WR-35
Rev. 8/23/13

Page ___ of ___

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

API 47- 017 - 06564 County Doddridge District Central
Quad Oxford 7.5' Pad Name Primm Pad Field/Pool Name ----
Farm name Primm, Olin E. & Mary Well Number Stella Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop St. 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 4343575m Easting 512713m
Landing Point of Curve Northing 4343609.46m Easting 513108.01m
Bottom Hole Northing 4340900m Easting 514401m

Elevation (ft) 1008' 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 9/3/2014 Date drilling commenced 9/13/2014 Date drilling ceased 3/31/2015
Date completion activities began 5/21/2015 Date completion activities ceased 9/11/2015
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 225' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 743', 2147' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 437' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

_____

WR-35
Rev. 8/23/13

API 47- 017 - 06564 Farm name Primm, Olin E. & Mary Well number Stella 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# H-40	N/A	Y
Surface	17- 1/2"	13- 3/8"	316'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2519'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	17055'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6880'		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	100 sx	15.5	1.18	38	0'	8 Hrs.
Surface	Class A	379 sx	15.6	1.18	219	0'	8 Hrs.
Coal							
Intermediate 1	Class A	932 sx	15.6	1.18	789	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1021 sx (Lead) 1590 sx (Tail)	14.5 Lead 15.2 Tail	1.30 Lead 1.86 Tail	3445	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17055' MD, 6438' TVD (BHL), 6582' (Deepest Point Drilled) Loggers TD (ft) 17005'

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

Plug back procedure N/A

Kick off depth (ft) 6451'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Callie Unit 2H API #47-017-06193). Please reference the wireline logs submitted with Form WR-35 for Callie 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 aboce 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

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 017 - 06564 Farm name Primm, Olin E. & Mary Well number Stella Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

*PLEASE SEE ATTACHED 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 ATTACHED EXHIBIT 2

Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 017 - 06564 Farm name Primm, Olin E. & Mary Well number Stella Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6541' (TOP) TVD	6992' (TOP) MD

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	Oil	NGL	Water	GAS MEASURED BY
	12225 mcfpd	53 bpd	--- bpd	4 bpd	☐ 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_2S, ETC)
	0		0		

*PLEASE SEE ATTACHED 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 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 Dr. City Jane Lew State WV Zip 26378
Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature Kara Quackenbush Title Permit Representative Date 10/15/2015

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

API 47-017-06564 **Farm Name** Primm, Olin E. & Mary **Well Number** Stella Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	21-May-15	16,795	16,963	60	Marcellus
2	1-Jul-15	16,596	16,764	60	Marcellus
3	1-Jul-15	16,396	16,564	60	Marcellus
4	1-Jul-15	16,197	16,365	60	Marcellus
5	2-Jul-15	15,998	16,166	60	Marcellus
6	2-Jul-15	15,799	15,967	60	Marcellus
7	2-Jul-15	15,599	15,767	60	Marcellus
8	3-Jul-15	15,400	15,568	60	Marcellus
9	3-Jul-15	15,201	15,369	60	Marcellus
10	3-Jul-15	15,002	15,170	60	Marcellus
11	3-Jul-15	14,802	14,970	60	Marcellus
12	3-Jul-15	14,603	14,771	60	Marcellus
13	4-Jul-15	14,404	14,572	60	Marcellus
14	4-Jul-15	14,205	14,373	60	Marcellus
15	4-Jul-15	14,005	14,173	60	Marcellus
16	5-Jul-15	13,806	13,974	60	Marcellus
17	5-Jul-15	13,607	13,775	60	Marcellus
18	5-Jul-15	13,408	13,576	60	Marcellus
19	6-Jul-15	13,208	13,376	60	Marcellus
20	6-Jul-15	13,009	13,177	60	Marcellus
21	21-Jul-15	12,810	12,978	60	Marcellus
22	21-Jul-15	12,610	12,779	60	Marcellus
23	22-Jul-15	12,411	12,579	60	Marcellus
24	22-Jul-15	12,212	12,380	60	Marcellus
25	22-Jul-15	12,013	12,181	60	Marcellus
26	22-Jul-15	11,813	11,982	60	Marcellus
27	22-Jul-15	11,614	11,782	60	Marcellus
28	23-Jul-15	11,415	11,583	60	Marcellus
29	23-Jul-15	11,216	11,384	60	Marcellus
30	23-Jul-15	11,016	11,184	60	Marcellus
31	24-Jul-15	10,817	10,985	60	Marcellus
32	24-Jul-15	10,618	10,786	60	Marcellus
33	24-Jul-15	10,419	10,587	60	Marcellus
34	24-Jul-15	10,219	10,387	60	Marcellus
35	24-Jul-15	10,020	10,188	60	Marcellus
36	25-Jul-15	9,821	9,989	60	Marcellus
37	25-Jul-15	9,622	9,790	60	Marcellus
38	25-Jul-15	9,422	9,590	60	Marcellus
39	25-Jul-15	9,223	9,391	60	Marcellus
40	25-Jul-15	9,024	9,192	60	Marcellus
41	26-Jul-15	8,825	8,993	60	Marcellus
42	26-Jul-15	8,625	8,793	60	Marcellus
43	26-Jul-15	8,426	8,594	60	Marcellus
44	27-Jul-15	8,227	8,395	60	Marcellus
45	27-Jul-15	8,028	8,196	60	Marcellus
46	27-Jul-15	7,828	7,996	60	Marcellus
47	27-Jul-15	7,629	7,797	60	Marcellus
48	27-Jul-15	7,430	7,598	60	Marcellus
49	28-Jul-15	7,230	7,399	60	Marcellus
50	28-Jul-15	7,031	7,199	60	Marcellus

API 47-017-06564 **Farm Name** Primm, Olin E. & Mary **Well Number** Stella Unit 2H

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	1-Jul-15	49.9	8,082	N/A	4,275	18,200	5,926	N/A
2	1-Jul-15	64.4	7,594	7,157	3,793	134,870	6,694	N/A
3	1-Jul-15	66.5	7,107	6,247	3,992	235,410	6,734	N/A
4	1-Jul-15	64.5	7,032	6,074	4,200	233,560	7,142	N/A
5	2-Jul-15	62.4	7,884	6,511	4,444	48,000	6,233	N/A
6	2-Jul-15	64.5	7,064	5,975	3,248	232,498	7,123	N/A
7	2-Jul-15	65.5	7,185	6,482	3,811	172,180	7,062	N/A
8	3-Jul-15	65.9	7,464	6,128	3,924	102,950	6,550	N/A
9	3-Jul-15	64.5	6,746	5,933	3,606	234,950	7,061	N/A
10	3-Jul-15	65.2	6,736	6,669	3,692	239,000	6,482	N/A
11	3-Jul-15	65.5	6,918	6,272	3,920	236,270	6,630	N/A
12	3-Jul-15	66.3	6,959	5,684	4,641	220,015	6,420	N/A
13	4-Jul-15	66.9	6,941	5,695	4,770	235,720	6,714	N/A
14	4-Jul-15	63.6	7,072	6,575	3,695	210,720	7,011	N/A
15	4-Jul-15	65.4	7,163	7,790	4,581	236,430	6,437	N/A
16	5-Jul-15	66.3	6,557	297	5,515	236,510	6,590	N/A
17	5-Jul-15	67.1	6,402	5,899	3,753	236,110	6,835	N/A
18	5-Jul-15	67.7	6,783	6,524	3,645	237,070	6,495	N/A
19	6-Jul-15	66.2	6,579	6,062	3,546	237,600	6,427	N/A
20	6-Jul-15	57.8	6,914	6,251	7,543	36,600	2,782	N/A
21	21-Jul-15	55.4	7,878	6,683	4,998	27,830	5,629	N/A
22	21-Jul-15	65.7	6,617	5,739	3,527	235,580	6,380	N/A
23	22-Jul-15	67.1	6,586	5,622	4,123	220,100	6,870	N/A
24	22-Jul-15	63.0	6,693	6,182	4,882	227,670	6,487	N/A
25	22-Jul-15	66.7	6,661	5,435	4,833	238,750	6,527	N/A
26	22-Jul-15	67.6	6,600	5,916	4,076	236,300	6,377	N/A
27	22-Jul-15	65.7	6,583	5,974	3,846	235,250	6,221	N/A
28	23-Jul-15	68.5	6,483	5,484	4,839	240,360	6,467	N/A
29	23-Jul-15	68.1	6,721	5,507	3,984	235,480	6,394	N/A
30	23-Jul-15	65.7	6,798	6,615	3,896	221,300	6,106	N/A
31	24-Jul-15	67.4	6,800	6,238	4,751	219,730	6,752	N/A
32	24-Jul-15	68.7	6,636	6,419	4,817	236,510	6,313	N/A
33	24-Jul-15	69.4	6,513	5,957	4,467	235,740	6,343	N/A
34	24-Jul-15	68.7	6,499	6,121	4,880	234,750	6,201	N/A
35	24-Jul-15	67.8	6,507	6,199	4,802	235,250	6,130	N/A
36	25-Jul-15	67.8	6,461	5,637	4,963	234,590	6,117	N/A
37	25-Jul-15	66.1	7,274	7,200	5,244	206,927	6,478	N/A
38	25-Jul-15	68.9	6,519	6,671	3,247	242,880	6,329	N/A
39	25-Jul-15	68.7	6,809	5,410	4,006	235,830	6,202	N/A
40	25-Jul-15	67.2	7,029	6,858	4,241	171,080	6,639	N/A
41	26-Jul-15	61.3	6,367	5,904	5,103	84,960	6,166	N/A
42	26-Jul-15	67.1	6,440	6,246	4,165	218,830	5,776	N/A
43	26-Jul-15	67.7	6,480	5,926	4,109	235,340	6,050	N/A
44	27-Jul-15	68.1	6,479	6,771	5,202	235,460	6,019	N/A
45	27-Jul-15	68.6	6,560	5,415	3,860	230,160	5,997	N/A
46	27-Jul-15	67.3	6,609	6,607	4,570	198,340	6,507	N/A
47	27-Jul-15	69.7	6,546	5,843	4,381	234,250	6,103	N/A
48	27-Jul-15	68.3	6,160	6,038	3,778	235,825	5,981	N/A
49	28-Jul-15	67.7	6,962	7,927	4,446	137,320	6,501	N/A
50	28-Jul-15	67.8	6,019	6,443	3,958	233,920	6,060	N/A
AVG=		**65.9**	**6,809**	**6,106**	**4,332**	**10,190,975**	**317,470**	TOTAL

API 47-017-06564 Farm Name Primm, Olin E. & Mary Well Number Stella Unit 2H

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	225'	N/A	225'	N/A
Shale	0	227	0	227
Sandstone	est. 227	437	est. 227	437
Coal	est. 437	457	est. 437	457
Sandy shale	est. 457	477	est. 457	477
Shale	est. 477	595	est. 477	595
Sandstone	est. 595	605	est. 595	605
Shale	est. 605	625	est. 605	625
Sandstone	est. 625	638	est. 625	638
Shale	est. 638	659	est. 638	659
Sandstone	est. 659	808	est. 659	808
Shale	est. 808	1175	est. 808	1175
Sandy shale	est. 1175	1235	est. 1175	1235
Trace coal	est. 1235	1257	est. 1235	1257
Shale	est. 1257	1421	est. 1257	1421
Sandstone	est. 1421	1445	est. 1421	1445
Sandy shale	est. 1445	1477	est. 1445	1477
Trace coal/shale	est. 1477	1542	est. 1477	1542
Sandstone	est. 1542	1683	est. 1542	1683
Sandy shale	est. 1683	1992	est. 1683	1996
Big Lime	1992	2036	1996	2040
Big Injun	2036	2299	2040	2303
Weir	2299	2635	2303	2639
Fifty Foot Sandstone	2635	3764	2639	2767
Gordon	3764	3049	2767	3053
Fifth Sandstone	3049	3064	3053	3068
Bayard	3064	3410	3068	3414
Speechley	3410	4099	3414	4114
Baltown	4099	4554	4114	4602
Bradford	4554	4951	4602	5045
Benson	4951	5236	5045	5362
Alexander	5236	6190	5362	6432
Sycamore	6190	6360	6432	6636
Middlesex	6360	6482	6636	6827
Burkett	6482	6510	6827	6889
Tully	6510	6541	6889	6992
Marcellus	6541	NA	6992	NA

*Please note Antero determines 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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/1/2015
Job End Date:	7/28/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06564-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Stella Unit 2H
Longitude:	-80.85268300
Latitude:	39.24139200
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,582
Total Base Water Volume (gal):	14,111,304
Total Base Non Water Volume:	547,197

FracFocus Chemical Disclosure Registry

GROUNDWATER PROTECTION COUNCIL

Oil & Gas

Hydraulic Fracturing Fluid Composition:

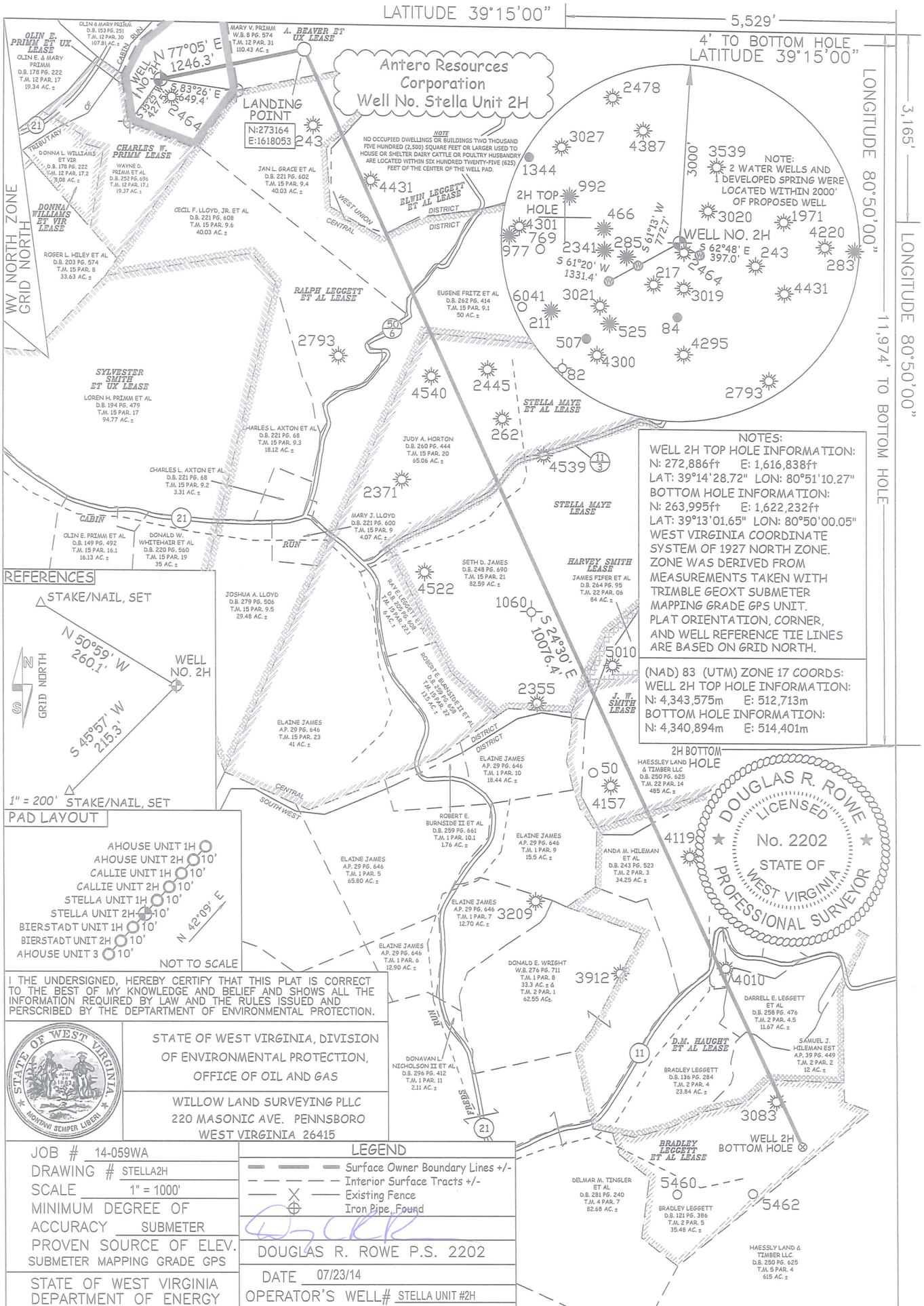
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Antero Resources	Base Fluid					
			Water	7732-18-5	100.00000	91.57156	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	7.92945	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.16166	
			Hydrogen Chloride	7647-01-0	18.00000	0.03862	
LGC-15	U.S. Well Services	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.08393	
			Petroleum Distillates	64742-47-8	60.00000	0.07949	
			Suspending agent (solid)	14808-60-7	3.00000	0.01284	
			Surfactant	68439-51-0	3.00000	0.00504	
WFRA-405	U.S. Well Services	Friction Reducer					
			Water	7732-18-5	40.00000	0.02942	
			Anionic Polyacrylamide	Proprietary	40.00000	0.02942	
			Sodium Chloride	7647-14-5	20.00000	0.01471	
			Petroleum Distillates	64742-47-8	20.00000	0.01184	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00368	

SI-1100	U.S. Well Services	Scale Inhibitor					
			Water	7732-18-5	80.00000	0.01037	
			Ethylene Glycol	107-21-1	25.00000	0.00366	
			Copolymer of Maleic and Acrylic acid	52255-49-9	10.00000	0.00153	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	7.50000	0.00131	
			Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.00084	
			Hexamethylene tramine penta (methylene phosphonic acid)	34690-00-1	5.00000	0.00084	
			Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	2.00000	0.00034	
K-BAC 1020	U.S. Well Services	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00447	
			Deionized Water	7732-18-5	28.00000	0.00255	
AP One	U.S. Well Services	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00212	
AI-301	U.S. Well Services	Acid Corrosion Inhibitors					
			Diethylene Glycol	111-46-6	30.00000	0.00012	
			Methenamine	100-97-0	20.00000	0.00010	
			Polyethylene polyamine	68603-67-8	10.00000	0.00004	
			Hydrogen Chloride	7647-01-0	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)


LATITUDE 39°15'00"
5,529'
4' TO BOTTOM HOLE
LATITUDE 39°15'00"
LONGITUDE 80°50'00"
3,165'
LONGITUDE 80°50'00"
11,974' TO BOTTOM HOLE
WV NORTH ZONE
GRID NORTH
Antero Resources Corporation
Well No. Stella Unit 2H
LANDING POINT
N:273164
E:1618053
WELL NO. 2H
N 77°05' E
1246.3'
S 83°26' E
649.4'
2464
2H TOP HOLE
S 61°13' W
727.7'
S 61°20' W
1331.4'
S 62°48' E
397.0'
3000'
NOTE:
2 WATER WELLS AND 1 DEVELOPED SPRING WERE LOCATED WITHIN 2000' OF PROPOSED WELL
NOTE
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.
OLIN E. PRIMM ET UX LEASE
OLIN E. & MARY PRIMM D.B. 178 PG. 222 T.M. 12 PAR. 17 19.34 AC. ±
OLIN & MARY PRIMM D.B. 153 PG. 251 T.M. 12 PAR. 30 107.81 AC. ±
A. BEAVER ET UX LEASE
MARY V. PRIMM W.B. 8 PG. 574 T.M. 12 PAR. 31 110.43 AC. ±
CHARLES W. PRIMM LEASE
WAYNE D. PRIMM ET AL D.B. 252 PG. 696 T.M. 12 PAR. 17.1 19.37 AC. ±
DONNA L. WILLIAMS ET VIR D.B. 178 PG. 222 T.M. 12 PAR. 17.2 9.08 AC. ±
DONNA WILLIAMS ET VIR LEASE
ROGER L. HILEY ET AL D.B. 203 PG. 574 T.M. 15 PAR. 8 33.63 AC. ±
JAN L. GRACE ET AL D.B. 221 PG. 602 T.M. 15 PAR. 9.4 40.03 AC. ±
CECIL F. LLOYD, JR. ET AL D.B. 221 PG. 608 T.M. 15 PAR. 9.6 40.03 AC. ±
ELWIN LEGGETT ET AL LEASE
WEST UNION DISTRICT
CENTRAL DISTRICT
RALPH LEGGETT ET AL LEASE
EUGENE FRITZ ET AL D.B. 262 PG. 414 T.M. 15 PAR. 9.1 50 AC. ±
SYLVESTER SMITH ET UX LEASE
LOREN H. PRIMM ET AL D.B. 194 PG. 479 T.M. 15 PAR. 17 94.77 AC. ±
STELLA MAYE ET AL LEASE
CHARLES L. AXTON ET AL D.B. 221 PG. 68 T.M. 15 PAR. 9.3 18.12 AC. ±
JUDY A. HORTON D.B. 260 PG. 444 T.M. 15 PAR. 20 65.06 AC. ±
CHARLES L. AXTON ET AL D.B. 221 PG. 68 T.M. 15 PAR. 9.2 3.31 AC. ±
STELLA MAYE LEASE
CABIN RUN
OLIN E. PRIMM ET AL D.B. 149 PG. 492 T.M. 15 PAR. 16.1 16.13 AC. ±
DONALD W. WHITEHAIR ET AL D.B. 220 PG. 560 T.M. 15 PAR. 19 35 AC. ±
MARY J. LLOYD D.B. 221 PG. 600 T.M. 15 PAR. 9 4.07 AC. ±
HARVEY SMITH LEASE
JAMES FIFER ET AL D.B. 264 PG. 95 T.M. 22 PAR. 06 84 AC. ±
SETH D. JAMES D.B. 248 PG. 690 T.M. 15 PAR. 21 82.59 AC. ±
JOSHUA A. LLOYD D.B. 279 PG. 506 T.M. 15 PAR. 9.5 29.48 AC. ±
RAE E. LEGGETT ET AL D.B. 305 PG. 609 T.M. 15 PAR. 22 6 AC. ±
ROBERT E. BURNSIDE ET AL D.B. 229 PG. 628 T.M. 15 PAR. 22 11.5 AC. ±
J. W. SMITH LEASE
ELAINE JAMES A.P. 29 PG. 646 T.M. 15 PAR. 23 41 AC. ±
ELAINE JAMES A.P. 29 PG. 646 T.M. 1 PAR. 10 18.44 AC. ±
HAESSLEY LAND & TIMBER LLC D.B. 250 PG. 625 T.M. 22 PAR. 14 485 AC. ±
2H BOTTOM HOLE
CENTRAL DISTRICT
SOUTH WEST DISTRICT
ROBERT E. BURNSIDE II ET AL D.B. 259 PG. 661 T.M. 1 PAR. 10.1 1.76 AC. ±
ELAINE JAMES A.P. 29 PG. 646 T.M. 1 PAR. 9 15.5 AC. ±
ANDA M. HILEMAN ET AL D.B. 243 PG. 523 T.M. 2 PAR. 3 34.25 AC. ±
ELAINE JAMES A.P. 29 PG. 646 T.M. 1 PAR. 5 65.80 AC. ±
ELAINE JAMES A.P. 29 PG. 646 T.M. 1 PAR. 7 12.70 AC. ±
ELAINE JAMES A.P. 29 PG. 646 T.M. 1 PAR. 6 12.90 AC. ±
DONALD E. WRIGHT W.B. 276 PG. 711 T.M. 1 PAR. 8 33.3 AC. ± & T.M. 2 PAR. 1 62.55 AC±.
DONAVAN L. NICHOLSON II ET AL D.B. 296 PG. 412 T.M. 1 PAR. 11 2.11 AC. ±
RUN
STEELE
DARRELL E. LEGGETT ET AL. D.B. 258 PG. 476 T.M. 2 PAR. 4.5 11.67 AC. ±
SAMUEL J. HILEMAN EST A.P. 39 PG. 449 T.M. 2 PAR. 2 12 AC. ±
D.M. HAUGHT ET AL LEASE
BRADLEY LEGGETT D.B. 136 PG. 284 T.M. 2 PAR. 4 23.84 AC. ±
WELL 2H BOTTOM HOLE
BRADLEY LEGGETT ET AL LEASE
DELMAR M. TINGLER ET AL D.B. 281 PG. 240 T.M. 4 PAR. 7 82.68 AC. ±
BRADLEY LEGGETT D.B. 121 PG. 386 T.M. 2 PAR. 5 35.48 AC. ±
HAESSLY LAND & TIMBER LLC D.B. 250 PG. 625 T.M. 5 PAR. 4 615 AC. ±
REFERENCES
STAKE/NAIL, SET
N 50°59' W 260.1'
S 45°57' W 215.3'
WELL NO. 2H
GRID NORTH
1" = 200'
STAKE/NAIL, SET
NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 272,886ft E: 1,616,838ft
LAT: 39°14'28.72" LON: 80°51'10.27"
BOTTOM HOLE INFORMATION:
N: 263,995ft E: 1,622,232ft
LAT: 39°13'01.65" LON: 80°50'00.05"
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: 4,343,575m E: 512,713m
BOTTOM HOLE INFORMATION:
N: 4,340,894m E: 514,401m
PAD LAYOUT
AHOUSE UNIT 1H
AHOUSE UNIT 2H
CALLIE UNIT 1H
CALLIE UNIT 2H
STELLA UNIT 1H
STELLA UNIT 2H
BIERSTADT UNIT 1H
BIERSTADT UNIT 2H
AHOUSE UNIT 3
10'
N 42°09' E
NOT TO SCALE
DOUGLAS R. ROWE LICENSED No. 2202 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPTARTMENT OF ENVIRONMENTAL PROTECTION.
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
Iron Pipe, Found
DOUGLAS R. ROWE P.S. 2202
DATE 07/23/14
OPERATOR'S WELL# STELLA UNIT #2H
JOB # 14-059WA
DRAWING # STELLA2H
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 X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,008' WATERSHED TRIBUTARY OF CABIN RUN
QUADRANGLE OXFORD 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE
SURFACE OWNER OLIN E. & MARY PRIMM ACREAGE 19.34 ACRES +/-
OIL & GAS ROYALTY OWNER OLIN E. PRIMM ET UX; A. BEAVER ET UX; RALPH LEGGETT ET AL; ELWIN LEGGETT ET AL; STELLA MAYE ET AL; STELLA MAYE; HARVEY SMITH; J. W. SMITH; D.M. HAUGHT ET UX; BRADLEY LEGGETT ET AL LEASE ACREAGE 19.34 AC±; 113 AC±; 187 AC±; 79 AC±; 125.5 AC±; 83 AC±; 450 AC±; 486 AC±; 132 AC±; 36.5 AC±
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___ PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 18,400' 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
API WELL # 47 – 017 – ___
STATE COUNTY PERMIT
COUNTY NAME
PERMIT
FORM WW-6