

RECEIVED

JUN 26 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

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

API 47-017-06333 County Doddridge District New Milton
Quad New Milton 7.5' Pad Name Cline Pad Field/Pool Name _____
Farm name Cline, Johnnie et al Well Number Nickers 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 4,337,437m Easting 525,947m
Landing Point of Curve Northing 4,337,572.73m Easting 525,815.80m
Bottom Hole Northing 4,339,567m Easting 525,201m

Elevation (ft) 1,096' 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 11/07/2013 Date drilling commenced 11/25/2013 Date drilling ceased 06/15/2014
Date completion activities began 07/17/2014 Date completion activities ceased 11/15/2014
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 56' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 637' 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: _____

JUN 26 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

WR-35
Rev. 8/23/13

Page ___ of ___

API 47-017 - 06333 Farm name Cline, Johnnie et al Well number Nickers 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"	40'	New	94#; J-55	N/A	Yes
Surface	17 1/2"	13 3/8"	389'	New	48#; J-55	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,578'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	14,247'	New	23#; P-110	N/A	Yes
Tubing		2 3/8"	7,152'		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	38	0'	8 Hrs.
Surface	Class A	473 sx	15.6	1.18	270	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1,007 sx	15.6	1.18	807	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,171 sx (Lead); 1,056 sx (Tail)	14.5 (Lead); 15.2 (Tail)	1.3 (Lead); 1.86 (Tail)	2,788	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14,249' MD, 7,030' TVD (BHL) 7,052' TVD (Deepest Point Drilled) Loggers TD (ft) 14,202'
Deepest formation penetrated Marcellus Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft) 6,350'

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 RA; Chemical

RECEIVED

JUN 26 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

API 47- 017 - 06333 Farm name Cline, Johnnie et al Well number Nickers Unit 3H

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.

JUN 26 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

API 47- 017 - 06333 Farm name Cline, Johnnie et al Well number Nickers Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	7,000' (top)	TVD	7,198' (top) MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3950 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 13,111 mcfpd Oil 4 bpd NGL _____ bpd Water 681 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 Patterson - UTI Drilling company, LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Rush Wellsite Services
Address 600 Alpha Drive City Canonsburg State PA Zip 15317

Cementing Company Allie Oil & Gas Services, LLC
Address 1036 East Main Street City Bridgeport State WV Zip 26330

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 06/26/2015

RECEIVED

JUN 26 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06333 Farm Name Cline, Johnnie et al Well Number Nickers Unit 3H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	17-Jul-14	13,993	14,160	60	Marcellus
2	27-Aug-14	13,794	13,962	60	Marcellus
3	27-Aug-14	13,596	13,763	60	Marcellus
4	27-Aug-14	13,397	13,565	60	Marcellus
5	27-Aug-14	13,199	13,366	60	Marcellus
6	28-Aug-14	13,000	13,168	60	Marcellus
7	28-Aug-14	12,802	12,969	60	Marcellus
8	28-Aug-14	12,603	12,771	60	Marcellus
9	29-Aug-14	12,405	12,572	60	Marcellus
10	29-Aug-14	12,206	12,373	60	Marcellus
11	29-Aug-14	12,007	12,175	60	Marcellus
12	30-Aug-14	11,809	11,976	60	Marcellus
13	30-Aug-14	11,610	11,778	60	Marcellus
14	30-Aug-14	11,412	11,579	60	Marcellus
15	31-Aug-14	11,213	11,381	60	Marcellus
16	11-Sep-14	11,015	11,182	60	Marcellus
17	12-Sep-14	10,816	10,984	60	Marcellus
18	12-Sep-14	10,618	10,785	60	Marcellus
19	12-Sep-14	10,419	10,587	60	Marcellus
20	12-Sep-14	10,221	10,388	60	Marcellus
21	13-Sep-14	10,022	10,190	60	Marcellus
22	14-Sep-14	9,824	9,991	60	Marcellus
23	14-Sep-14	9,625	9,792	60	Marcellus
24	14-Sep-14	9,426	9,594	60	Marcellus
25	14-Sep-14	9,228	9,395	60	Marcellus
26	15-Sep-14	9,029	9,197	60	Marcellus
27	15-Sep-14	8,831	8,998	60	Marcellus
28	15-Sep-14	8,632	8,800	60	Marcellus
29	15-Sep-14	8,434	8,601	60	Marcellus
30	15-Sep-14	8,235	8,403	60	Marcellus
31	16-Sep-14	8,037	8,204	60	Marcellus
32	16-Sep-14	7,838	8,006	60	Marcellus
33	16-Sep-14	7,640	7,807	60	Marcellus
34	16-Sep-14	7,441	7,608	60	Marcellus
35	17-Sep-14	7,242	7,410	60	Marcellus

JUN 26 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06333 Farm Name Cline, Johnnie et al Well Number Nickers Unit 3H

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	26-Aug-14	70.0	7,449	6,155	5,379	123,000	7,118	N/A
2	27-Aug-14	72.0	7,157	6,096	5,172	248,750	6,692	N/A
3	27-Aug-14	77.0	7,252	5,608	5,302	243,600	6,569	N/A
4	27-Aug-14	76.0	7,809	5,691	5,189	219,000	7,046	N/A
5	27-Aug-14	76.0	7,170	4,687	5,232	230,000	6,743	N/A
6	28-Aug-14	77.0	7,160	5,304	5,081	250,050	6,604	N/A
7	28-Aug-14	74.0	7,416	5,592	5,143	184,600	6,424	N/A
8	28-Aug-14	73.0	7,409	5,811	5,369	215,000	6,760	N/A
9	29-Aug-14	79.0	7,571	N/A	4,946	202,920	7,178	N/A
10	29-Aug-14	80.0	7,265	5,721	5,282	250,960	6,525	N/A
11	29-Aug-14	77.0	6,770	5,531	5,286	250,750	6,509	N/A
12	30-Aug-14	77.0	7,230	5,714	5,068	251,010	6,481	N/A
13	30-Aug-14	76.0	7,324	5,922	4,927	249,370	7,126	N/A
14	30-Aug-14	73.0	7,083	5,622	4,948	251,425	6,511	N/A
15	31-Aug-14	77.0	7,099	5,641	4,867	211,575	7,051	N/A
16	11-Sep-14	77.1	7,029	5,718	5,356	251,075	7,224	N/A
17	12-Sep-14	77.0	6,827	5,602	5,062	249,050	6,640	N/A
18	12-Sep-14	78.0	7,058	5,987	5,215	250,500	6,614	N/A
19	12-Sep-14	79.4	6,802	5,509	5,637	251,570	6,603	N/A
20	12-Sep-14	79.4	6,988	5,645	5,466	251,320	6,557	N/A
21	13-Sep-14	72.4	7,092	5,218	5,202	141,825	6,392	N/A
22	14-Sep-14	77.0	6,950	5,766	4,661	250,000	6,529	N/A
23	14-Sep-14	78.0	6,912	5,728	4,511	249,300	6,505	N/A
24	14-Sep-14	78.0	7,012	5,581	4,195	250,800	6,482	N/A
25	14-Sep-14	79.9	6,560	5,665	5,206	250,325	6,458	N/A
26	15-Sep-14	80.1	6,755	5,547	5,428	251,525	6,447	N/A
27	15-Sep-14	77.0	6,509	5,350	5,060	249,650	6,425	N/A
28	15-Sep-14	77.0	6,604	4,634	4,901	250,000	6,405	N/A
29	15-Sep-14	77.0	6,628	5,429	4,729	241,400	6,898	N/A
30	15-Sep-14	78.0	6,893	5,121	4,721	248,950	6,348	N/A
31	16-Sep-14	76.0	6,985	5,219	4,531	206,020	6,633	N/A
32	16-Sep-14	78.0	6,662	5,032	4,971	249,250	6,316	N/A
33	16-Sep-14	80.0	6,411	5,234	4,706	249,420	6,289	N/A
34	16-Sep-14	80.0	6,675	5,515	4,950	247,614	6,267	N/A
35	17-Sep-14	80.0	6,721	5,726	5,275	251,220	6,243	N/A
	AVG=	77.0	7,007	5,539	5,056	8,222,824	231,612	TOTAL

RECEIVED

JUN 26 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06333 Farm Name Cline, Johnnie et al Well Number Nickers Unit 2H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD) From
	From Surface	From Surface	From Surface	Surface
Fresh Water	56'	N/A	56'	N/A
Siltstone	0	412	0	412
Shale/ Trace Coal	est. 412	537	est. 412	537
Shale/ Limestone	est. 537	557	est. 537	557
Shale/ Sandstone	est. 557	762	est. 557	762
Shale/ Coal	est. 762	787	est. 762	787
Shale/ Sandstone	est. 787	997	est. 787	997
Siltstone	est. 997	1,057	est. 997	1,057
Shale	est. 1057	1,307	est. 1057	1,307
Shale/Limestone/ Trace Coal	est. 1307	1,397	est. 1307	1,397
Shale/ Siltstone	est. 1397	1,437	est. 1397	1,437
Sandstone/ Shale/ Trace Coal	est. 1437	1,677	est. 1437	1,677
Sandy Shale/ Coal	est. 1677	1,747	est. 1677	1,747
Shale	est. 1747	1,812	est. 1747	1,812
Shale/ Coal	est. 1812	1,837	est. 1812	1,837
Sandstone	est. 1837	1,867	est. 1837	1,867
Shale	est. 1867	2,047	est. 1867	2,047
Siltstone/ Shale	est. 2047	2,107	est. 2047	2,107
Shale	2,107	2,134	2,107	2,134
Big Lime	2,134	2,233	2,134	2,233
Big Injun	2,233	2,463	2,233	2,463
Gantz Sand	2,463	2,639	2,463	2,639
Fifty Foot Sandstone	2,639	2,929	2,639	2,929
Gordon	2,929	3,237	2,929	3,237
Fifth Sandstone	3,237	3,286	3,237	3,286
Bayard	3,286	3,524	3,286	3,524
Warren	3,524	3,809	3,524	3,809
Speechley	3,809	4,008	3,809	4,008
Baltown	4,008	4,658	4,008	4,658
Bradford	4,658	5,119	4,658	5,119
Benson	5,119	5,379	5,119	5,379
Alexander	5,379	5,588	5,379	5,589
Elk	5,588	6,100	5,589	6,100
Rhinestreet	6,100	6,594	6,100	6,612
Sycamore	6,594	6,749	6,612	6,794
Middlesex	6,749	6,887	6,794	6,972
Burkett	6,887	6,921	6,972	7,027
Tully	6,921	7,000	7,027	7,198
Marcellus	7,000	NA	7,198	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.

RECEIVED
JUN 26 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/26/2014
Job End Date:	9/15/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06333-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Nickers Unit 3H
Longitude:	-80.69955300
Latitude:	39.18578900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,052
Total Base Water Volume (gal):	9,727,704
Total Base Non Water Volume:	-5,253,408



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Abstract 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	90.48017	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	9.17061	
LC-15	J.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.05971	
			Petroleum Distillates	64742-47-8	60.00000	0.05655	
			Suspending agent (solid)	14808-60-7	3.00000	0.00913	
			Surfactant	68439-51-0	3.00000	0.00358	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.08537	
			Hydrogen Chloride	7641-01-1	18.00000	0.02039	
WFRA-405	J.S. Well Services, LLC	Friction Reducer	Anionic Polyacrylamide	Proprietary		0.03094	
			Water	7732-18-5	40.00000	0.03094	
			Petroleum Distillates	64742-47-8	22.00000	0.02490	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00387	

RECEIVED
 JUN 26 2015
 WV GEOLOGICAL SURVEY
 MORGANTOWN, WV

SI-1000	U.S. Well Services, LLC	Scale Inhibitor	Crystalline Salt	12125-02-9	5.00000	0.00387	WV GEOLOGICAL SURVEY MORGANTOWN, WV
			Anionic Copolymer	Proprietary		0.00415	
			Ethylene Glycol	107-21-1	20.00000	0.00375	
			Water	7732-18-5	30.00000	0.00313	
K-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitropropanamide	10222-01-2	20.00000	0.00436	
			Deionized Water	7732-18-5	28.00000	0.00249	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00158	
AI-300	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene Glycol	107-21-1	31.00000	0.00020	
			N,N-Dimethylformamide	68-12-2	15.00000	0.00006	
			2-Butoxyethanol	111-76-2	7.00000	0.00005	
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00005	
			Cinnamaldehyde	104-55-2	5.00000	0.00005	
			Water	7732-18-5	20.00000	0.00002	
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00001	
			Triethyl Phosphate	78-40-0	3.00000	0.00001	
			Isopropyl Alcohol	67-63-0	3.00000	0.00001	
AI-301	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Diethylene Glycol	111-46-6	30.00000	0.00002	
			Methenamine	100-97-0	20.00000	0.00001	
			Hydrogen Chloride	7647-01-0	10.00000	0.00001	
			Coco amine	51791-14-8	5.00000		
			Polyethylene polyamine	68603-67-8	10.00000		

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°12'30" 9,374'

11,799' TO BOTTOM HOLE
LATITUDE 39°12'30"

LONGITUDE 80°40'00"
1,243' TO BOTTOM HOLE

8,243'

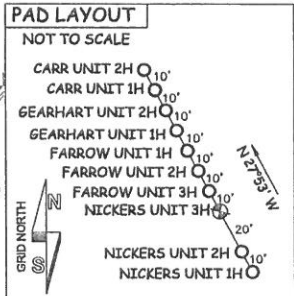
LONGITUDE 80°40'00"

Antero Resources Corporation
Well No. Nickers Unit 3H
47-017-06333 (AS DRILLED)

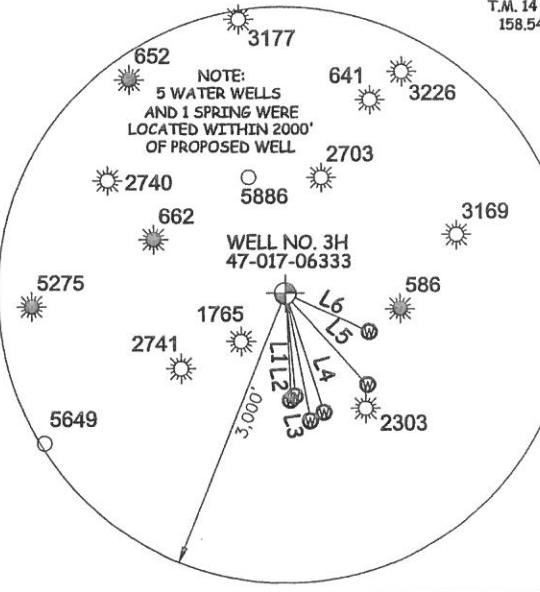
LINE	BEARING	DISTANCE
L1	S 02°58' E	1135.0'
L2	S 05°31' E	1095.8'
L3	S 11°05' E	1373.8'
L4	S 17°58' E	1323.1'
L5	S 41°47' E	1301.3'
L6	S 64°12' E	985.2'

AS DRILLED DATA:
WELL 3H TOP HOLE INFORMATION:
N: 252,018ft E: 1,659,931ft
LAT: 39°11'08.53" LON: 80°41'59.05"
BOTTOM HOLE INFORMATION:
N: 259,049ft E: 1,657,598ft
LAT: 39°12'17.71" LON: 80°42'29.89"
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: 4,337,437m E: 525,947m
BOTTOM HOLE INFORMATION:
N: 4,339,567m E: 525,201m



- NOTE**
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.



JOB # 13-029WA
DRAWING # NICKERS3HAD
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

DATE 05/22/15
OPERATOR'S WELL# NICKERS UNIT #3H

API WELL # 47 - 017 - 06333
STATE COUNTY PERMIT

DIANNA STAMPER
CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

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 1,105' ORIGINAL - 1,096 AS DRILLED WATERSHED HEADWATERS OF MIDDLE ISLAND CREEK
QUADRANGLE NEW MILTON 7.5' DISTRICT NEW MILTON COUNTY DODDRIDGE
SURFACE OWNER JOHNNIE CLINE ET AL ACREAGE 70.088 ACRES +/-
OIL & GAS ROYALTY OWNER FRANK HINTER ET AL; GROVER JOHNSON ET AL; GROVER JOHNSON ET AL; UDELLA MAE PROUDFOOT BARNETT; RUBY GENE DICKS; STOKES HURST JR. ET UX LEASE ACREAGE 329.73 ACRES+; 153.25 ACRES+; 81 ACRES+; 22.485 ACRES+; 117.197 ACRES+; 211 ACRES+
PROPOSED WORK: DRILL X 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 7,030' TVD 14,259' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313