

AUG 17 2015

WR-35
Rev. 8/23/13

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

API 47 - 017 - 06270 County Doddridge District Grant
Quad Smithburg 7.5' Pad Name Revival Pad Field/Pool Name _____
Farm name Williams, Larry et al Well Number Milo 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 4,352,793m Easting 526,716m
Landing Point of Curve Northing 4,353,020.34m Easting 527,027.58m
Bottom Hole Northing 4,354,936m Easting 526,374m

Elevation (ft) 1,376' 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 06/28/2013 Date drilling commenced 08/01/2014 Date drilling ceased 09/21/2014
Date completion activities began 11/12/2014 Date completion activities ceased 02/05/2015
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 427' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1,687' 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: _____

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API 47-017 - 06270

Farm name Williams, Larry et al

Well number Milo 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"	484'	New	48#; H-40	N/A	Yes*
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,569'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	14,537'	New	20#; P-110	N/A	Yes
Tubing		2 3/8"	7,562'		5.95#; N-80	N/A	
Packer type and depth set	N/A						

Comment Details *Initial surface casing (675 sacks) failed to bring returns to surface. Top-off job (202 sacks) was performed, which was successful in bringing returns to surface.

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	100 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	877 sx*	15.2	1.3	336	0'	8 Hrs.
Coal							
Intermediate 1	Class A	949 sx	15.6	1.18	805	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,136 sx (Lead); 1,130 sx (Tail)	14.5 (Lead); 15.2 (Tail)	1.3 (Lead); 1.86 (Tail)	2,856	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14,537' MD; 7,311' TVD (BHL); 7,318' TVD (Deepest Point Drilled)

Loggers TD (ft) 14,483'

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,912'

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Mt. Salem Revival Unit 1H, API #47-017-06269). Please reference the wireline logs submitted with Form WR-35 for the Mt. Salem Revival Unit 1H. A Cement Bond Log has been included with this submittal.

Check all wireline logs run **
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

Conductor- 0
 Surface- 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate- 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production- 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47- 017 - 06270 Farm name Williams, Larry et al Well number Milo Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	7,196' (top) TVD	7,623' (top) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3,550 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 9,970 mcfpd Oil 3 bpd NGL _____ bpd Water 7 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 Patterson - UTI Drilling Company LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

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 Baker Hughes
Address 837 Philippi plke City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-7230
Signature *Megan C. Darling* Title Permitting Agent Date 08/14/2015

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06270 Farm Name Williams, Larry et al Well Number Milo Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12-Nov-14	14,276	14,445	60	Marcellus
2	3-Jan-15	14,076	14,245	60	Marcellus
3	3-Jan-15	13,876	14,045	60	Marcellus
4	3-Jan-15	13,676	13,844	60	Marcellus
5	4-Jan-15	13,475	13,644	60	Marcellus
6	4-Jan-15	13,275	13,444	60	Marcellus
7	4-Jan-15	13,075	13,244	60	Marcellus
8	5-Jan-15	12,874	13,043	60	Marcellus
9	5-Jan-15	12,674	12,843	60	Marcellus
10	5-Jan-15	12,474	12,643	60	Marcellus
11	6-Jan-15	12,273	12,442	60	Marcellus
12	6-Jan-15	12,073	12,242	60	Marcellus
13	6-Jan-15	11,873	12,042	60	Marcellus
14	8-Jan-15	11,672	11,841	60	Marcellus
15	8-Jan-15	11,472	11,641	60	Marcellus
16	9-Jan-15	11,272	11,441	60	Marcellus
17	9-Jan-15	11,072	11,240	60	Marcellus
18	9-Jan-15	10,871	11,040	60	Marcellus
19	10-Jan-15	10,671	10,840	60	Marcellus
20	10-Jan-15	10,471	10,640	60	Marcellus
21	10-Jan-15	10,270	10,439	60	Marcellus
22	10-Jan-15	10,070	10,239	60	Marcellus
23	11-Jan-15	9,870	10,039	60	Marcellus
24	11-Jan-15	9,669	9,838	60	Marcellus
25	11-Jan-15	9,469	9,638	60	Marcellus
26	11-Jan-15	9,269	9,438	60	Marcellus
27	12-Jan-15	9,068	9,237	60	Marcellus
28	12-Jan-15	8,868	9,037	60	Marcellus
29	12-Jan-15	8,668	8,837	60	Marcellus
30	13-Jan-15	8,467	8,636	60	Marcellus
31	13-Jan-15	8,267	8,436	60	Marcellus
32	13-Jan-15	8,067	8,236	60	Marcellus
33	13-Jan-15	7,867	8,035	60	Marcellus
34	14-Jan-15	7,666	7,835	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	2-Jan-15	65.0	6,832	0	5,186	79,500	6,769	N/A
2	3-Jan-15	64.0	6,957	5,836	5,112	247,493	6,600	N/A
3	3-Jan-15	67.0	7,171	5,883	5,345	247,181	6,869	N/A
4	3-Jan-15	66.0	7,056	5,897	4,949	249,453	6,580	N/A
5	4-Jan-15	65.0	6,912	5,805	4,992	243,605	6,565	N/A
6	4-Jan-15	70.4	7,136	5,623	4,862	243,928	6,506	N/A
7	4-Jan-15	69.0	7,092	5,719	5,335	243,856	6,424	N/A
8	5-Jan-15	65.0	6,747	5,564	4,674	247,641	6,640	N/A
9	5-Jan-15	72.5	7,169	5,731	5,108	244,699	6,454	N/A
10	5-Jan-15	72.0	7,064	5,630	4,893	244,988	6,616	N/A
11	6-Jan-15	64.0	6,777	5,683	4,431	245,027	6,597	N/A
12	6-Jan-15	65.2	6,866	5,711	4,785	248,538	6,364	N/A
13	6-Jan-15	65.6	6,898	5,658	4,934	245,929	6,546	N/A
14	8-Jan-15	64.0	6,750	5,548	5,040	243,179	6,704	N/A
15	8-Jan-15	64.0	6,720	5,495	5,050	243,576	6,882	N/A
16	9-Jan-15	64.0	6,692	5,724	5,116	247,931	6,771	N/A
17	9-Jan-15	62.9	6,630	5,511	4,550	246,201	6,547	N/A
18	9-Jan-15	64.4	6,857	5,538	4,964	244,812	6,459	N/A
19	10-Jan-15	63.0	6,719	5,583	5,123	245,896	6,489	N/A
20	10-Jan-15	57.4	6,533	5,599	5,308	244,947	6,545	N/A
21	10-Jan-15	63.3	6,680	5,402	5,302	245,471	6,313	N/A
22	10-Jan-15	63.0	6,498	5,409	5,074	245,472	6,460	N/A
23	11-Jan-15	63.0	6,645	5,590	4,832	245,472	6,400	N/A
24	11-Jan-15	64.7	6,723	5,317	5,101	245,600	6,320	N/A
25	11-Jan-15	64.5	6,471	5,413	5,423	244,081	6,120	N/A
26	11-Jan-15	62.0	6,322	5,487	5,328	243,377	6,171	N/A
27	12-Jan-15	59.0	6,352	5,479	5,103	242,291	6,082	N/A
28	12-Jan-15	64.0	6,502	5,445	5,176	244,803	6,068	N/A
29	12-Jan-15	66.0	6,720	5,504	5,480	243,003	6,068	N/A
30	13-Jan-15	62.0	6,378	5,644	5,614	234,160	6,691	N/A
31	13-Jan-15	68.0	6,241	5,446	5,083	246,044	6,386	N/A
32	13-Jan-15	65.0	6,237	5,353	5,434	247,896	6,120	N/A
33	13-Jan-15	65.0	6,045	5,271	5,419	244,906	6,227	N/A
34	14-Jan-15	66.0	6,050	5,755	4,343	245,762	6,138	N/A
	AVG=	64.9	6,689	5,419	5,073	8,166,718	219,491	TOTAL

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MORGANTOWN, WV

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	427'	N/A	427'	N/A
Shale	0	337	0	337
Siltstone/ Sandstone	337	597	337	597
Shale	597	707	597	707
Sandstone	707	837	707	837
Siltstone/ Shale	837	917	837	917
Shale	917	1,727	917	1,727
Sandstone	1,727	1,787	1,727	1,787
Shale	1,787	1,907	1,787	1,907
Sandstone/ Trace Coal	1,907	1,987	1,907	1,987
Sandstone	1,987	2,127	1,987	2,127
Sandstone/ Trace Coal	2,127	2,147	2,127	2,147
Shale/ Sandstone	2,147	2,237	2,147	2,237
Big Lime	2,237	2,335	2,237	2,335
Big Injun	2,335	2,794	2,335	2,794
Gantz Sand	2,794	2,909	2,794	2,909
Fifty Foot Sandstone	2,909	3,007	2,909	3,007
Gordon	3,007	3,351	3,007	3,351
Fifth Sandstone	3,351	3,403	3,351	3,403
Bayard	3,403	3,746	3,403	3,746
Warren	3,746	4,121	3,746	4,121
Speechley	4,121	4,355	4,121	4,355
Baltown	4,355	4,883	4,355	4,891
Bradford	4,883	5,348	4,891	5,392
Benson	5,348	5,575	5,392	5,647
Alexander	5,575	5,738	5,647	5,832
Elk	5,738	6,285	5,832	6,439
Rhinestreet	6,285	6,592	6,439	6,765
Sycamore	6,569	6,790	6,742	6,981
Middlesex	6,790	7,083	6,981	7,381
Burkett	7,083	7,112	7,381	7,428
Tully	7,112	7,196	7,428	7,623
Marcellus	7,196	N/A	7,623	N/A

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MORGANTOWN, WV

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MORGANTOWN, WV

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/2/2015
Job End Date:	1/14/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06270-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Milo Unit 1H
Longitude:	-80.69005300
Latitude:	39.32413600
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,318
Total Base Water Volume (gal):	9,767,268
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	Operator	Carrier	Water	7732-18-5	100.00000	90.47000	
Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		5.07581	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.31412	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.73900	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.22208	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.06458	SmartCare Product
GW-3	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.04003	
Calcium Chloride	Baker Hughes	Salts	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01913	

Scaletrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01643	SmartCare Product
Enzyme G-NE	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01286	SmartCare Product
Alpha 1427	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00930	SmartCare Product
Ferrolrol 300L	Baker Hughes	Iron Control	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00149	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00046	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00045	
Ingredients shown above are subject to 29 CFR 1910.1200(h) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.								
Ingredients in Additive (s) (MSDS and non- MSDS)			See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7	100.00000		9.12751	
			Water	7732-18-5	95.00000		0.24137	
			Guar Gum	9000-30-0	100.00000		0.04030	
			Hydrochloric Acid	7647-01-0	15.00000		0.03331	
			Calcium Chloride	10043-52-4	100.00000		0.01995	
			Poly (acrylamide-co-acrylic acid) partial sodium salt	82649-23-4	30.00000		0.01937	
			Hydrotreated Light Distillate	84742-47-8	30.00000		0.01937	
			Ethylene Glycol	107-21-1	45.00000		0.00739	
			Sodium Chloride	7647-14-5	5.00000		0.00435	
			2-Propanoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	20.00000		0.00328	
			Glutaraldehyde	111-30-8	30.00000		0.00279	
			Ammonium Chloride	12125-02-9	3.00000		0.00194	
			Oleamide DEA	93-83-4	2.00000		0.00129	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000		0.00129	
			Potassium Chloride	7447-40-7	5.00000		0.00112	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000		0.00093	
			Citric Acid	77-92-9	60.00000		0.00090	
			Hemicellulase Enzyme Concentrate	9025-56-3	5.00000		0.00064	
			Quaternary Ammonium Compound	88424-85-1	5.00000		0.00049	
			Ethanol	64-17-5	5.00000		0.00047	
			Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000		0.00032	
			Sorbitan Monooleate	1338-43-8	0.50000		0.00032	
			Mineral Oil	8042-47-5	70.00000		0.00032	

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MORGANTOWN, WV

LATITUDE 39°20'00"

6,665'

7,761' TO BOTTOM HOLE
LATITUDE 39°22'30"

3,383'

LONGITUDE 80°40'00"

LONGITUDE 80°40'00"

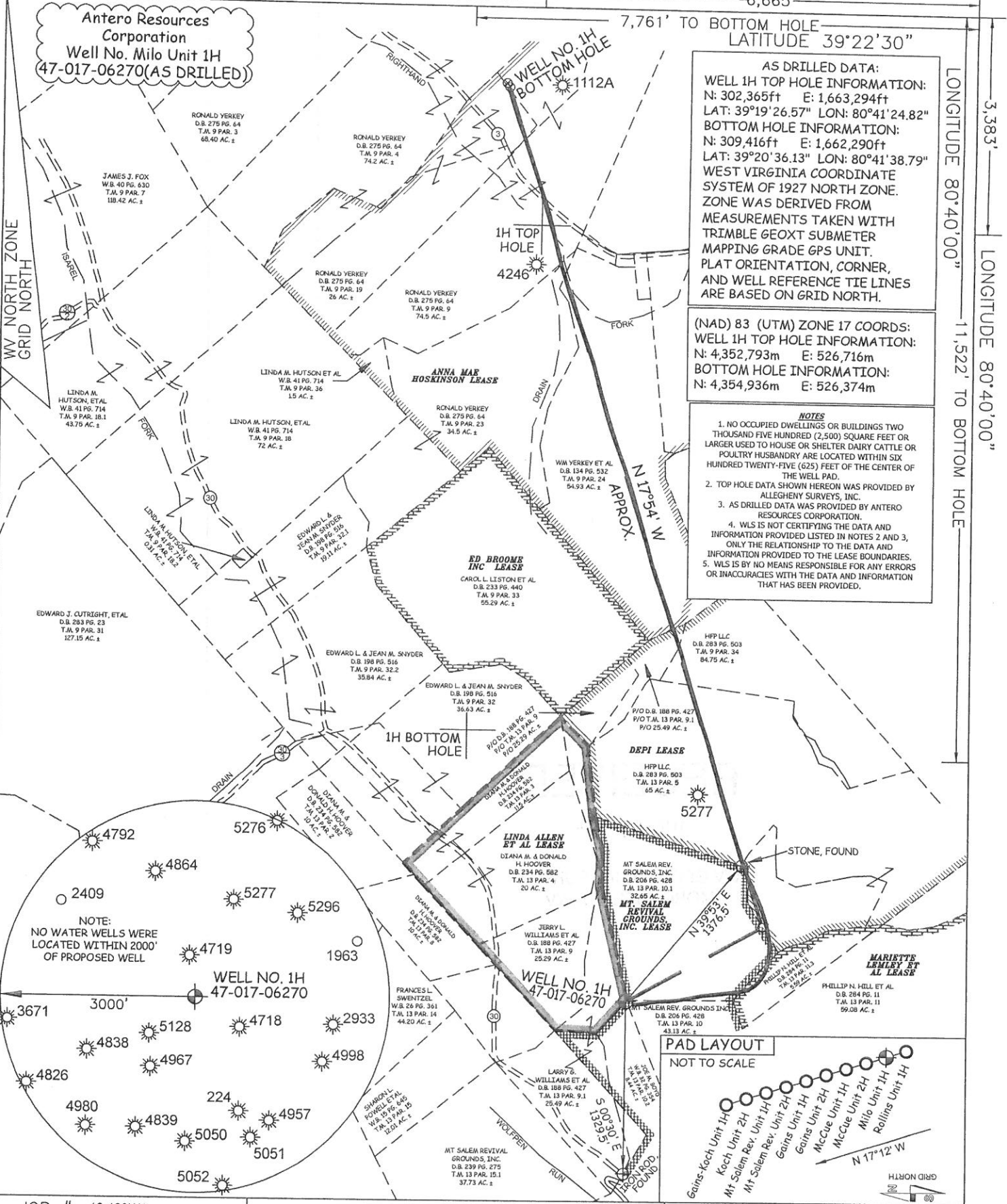
11,522' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Milo Unit 1H
47-017-06270 (AS DRILLED)

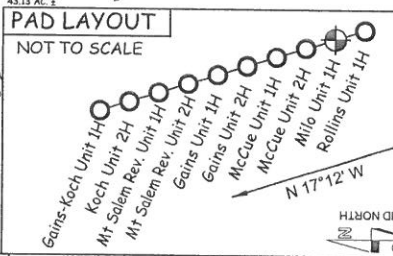
AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 302,365ft E: 1,663,294ft
LAT: 39°19'26.57" LON: 80°41'24.82"
BOTTOM HOLE INFORMATION:
N: 309,416ft E: 1,662,290ft
LAT: 39°20'36.13" LON: 80°41'38.79"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,352,793m E: 526,716m
BOTTOM HOLE INFORMATION:
N: 4,354,936m E: 526,374m

- 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.



NOTE:
NO WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL



JOB # 12-133WA
DRAWING # MILO1HAD
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 +/-
 - 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 04/22/15
OPERATOR'S WELL# MILOUNIT#1H

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1,402' ORIGINAL - 1,376' AS-DRILLED WATERSHED HEADWATERS OF MIDDLE ISLAND CREEK

API WELL # 47 - 017 - 06270
STATE COUNTY PERMIT

QUADRANGLE SMITHBURG 7.5'
SURFACE OWNER LARRY WILLIAMS ET AL ACREAGE 25.49 ACRES +/-
OIL & GAS ROYALTY OWNER LINDA ALLEN ET AL; MT. SALEM REVIVAL GROUNDS, INC.; LEASE ACREAGE 35.11 ACRES±; 72.7 ACRES±;
MARIETTE LEMLEY ET AL; DEPI; ANNA MAE HOSKINSON 66.87 ACRES±; 137 ACRES±; 214 ACRES±

DISTRICT GRANT COUNTY DODDRIDGE

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,310' TVD 14,537' MD

DIANNA STAMPER
CT CORPORATION SYSTEM

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
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PERMIT