

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

API 47-095-02173 County Tyler District Ellsworth
Quad Shirley 7.5' Pad Name Weigle East Pad Field/Pool Name -----
Farm name Edwin C. Weigle Well Number Scardina Unit 3H
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 4,368,527m Easting 512,678m
Landing Point of Curve Northing 4,368,642.55m Easting 513,012.49m
Bottom Hole Northing 4,365,635m Easting 514,117m

Elevation (ft) 817' 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

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4/25/2016

Date permit issued 4/25/2014 Date drilling commenced 12/29/2014 Date drilling ceased 4/24/2015
Date completion activities began 7/2/2015 Date completion activities ceased 4/25/2016
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 194', 366' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 842', 1027', 1987' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

APPROVED
NAME: [Signature] 10/28/2016
DATE: 9/8/16

API 47-095 - 02173

Farm name Edwin C. Weigle

Well number Scardina Unit 3H

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"	60'	New	94#; H-40	N/A	Yes
Surface	17 1/2"	13 3/8"	546'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2564'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	17,050	New	23#; P-110	N/A	Yes
Tubing		2 3/8"	6676'		4.70#; N-80		
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	213 sx	15.6	1.18	58 Cu. Ft.	0'	8 Hrs.
Surface	Class A	646 sx	15.6	1.18	379 Cu. Ft.	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1040 sx	15.6	1.18	803 Cu. Ft.	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	871 sx (Lead); 1662 sx (Tail)	13.5 (Lead); 15.2 (Tail)	1.44 (Lead); 1.80 (Tail)	3433 Cu. Ft.	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17,050' MD, 6417' TVD (BHL), 6423' TVD (Deepest Point Drilled)

Loggers TD (ft) 17,000'

Deepest formation penetrated Marcellus Shale

Plug back to (ft) N/A

Plug back procedure N/A

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Scardina Unit 1H API# 47-095-02169). Please reference the wireline logs submitted with Form WR-35 for the Scardina Unit 1H. A Cement Bond Log has been included with this submittal.

Kick off depth (ft) ⁶¹⁰⁹ _____

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A - WOC

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A - WOC

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A - WOC

10/28/2016

API 47-095-02173 Farm Name Edwln C. Weigle Well Number Scardina Unit 3H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2-Jul-15	16,792.00	16,958.00	60	Marcellus
2	12-Feb-16	16,641.00	16,769.00	60	Marcellus
3	12-Feb-16	16,491.00	16,618.00	60	Marcellus
4	12-Feb-16	16,341.00	16,468.00	60	Marcellus
5	13-Feb-16	16,191.00	16,318.00	60	Marcellus
6	13-Feb-16	16,041.00	16,168.00	60	Marcellus
7	13-Feb-16	15,891.00	16,018.00	60	Marcellus
8	14-Feb-16	15,741.00	15,868.00	60	Marcellus
9	14-Feb-16	15,591.00	15,718.00	60	Marcellus
10	14-Feb-16	15,441.00	15,568.00	60	Marcellus
11	15-Feb-16	15,290.00	15,418.00	60	Marcellus
12	15-Feb-16	15,140.00	15,267.00	60	Marcellus
13	15-Feb-16	14,990.00	15,117.00	60	Marcellus
14	15-Feb-16	14,840.00	14,967.00	60	Marcellus
15	15-Feb-16	14,690.00	14,817.00	60	Marcellus
16	16-Feb-16	14,540.00	14,667.00	60	Marcellus
17	16-Feb-16	14,390.00	14,517.00	60	Marcellus
18	16-Feb-16	14,240.00	14,367.00	60	Marcellus
19	16-Feb-16	14,089.00	14,217.00	60	Marcellus
20	17-Feb-16	13,939.00	14,066.00	60	Marcellus
21	17-Feb-16	13,789.00	13,916.00	60	Marcellus
22	17-Feb-16	13,639.00	13,766.00	60	Marcellus
23	17-Feb-16	13,489.00	13,616.00	60	Marcellus
24	17-Feb-16	13,339.00	13,466.00	60	Marcellus
25	18-Feb-16	13,189.00	13,316.00	60	Marcellus
26	18-Feb-16	13,039.00	13,166.00	60	Marcellus
27	18-Feb-16	12,888.00	13,016.00	60	Marcellus
28	18-Feb-16	12,738.00	12,865.00	60	Marcellus
29	19-Feb-16	12,588.00	12,715.00	60	Marcellus
30	19-Feb-16	12,438.00	12,565.00	60	Marcellus
31	19-Feb-16	12,288.00	12,415.00	60	Marcellus
32	19-Feb-16	12,138.00	12,265.00	60	Marcellus
33	19-Feb-16	11,988.00	12,115.00	60	Marcellus
34	20-Feb-16	11,838.00	11,965.00	60	Marcellus
35	20-Feb-16	11,688.00	11,815.00	60	Marcellus
36	20-Feb-16	11,537.00	11,664.00	60	Marcellus
37	20-Feb-16	11,387.00	11,514.00	60	Marcellus
38	20-Feb-16	11,237.00	11,364.00	60	Marcellus
39	21-Feb-16	11,087.00	11,214.00	60	Marcellus
40	21-Feb-16	10,937.00	11,064.00	60	Marcellus
41	21-Feb-16	10,787.00	10,914.00	60	Marcellus
42	21-Feb-16	10,637.00	10,764.00	60	Marcellus
43	21-Feb-16	10,487.00	10,614.00	60	Marcellus
44	22-Feb-16	10,336.00	10,464.00	60	Marcellus
45	22-Feb-16	10,186.00	10,313.00	60	Marcellus
46	22-Feb-16	10,036.00	10,163.00	60	Marcellus
47	22-Feb-16	9,886.00	10,013.00	60	Marcellus
48	22-Feb-16	9,736.00	9,863.00	60	Marcellus
49	22-Feb-16	9,586.00	9,713.00	60	Marcellus
50	23-Feb-16	9,436.00	9,563.00	60	Marcellus
51	23-Feb-16	9,286.00	9,413.00	60	Marcellus
52	23-Feb-16	9,135.00	9,263.00	60	Marcellus
53	23-Feb-16	8,985.00	9,112.00	60	Marcellus
54	23-Feb-16	8,835.00	8,962.00	60	Marcellus
55	23-Feb-16	8,685.00	8,812.00	60	Marcellus
56	24-Feb-16	8,535.00	8,662.00	60	Marcellus
57	24-Feb-16	8,385.00	8,512.00	60	Marcellus
58	24-Feb-16	8,235.00	8,362.00	60	Marcellus
59	24-Feb-16	8,085.00	8,212.00	60	Marcellus
60	24-Feb-16	7,935.00	8,062.00	60	Marcellus
61	25-Feb-16	7,784.00	7,911.00	60	Marcellus
62	25-Feb-16	7,634.00	7,761.00	60	Marcellus
63	25-Feb-16	7,484.00	7,611.00	60	Marcellus
64	25-Feb-16	7,334.00	7,461.00	60	Marcellus
65	25-Feb-16	7,184.00	7,311.00	60	Marcellus
66	25-Feb-16	7,034.00	7,161.00	60	Marcellus
67	26-Feb-16	6,884.00	7,011.00	60	Marcellus
68	26-Feb-16	6,734.00	6,861.00	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	2/11/2016	61.2	7554	N/A	5486	114030	6334	N/A
2	2/12/2016	68	7326	5933	4461	179795	6857	N/A
3	2/12/2016	65.8	7368	5908	5443	214940	5974	N/A
4	2/12/2016	68	7261	5529	4752	227020	5936	N/A
5	2/13/2016	68.2	7432	5761	5136	227200	5923	N/A
6	2/13/2016	68.1	7421	5672	4832	226900	5910	N/A
7	2/13/2016	68.7	7280	5773	4987	227330	5894	N/A
8	2/14/2016	68.4	7419	5564	4862	226550	5888	N/A
9	2/14/2016	70.2	7455	5747	5089	227400	5884	N/A
10	2/14/2016	68.4	7339	5600	5486	226500	5879	N/A
11	2/15/2016	68.4	7292	5628	5036	226595	5828	N/A
12	2/15/2016	71	7433	5417	4910	227440	5849	N/A
13	2/15/2016	67.8	7232	5583	5375	229100	5845	N/A
14	2/15/2016	69.4	7380	5425	5497	228000	5860	N/A
15	2/15/2016	69.3	7258	5482	5221	227000	5816	N/A
16	2/16/2016	69.2	7435	5554	5232	227000	5976	N/A
17	2/16/2016	70	8007	6062	5139	229500	5837	N/A
18	2/16/2016	72.8	7403	5332	5060	227500	5786	N/A
19	2/16/2016	71.8	7373	5543	5257	228900	5791	N/A
20	2/17/2016	73	7346	5309	4989	229600	5776	N/A
21	2/17/2016	72.3	7500	5497	4567	217900	5755	N/A
22	2/17/2016	72.1	7286	5608	5032	222400	5681	N/A
23	2/17/2016	72.4	7358	5372	5114	228600	5782	N/A
24	2/17/2016	76.1	7315	5350	5046	228000	5757	N/A
25	2/18/2016	77.4	7220	5729	4872	225300	5725	N/A
26	2/18/2016	77.3	7153	5604	5182	226880	5726	N/A
27	2/18/2016	77.3	7343	5294	5057	230380	5736	N/A
28	2/18/2016	75.4	7250	5322	4971	224500	5671	N/A
29	2/19/2016	77.6	7388	5533	4982	209200	5505	N/A
30	2/19/2016	74.9	7018	5529	4996	226600	5657	N/A
31	2/19/2016	75.8	7075	5246	5375	226660	5658	N/A
32	2/19/2016	72.8	6918	5372	5075	228300	5673	N/A
33	2/19/2016	73	7174	5665	4839	227200	5672	N/A
34	2/20/2016	77.8	7141	5482	5418	228900	5666	N/A
35	2/20/2016	72.9	6990	5654	5307	214620	5636	N/A
36	2/20/2016	78.4	7106	5425	5018	228960	5615	N/A
37	2/20/2016	77.2	7202	5511	4874	198040	5867	N/A
38	2/20/2016	72.2	6813	5250	5211	229600	5601	N/A
39	2/21/2016	74.5	6870	5286	4932	228800	5600	N/A
40	2/21/2016	75.3	7007	5429	5125	228900	5752	N/A
41	2/21/2016	78.2	7026	5454	5082	228720	5584	N/A
42	2/21/2016	74.6	6986	5343	5347	205940	5532	N/A
43	2/21/2016	73.7	6970	5647	5507	228300	5565	N/A
44	2/22/2016	74.7	6979	5271	5203	217900	5404	N/A
45	2/22/2016	73.5	6654	5161	5027	227205	5527	N/A
46	2/22/2016	77.5	7053	5361	4891	227155	5511	N/A
47	2/22/2016	73.1	6979	5509	4781	227025	5538	N/A
48	2/22/2016	73.5	6956	5422	5422	227300	5497	N/A
49	2/22/2016	73.4	6741	5214	5329	227500	5505	N/A
50	2/23/2016	73.9	6759	5293	5604	228200	5483	N/A
51	2/23/2016	71.5	6642	5318	4968	218660	6296	N/A
52	2/23/2016	72.8	7139	5437	5028	221955	5469	N/A
53	2/23/2016	73.7	6764	5401	5339	199650	5460	N/A
54	2/23/2016	73.7	6547	5175	5822	227400	5473	N/A
55	2/23/2016	73.2	6706	5690	5375	227600	5449	N/A
56	2/24/2016	73.2	6563	5461	4871	226400	5451	N/A
57	2/24/2016	72.4	6618	5415	4908	227115	5418	N/A
58	2/24/2016	72.5	7018	5771	4882	227200	5415	N/A
59	2/24/2016	71.5	7201	5643	4799	219300	6202	N/A
60	2/24/2016	72.6	6458	5693	5196	228200	5407	N/A
61	2/25/2016	71.1	6888	5969	5064	227600	5414	N/A
62	2/25/2016	73.4	6507	5447	5057	228345	5376	N/A
63	2/25/2016	73.6	6579	5561	5089	226740	5350	N/A
64	2/25/2016	72.8	7359	5581	4971	203140	5885	N/A
65	2/25/2016	73.6	6558	5788	5332	226000	5359	N/A
66	2/25/2016	73.4	6451	5461	5261	227300	5334	N/A
67	2/26/2016	73.1	6460	5647	5250	226700	5330	N/A
68	2/26/2016	71.9	6529	5690	4592	217395	5182	N/A
AVG=		72.6	7,077	5,519	5,106	15,109,985	386,994	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	9	N/A	9	N/A
Fresh Water	366	N/A	366	N/A
Siltstone	0	227	0	227
Siltstone and Coal	est 227	275	est 227	275
Siltstone	est 275	411	est 275	411
Sandstone	est 411	542	est 411	542
Shale w/ Trace Coal	est 542	567	est 542	567
Shale w/ Trace Coal	est 567	767	est 567	767
Siltstone	est 767	807	est 767	807
Shale w/ Trace Coal	est 807	947	est 807	947
Siltstone	est 947	1,139	est 947	1,139
Sandstone	est 1139	1,201	est 1139	1,201
Siltstone	est 1201	1,237	est 1201	1,237
Sandstone	est 1237	1,317	est 1237	1,317
Siltstone	est 1317	1,726	est 1317	1,730
Big Lime	1,726	1,838	1,730	1,842
Big Injun	1,838	2,338	1,842	2,342
Gantz Sand	2,338	2,478	2,342	2,482
Fifty Foot Sandstone	2,478	2,547	2,482	2,551
Gordon	2,547	2,478	2,551	2,903
Fifth Sandstone	2,478	2,953	2,903	2,957
Bayard	2,953	3,318	2,957	3,322
Warren	3,318	3,697	3,322	3,702
Speechley	3,697	4,415	3,702	4,453
Bradford	4,415	4,841	4,453	4,933
Benson	4,841	5,085	4,933	5,205
Alexander	5,085	5,252	5,205	5,392
Elk	5,252	5,621	5,392	5,802
Rhinestreet	5,621	5,957	5,802	6,175
Sycamore	5,957	6,133	6,175	6,387
Middlesex	6,133	6,229	6,387	6,531
Burkett	6,229	6,257	6,531	6,585
Tully	6,257	6,303	6,585	6,695
Marcellus	6,303	NA	6,695	NA

*Please note Antero determines shallow 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.

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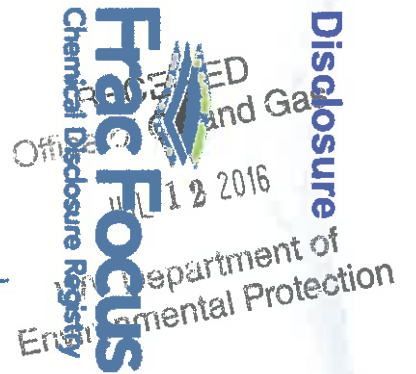
10/28/2016

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/11/2016
Job End Date:	2/26/2016
State:	West Virginia
County:	Tyler
API Number:	47-095-02173-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Scardina 3H
Latitude:	39.46622630
Longitude:	-80.85261420
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,423
Total Base Water Volume (gal):	17,098,584
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical 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	89.99173	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	9.53541	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.17252	
			Hydrogen Chloride	7647-01-0	18.00000	0.04121	
IGC-15	U.S. Well Services	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.07329	
			Petroleum Distillates	64742-47-8	60.00000	0.06941	
			Suspending agent (solid)	14808-60-7	3.00000	0.01121	
			Surfactant	68439-51-0	3.00000	0.00440	
WFR-405	U.S. Well Services	Friction Reducer	Water	7732-18-5	60.00000	0.03776	
			2-P-Propenoic acid, polymer with 29003-06-9 propanamide	29003-06-9	30.00000	0.01888	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01520	



SI-1100	U.S. Well Services	Scale Inhibitor	Ethoxylated alcohol blend	88002-97-1	4.00000	0.00252
			Water	7732-18-5	80.00000	0.00973
			Ethylene Glycol	107-21-1	25.00000	0.00344
			Copolymer of Maleic and Acrylic acid	52255-49-9	0.00000	0.00144
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	0.00000	0.00123
			Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.00079
			Hexamethylene tramine penta (methylene phosphonic acid)	34690-00-1	0.00000	0.00079
			Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	0.00000	0.00332
K-BAC 1020	U.S. Well Services	Anti-Bacterial Agent	2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00427
			Deionized Water	7732-18-5	28.00000	0.00241
AP One	U.S. Well Services	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00000	0.00166
AI-302	U.S. Well Services	Acid Corrosion Inhibitors	Water	7732-18-5	95.00000	0.00037
			2-Propyn-1-ol compound with methylxirane	38172-91-7	15.00000	0.00006

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°30'00"

5,492'

789' TO BOTTOM HOLE
LATITUDE 39°27'30"

LONGITUDE 80°50'00"

12,331'

LONGITUDE 80°50'00"

RICHARD L. SEAGO ET UX LEASE
LORETTA J. FULKS
D.B. 212 PG. 10
T.M. 27 PAR. 8
35 AC. ±

STONE FOUND
WELL NO. 3H
47-095-02173

KATHY ANN SEAGO LEASE
EDWIN C. WEIGLE
A.P. 40 PG. 99
T.M. 27 PAR. 22
60.19 AC. ±

KATHY ANN SEAGO LEASE
EDWIN C. WEIGLE
D.B. 348 PG. 74
T.M. 27 PAR. 23
61.62 AC. ±

THOMAS L. BURKHART
D.B. 284 PG. 348
T.M. 27 PAR. 24
90 AC. ±

KATHY ANN SEAGO LEASE
KATHY ANN SEAGO ET AL
W.B. 41 PG. 119
T.M. 27 PAR. 10
73.59 AC. ±

LYNDA SPELLMAN LEASE
REUBEN SCHWARTZ ET AL
D.B. 119 PG. 512
T.M. 27 PAR. 19
86 AC. ±

KENNETH R. MASON ET AL LEASE
KENNETH MASON ET AL
D.B. 332 PG. 960
T.M. 27 PAR. 20
269 AC. ±

ROGER R. WEESE LEASE
ROGER WEESE ET AL
D.B. 312 PG. 200
T.M. 2 PAR. 1
120 AC. ±

LARRY E. FLETCHER ET AL LEASE
LARRY FLETCHER ET AL
D.B. 331 PG. 935
T.M. 5 PAR. 15
60 AC. ±

EARL J. FLETCHER ET AL LEASE
EARL J. FLETCHER ET AL
D.B. 158 PG. 283
T.M. 5 PAR. 01
36 AC. ±

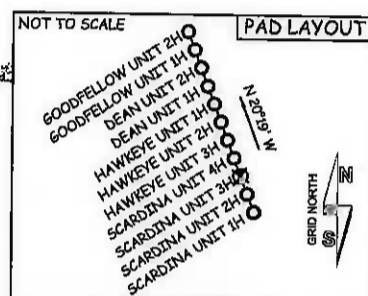
KENNETH R. MASON ET AL LEASE
KENNETH R. MASON ET AL
D.B. 336 PG. 416
T.M. 5 PAR. 14
88.25 AC. ±

DONALD SECKMAN ET AL
DONALD SECKMAN ET AL
D.B. 278 PG. 658
T.M. 5 PAR. 11
97.028 AC. ±

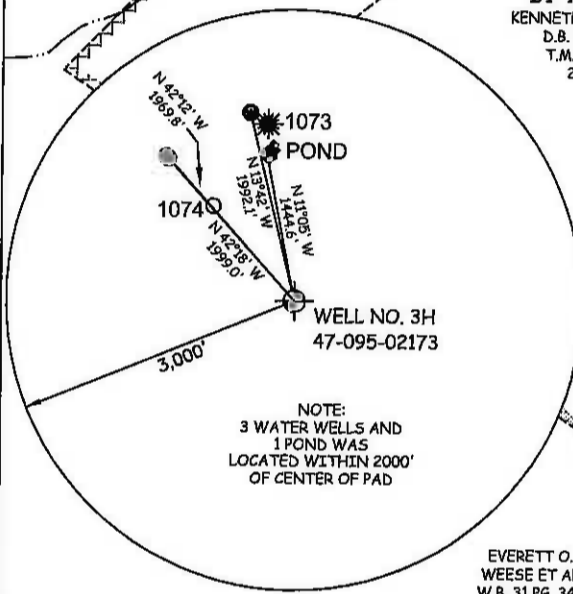
Antero Resources Corporation
Well No. Scardina Unit 3H
47-095-02173 (AS DRILLED)

AS DRILLED DATA
WELL 3H TOP HOLE INFORMATION:
N: 354,766ft E: 1,618,090ft
LAT: 39°27'58.13" LON: 80°51'10.03"
BOTTOM HOLE INFORMATION:
N: 345,200ft E: 1,622,652ft
LAT: 39°26'24.26" LON: 80°50'10.05"
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 3H TOP HOLE INFORMATION:
N: 4,368,527m E: 512,678m
BOTTOM HOLE INFORMATION:
N: 4,365,635m E: 514,117m



NOTE
1. 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.
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.



47 - 095 - 02173
STATE COUNTY PERMIT



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 # 13-039WA
DRAWING # SCARDINA3HAD
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
DATE 08/05/15
OPERATOR'S WELL# SCARDINA UNIT #3H

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION ORIGINAL 811' - AS DRILLED 817' WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE SHIRLEY 7.5' DISTRICT ELLSWORTH COUNTY TYLER
SURFACE OWNER EDWIN C. WEIGLE ACREAGE 60.19 ACRES +/-
OIL & GAS ROYALTY OWNER KATHY ANN SEAGO; RICHARD L. SEAGO ET UX; KATHY ANN SEAGO; LYNDA SPELLMAN
KENNETH R. MASON ET AL; ROGER R. WEESE; LARRY E. FLETCHER ET AL; EARL J. FLETCHER ET UX; KENNETH R. MASON ET AL
LEASE ACREAGE 129.2 AC. ±; 85.45 AC. ±; 73.59 AC. ±; 86 AC. ±; 269 AC. ±; 182.74 AC. ±; 197 AC. ±; 36 AC. ±; 88.25 AC. ±
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
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,417' TVD 17,050' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

10/28/2016

LATITUDE 39°30'00"

5,492'

789' TO BOTTOM HOLE
LATITUDE 39°27'30"

LONGITUDE 80°50'00"

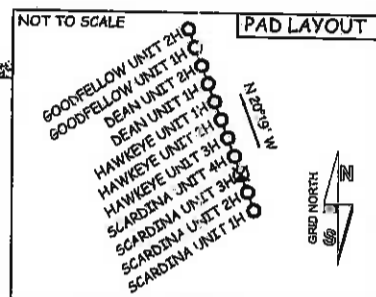
12,331'

LONGITUDE 80°50'00"

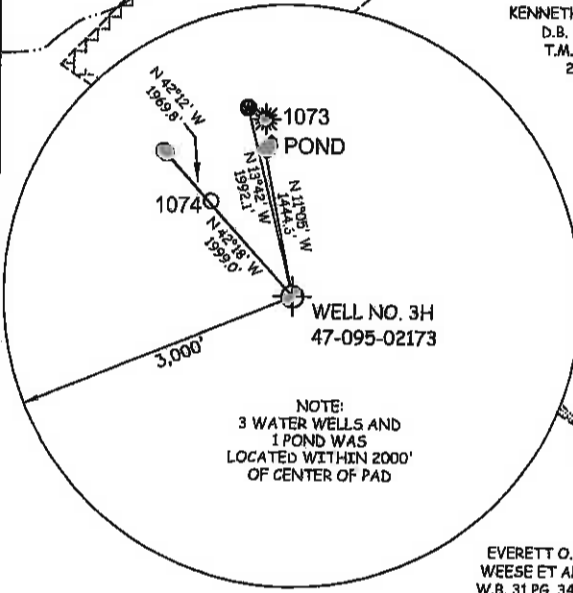
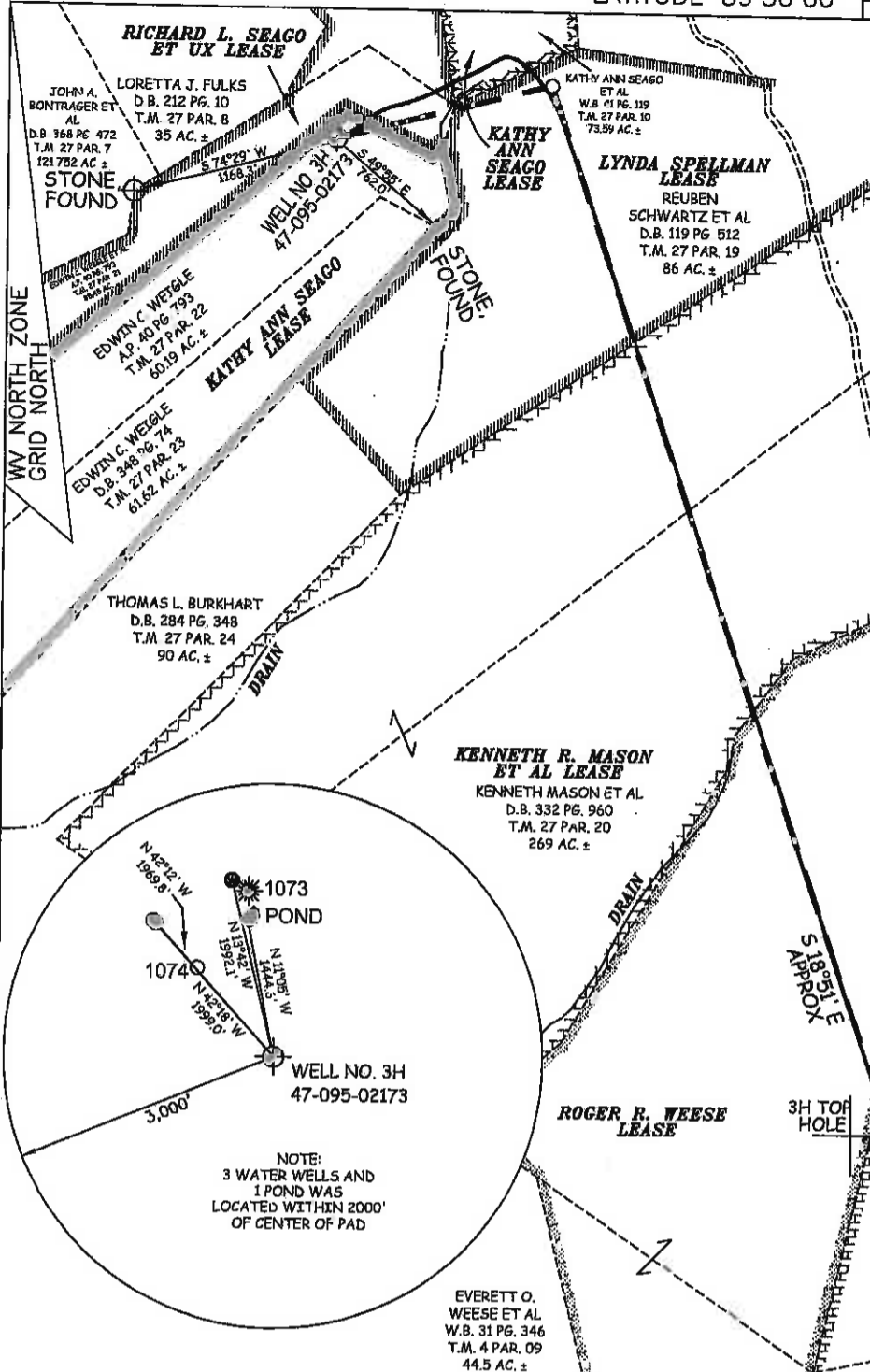
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47 — 095 — 02173
STATE COUNTY PERMIT



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WILLOW LAND SURVEYING PLLC
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STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 08/05/15
OPERATOR'S WELL# SCARDINA UNIT #3H

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FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

REC'D JUL 10 2016
Office of Oil and Gas
WV Department of Environmental Protection
10/28/2016