
8,526.0	89.46	157.77	6,708.0	-2,043.7	692.3	2,157.5	1.37	
8,616.0	90.13	161.83	6,708.4	-2,128.2	723.4	2,247.5	4.57	
8,706.0	89.97	161.43	6,708.3	-2,213.6	751.8	2,337.5	0.48	
8,796.0	89.29	160.76	6,708.9	-2,298.7	780.9	2,427.4	1.06	
8,885.0	89.16	159.75	6,710.1	-2,382.5	811.0	2,516.4	1.14	
8,975.0	88.86	158.53	6,711.6	-2,466.6	843.0	2,606.4	1.40	
9,065.0	89.30	159.61	6,713.1	-2,550.6	875.2	2,696.4	1.30	
9,155.0	89.36	159.60	6,714.1	-2,635.0	906.6	2,786.4	0.07	
9,244.0	89.40	159.61	6,715.1	-2,718.4	937.6	2,875.3	0.05	
9,334.0	89.40	159.17	6,716.0	-2,802.6	969.2	2,965.3	0.49	
9,424.0	89.60	159.88	6,716.8	-2,887.0	1,000.7	3,055.3	0.82	
9,514.0	89.50	158.49	6,717.5	-2,971.1	1,032.7	3,145.3	1.55	
9,603.0	88.76	159.77	6,718.9	-3,054.2	1,064.4	3,234.3	1.66	
9,693.0	89.80	161.10	6,720.0	-3,139.0	1,094.5	3,324.3	1.88	
9,782.0	89.66	160.43	6,720.4	-3,223.0	1,123.9	3,413.2	0.77	
9,872.0	89.06	158.08	6,721.4	-3,307.2	1,155.7	3,503.2	2.69	
9,962.0	89.60	161.76	6,722.5	-3,391.7	1,186.6	3,593.2	4.13	
10,052.0	89.90	162.31	6,722.9	-3,477.3	1,214.4	3,683.2	0.70	
10,142.0	89.26	159.99	6,723.5	-3,562.5	1,243.5	3,773.1	2.67	
10,231.0	90.37	162.51	6,723.8	-3,646.8	1,272.1	3,862.1	3.09	
10,321.0	89.53	160.34	6,723.9	-3,732.1	1,300.7	3,952.1	2.59	
10,411.0	90.00	161.21	6,724.3	-3,817.0	1,330.4	4,042.1	1.10	
10,501.0	89.46	159.44	6,724.7	-3,901.8	1,360.7	4,132.1	2.06	
10,590.0	90.20	161.11	6,725.0	-3,985.6	1,390.7	4,221.1	2.05	
10,680.0	90.40	161.61	6,724.5	-4,070.8	1,419.5	4,311.1	0.60	
10,769.0	90.70	162.19	6,723.6	-4,155.4	1,447.1	4,400.0	0.73	
10,859.0	89.80	161.10	6,723.2	-4,240.8	1,475.5	4,490.0	1.57	
10,949.0	87.95	161.71	6,725.0	-4,326.1	1,504.2	4,580.0	2.16	
11,038.0	87.51	162.07	6,728.5	-4,410.6	1,531.8	4,668.8	0.64	
11,128.0	89.56	160.49	6,730.8	-4,495.9	1,560.7	4,758.8	2.88	
11,218.0	89.93	160.53	6,731.2	-4,580.7	1,590.7	4,848.8	0.41	
11,307.0	89.09	158.15	6,732.0	-4,664.0	1,622.1	4,937.8	2.84	

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Wall Unit 1H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Wall Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
11,397.0	90.17	160.27	6,732.6	-4,748.1	1,654.0	5,027.7	2.64
11,486.0	89.80	158.29	6,732.6	-4,831.3	1,685.5	5,116.7	2.26
11,576.0	89.40	157.42	6,733.2	-4,914.7	1,719.4	5,206.6	1.06
11,666.0	89.20	159.90	6,734.3	-4,998.5	1,752.2	5,296.6	2.76
11,755.0	88.63	158.24	6,736.0	-5,081.6	1,784.0	5,385.6	1.97
11,845.0	88.96	160.65	6,737.9	-5,165.9	1,815.6	5,475.5	2.70
11,935.0	89.87	162.70	6,738.8	-5,251.3	1,843.9	5,565.5	2.49
12,024.0	90.34	163.48	6,738.7	-5,336.4	1,869.7	5,654.4	1.02
12,114.0	89.60	163.32	6,738.7	-5,422.7	1,895.5	5,744.2	0.84
12,203.0	89.50	161.21	6,739.4	-5,507.4	1,922.6	5,833.2	2.37
12,293.0	89.46	161.48	6,740.2	-5,592.7	1,951.4	5,923.2	0.30
12,383.0	89.90	161.40	6,740.7	-5,678.0	1,980.0	6,013.1	0.50
12,473.0	90.74	159.82	6,740.2	-5,762.9	2,009.9	6,103.1	1.99
12,562.0	90.44	158.70	6,739.3	-5,846.2	2,041.4	6,192.1	1.30
12,652.0	89.23	157.31	6,739.6	-5,929.6	2,075.1	6,282.0	2.05
12,741.0	88.66	157.99	6,741.2	-6,011.9	2,108.9	6,370.9	1.00
12,831.0	89.20	159.34	6,742.9	-6,095.7	2,141.7	6,460.9	1.62
12,921.0	90.00	159.34	6,743.5	-6,179.9	2,173.4	6,550.9	0.89
13,011.0	90.20	159.06	6,743.4	-6,264.1	2,205.4	6,640.8	0.38
13,100.0	89.53	156.22	6,743.6	-6,346.4	2,239.2	6,729.7	3.28
13,190.0	90.34	158.15	6,743.7	-6,429.3	2,274.1	6,819.6	2.33
13,279.0	90.40	159.63	6,743.1	-6,512.3	2,306.2	6,908.6	1.66
13,369.0	90.70	162.56	6,742.2	-6,597.5	2,335.3	6,998.5	3.27
13,459.0	90.62	162.57	6,741.2	-6,683.3	2,362.3	7,088.5	0.09
13,506.0	88.99	160.82	6,741.4	-6,727.9	2,377.1	7,135.5	5.09
13,565.0	88.99	160.82	6,742.4	-6,783.7	2,396.5	7,194.4	0.00

PTB

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,337.0	6,328.8	-128.6	7.5	SCMR
6,541.0	6,503.7	-228.2	34.5	MDLX
6,697.0	6,602.1	-341.4	75.2	BRKT
6,749.0	6,628.2	-383.4	91.4	TLTY
6,856.0	6,668.0	-475.9	127.1	MRCL_HOT
13,565.0	6,742.4	-6,783.7	2,396.5	PTB

Checked By: _____ Approved By: _____ Date: _____

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WV Department of Environmental Protection

LATITUDE 39°27'30"

7,212'

4,827' TO BOTTOM HOLE
LATITUDE 39°27'30"

LONGITUDE 80°50'00"

2,313' LONGITUDE 80°50'00"

9,103' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Wall Unit 1H
47-095-02202 (AS DRILLED)

KENNETH MASON ET AL
D.B. 332 PG. 960
T.M. 27 PAR. 20
269 AC. ±

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 349,635ft E: 1,616,294ft
LAT: 39°27'07.15" LON: 80°51'31.94"
BOTTOM HOLE INFORMATION:
N: 342,810ft E: 1,618,577ft
LAT: 39°26'00.04" LON: 80°51'01.52"
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: 4,366,954m E: 512,157m
BOTTOM HOLE INFORMATION:
N: 4,364,887m E: 512,887m

WELL NO. 1H
47-095-02202

1H TOP HOLE

LLOYD CARL
SECKMAN LEASE
LLOYD C. SECKMAN
D.B. 332 PG. 914
T.M. 4 PAR. 3
128.5 AC. ±

MICHAEL K. SMITH ET AL
D.B. 244 PG. 710
T.M. 4 PAR. 2.2
53.07 AC. ±

BETTY J.
WEESE LEASE
EVERETT O. WEESE ET AL
W.B. 31 PG. 346
T.M. 4 PAR. 9.1
44.12 AC. ±

ROGER R. WEESE
D.B. 343 PG. 444
T.M. 4 PAR. 2
7.25 AC. ±

SCOTT C. BLAIR ET AL
D.B. 296 PG. 593
T.M. 4 PAR. 8.4
64.17 AC. ±

BETTY J.
WEESE LEASE
EVERETT WEESE
ET AL
D.B. 284 PG. 186
T.M. 4 PAR. 8.1
8.29 AC. ±

SCOTT C. BLAIR ET AL
D.B. 296 PG. 593
T.M. 4 PAR. 8
40.3 AC. ±

SHAWN P.
BAKER ET AL
D.B. 348 PG. 371
T.M. 4 PAR. 10.1
36.97 AC. ±

FLORENCE E.
DURANT ET AL LEASE
CHARLES MARRS ET AL
D.B. 271 PG. 115
T.M. 4 PAR. 10.4
90.56 AC. ±

DALE UNDERWOOD
ET AL
D.B. 114 PG. 272
T.M. 4 PAR. 13
96 AC. ±

ROGER R. WEESE
D.B. 358 PG. 135
T.M. 4 PAR. 04
17 AC. ±

MARSHALL E. BAKER
D.B. 208 PG. 497
T.M. 4 PAR. 04.1
8.34 AC. ±

RONALD HOOVER
LEASE
PITTS

EVERETT O. WEESE
W.B. 31 PG. 346
T.M. 4 PAR. 09.2
39.18 AC. ±

EVERETT O.
WEESE
W.B. 31 PG. 346
T.M. 4 PAR. 09.3
48 AC. ±

JAMES P. SLIDER
ET AL
D.B. 368 PG. 809
T.M. 4 PAR. 10.7
161.49 AC. ±

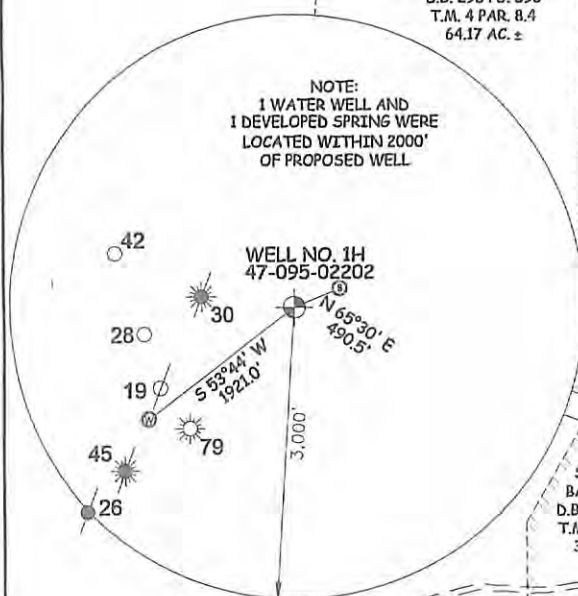
DAVID N. SMITH
ET AL
D.B. 225 PG. 181
T.M. 4 PAR. 10.3
7.36 AC. ±

ROGER L.
FERGUSON
ET AL
D.B. 191 PG. 19
T.M. 4 PAR. 10.2
64.17 AC. ±

JOHN H. GRAFF
II ET AL
D.B. 224 PG. 187
T.M. 4 PAR. 15
67.9 AC. ±

CEMETERY
T.M. 4 PAR. 11
2 AC. ±

NOTE:
1 WATER WELL AND
1 DEVELOPED SPRING WERE
LOCATED WITHIN 2000'
OF PROPOSED WELL



47 - 095 - 02202
STATE COUNTY PERMIT



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 # 14-057WA
DRAWING # WALL1HAD
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

LEGEND
- - - - - Surface Owner Boundary Lines +/-
- - - - - Interior Surface Tracts +/-
X Existing Fence
⊕ Found monument, as noted
○ Proposed Well Path
⊗ As Drilled Well Path
DATE 09/11/15
OPERATOR'S WELL# WALL UNIT #1H

- 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.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,216' ORIGINAL - 1,201' AS DRILLED WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE SHIRLEY 7.5' DISTRICT CENTERVILLE COUNTY TYLER
SURFACE OWNER LLOYD C. SECKMAN ACREAGE 128.5 ACRES +/-
OIL & GAS ROYALTY OWNER LLOYD CARL SECKMAN; BETTY J. WEESE; RONALD HOOVER; LEASE ACREAGE 128.5 AC±; 175.81 AC±; 39.18 AC±;
BETTY J. WEESE; FLORENCE E. DURANT ET AL; ROGER L. FERGUSON 8.29 AC±; 127.53 AC±; 64.17 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 6,742' TVD 13,565' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

PAD RECEIVED
NOT TO SCALE
Office of Oil and Gas
NOV 09 2015
KONOKE UNIT 2H
KONOKE UNIT 2H
WEGLE UNIT 1H
INGOT UNIT 2H
WALL UNIT 1H
WALL UNIT 2H

02/12/2016

COUNTY NAME PERMIT