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Office of Oil and Gas
MAY 18 2015
WV Department of
Environmental Protection

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

API 47 - 017 - 06263 County Doddridge District Grant
Quad Smithburg 7.5' Pad Name Delbert Leatherman Pad Field/Pool Name _____
Farm name Leatherman, Delbert E., et al Well Number McConnell Unit 2H
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 4,349,924m Easting 526,473m
Landing Point of Curve Northing 4,349,917.37m Easting 526,147.36m
Bottom Hole Northing 4,351,939m Easting 525,474m

Elevation (ft) 1,181' 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 06/25/2013 Date drilling commenced 02/01/2014 Date drilling ceased 04/19/2014
Date completion activities began 04/26/2014 Date completion activities ceased 07/11/2014
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 95', 215' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1136', 1600' Void(s) encountered (Y/N) depths None
Coal depth(s) ft 327', 1517' Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by:
A.L. S/26/15
W.S. 06/05/2015

API 47-017 - 06263 Farm name Leatherman, Delbert E., et al Well number McConnell Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	20"	40'	New	94#; K-55	N/A	Yes
Surface	17 1/2"	13 3/8"	395'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,581'	New	40#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	14,425'	New	20#; P-110	N/A	Yes
Tubing		2 3/8"	7,198'	New	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	1.18	109	0'	8 Hrs.
Surface	Class A	503 sx	15.6	1.18	274	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1,001 sx	15.6	1.18	808	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,170 sx (Lead); 1,083 sx (Tail)	14.5 (Lead); 15.2 (Tail)	1.3 (Lead); 1.88 (Tail)	2,828	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14,428' MD, 7,014' TVD (BHL & Deepest Point Drilled) Loggers TD (ft) 14,428'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,564'

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Langfit Unit 2H, API #47-017-06204). Please reference the wireline logs submitted with Form WR-35 for the Langfit Unit 2H. A Cement Bond Log has been included with this submittal.

Check all wireline logs run **
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature 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 - 06263 Farm name Leatherman, Delbert E., et al Well number McConnell Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6,886' (top) TVD	7,194' (top) MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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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 11,507 mcfpd Oil 1 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 Frontier Drilling, LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Cased Hole Solutions
Address 100 Arentzen Blvd. City Charleroi State PA Zip 15022

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

Stimulating Company US Well Services
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-7230
Signature Megan C. Darling Title Permitting Agent Date 05/15/2015

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

06/05/2015

API 47-017-06263 Farm Name <u>Leatherman, Delbert E., et al</u> Well Number <u>McConnell Unit 2H</u>					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	26-Apr-14	14,173	14,340	60	Marcellus
2	3-Jun-14	13,975	14,142	60	Marcellus
3	3-Jun-14	13,776	13,944	60	Marcellus
4	4-Jun-14	13,578	13,745	60	Marcellus
5	4-Jun-14	13,380	13,547	60	Marcellus
6	4-Jun-14	13,182	13,349	60	Marcellus
7	4-Jun-14	12,984	13,151	60	Marcellus
8	5-Jun-14	12,786	12,953	60	Marcellus
9	5-Jun-14	12,587	12,755	60	Marcellus
10	5-Jun-14	12,389	12,556	60	Marcellus
11	6-Jun-14	12,191	12,358	60	Marcellus
12	6-Jun-14	11,993	12,160	60	Marcellus
13	6-Jun-14	11,795	11,962	60	Marcellus
14	6-Jun-14	11,597	11,764	60	Marcellus
15	7-Jun-14	11,398	11,566	60	Marcellus
16	7-Jun-14	11,200	11,367	60	Marcellus
17	7-Jun-14	11,002	11,169	60	Marcellus
18	7-Jun-14	10,804	10,971	60	Marcellus
19	8-Jun-14	10,606	10,773	60	Marcellus
20	8-Jun-14	10,408	10,575	60	Marcellus
21	8-Jun-14	10,209	10,377	60	Marcellus
22	8-Jun-14	10,011	10,178	60	Marcellus
23	8-Jun-14	9,813	9,980	60	Marcellus
24	9-Jun-14	9,615	9,782	60	Marcellus
25	9-Jun-14	9,417	9,584	60	Marcellus
26	9-Jun-14	9,219	9,386	60	Marcellus
27	9-Jun-14	9,020	9,188	60	Marcellus
28	9-Jun-14	8,822	8,989	60	Marcellus
29	10-Jun-14	8,624	8,791	60	Marcellus
30	10-Jun-14	8,426	8,593	60	Marcellus
31	10-Jun-14	8,228	8,395	60	Marcellus
32	10-Jun-14	8,030	8,197	60	Marcellus
33	10-Jun-14	7,831	7,999	60	Marcellus
34	11-Jun-14	7,633	7,800	60	Marcellus
35	11-Jun-14	7,435	7,602	60	Marcellus
36	11-Jun-14	7,237	7,404	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	3-Jun-14	80.0	7,305	5,708	4,410	252,200	6,507	N/A
2	3-Jun-14	79.0	7,247	6,062	4,896	251,100	6,457	N/A
3	3-Jun-14	81.0	7,275	5,654	4,771	209,600	7,049	N/A
4	4-Jun-14	79.0	7,551	5,472	4,925	237,400	6,696	N/A
5	4-Jun-14	77.0	7,354	5,540	4,678	253,500	6,400	N/A
6	4-Jun-14	80.0	7,251	5,440	5,375	252,300	6,384	N/A
7	4-Jun-14	80.0	7,053	5,482	5,525	231,100	6,633	N/A
8	5-Jun-14	79.0	7,218	5,357	5,364	243,300	6,850	N/A
9	5-Jun-14	78.0	7,163	5,432	5,318	252,600	7,181	N/A
10	5-Jun-14	80.0	7,081	5,454	5,640	252,400	6,328	N/A
11	5-Jun-14	80.0	6,960	5,311	5,229	252,800	6,315	N/A
12	6-Jun-14	80.0	6,727	5,193	5,071	250,100	6,363	N/A
13	6-Jun-14	80.0	7,310	5,672	4,942	246,100	6,825	N/A
14	6-Jun-14	77.0	7,668	5,457	5,157	170,700	6,868	N/A
15	7-Jun-14	79.0	6,983	5,497	5,239	217,300	6,867	N/A
16	7-Jun-14	80.0	7,036	5,547	5,500	226,200	6,749	N/A
17	7-Jun-14	80.5	6,998	5,615	5,482	252,000	6,234	N/A
18	7-Jun-14	80.0	7,194	5,250	6,201	252,200	6,223	N/A
19	8-Jun-14	80.0	6,854	5,379	6,037	253,000	6,209	N/A
20	8-Jun-14	80.0	6,852	5,475	5,504	252,950	6,189	N/A
21	8-Jun-14	80.0	6,435	5,307	5,282	252,650	6,197	N/A
22	8-Jun-14	80.0	6,521	5,379	5,758	252,600	6,170	N/A
23	8-Jun-14	80.0	6,839	5,372	5,736	252,600	6,160	N/A
24	9-Jun-14	80.0	6,612	5,447	5,919	252,200	6,143	N/A
25	9-Jun-14	78.0	6,697	5,762	5,153	252,000	6,158	N/A
26	9-Jun-14	80.0	6,512	5,443	5,325	252,200	6,125	N/A
27	9-Jun-14	73.0	6,550	6,058	5,522	251,900	6,631	N/A
28	9-Jun-14	80.0	6,787	5,397	6,169	252,500	6,095	N/A
29	10-Jun-14	80.0	6,785	5,611	5,965	250,400	6,078	N/A
30	10-Jun-14	81.0	6,606	5,651	5,311	252,900	6,070	N/A
31	10-Jun-14	79.8	6,286	5,218	5,257	255,240	6,052	N/A
32	10-Jun-14	80.0	6,566	5,922	5,887	252,600	6,018	N/A
33	10-Jun-14	80.0	6,635	5,958	5,722	250,800	6,025	N/A
34	11-Jun-14	82.0	6,481	5,268	6,069	248,400	6,019	N/A
35	11-Jun-14	79.7	6,305	5,372	5,865	252,890	6,003	N/A
36	11-Jun-14	81.0	6,335	4,367	4,810	253,080	5,990	N/A
AVG=		80	6,890	5,487	5,417	8,843,810	229,261	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	95'	N/A	95'	N/A
Fresh Water	215'	N/A	215'	N/A
Sandstone/Siltstone w/ trace coal	0	147	0	147
Shale	Est. 147	327	Est. 147	327
Coal	Est. 327	347	Est. 327	347
Siltstone	Est. 347	637	Est. 347	637
Siltstone/Sandstone	Est. 637	1,237	Est. 637	1,237
Sandstone	Est. 1237	1,297	Est. 1237	1,297
Shale w/ trace coal	Est. 1297	1,317	Est. 1297	1,317
Shale w/ trace coal	Est. 1317	1,337	Est. 1317	1,337
Sandstone	Est. 1337	1,517	Est. 1337	1,517
Coal	Est. 1517	1,557	Est. 1517	1,557
Siltstone	Est. 1557	1,797	Est. 1557	1,797
Sandstone	Est. 1797	1,921	Est. 1797	1,921
Big Lime	1,921	2,023	1,921	2,023
Big Injun	2,023	2,461	2,023	2,461
Gantz Sand	2,461	2,580	2,461	2,580
Fifty Foot Sandstone	2,580	2,655	2,580	2,655
Gordon	2,655	2,963	2,655	2,963
Fifth Sandstone	2,963	2,985	2,963	2,985
Bayard	2,985	3,385	2,985	3,385
Warren	3,385	3,727	3,385	3,727
Speechley	3,727	4,042	3,727	4,045
Baltown	4,042	4,512	4,045	4,529
Bradford	4,512	5,015	4,529	5,061
Benson	5,015	5,283	5,061	5,348
Alexander	5,283	5,501	5,348	5,581
Elk	5,501	6,053	5,581	6,169
Rhinestreet	6,053	6,399	6,169	6,541
Sycamore	6,399	6,637	6,541	6,806
Middlesex	6,637	6,778	6,806	6,988
Burkett	6,778	6,806	6,988	7,030
Tully	6,806	6,886	7,030	7,194
Marcellus	6,886	NA	7,194	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 Langfitt Unit 2H API# 47-017-06204). 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:	6/3/2014
Job End Date:	6/11/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06263-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	McConnell Unit 2H
Longitude:	-80.69298600
Latitude:	39.29829200
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,014
Total Base Water Volume (gal):	9,628,970
Total Base Non Water Volume:	440,067



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	89.81184	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	9.89070	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.09784	
	J.S. Well Services, LLC	Gelling Agents	Hydrogen Chloride	7641-01-1	18.00000	0.02337	
	J.S. Well Services, LLC	Friction Reducer	Guar Gum	9000-30-0	50.00000	0.04040	
			Petroleum Distillates	64742-47-8	60.00000	0.03826	
			Suspending agent (solid)	14808-60-7	3.00000	0.00616	
			Surfactant	68439-51-0	3.00000	0.00242	
W/FRA-405	J.S. Well Services, LLC	Friction Reducer	Water	7732-18-5	40.00000	0.02248	
			Anionic Polyacrylamide	Proprietary		0.02248	
			Petroleum Distillates	64742-47-8	22.00000	0.01810	
			Crystalline Salt	12125-02-9	5.00000	0.00281	

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SI-1000	J.S. Well Services, LLC	Scale Inhibitor	Ethoxylated alcohol blend	Proprietary	5.00000	0.00281
			Anionic Copolymer	Proprietary		0.00409
			Ethylene Glycol	107-21-1	20.00000	0.00369
			Water	7732-18-5	30.00000	0.00308
X-BAC 1020	J.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00461
			Deionized Water	7732-18-5	28.00000	0.00264
AP One	J.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00165
AI-300	J.S. Well Services, LLC	Acid Corrosion Inhibitor				
			Ethylene Glycol	107-21-1	31.00000	0.00023
			N,N-Dimethylformamide	68-12-2	15.00000	0.00007
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00006
			2-Butoxyethanol	111-76-2	7.00000	0.00006
			Cinnamaldehyde	104-55-2	5.00000	0.00006
			Water	7732-18-5	20.00000	0.00002
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00002
			Isopropyl Alcohol	67-63-0	3.00000	0.00001
			Triethyl Phosphate	78-40-0	3.00000	0.00001

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"

LATITUDE 39°20'00"

LONGITUDE 80°40'00"

LONGITUDE 80°40'00"

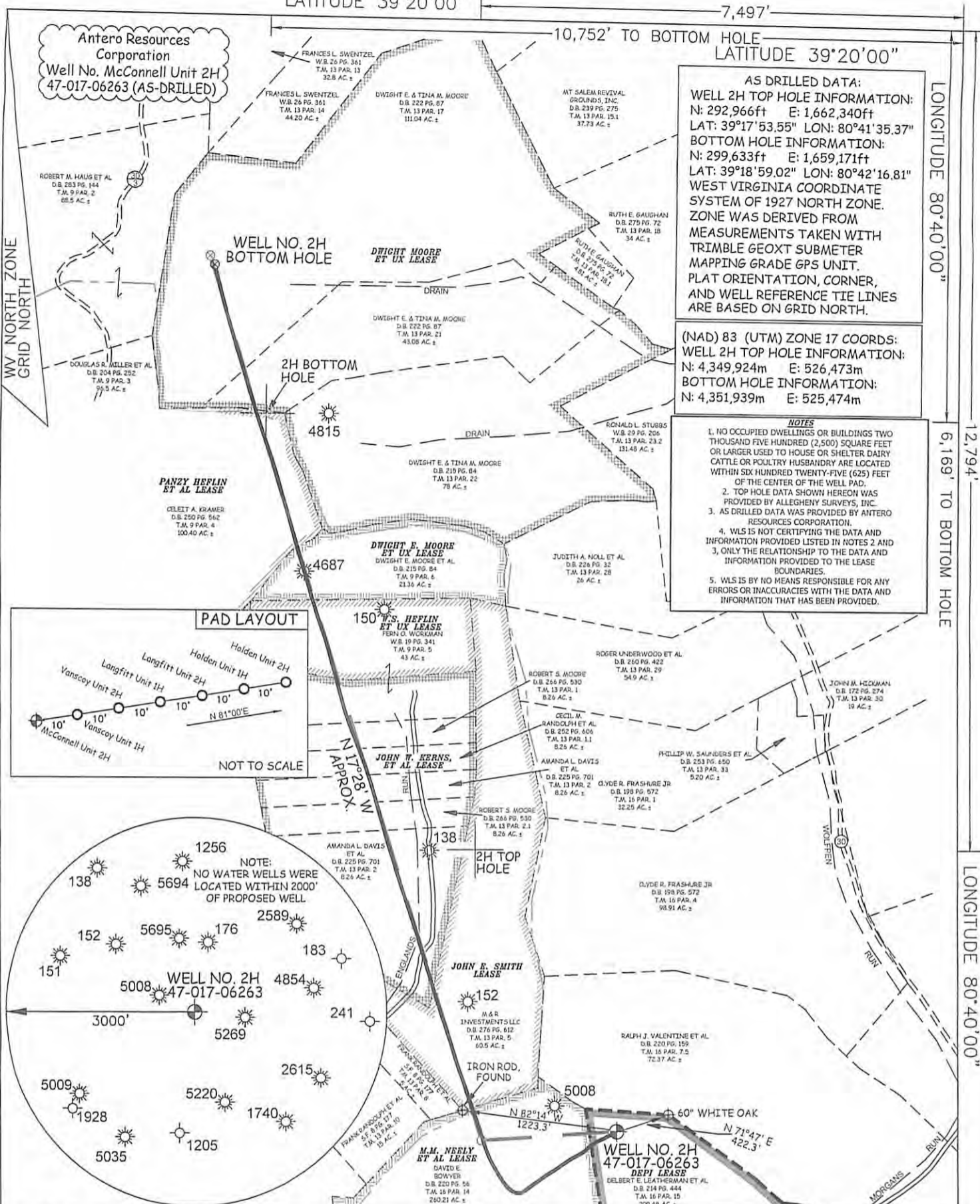
Antero Resources Corporation
Well No. McConnell Unit 2H
47-017-06263 (AS-DRILLED)

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 292,966ft E: 1,662,340ft
LAT: 39°17'53.55" LON: 80°41'35.37"
BOTTOM HOLE INFORMATION:
N: 299,633ft E: 1,659,171ft
LAT: 39°18'59.02" LON: 80°42'16.81"
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.

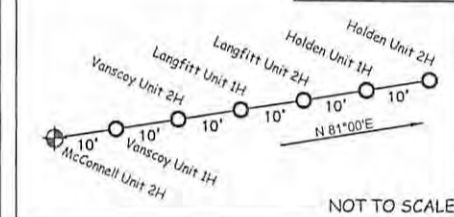
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 4,349,924m E: 526,473m
BOTTOM HOLE INFORMATION:
N: 4,351,939m E: 525,474m

- 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.

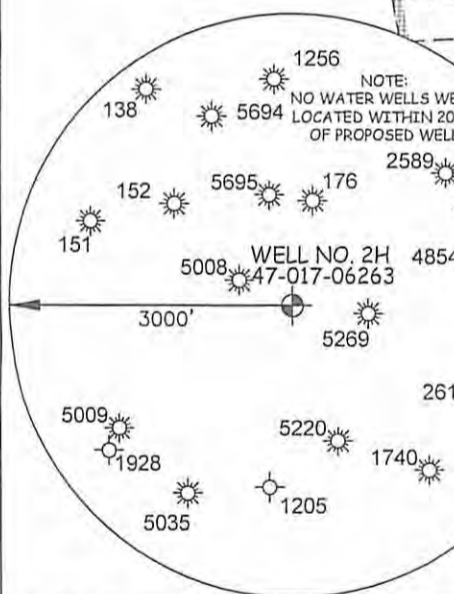
WV NORTH ZONE GRID NORTH



PAD LAYOUT



NOT TO SCALE



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

JOB # 12-059WA
DRAWING # MCCONNELLUNIT2HAD
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

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

LOCATION: ELEVATION 1,190' ORIGINAL - 1,181' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY ODODDR

SURFACE OWNER DELBERT E. LEATHERMAN ET AL ACREAGE 209.48 ACRES
 OIL & GAS ROYALTY OWNER DEPI; M.M. NEELY ET AL; JOHN E. SMITH; JOHN W. KERNS ET AL; LEASE ACREAGE 71 ACRES±; 300 ACRES±; 605 ACRES±; 126 ACRES±
 W.S. HEFLIN ET UX; DWIGHT E. MOORE ET UX; PANZY HEFLIN ET AL; DWIGHT MOORE ET UX 46 ACRES±; 21.36 ACRES±; 126 ACRES±; 238 ACRES±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULUS
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REFRUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,013' TVD 14,428' 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

DATE 04/17/15 OPERATOR'S WELL# MCCONNELL UNIT #2H
 API WELL # 47 - 017 06263
 STATE COUNTY PERMIT
 RECEIVED
 Office of Oil and Gas
 06/05/2015