

JK

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

API 47-051-01669 County Marshall District Franklin
Quad Powhatan Point Pad Name MND 3 Field/Pool Name NA
Farm name Consol Mining Co., LLC Well Number MND 3 FHS
Operator (as registered with the OOG) Noble Energy, Inc.
Address 333 Technology Drive, Suite 116 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 4411172.14 Easting 517788.00
Landing Point of Curve Northing 4410968.31 Easting 517754.31
Bottom Hole Northing 4409510.98 Easting 518814.52

Elevation (ft) 1128.39' 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 11/3/2013 Date drilling commenced 4/20/2014 Date drilling ceased 8/30/2014
Date completion activities began 11/6/2014 Date completion activities ceased 12/13/14
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 165' and 298' Open mine(s) (Y/N) depths N
Salt water depth(s) ft None noted for Offsets Void(s) encountered (Y/N) depths N
Coal depth(s) ft 612' Pittsburgh Base Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) Y - Ireland Mine

RECEIVED
Office of Oil and Gas
FEB 02 2015
WV Department of
Environmental Protection

Reviewed by: _____

API 47- 051 - 01669 Farm name Consol Mining Co., LLC Well number MND 3 FHS

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	36	30	40	N			
Surface	24	20	385.0	N	J-55 94#		Y
Coal							
Intermediate 1	17 1/2	13 3/8	1,076.0	N	J-55 54.5#		Y
Intermediate 2	12 3/8	9 5/8	2,616.0	N	K 55 36#		Y
Intermediate 3							
Production	8 3/4	5 1/2	12634.0	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 I	559	15.6	1.21	120.0	0	8
Coal							
Intermediate 1	Class A	915	15.6	1.19	196.7	0	8
Intermediate 2	Class A	890	15.6	1.19	187.0	0	8
Intermediate 3							
Production	Class A	Lead - 1025 Tail - 1280	Lead 14.2 Tail 15.0	Lead - 1.32 Tail - 1.30	Lead 241.0 - Tail 296.0	2,626	8
Tubing							

Drillers TD (ft) 12,839 Loggers TD (ft) 12,816

Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole

Plug back procedure Not a Pilot Hole

Kick off depth (ft) 6,815

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 _____

4 Centralizers on Surface Casing, 9 Centralizers on Intermediate 1 Casing, 22 Centralizer used on the Intermediate 2 String, and on the Production 250 Centralizers were utilized.

On the Surface and Intermediate strings the centralizers are on every 3 joint of casing.

On the Surface and Intermediate strings the centralizers are on every 3 joint of casing.

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 Hydrocarbon (HC) Tracers

Perforation Record

API: 47-051-01669

Farm name: Consol Mining
Co. LLC.

Well Name: MND-3F-HS

Stage No.	Stim Date	Top Perf	Bottom Perf	# of Perfs	Formation
Toe Prep Inj Test	11/6/2014	12,498	12,500	12	Marcellus
1	11/6/2014	12,298	12,436	45	Marcellus
2	11/6/2014	12,003	12,213	48	Marcellus
3	11/6/2014	11,710	11,916	48	Marcellus
4	11/7/2014	11,551	11,622	30	Marcellus
5	11/7/2014	10,669	10,897	50	Marcellus
6	11/7/2014	10,372	10,533	48	Marcellus
7	11/7/2014	10,078	10,237	48	Marcellus
8	11/8/2014	9,851	9,944	45	Marcellus
9					Marcellus
10	11/9/2014	9,128	9,355	48	Marcellus
11	11/9/2014	8,832	8,993	48	Marcellus
12	11/10/2014	8,537	8,693	48	Marcellus
13	11/10/2014	8,242	8,402	48	Marcellus
14	11/10/2014	7,881	8,108	45	Marcellus
15	11/10/2014	7,585	7,788	48	Marcellus
16	11/10/2014	7,289	7,496	48	Marcellus
17	11/11/2014	6,993	7,202	48	Marcellus
18	11/11/2014	6,762	6,884	45	Marcellus

STIMULATION INFORMATION PER STAGE

API: 47-051-01669

Farm name:

Consol Mining Co.
LLC.

Well Name: MND-3F-HS

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other (units)
Toe Prep Inj Test	11/6/2014	9.9	8,108	-	5,101	-	577	
1	11/6/2014	83.9	6,931	8,095	3,457	401,986	9,415	
2	11/6/2014	89.5	7,153	7,558	3,679	601,243	14,236	
3	11/6/2014	85.7	7,475	6,321	3,916	599,910	14,116	
4	11/7/2014	50.6	6,698	8,305	3,902	147,351	5,554	
5	11/7/2014	90.4	6,679	6,400	3,809	588,059	12,671	
6	11/7/2014	86.8	7,235	5,677	4,043	600,590	12,771	
7	11/7/2014	86.7	7,364	6,081	3,990	601,392	12,759	
8	11/8/2014	90.4	7,281	6,588	4,163	500,890	10,242	
9								
10	11/9/2014	85.6	7,266	6,298	3,826	320,998	9,461	
11	11/9/2014	77.6	7,518	6,321	3,938	601,109	13,042	
12	11/10/2014	85.7	6,918	6,242	4,041	600,505	12,362	
13	11/10/2014	82.8	7,226	5,998	4,402	600,919	11,802	
14	11/10/2014	86.9	6,601	5,532	4,409	600,988	12,422	
15	11/10/2014	82.2	7,175	5,786	3,842	601,608	12,086	
16	11/10/2014	83	6,824	6,109	4,347	598,863	12,860	
17	11/11/2014	87.4	6,412	5,958	3,657	598,244	12,541	
18	11/11/2014	78.5	7,550	6,027	4,302	17,505	2,577	

MND 3F 47-051-01669

Formations	Top TVD	Base TVD	Top MD	Base MD	Fluid
Shale and Sandstone	0	606	0	606	
Pittsburgh Coal	606	616	606	616	
Shale and Sandstone	616	1069	616	1069	
Dunkard Sand	1069	1090	1069	1090	
Shale	1090	1239	1090	1239	
Gas Sand	1239	1310	1239	1310	
Shale	1310	1379	1310	1379	
1st Salt Sand	1379	1395	1379	1395	
Shale	1395	1502	1395	1502	
2nd Salt Sand	1502	1531	1502	1531	
Shale and Sandstone	1531	1661	1531	1661	
Maxton Sand	1661	1708	1661	1708	
Shale	1708	1726	1708	5044	
Big Lime	1726	1798	1726	5120	
Big Injun	1798	2068	1798	5711	
Price	2068	2166	2068	6033	
Murrysville	2166	2273	2166	6107	
Shale and Sandstone	2273	2811	2273	6131	
Gordon	2811	2841	2811	6194	
Shale and Sandstone	2841	3362	2841	6220	
Fifth Sand	3362	3415	3363	6247	
Shale and Sandstone	3415	4217	3416	not encountered	
Warren Sand	4217	4226	4226	not encountered	
Shale	4226	4943	4236	not encountered	
Java Shale	4943	5027	4960	not encountered	
Pipe Creek Shale	5027	5102	5044	5120	
Angola Shale	5102	5686	5120	5711	
Rhinestreet	5686	6005	5711	6033	
Cashaqua	6005	6077	6033	6107	
Middlesex	6077	6100	6107	6131	
West River	6100	6161	6131	6194	
Burkett	6161	6185	6194	6220	
Tully Limestone	6185	6211	6220	6247	Gas
Hamilton	6211	6246	6247	not encountered	
Marcellus	6246	6299	not encountered	not encountered	
Onondaga	6299		not encountered	not encountered	

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/6/2014
Job End Date:	11/11/2014
State:	West Virginia
County:	Marshall
API Number:	47-051-01669-00-00
Operator Name:	Noble Energy, Inc.
Well Name and Number:	MND 3 F
Longitude:	-80.79225300
Latitude:	39.85030800
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,147
Total Base Water Volume (gal):	8,042,673
Total Base Non Water Volume:	0



51-01669

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	87.67699	Density = 8.330
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00000	7.82747	
SAND - COMMON WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00000	3.71526	
HYDROCHLORIC ACID 5-10%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	10.00000	0.06379	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02119	
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Acetic anhydride	108-24-7	100.00000	0.00327	
			Acetic acid	64-19-7	60.00000	0.00196	
BE-9W	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00000	0.00422	
Scalechek® LP-65 Scale Inhibitor	Halliburton	Scale Inhibitor					

			Ammonium chloride	12125-02-9	10.00000	0.00250	
LoSurf-300D	Halliburton	Non-ionic Surfactant					
			Ethanol	64-17-5	60.00000	0.00044	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.00022	
			Naphthalene	91-20-3	5.00000	0.00004	
			Poly(oxy-1,2-ethanediy), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00000	0.00004	
			1,2,4 Trimethylbenzene	95-63-6	1.00000	0.00001	
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00032	
			Propargyl alcohol	107-19-7	10.00000	0.00005	
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		0.73749	
		Other Ingredient(s)					
			Propylene glycol	57-55-6		0.02532	
		Other Ingredient(s)					
			Polyacrylamide copolymer	Confidential		0.02119	
		Other Ingredient(s)					
			Organic phosphonate	Confidential		0.01501	
		Other Ingredient(s)					
			Fatty acid tall oil amide	Confidential		0.00353	Denise Tuck, Halliburton 3000 N. Sam Houston Pkwy E., Houston, TX 77032 281-871-6226
		Other Ingredient(s)					
			Ammonium chloride	12125-02-9		0.00353	
		Other Ingredient(s)					
			Alcohols, C12-16, ethoxylated	68551-12-2		0.00353	
		Other Ingredient(s)					
			Sodium chloride	7647-14-5		0.00353	
		Other Ingredient(s)					
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6		0.00071	
		Other Ingredient(s)					
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8		0.00071	
		Other Ingredient(s)					
			Formaldehyde	50-00-0		0.00025	
		Other Ingredient(s)					
			Oxyalkylated phenolic resin	Confidential		0.00022	
		Other Ingredient(s)					
			Fatty acids, tall oil	Confidential		0.00016	
		Other Ingredient(s)					

6991015

		Alcohols, C14-C15, ethoxylated	68951-67-7		0.00016
	Other Ingredient(s)				
		Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1		0.00016
	Other Ingredient(s)				
		Oxyalkylated phenolic resin	Confidential		0.00007
	Other Ingredient(s)				
		Olefins	Confidential		0.00003
	Other Ingredient(s)				
		Olefins	Confidential		0.00003
	Other Ingredient(s)				
		Olefins	Confidential		0.00001
	Other Ingredient(s)				
		Olefins	Confidential		0.00001

* 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.

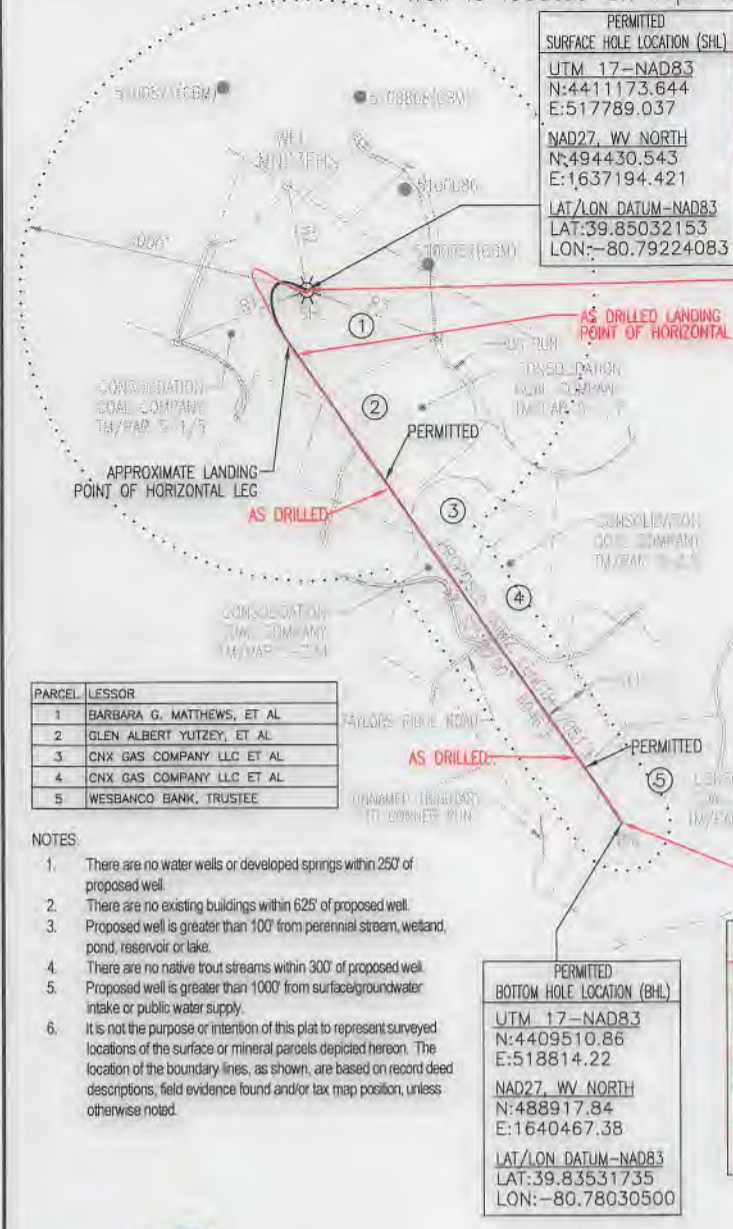
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

51-01669

Well is located on topo map 9,000' feet south of Latitude: 39° 52' 30"

Well is located on topo map 163' feet west of Longitude: 80° 47' 30"

AS DRILLED PLAT



PERMITTED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4411173.644
 E:517789.037
 NAD27, WV NORTH
 N:494430.543
 E:1637194.421
 LAT/LON DATUM-NAD83
 LAT:39.85032153
 LON:-80.79224083

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4411172.14
 E:517788.00
 NAD27, WV NORTH
 N:494425.679
 E:1637190.950
 LAT/LON DATUM-NAD83
 LAT:39.85030804
 LON:-80.79225294



LINE	BEARING	DETAIL
R1	S 88° 52' 30" W	1148.15
R2	N 12° 00' 00" W	1195.00
R3	S 90° 00' 00" E	1456.16
R4	N 80° 00' 00" E	150.96
R5	S 19° 52' 30" E	232.00
R6	S 04° 52' 30" E	506.85

PARCEL	LESSOR
1	BARBARA G. MATTHEWS, ET AL
2	GLEN ALBERT YUTZEY, ET AL
3	CNX GAS COMPANY LLC ET AL
4	CNX GAS COMPANY LLC ET AL
5	WESBANCO BANK, TRUSTEE

- 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.

PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4411002.05
 E:517732.48
 NAD27, WV NORTH
 N:493870.57
 E:1636999.43
 LAT/LON DATUM-NAD83
 LAT:39.84877667
 LON:-80.79290654

AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4410968.31
 E:517754.31
 NAD27, WV NORTH
 N:493758.64
 E:1637069.23
 LAT/LON DATUM-NAD83
 LAT:39.84847216
 LON:-80.79265224

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4409510.86
 E:518814.22
 NAD27, WV NORTH
 N:488917.84
 E:1640467.38
 LAT/LON DATUM-NAD83
 LAT:39.83531735
 LON:-80.78030500

AS DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4409510.98
 E:518814.52
 NAD27, WV NORTH
 N:488918.22
 E:1640468.40
 LAT/LON DATUM-NAD83
 LAT:39.83531845
 LON:-80.78030137


LEGEND

- 100' W. NORTH
- WELL
- 10' TO 100' W. NORTH
- LEASE NUMBER
- PROPOSED HORIZONTAL WELL
- ROAD
- ELEVATION
- AS DRILLED
- EXISTING WELLS
- WELL
- WELL

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

FILE #: MND3FHS-AS DRILLED
 DRAWING #: MND3FHS-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: 

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: JANUARY 6, 2015
 OPERATOR'S WELL #: MND3FHS-AS DRILLED
 API WELL #: 47 51 01669
 STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK ELEVATION: 1128.39'
 COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, OH-WV 7.5'
 SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 180.214±
 OIL & GAS ROYALTY OWNER: BARBARA G. MATTHEWS, ET AL ACREAGE: 380.911±

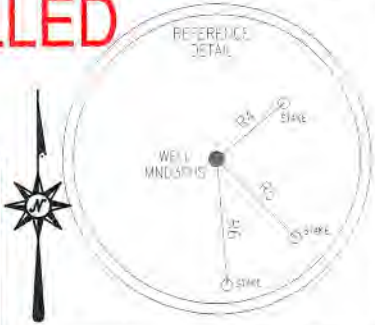
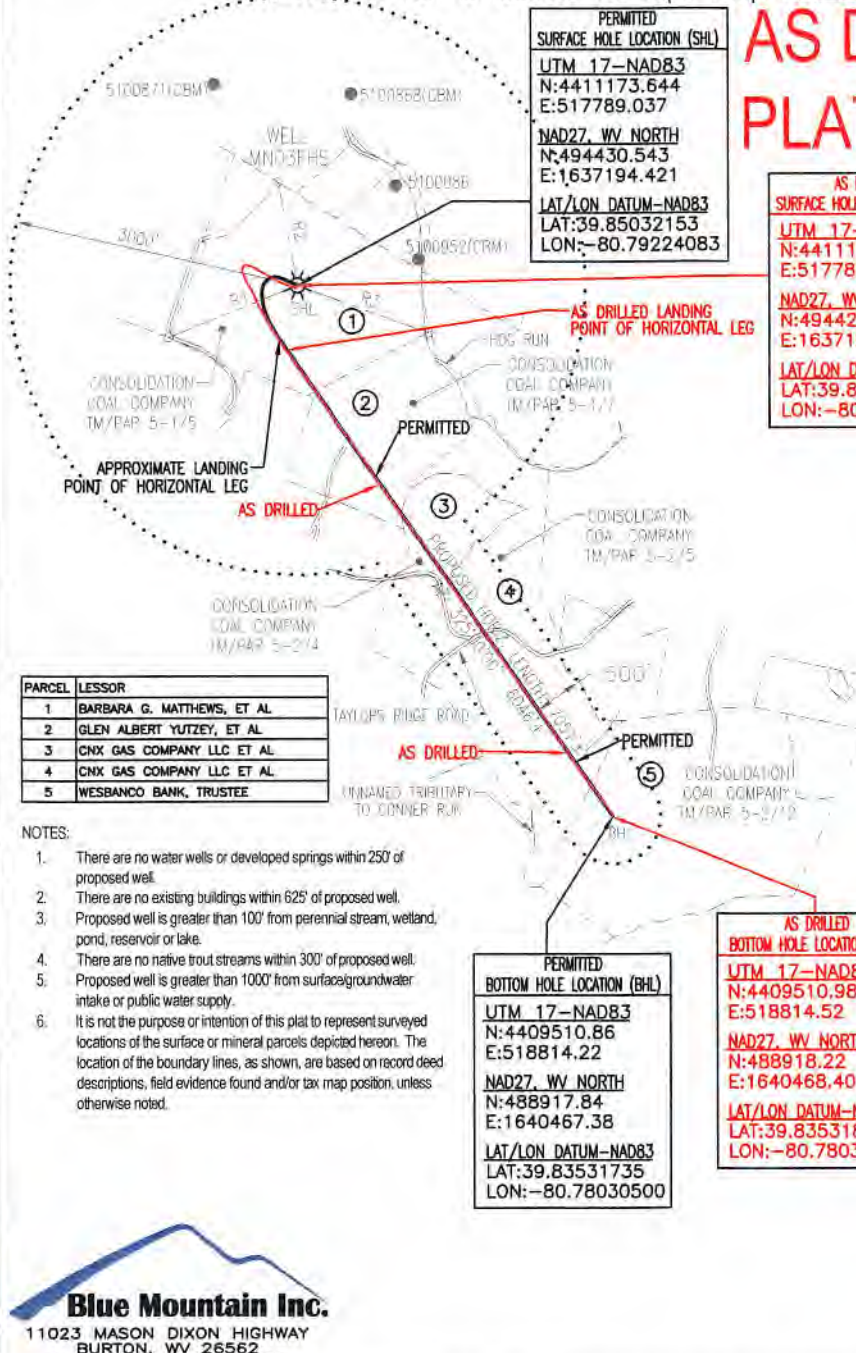
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,279± TMD: 12,804±
 WELL OPERATOR NOBLE ENERGY, INC. DESIGNATED AGENT STEVEN M. GREEN
 Address 333 TECHNOLOGY DRIVE, SUITE 116 Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

Well is located on topo map 9,000' feet south of Latitude: 39° 52' 30"

Well is located on topo map 163' feet west of Longitude: 80° 47' 30"

AS DRILLED PLAT



LINE	BEARING	DISTANCE
R1	S 68°23'02" W	1448.73'
R2	N 10°33'55" W	1095.09'
R3	S 70°11'23" E	1450.96'
R4	N 50°29'36" E	180.98'
R5	E 44°40'48" E	232.44'
R6	S 64°29'51" E	263.48'

PARCEL	LESSOR
1	BARBARA G. MATTHEWS, ET AL
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UTM 17-NAD83 N:4411002.05 E:517732.48	UTM 17-NAD83 N:4410968.31 E:517754.31
NAD27, WV NORTH N:493870.57 E:1636999.43	NAD27, WV NORTH N:493758.64 E:1637069.23
LAT/LON DATUM-NAD83 LAT:39.84877667 LON:-80.79290654	LAT/LON DATUM-NAD83 LAT:39.84847216 LON:-80.79265224

PERMITTED BOTTOM HOLE LOCATION (BHL)	AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4409510.86 E:518814.22	UTM 17-NAD83 N:4409510.98 E:518814.52
NAD27, WV NORTH N:488917.84 E:1640467.38	NAD27, WV NORTH N:488918.22 E:1640468.40
LAT/LON DATUM-NAD83 LAT:39.83531735 LON:-80.78030500	LAT/LON DATUM-NAD83 LAT:39.83531845 LON:-80.78030137

LEGEND	
	- TOPO MAP POINT
	- WELL
	- ALL ARC POINTS UNLESS OTHERWISE NOTED.
	- LEASE NUMBER
	- MINERAL TRACT BOUNDARY
	- PARCEL LINES
	- WELL REFERENCE
	- PROPOSED HORIZONTAL WELL
	- ROAD
	- STREAM CENTER LINE
	- AS DRILLED
EXISTING WELLS	
	- EXISTING WELLS
	- PLUGGED WELLS

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

FILE #: MND3FHS-AS DRILLED
DRAWING #: MND3FHS-AS DRILLED
SCALE: 1" = 2000'
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Signed: [Signature]
R.P.E.: _____ L.L.S.: P.S. No. 2000



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



DATE: JANUARY 6, 2015
OPERATOR'S WELL #: MND3FHS-AS DRILLED
API WELL #: 47 51 01669
STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK ELEVATION: 1128.39'
COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, OH-WV 7.5'
SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 180.214±
OIL & GAS ROYALTY OWNER: BARBARA G. MATTHEWS, ET AL ACREAGE: 380.911±

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: MARCELLUS ESTIMATED DEPTH: TVD: 6,279'± TMD: 12,804'±
WELL OPERATOR NOBLE ENERGY, INC. DESIGNATED AGENT STEVEN M. GREEN
Address 333 TECHNOLOGY DRIVE, SUITE 116 Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590
City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301