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

API 47 - 085 - 10009 County Ritche District Clay
Quad Pennsboro Pad Name PENS 1HS Field/Pool Name _____
Farm name CNX Gas Company LLC Well Number PENS 1AHS
Operator (as registered with the OOG) Noble Energy, Inc.
Address 333 Technology Drive Suite 110 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4353967.17 Easting 500630.33
Landing Point of Curve Northing 435104.81 Easting 501178.28
Bottom Hole Northing 4352785.29 Easting 502322.81

Elevation (ft) 1136.69 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)
Synthetic Oil Based

Date permit issued 1/31/2013 Date drilling commenced 5/10/2014 Date drilling ceased 11/18/2013
Date completion activities began 5/13/2014 Date completion activities ceased 9/1/2014
Verbal plugging (Y/N) N Date permission granted 1/31/2013 Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 130' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1525', 1805' Void(s) encountered (Y/N) depths N
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:

12/05/2014

API 47-085 - 10009 Farm name CNX Gas Company LLC Well number PENS 1AHS

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	24	20	40	N	H-40 94#		
Surface	20	13-3/8	667	N	J-55 54.5#		Y
Coal							
Intermediate 1	12-1/4	9-5/8	5623	N	K-55 36#		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4	5-1/2	12939	N	P-110 20#		Y
Tubing							
Packer type and depth set							

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							
Surface	Type 1	638	15.6	1.19	135	0	8
Coal							
Intermediate 1	Class A	1022	12.01	1.82	332	0	8
Intermediate 2							
Intermediate 3							
Production	Class A	467-Lead 1336-Tail	13-Lead 14.8-Tail	1.6-Lead 1.39-Tail	137-Lead 331-Tail	5350	8
Tubing							

Drillers TD (ft) 12955 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6527

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 _____
7 Centralizers on Surface Casing, 1 every 3rd Joint. 71 Centralizers on Intermediate Casing, 1 every 3rd Joint. 181 Centralizers on Production Casing, 1 every joint in Curve/Lateral, 1 every 3rd joint from Top of Curve to Surface.

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 Spectra Chem

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PERFORATION RECORD

API: 47-085-10009

Farm name:

CNX Gas Company
LLC

Well Name: PEN 1AHS

Stage No.	Perf Date	Top Perf	Bottom Perf	# of Perfs	Formation
Toe Sleeve	3/8/2014	12,808	12,810	NA	Marcellus
1	5/13/2014	12,574	12,796	48	Marcellus
2	5/24/2014	12,273	12,527	40	Marcellus
3	5/24/2014	12,025	12,227	40	Marcellus
4 (CUDD RDMO)	6/17/2014	11,775	11,977	40	Marcellus
5 (HES MIRU)	7/19/2014	11,473	11,727	40	Marcellus
6	7/20/2014	11,173	11,427	40	Marcellus
7	7/24/2014	10,873	11,127	40	Marcellus
07 REPERF	7/25/2014	10,904	11,114	32	Marcellus
8	7/25/2014	10,573	10,827	40	Marcellus
9	7/25/2014	10,273	10,527	40	Marcellus
10	7/26/2014	9,973	10,227	40	Marcellus
11	8/2/2014	9,673	9,927	40	Marcellus
12	8/2/2014	9,425	9,627	40	Marcellus
13	8/2/2014	9,123	9,377	40	Marcellus
13B	8/3/2014	9,146	9,231	48	Marcellus
14	8/3/2014	8,823	9,077	40	Marcellus
15	8/3/2014	8,523	8,777	40	Marcellus
15B	8/3/2014	8,543	8,674	48	Marcellus
15B2	8/6/2014	8,515	8,754	60	Marcellus
16	8/11/2014	8,223	8,477	60	Marcellus
17	8/13/2014	7,923	8,177	50	Marcellus
18	8/14/2014	7,675	7,877	50	Marcellus
19	8/14/2014	7,373	7,627	50	Marcellus
20	8/14/2014	7,125	7,327	50	Marcellus

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STIMULATION INFORMATION PER STAGE

API: 47-085-10009

CNX Gas
Farm name: Company LLC

Well Name: PEN 1AHS

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other
1 inj test	5/13/2014	8.1	8875			-	921	
1	5/20/2014	78.7	8,071	6269	5509	496,860	16,818	
2	6/15/2014	62.1	8,033	5,932	5091	498,220	17,035	
3	6/17/2014	81.8	8,050	5,709	4978	510,020	13,421	
4 (CUDD RDMO)	6/17/2014	84.7	8,080	5,745	5466	487,780	12,903	
5 (HES MIRU)	7/19/2014	86.9	7,492	5,473	5516	494,342	12,047	
6	7/20/2014	83.6	7,260	6,612	2961	497,715	11,438	
6 Inj Test I	7/20/2014	1.5	6,891		9462		19	
6 Inj Test II	7/20/2014	3.9	5,933		8552		55	
6 Inj Test III	7/20/2014	3.4	5,509		9677		1,003	
6 Inj Test IIII	7/21/2014	3.5	2,627		7092		249	
7	7/25/2014	67.0	8,176	6,432	4139	42,066	4,320	
7B (Reperf)	7/25/2014	69.3	8,084	6,921	2909	451,835	10,089	
8	7/25/2014	84.5	7,206	5,954	5264	496,598	12,224	
9	7/25/2014	80.3	7,254	6,877	5491	495,461	12,998	
10	8/2/2014	85.8	7,436	6,437	3909	494,017	14,097	
11	8/2/2014	80.4	6,840	5,965	5104	494,910	0	
12	8/2/2014	84.1	7,478	6,110	3346	413,027	11,358	
13	8/3/2014	67.6	8,221	5,869	5939	1,293	2,728	
13B (Reperf)	8/3/2014	70.8	7,964		4152	500,035	16,193	
14	8/3/2014	69.6	7,544	5130	4452	491,998	14,857	
15	8/3/2014	53.7	8,147	6,119	5831	5,446	5,028	
15B (Reperf)	8/4/2014	73.6	7,530		9751	309,658		
15B.2 (Reperf)	8/7/2014	51.2	7,960		5175	207,070		
16	8/13/2014	86.4	6,686	5,699	4973	495,657	12,539	
17	8/14/2014	82.9	6,987	5,916	4998	491,890	12,641	
18	8/14/2014	88.3	6,495	5,926	4814	410,323	10,187	
19	8/14/2014	88.2	6,493	5,925	4466	495,823	12,022	
20	8/14/2014	88.9	6,093	5,891	3214	408,389	9,037	

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6387.1</u> TVD	<u>12955</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas 4737 mcfpd Oil 81 bpd NGL 295 bpd Water 1050 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

Please insert additional pages as applicable.

Drilling Contractor Nomac 78
Address 40 Lamoka Road City Sayre State PA Zip 18840

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company Schlumberger
Address 4600 J Barry Court, Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company CUDD Energy Services & Halliburton
Address 2897 Route 414 & 121 Champion Way, Suite 210 City Canton & Canonsburg State PA Zip 17724 & 15317

Please insert additional pages as applicable.

Completed by Regina A. Logue Telephone 724-820-3559
Signature Regina A. Logue Title Regulatory Analyst Date 11/18/2014

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

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PEN 1A

47-085-10009

Formations	Top TVD	Base TVD	Top MD	Base MD	Fluid
Shale and Sandstone	0	1365	0	1365	
Sandstone	1365	1489	1365	1479	
Shale and Sandstone	1479	1649	1479	1649	
Sandstone	1649	1691	1649	1691	
Shale and Sandstone	1691	1793	1691	1793	
Maxton Sand	1793	1876	1793	1876	
Shale and Sandstone	1876	1999	1876	1999	
Big Lime	1999	2054	1999	2054	
Big Injun	2054	2189	2054	2189	
Price	2189	2461	2189	2461	
Weir	2461	2500	2461	2977	
Shale	2500	2780	2500	2780	
Gordon	2780	2797	2780	2797	
Shale and Sandstone	2797	2977	2797	2977	
5th Sand	2977	2989	2977	2989	
Shale	2989	3132	2989	3132	
Sandstone	3132	3146	3132	3146	
Shale	3146	3554	3146	3554	
Warren	3554	3616	3554	3616	
Shale	3616	3950	3616	3952	
Sandstone	3950	3987	3952	3990	
Shale and Sandstone	3987	4981	3990	5114	
Benson	4981	5043	5114	5197	
Shale	5043	5203	5197	5410	
Alexander	5203	5271	5410	5500	
Shale	5271	5781	5500	6162	
Rheinstreet	5781	6107	6162	6597	
Cashaqua	6107	6199	6597	6745	
Middlesex	6199	6228	6745	6796	
West River	6228	6272	6796	6884	
Burkett	6272	6315	6884	6990	
Tully Limestone	6315	6316	6990	6994	
Hamilton	6316	6317	6994	6997	
Marcellus	6317	6376	6997	not encountered	Gas
Onondaga	6376	6393	not encountered	not encountered	
Huntersville	6393	not encountered	not encountered	not encountered	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/13/2014
Job End Date:	6/17/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10009-00-00
Operator Name:	Noble Energy, Inc.
Well Name and Number:	PEN 1A
Longitude:	-80.99285600
Latitude:	39.33505000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,387
Total Base Water Volume (gal):	2,590,517
Total Base Non Water Volume:	113,149



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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	Base Carrier Fluid					
			Water	7732-18-5	100.00000	91.22253	
Sand	Operator	Proppants					
			Silicon Dioxide	14808-60-7	100.00000	8.41455	
28% Hydrochloric Acid	Reagent	Scale Dissolver					
			Water	7732-18-5	64.79000	0.10168	
			Hydrogen Chloride	7647-01-0	36.93000	0.05795	
FR900	Nalco	Friction Reducers					
			Proprietary	Proprietary	100.00000	0.10607	
Plexgel 907L-EB	Chemplex, L.C.	Gelling Agents					
			Propylene Pentamer	15220-87-8	60.00000	0.02982	
			Distillate, petroleum, hydrotreated light	64742-47-8	60.00000	0.02982	
			C11 n-alkanes, mixed	1120-21-4	20.00000	0.00994	
			C12 n-alkanes, mixed	112-40-3	20.00000	0.00994	
			C13 n-alkanes, mixed	629-50-5	20.00000	0.00994	
			C14 n-alkanes, mixed	629-59-4	20.00000	0.00994	
BIO-CLEAR 2000	Clearwater International, LLC	Iron Controller / Reducers					
			Polyethylene Glycol Mixture	25322-68-3	60.00000	0.01978	

			2,2-Dibromo-3-Nitrilopropionamide	10222-01-2	20.00000	0.00659
MSI-7	National Petrochem	Scale Inhibitors				
			Hydrogen Chloride	7647-01-0	100.00000	0.00866
Plexgel Breaker 10L	Chemplex, L.C.	Gel Breakers/Delayed Breakers				
			No Hazardous Ingredients	Proprietary	100.00000	0.00566
FE-4	Chemplex, L.C.	Iron Controller / Reducers				
			Citric Acid Anhydrous	77-92-9	55.00000	0.00103
			Water	7732-18-5	55.00000	0.00103
-22	Nalco	Acid Corrosion Inhibitors				
			Formic Acid	64-18-6	60.00000	0.00035
			Quaternary ammonium compound	Proprietary	30.00000	0.00017
			Oxyalkylated Fatty Acid Derivative	Proprietary	30.00000	0.00017
			Aromatic aldehyde	Proprietary	30.00000	0.00017
			Isopropanol	67-63-0	10.00000	0.00006
			Quaternary ammonium compound	Proprietary	5.00000	0.00003
			Cyclic alkanes	Proprietary	5.00000	0.00003
			Methanol	67-56-1	5.00000	0.00003
			2-Mercaptoethyl Alcohol	60-24-2	5.00000	0.00003
MNE-N34	CESI	Emulsifiers / Viscosifiers				
			Petroleum Distillates	64741-68-0	75.00000	0.00036
			Isopropanol	67-63-0	25.00000	0.00012

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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/19/2014
Job End Date:	8/14/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10009-00-00
Operator Name:	Noble Energy, Inc.
Well Name and Number:	Pen1 A
Longitude:	-80.99285600
Latitude:	39.33505000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,387
Total Base Water Volume (gal):	9,183,972
Total Base Non Water Volume:	0



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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
Fresh Water	Operator	Base Fluid					
			Fresh Water	7732-18-5	100.00000	90.09270	Density = 8.330
SAND - PREMIUM WHITE	Halliburton	Proppant					
			Crystalline silica, quartz	14808-60-7	100.00000	5.38711	
SSA-2	Halliburton	Proppant					
			Crystalline silica, quartz	14808-60-7	100.00000	3.67810	
HYDROCHLORIC ACID 10-30%	Halliburton	Solvent					
			Hydrochloric acid	7647-01-0	30.00000	0.05692	
HYDROCHLORIC ACID 5-10%	Halliburton	Solvent					
			Hydrochloric acid	7647-01-0	10.00000	0.04579	
LGC-36 UC	Halliburton	Liquid Gel Concentrate					
			Naphtha, hydrotreated heavy	64742-48-9	60.00000	0.01430	
			Guar gum	9000-30-0	60.00000	0.01430	
FR-66	Halliburton	Friction Reducer					
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02846	
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive					
			Acetic anhydride	108-24-7	100.00000	0.00427	

BE-9	Halliburton	Biocide	Acetic acid	64-19-7	60.00000	0.00256	
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00000	0.00423	
LP-65 MC	Halliburton	Scale Inhibitor					
			Ammonium chloride	12125-02-9	10.00000	0.00258	
LoSurf-300D	Halliburton	Non-ionic Surfactant					
			Ethanol	64-17-5	60.00000	0.00086	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.00043	
			Naphthalene	91-20-3	5.00000	0.00007	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00000	0.00007	
			1,2,4 Trimethylbenzene	95-63-6	1.00000	0.00001	
LCA-1	Halliburton	Solvent					
			Paraffinic solvent	Confidential	100.00000	0.00085	Denise Tuck, Halliburton 3000 N. Sam Houston Pkwy E., Houston, TX 77032 281-871-6226
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00042	
			Propargyl alcohol	107-19-7	10.00000	0.00007	
SP BREAKER	Halliburton	Breaker					
			Sodium persulfate	7775-27-1	100.00000	0.00048	
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.							
		Other Ingredient(s)					
			Water	7732-18-5		0.76224	
		Other Ingredient(s)					
			Polyacrylamide copolymer	Confidential		0.02846	
		Other Ingredient(s)					
			Organic phosphonate	Confidential		0.01547	
		Other Ingredient(s)					
			Fatty acid tall oil amide	Confidential		0.00474	
		Other Ingredient(s)					
			Sodium chloride	7647-14-5		0.00474	
		Other Ingredient(s)					
			Ammonium chloride	12125-02-9		0.00474	
		Other Ingredient(s)					
			Alcohols, C12-16, ethoxylated	68551-12-2		0.00474	
		Other Ingredient(s)					
			Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite	68953-58-2		0.00119	
		Other Ingredient(s)					

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		Sorbitan monooleate polyoxyethylene derivative	9005-65-6		0.00095
		Other Ingredient(s)			
		Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8		0.00095
		Other Ingredient(s)			
		Oxyalkylated phenolic resin	Confidential		0.00043
		Other Ingredient(s)			
		Formaldehyde	50-00-0		0.00026
		Other Ingredient(s)			
		Fatty alcohol polyglycol ether surfactant	9043-30-5		0.00024
		Other Ingredient(s)			
		Alcohols, C14-C15, ethoxylated	68951-67-7		0.00021
		Other Ingredient(s)			
		Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1		0.00021
		Other Ingredient(s)			
		Fatty acids, tall oil	Confidential		0.00021
		Other Ingredient(s)			
		Oxyalkylated phenolic resin	Confidential		0.00014
		Other Ingredient(s)			
		Olefins	Confidential		0.00004
		Other Ingredient(s)			
		Olefins	Confidential		0.00004
		Other Ingredient(s)			
		Crystalline silica, quartz	14808-60-7		0.00002
		Other Ingredient(s)			
		Olefins	Confidential		0.00001
		Other Ingredient(s)			
		Olefins	Confidential		0.00001
		Other Ingredient(s)			
		Sodium sulfate	7757-82-6		0.00000

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* 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)

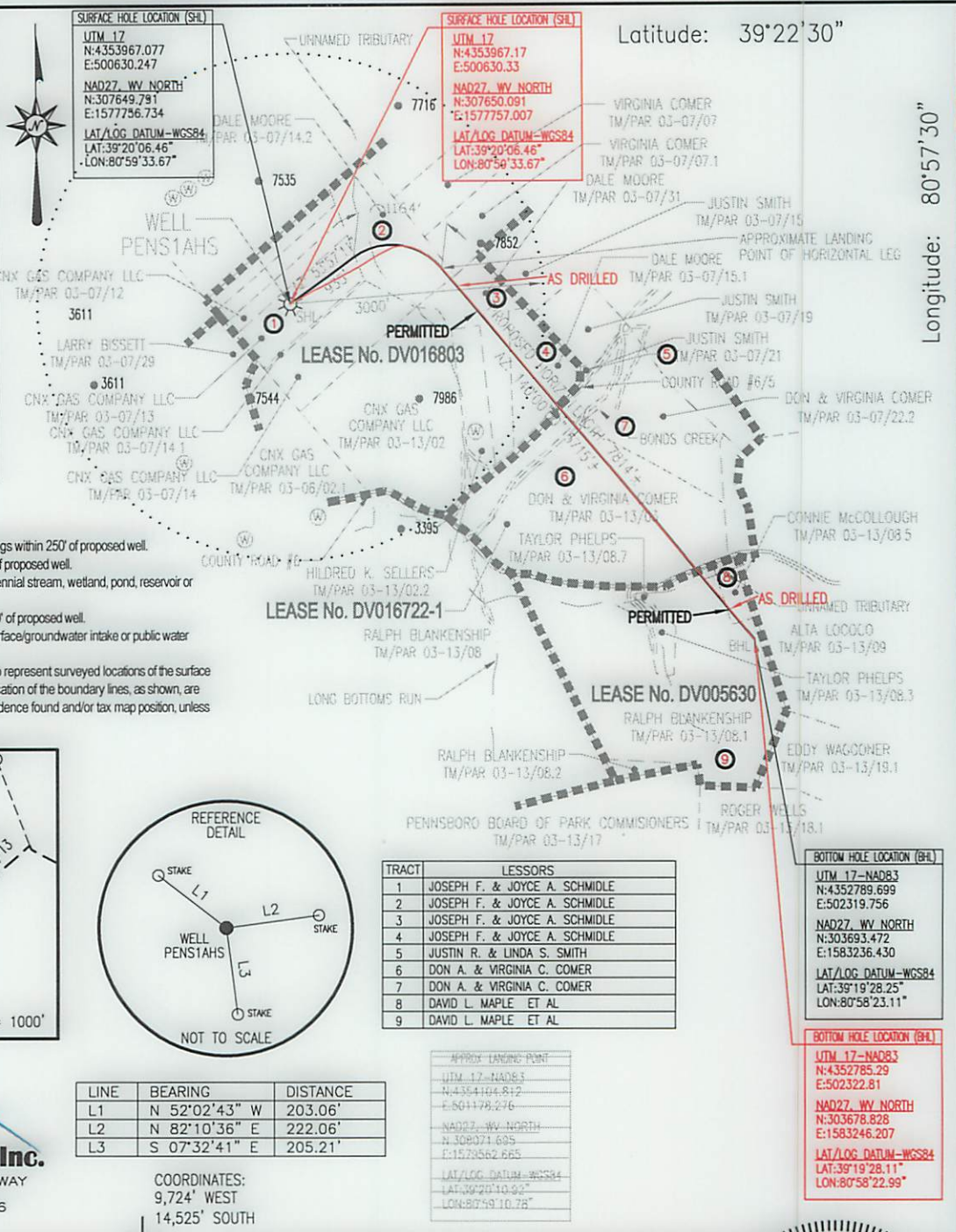
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LEGEND

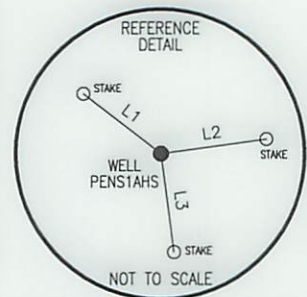
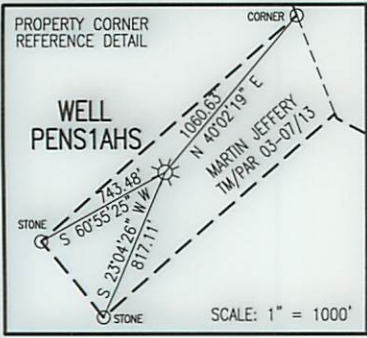
- TOPO MAP POINT
- PROPOSED GAS WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- WATER SOURCE
- LEASE NUMBER
- SURFACE BOUNDARY
- LEASE BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- AS DRILLED

WELLS WITHIN 3000'

- EXISTING WELLS
- PLUGGED WELLS



- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.



TRACT	LESSORS
1	JOSEPH F. & JOYCE A. SCHMIDLE
2	JOSEPH F. & JOYCE A. SCHMIDLE
3	JOSEPH F. & JOYCE A. SCHMIDLE
4	JOSEPH F. & JOYCE A. SCHMIDLE
5	JUSTIN R. & LINDA S. SMITH
6	DON A. & VIRGINIA C. COMER
7	DON A. & VIRGINIA C. COMER
8	DAVID L. MAPLE ET AL
9	DAVID L. MAPLE ET AL

LINE	BEARING	DISTANCE
L1	N 52°02'43" W	203.06'
L2	N 82°10'36" E	222.06'
L3	S 07°32'41" E	205.21'

COORDINATES:
 9,724' WEST
 14,525' SOUTH

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: PENS1AHS-AS DRILLED
 DRAWING #: PENS1AHS-AS DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: AUGUST 26, 2014
 OPERATOR'S WELL #: PENS1AHS-AS DRILLED
 API WELL #: 47 85 ~~1000716A~~
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UNNAMED TRIBUTARY TO BONDS CREEK ELEVATION: 1121.06'

COUNTY/DISTRICT: RITCHIE / CLAY QUADRANGLE: PENNSBORO, WV 7.5'

SURFACE OWNER: CNX GAS COMPANY LLC ACREAGE: 19.759±

OIL & GAS ROYALTY OWNER: SEE TABLE ABOVE ACREAGE: 353.202±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: HELDERBERG, MARCELLUS ESTIMATED DEPTH: TVD: 7,000'± TMD: 15,000'±

WELL OPERATOR NOBLE ENERGY, INC. DESIGNATED AGENT STEVEN M. GREEN
 Address 333 TECHNOLOGY DRIVE, SUITE 110 Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 1001
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

10009

12/05/2014