

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

API 47 - 017 - 06201 County Doddridge District Central
Quad West Union 7.5' Pad Name Jonathan Davis Pad Field/Pool Name ---
Farm name Davis, Jonathan L. Well Number Shale 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 4350023m Easting 514774m
Landing Point of Curve Northing 4350079.66m Easting 514323.26m
Bottom Hole Northing 4352079m Easting 513507m

Elevation (ft) 1146' 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 3/27/2013 Date drilling commenced 10/24/2013 Date drilling ceased 1/11/2014
Date completion activities began 3/30/2014 Date completion activities ceased 6/8/2014
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 179', 270' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 757' Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

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Reviewed by:
AL 5/27/15
W.S. 6/2/15
06/05/2015

API 47-017 - 06201 Farm name Davis, Jonathan L. Well number Shale 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"	43'	New	133# J-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	455'	New	48# J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2545'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	14569'	New	20# P-110	N/A	Y
Tubing		2-3/8"	6972'		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	86	0'	8 Hrs.
Surface	Class A	558 sx	15.6	1.18	240	0'	8 Hrs.
Coal							
Intermediate 1	Class A	933 sx	15.6	1.18	771	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	944 sx Lead 1234sx Tail	13.5 Lead 15.2 Tail	1.44 Lead 1.80 Tail	3320	-500 into intermediate casing	8 Hrs.
Tubing							

Drillers TD (ft) 14569' MD, 6647' TVD (BHL), 6666' (Deepest Point Drilled) Loggers TD (ft) 14523' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6406'

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 _____

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API 47- 017 - 06201

Farm name Davis, Jonathan L.

Well number Shale Unit 1H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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

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API 47- 017 - 06201 Farm name Davis, Jonathan L. Well number Shale Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6618' (TOP)</u>	<u>TVD</u>	<u>7037' (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 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs
 OPEN FLOW Gas 13562 mcfpd Oil 54 bpd NGL --- bpd Water 322 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 EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP
 Address 2640 Reach Rd. City Williamsport State PA Zip 17701
 Logging Company Rush Wellsite Services
 Address 600 Alpha Drive City Canonsburg State PA Zip 15317
 Cementing Company Allied Oil & Gas Services, LLC
 Address 1036 East Main St. City Bridgeport State WV Zip 26330
 Stimulating Company GoFrac
 Address 62787 Philips Rd. City Cambridge State OH Zip 43725

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
 Signature *Kara Quackenbush* Title Permit Representative Date 1/22/2015

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API 47-017-06201 Farm Name Davis, Jonathan L. Well Number Shale Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	30-Mar-14	14,312	14,481	60	Marcellus
2	12-Apr-14	14,111	14,280	60	Marcellus
3	12-Apr-14	13,910	14,079	60	Marcellus
4	13-Apr-14	13,709	13,878	60	Marcellus
5	13-Apr-14	13,508	13,677	60	Marcellus
6	14-Apr-14	13,307	13,476	60	Marcellus
7	14-Apr-14	13,106	13,275	60	Marcellus
8	15-Apr-14	12,905	13,074	60	Marcellus
9	15-Apr-14	12,704	12,873	60	Marcellus
10	17-Apr-14	12,503	12,672	60	Marcellus
11	17-Apr-14	12,302	12,471	60	Marcellus
12	17-Apr-14	12,101	12,270	60	Marcellus
13	18-Apr-14	11,900	12,069	60	Marcellus
14	18-Apr-14	11,698	11,868	60	Marcellus
15	18-Apr-14	11,497	11,667	60	Marcellus
16	18-Apr-14	11,296	11,455	60	Marcellus
17	19-Apr-14	11,095	11,265	60	Marcellus
18	19-Apr-14	10,894	11,064	60	Marcellus
19	19-Apr-14	10,693	10,863	60	Marcellus
20	19-Apr-14	10,492	10,662	60	Marcellus
21	20-Apr-14	10,291	10,461	60	Marcellus
22	20-Apr-14	10,090	10,260	60	Marcellus
23	20-Apr-14	9,889	10,059	60	Marcellus
24	21-Apr-14	9,688	9,858	60	Marcellus
25	21-Apr-14	9,487	9,657	60	Marcellus
26	22-Apr-14	9,286	9,456	60	Marcellus
27	22-Apr-14	9,085	9,255	60	Marcellus
28	22-Apr-14	8,884	9,054	60	Marcellus
29	23-Apr-14	8,683	8,853	60	Marcellus
30	23-Apr-14	8,482	8,652	60	Marcellus
31	23-Apr-14	8,281	8,451	60	Marcellus
32	23-Apr-14	8,080	8,249	60	Marcellus
33	24-Apr-14	7,879	8,048	60	Marcellus
34	24-Apr-14	7,678	7,847	60	Marcellus
35	24-Apr-14	7,477	7,646	60	Marcellus
36	24-Apr-14	7,276	7,445	60	Marcellus
37	25-Apr-14	7,075	7,244	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 (bbls)	Amount of Nitrogen/ other (units)
1	11-Apr-14	77.6	7,575	5,629	4,794	314,140	7,776	N/A
2	12-Apr-14	73.9	7,237	5,690	4,608	259,200	8,090	N/A
3	13-Apr-14	77.7	7,311	5,549	5,937	305,675	7,677	N/A
4	13-Apr-14	78.3	7,856	5,549	5,667	308,635	8,257	N/A
5	14-Apr-14	76.2	7,571	5,397	5,413	314,155	7,879	N/A
6	14-Apr-14	73.6	7,861	5,873	4,510	243,877	7,984	N/A
7	15-Apr-14	74.5	7,171	5,444	4,723	285,668	7,628	N/A
8	15-Apr-14	76.2	7,076	5,108	5,250	310,185	7,633	N/A
9	17-Apr-14	76.1	7,128	5,235	4,724	311,605	7,631	N/A
10	17-Apr-14	76.7	7,299	5,461	3,947	312,560	8,532	N/A
11	17-Apr-14	73.6	7,461	5,317	4,123	312,942	7,683	N/A
12	18-Apr-14	75.0	7,230	5,346	5,190	316,310	7,632	N/A
13	18-Apr-14	74.2	7,670	5,536	4,722	275,335	7,811	N/A
14	18-Apr-14	76.1	7,190	5,295	4,435	314,005	7,569	N/A
15	18-Apr-14	78.5	6,986	5,120	4,883	315,380	7,552	N/A
16	19-Apr-14	73.4	7,068	5,167	4,828	313,755	7,548	N/A
17	19-Apr-14	77.8	7,001	5,172	5,259	314,410	7,533	N/A
18	19-Apr-14	77.8	7,078	5,336	5,189	314,065	7,519	N/A
19	19-Apr-14	81.9	6,926	5,291	4,470	310,010	7,482	N/A
20	19-Apr-14	76.7	7,279	5,595	5,223	314,130	7,940	N/A
21	20-Apr-14	74.6	7,290	5,357	5,014	301,355	7,749	N/A
22	20-Apr-14	76.3	7,116	5,263	4,166	306,890	7,434	N/A
23	21-Apr-14	70.0	7,516	5,345	4,858	307,890	7,440	N/A
24	21-Apr-14	77.8	7,188	5,206	4,487	314,075	7,440	N/A
25	21-Apr-14	72.1	6,689	5,382	4,949	221,040	7,936	N/A
26	22-Apr-14	69.5	7,727	5,359	4,949	225,680	8,016	N/A
27	22-Apr-14	73.0	7,758	5,219	4,533	314,055	7,397	N/A
28	23-Apr-14	76.7	6,662	5,011	5,070	312,460	7,365	N/A
29	23-Apr-14	76.1	6,801	5,200	5,299	309,085	7,361	N/A
30	23-Apr-14	77.0	6,874	5,214	5,236	314,080	7,679	N/A
31	23-Apr-14	79.0	6,808	5,572	4,962	314,030	7,348	N/A
32	24-Apr-14	76.8	7,395	5,781	4,626	311,630	7,329	N/A
33	24-Apr-14	78.0	6,948	5,754	5,216	313,970	7,319	N/A
34	24-Apr-14	77.9	7,074	5,269	4,684	313,825	7,305	N/A
35	24-Apr-14	76.4	6,727	5,158	4,875	314,670	7,309	N/A
36	25-Apr-14	77.5	6,696	5,607	5,345	308,383	7,274	N/A
37	25-Apr-14	78.7	6,844	6,505	3,928	314,140	7,663	N/A
AVG=		76	7,192	5,414	4,867	11,183,300	282,720	TOTAL

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API 47-017-06201 Farm Name Davis, Jonathan L. Well Number Shale Unit 1H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Fresh Water	179'	N/A	179'	N/A
Fresh Water	270'	N/A	270'	N/A
Sandy shale	est. 32	532	est. 32	532
Shale	est. 532	1,132	est. 532	1132
Trace coal	est. 1132	1,210	est. 1132	1210
Shale	est. 1210	1742	est. 1210	1,742
Trace coal	est. 1742	1772	est. 1742	1772
Shale	est. 1772	1802	est. 1772	1802
Trace coal	est. 1802	1832	est. 1802	1832
Shale-Sand	est. 1832	1892	est. 1832	1892
Trace coal	est. 1892	1922	est. 1892	1922
Sandstone	est. 1922	2043	est. 1922	2043
Big Lime	2043	2133	2043	2133
Big Injun	2133	2248	2133	2248
Weir	2248	2699	2248	2699
Fifty Foot Sandstone	2699	2783	2699	2783
Gordon	2783	3100	2783	3100
Fifth Sandstone	3100	3128	3100	3128
Bayard	3128	3451	3128	3451
Speechley	3451	4281	3451	4299
Baltown	4281	4615	4299	4667
Bradford	4615	5038	4667	5137
Benson	5038	5299	5137	5430
Alexander	5299	6272	5430	6511
Sycamore	6272	6437	6511	6708
Middlesex	6437	6557	6708	6890
Burkett	6557	6584	6890	6946
Tully	6584	6618	6946	7037
Marcellus	6618	NA	7037	NA

*Please note Antero determines shallow formation tops based on mud and/or wireline logs that are only run on one well on a multi-well pad (Please reference Wireline Logs submitted for the Valentine Unit 1H API# 47-017-06083). 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:	4/11/2014
Job End Date:	4/25/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06201-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Shale Unit 1H
Longitude:	-80.82883600
Latitude:	39.29937800
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,666
Total Base Water Volume (gal):	11,858,154
Total Base Non Water Volume:	



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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
Freshwater	Republic Energy	Frac Base	Water	7732-18-5	100.00000	89.16162	None
40/70 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00000	6.28016	None
20/40 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00000	3.21876	None
100 Mesh	US Silica	Proppant	Sand	14808-60-7	100.00000	0.97213	None
SOS 1545	Ultrablend	Guar Gel	Hydrocarbons	64741-85-1	70.00000	0.06425	None
Plexslick 953	Chemplex	Friction Reducer	Water	7732-18-5	35.00000	0.02030	None
			Polyacrylamide-co-acrylic acid	Proprietary	32.00000	0.01856	None
			Hydrotreated Petroleum Distillate	64742-47-8	30.00000	0.01740	None
HCl Acid 10-15%	GoFrac	Acid	Alcohol Ethoxylate Surfactants	Proprietary	8.00000	0.00464	None
Plexicide 15G	Chemplex	Biocide	Hydrochloric Acid	7647-01-0	15.00000	0.02655	None
			Water	7732-18-5	90.00000	0.01578	None

			Glutaraldehyde	111-30-8	14.00000	0.00245	None
			Alkyl Dimethyl Benzyl Ammonium Chloride	68424-85-1	3.00000	0.00053	None
			Ethanol	64-17-5	3.00000	0.00053	None
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	3.00000	0.00053	None
Plexaid 673	Chemplex	Scale Inhibitor	Water	7732-18-5	85.00000	0.01124	None
			Methyl Alcohol	67-56-1	25.00000	0.00331	None
			Sodium Salt of Phosphonodimethylated Diamine	Proprietary	5.00000	0.00066	None
Sodium Persulfate	Chemplex	Active Breaker	Sodium Persulfate	7775-27-1	100.00000	0.00142	None
Greenflush	Chemplex	Cleaner	Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00074	None
Ferriplex 66	Chemplex	Iron Control	Acetic Acid	64-19-7	50.00000	0.00019	None
			Water	7732-18-5	35.00000	0.00014	None
			Citric Acid	77-92-9	30.00000	0.00012	None
Plexhib 256	Chemplex	Corrosion Inhibitor	Methyl Alcohol	67-56-1	70.00000	0.00020	None
			Alcohol Ethoxylate Surfactants	Proprietary	30.00000	0.00009	None
			Thiourea-formaldehyde copolymer	68527-49-1	30.00000	0.00009	None
			n-olefins	Proprietary	10.00000	0.00003	None
			Propargyl Alcohol	107-19-7	8.00000	0.00002	None
Plexbreak 145	Chemplex	Non-Emulsifier	Water	7732-18-5	66.00000	0.00021	None
			Methyl Alcohol	67-56-1	15.00000	0.00005	None
			Ethylene Glycol Monobutyl Ether	111-76-2	15.00000	0.00005	None
			Cocamide Diethanolamine Salt	68603-42-9	10.00000	0.00003	None
			Diethanolamine	111-42-2	5.00000	0.00002	None

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"

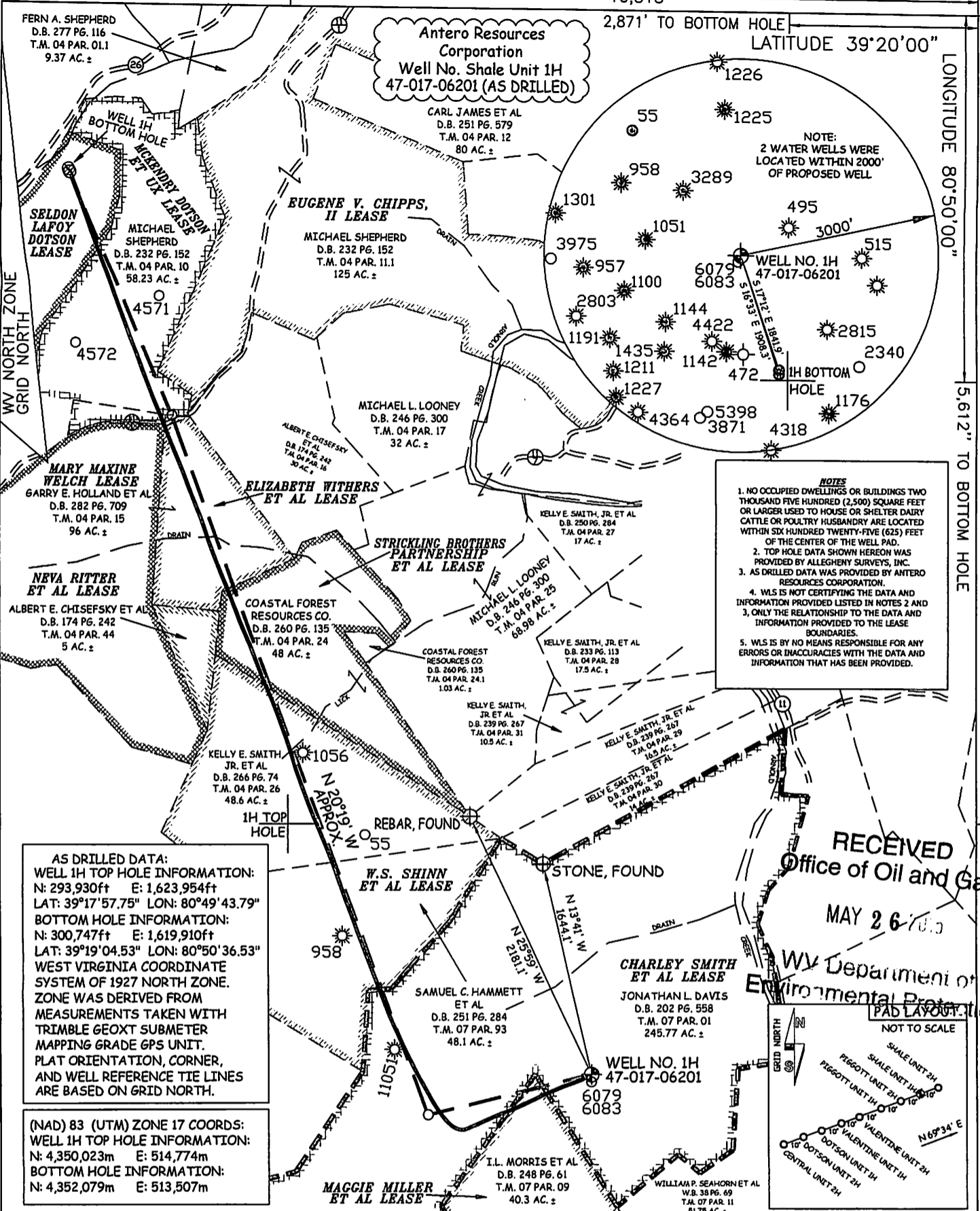
10,518'

LATITUDE 39°20'00"

LONGITUDE 80°50'00"

5,612' TO BOTTOM HOLE

LONGITUDE 80°47'30"



NOTE:
2 WATER WELLS WERE
LOCATED WITHIN 2000'
OF PROPOSED WELL

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

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 293,930ft E: 1,623,954ft
LAT: 39°17'57.75" LON: 80°49'43.79"
BOTTOM HOLE INFORMATION:
N: 300,747ft E: 1,619,910ft
LAT: 39°19'04.53" LON: 80°50'36.53"
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: 4,350,023m E: 514,774m
BOTTOM HOLE INFORMATION:
N: 4,352,079m E: 513,507m

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PAD LAYOUT
NOT TO SCALE

JOB # 12-163WA
DRAWING # SHALE1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



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

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

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 1,183' ORIGINAL - 1,146' AS-DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODD

SURFACE OWNER JONATHAN L. DAVIS ACREAGE 245.77 ACRES +/-

OIL & GAS ROYALTY OWNER CHARLEY SMITH ET AL; MAGGIE MILLER ET AL; W.S. SHINN ET AL; LEASE ACREAGE 213 ACRES+; 40 ACRES+; 84 ACRES+;
STRICKLING BROTHERS PARTNERSHIP ET AL; ELIZABETH WITHERS ET AL; MARY MAXINE WELCH; MCKENDRY DOTSON ET UX; SELDON LAFOY DOTSON 58.05 ACRES+; 23.3 ACRES+; 96 ACRES+; 60 ACRES+; 27 ACRES+

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 6,647' TVD 14,569' MD

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

COUNTY NAME PERMIT