

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

RECEIVED

JAN 31 2017

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06403 County Doddridge District New Milton
Quad New Milton 7.5' Pad Name Pennington South Pad Field/Pool Name _____
Farm name Davis, Brian E. Well Number Lincoln 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 4,339,295m Easting 522,366m
Landing Point of Curve Northing 4,338,855.43m Easting 521,888.19m
Bottom Hole Northing 4,336,048m Easting 522,866m

Elevation (ft) 1,060' 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 02/03/2014 Date drilling commenced 06/29/2014 Date drilling ceased 10/10/2014
Date completion activities began 10/21/2014 Date completion activities ceased 01/02/2015
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 45' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1,642' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by:

API 47-017 - 06403 Farm name Davis, Brian E. Well number Lincoln Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	40'	New	94#; H-40	N/A	Yes
Surface	17 1/2"	13 3/8"	457'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,501'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	17,908'	New	23#; P-110	N/A	Yes
Tubing		2 3/8"	7,046'		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	196 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	579 sx	15.6	1.00	317	0'	8 Hrs.
Coal							
Intermediate 1	Class A	972 sx	15.6	1.00	783	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,104 sx (Lead); 1,655 sx (Tail)	14.5 (Lead); 15.2 (Tail)	1.3 (Lead); 1.86 (Tail)	3,644	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17,908' MD; 6,869' TVD (BHL); 6,899' TVD (Deepest Point Drilled) Loggers TD (ft) 17,908'

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,679'

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 - 06403 Farm name Davis, Brian E. Well number Lincoln Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6,625' (top)</u> TVD	<u>7,205' (top)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3,950 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 7,111 mcfpd Oil 2 bpd NGL _____ bpd Water 328 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 Road City Pennsboro State WV Zip 26415

Logging Company STRC
Address 1560 Good Hope Pike City Clarksburg State WV Zip 26301

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

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

Please insert additional pages as applicable.

Completed by Samantha Marsh Telephone 303-357-7345
Signature *Samantha Marsh* Title Permitting Agent Date 10/31/2016

API 47-017-06403 Farm Name Davis, Brian E. Well Number Lincoln Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	21-Oct-14	17,644	17,813	60	Marcellus
2	30-Nov-14	17,444	17,613	60	Marcellus
3	30-Nov-14	17,245	17,413	60	Marcellus
4	30-Nov-14	17,045	17,213	60	Marcellus
5	1-Dec-14	16,845	17,013	60	Marcellus
6	1-Dec-14	16,645	16,813	60	Marcellus
7	1-Dec-14	16,445	16,613	60	Marcellus
8	2-Dec-14	16,245	16,413	60	Marcellus
9	2-Dec-14	16,045	16,214	60	Marcellus
10	2-Dec-14	15,845	16,014	60	Marcellus
11	3-Dec-14	15,645	15,814	60	Marcellus
12	3-Dec-14	15,445	15,614	60	Marcellus
13	3-Dec-14	15,245	15,414	60	Marcellus
14	3-Dec-14	15,045	15,214	60	Marcellus
15	4-Dec-14	14,845	15,014	60	Marcellus
16	4-Dec-14	14,645	14,814	60	Marcellus
17	4-Dec-14	14,445	14,614	60	Marcellus
18	5-Dec-14	14,246	14,414	60	Marcellus
19	5-Dec-14	14,046	14,214	60	Marcellus
20	5-Dec-14	13,846	14,014	60	Marcellus
21	6-Dec-14	13,646	13,814	60	Marcellus
22	6-Dec-14	13,446	13,614	60	Marcellus
23	6-Dec-14	13,246	13,414	60	Marcellus
24	7-Dec-14	13,046	13,215	60	Marcellus
25	7-Dec-14	12,846	13,015	60	Marcellus
26	7-Dec-14	12,646	12,815	60	Marcellus
27	8-Dec-14	12,446	12,615	60	Marcellus
28	8-Dec-14	12,246	12,415	60	Marcellus
29	8-Dec-14	12,046	12,215	60	Marcellus
30	9-Dec-14	11,846	12,015	60	Marcellus
31	9-Dec-14	11,646	11,815	60	Marcellus
32	9-Dec-14	11,446	11,615	60	Marcellus
33	10-Dec-14	11,247	11,415	60	Marcellus
34	10-Dec-14	11,047	11,215	60	Marcellus
35	10-Dec-14	10,847	11,015	60	Marcellus
36	10-Dec-14	10,647	10,815	60	Marcellus
37	11-Dec-14	10,447	10,615	60	Marcellus
38	11-Dec-14	10,247	10,416	60	Marcellus
39	11-Dec-14	10,047	10,216	60	Marcellus
40	11-Dec-14	9,847	10,016	60	Marcellus
41	12-Dec-14	9,647	9,816	60	Marcellus
42	12-Dec-14	9,447	9,616	60	Marcellus
43	12-Dec-14	9,247	9,416	60	Marcellus
44	12-Dec-14	9,047	9,216	60	Marcellus
45	13-Dec-14	8,847	9,016	60	Marcellus
46	13-Dec-14	8,647	8,816	60	Marcellus
47	13-Dec-14	8,448	8,616	60	Marcellus
48	14-Dec-14	8,248	8,416	60	Marcellus
49	14-Dec-14	8,048	8,216	60	Marcellus
50	14-Dec-14	7,848	8,016	60	Marcellus
51	15-Dec-14	7,648	7,816	60	Marcellus
52	15-Dec-14	7,448	7,616	60	Marcellus
53	15-Dec-14	7,248	7,417	60	Marcellus

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	29-Nov-14	63.3	7,487	6,004	4,998	206,048	6,542	N/A
2	30-Nov-14	61.1	7,436	6,161	4,851	197,077	6,512	N/A
3	30-Nov-14	69.5	7,551	6,030	5,131	243,106	6,919	N/A
4	30-Nov-14	66.0	7,582	5,970	5,096	247,665	6,761	N/A
5	1-Dec-14	63.8	7,600	6,205	5,191	212,581	6,202	N/A
6	1-Dec-14	63.1	7,328	6,264	5,561	242,389	6,652	N/A
7	1-Dec-14	67.0	7,434	5,885	5,211	246,276	6,750	N/A
8	2-Dec-14	61.8	7,241	6,049	5,473	242,827	6,539	N/A
9	2-Dec-14	62.7	7,152	5,775	5,304	244,873	6,482	N/A
10	2-Dec-14	66.3	7,234	5,788	5,134	245,197	6,541	N/A
11	3-Dec-14	64.6	7,084	5,533	5,564	244,147	6,637	N/A
12	3-Dec-14	62.2	6,975	5,566	5,657	247,868	6,748	N/A
13	3-Dec-14	64.9	6,789	5,458	5,264	245,427	6,610	N/A
14	3-Dec-14	65.0	6,947	5,480	5,061	246,291	6,562	N/A
15	4-Dec-14	62.5	7,179	5,725	5,210	247,200	6,551	N/A
16	4-Dec-14	63.1	6,983	5,737	5,236	244,576	6,575	N/A
17	4-Dec-14	64.6	7,035	5,478	5,312	240,608	6,451	N/A
18	5-Dec-14	61.1	6,996	5,833	5,186	243,825	6,554	N/A
19	5-Dec-14	63.9	6,874	5,422	5,330	241,900	6,393	N/A
20	5-Dec-14	63.8	7,041	5,464	5,302	241,043	6,409	N/A
21	6-Dec-14	61.4	7,185	5,817	5,310	244,720	6,520	N/A
22	6-Dec-14	62.4	6,830	5,668	5,349	245,624	6,545	N/A
23	6-Dec-14	64.3	6,981	5,469	5,498	244,977	6,373	N/A
24	7-Dec-14	60.6	7,165	5,850	5,314	219,000	6,789	N/A
25	7-Dec-14	60.3	6,973	5,696	5,209	186,980	6,185	N/A
26	7-Dec-14	66.6	6,941	5,477	5,345	246,050	6,326	N/A
27	8-Dec-14	66.8	6,987	5,512	5,386	241,820	6,167	N/A
28	8-Dec-14	60.3	6,499	5,639	5,374	242,858	6,289	N/A
29	8-Dec-14	65.2	6,657	6,070	5,429	245,416	6,259	N/A
30	9-Dec-14	64.2	6,601	5,462	5,420	212,408	5,635	N/A
31	9-Dec-14	64.5	6,653	5,456	5,236	243,065	6,337	N/A
32	9-Dec-14	65.5	6,618	5,602	5,458	246,087	6,143	N/A
33	10-Dec-14	64.1	6,634	5,608	5,518	245,446	6,133	N/A
34	10-Dec-14	63.7	6,874	5,789	5,659	245,386	6,225	N/A
35	10-Dec-14	64.6	7,227	5,636	5,436	226,352	6,722	N/A
36	10-Dec-14	62.5	7,046	5,682	5,314	236,323	6,156	N/A
37	11-Dec-14	65.8	6,890	5,713	5,376	246,054	6,090	N/A
38	11-Dec-14	65.0	6,881	5,623	5,687	245,871	6,156	N/A
39	11-Dec-14	63.7	6,840	5,598	5,743	242,637	6,056	N/A
40	11-Dec-14	65.5	6,767	5,698	5,294	242,619	5,971	N/A
41	12-Dec-14	63.6	6,700	5,616	5,267	245,573	6,103	N/A
42	12-Dec-14	63.7	6,954	5,787	5,695	248,988	6,101	N/A
43	12-Dec-14	64.7	6,931	5,871	5,832	245,349	5,990	N/A
44	12-Dec-14	65.6	6,873	5,836	5,625	248,453	5,992	N/A
45	13-Dec-14	63.8	6,939	6,042	5,512	245,728	6,073	N/A
46	13-Dec-14	63.7	6,839	5,787	5,763	243,822	5,923	N/A
47	13-Dec-14	65.6	6,718	5,678	5,752	246,159	5,837	N/A
48	14-Dec-14	65.0	6,731	5,924	5,700	244,506	5,872	N/A
49	14-Dec-14	65.1	6,975	5,821	5,631	245,869	6,510	N/A
50	14-Dec-14	64.5	6,759	6,206	5,819	245,177	5,788	N/A
51	15-Dec-14	65.8	6,636	6,132	5,766	246,184	5,777	N/A
52	15-Dec-14	63.1	7,145	6,034	5,747	246,425	5,857	N/A
53	15-Dec-14	63.8	6,798	6,211	4,567	242,732	6,072	N/A
	AVG=	64.1	6,985	5,771	5,398	12,715,582	334,359	TOTAL

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	45'	N/A	45'	N/A
Sandstone	0	47	0	47
Shale/ Siltstone	47	227	47	227
Siltstone/ Trace Coal	227	267	227	267
Siltstone/ Sandstone	267	847	267	847
Siltstone/ Limestone	847	907	847	907
Siltstone/ Shale	907	1,287	907	1,287
Siltstone/ Sandstone	1,287	1,447	1,287	1,447
Siltstone/ Trace Coal	1,447	1,467	1,447	1,467
Siltstone	1,467	1,552	1,467	1,552
Sandstone/ Trace Coal	1,552	1,647	1,552	1,647
Siltstone/ Shale	1,647	1,767	1,647	1,767
Siltstone/ Trace Coal	1,767	1,787	1,767	1,787
Siltstone/ Shale	1,787	1,840	1,787	1,842
Big Lime	1,840	1,925	1,842	1,928
Big Injun	1,925	2,182	1,928	2,191
Gantz Sand	2,182	2,353	2,191	2,365
Fifty Foot Sandstone	2,353	2,575	2,365	2,589
Gordon	2,575	2,918	2,589	2,942
Fifth Sandstone	2,918	2,970	2,942	2,995
Bayard	2,970	3,248	2,995	3,291
Warren	3,248	3,566	3,291	3,638
Speechley	3,566	3,757	3,638	3,843
Baltown	3,757	4,385	3,843	4,566
Bradford	4,385	4,828	4,566	5,067
Benson	4,828	5,065	5,067	5,330
Alexander	5,065	5,296	5,330	5,589
Elk	5,296	5,808	5,589	6,166
Rhinestreet	5,808	6,255	6,166	6,675
Sycamore	6,255	6,396	6,675	6,843
Middlesex	6,396	6,526	6,843	7,018
Burkett	6,526	6,565	7,018	7,081
Tully	6,565	6,625	7,081	7,205
Marcellus	6,625	NA	7,205	NA

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/29/2014
Job End Date:	12/15/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06403-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Lincoln Unit 1H
Longitude:	-80.74102500
Latitude:	39.20261100
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,899
Total Base Water Volume (gal):	15,313,536
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Fresh Water	Operator	Base Fluid	Fresh Water	7732-18-5	100.00000	90.60570	Density = 8.330
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00000	5.14148	
SAND - PREMIUM - 20/40, BULK, SK (101272933)	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00000	3.25031	
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00000	0.63997	
HCl > 10%	Halliburton	Solvent	Hydrochloric Acid 10-30%	7647-01-0	30.00000	0.20584	
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00000	0.06501	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01789	
Scalechek(R) LP-65 Scale Inhibitor	Halliburton	Scale Inhibitor	Ammonium chloride	12125-02-9	10.00000	0.00210	

Other Ingredient(s)	Formaldehyde	50-00-0			0.00021
Other Ingredient(s)	Crystalline Silica, Quartz	14808-60-7			0.00007
Other Ingredient(s)	Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1			0.00005
Other Ingredient(s)	Alcohols, C14-C15, ethoxylated	68951-67-7			0.00005
Other Ingredient(s)	Fatty acids, tall oil	Confidential			0.00005
Other Ingredient(s)	Olefins	Confidential			0.00001
Other Ingredient(s)	Olefins	Confidential			0.00001
Other Ingredient(s)	Sodium sulfate	7757-82-6			0.00000
Other Ingredient(s)	Olefins	Confidential			0.00000
Other Ingredient(s)	Olefins	Confidential			0.00000

* 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)

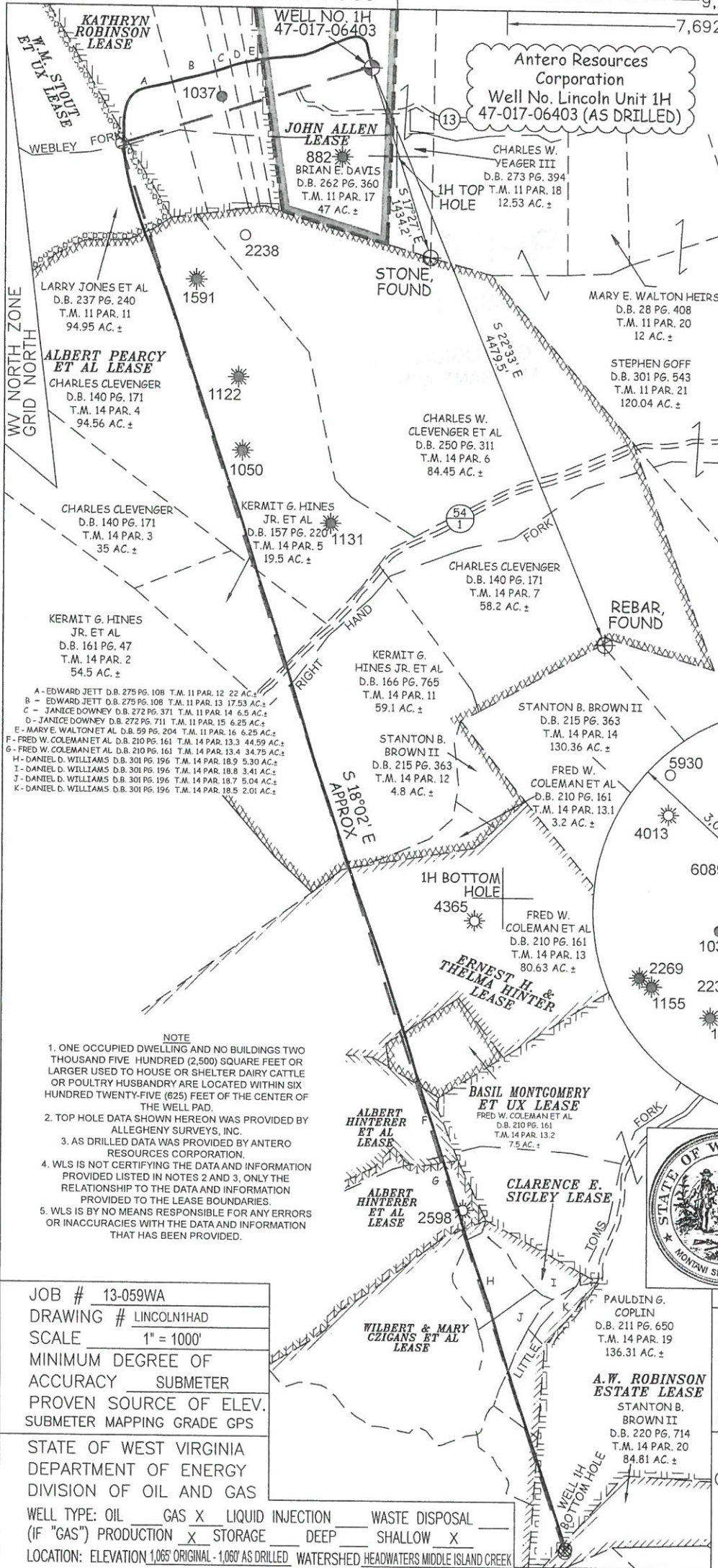
LATITUDE 39°12'30"

9,298'

7,692' TO BOTTOM HOLE
LATITUDE 39°12'30"

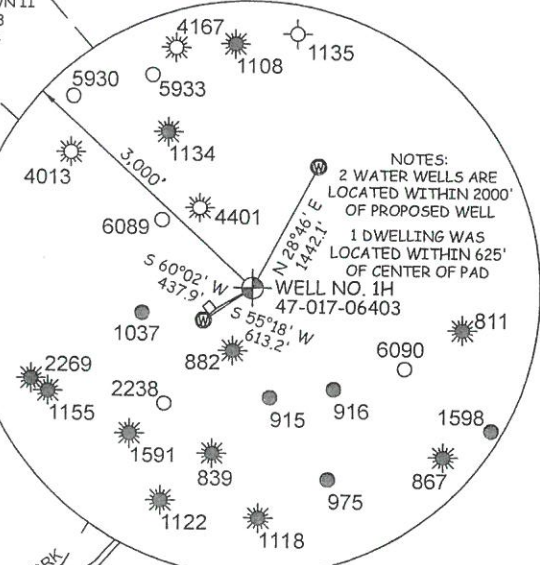
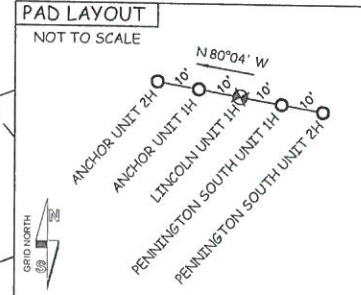
LONGITUDE 80°42'30"

LONGITUDE 80°42'30"



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 258,310ft E: 1,648,280ft
 LAT: 39°12'09.16" LON: 80°44'28.12"
BOTTOM HOLE INFORMATION:
 N: 247,627ft E: 1,649,742ft
 LAT: 39°10'23.77" LON: 80°44'07.68"
 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: 4,339,295m E: 522,366m
BOTTOM HOLE INFORMATION:
 N: 4,336,048m E: 522,866m



- 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.



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 # 13-059WA
 DRAWING # LINCOLN1HAD
 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 1,065' ORIGINAL - 1,060' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK

QUADRANGLE NEW MILTON 7.5' DISTRICT NEW MILTON COUNTY DODDRIDGE
 SURFACE OWNER BRIAN E. DAVIS ACREAGE 47 ACRES +/-
 OIL & GAS ROYALTY OWNER JOHN ALLEN; KATHRYN ROBINSON; W.M. STOUT ET UX; ALBERT PEARCY ET AL; ERNEST H. & THELMA HINTER; BASIL MONTGOMERY ET UX; ALBERT HINTERER ET AL; ALBERT HINTERER ET AL; CLARENCE E. SIGLEY; WILBERT & MARY CZIGANS ET AL; A.W. ROBINSON ESTATE LEASE ACREAGE 47 ACRES±; 59 ACRES±; 340 ±; 375 ACRES±; 80.63 AC±; 7.5 AC±; 44.5 AC±; 34 AC±; 150 AC±; 136AC±; 91 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 6,869' TVD 17,908' 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

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

DATE 06/25/15
 OPERATOR'S WELL# LINCOLN UNIT #1H
 API WELL # 47 - 017 - 06403
 STATE COUNTY PERMIT