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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

March 25, 2014

**WELL WORK PERMIT**

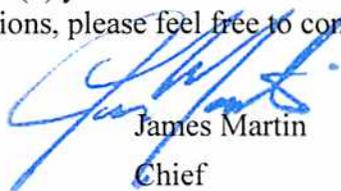
**Horizontal 6A Well**

This permit, API Well Number: 47-5101738, issued to NOBLE ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: MND 3 BHS  
Farm Name: CONSOL MINING CO., LLC  
**API Well Number: 47-5101738**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 03/25/2014

**Promoting a healthy environment.**

4705101738

## PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

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WW-6B  
(9/13)

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Noble Energy, Inc. 494501907 Marshall Franklin Powhatan Point  
Operator ID County District Quadrangle

51 3 558

2) Operator's Well Number: MND 3 BHS Well Pad Name: MND 3

3) Farm Name/Surface Owner: Consol Mining Co., LLC Public Road Access: CR 2/1

4) Elevation, current ground: 1128.39' Elevation, proposed post-construction: 1112'

5) Well Type (a) Gas  Oil  Underground Storage   
Other

(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No yes-building now

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):  
Marcellus at 6226' and 53' in thickness, pressure 4427#. Burkett at 6170', 27' in thickness, 3887# pressure. Hamilton at 6205', 21' in thickness, 3909# pressure.

8) Proposed Total Vertical Depth: 6279'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,842'

11) Proposed Horizontal Leg Length: 8,714'

12) Approximate Fresh Water Strata Depths: 165' and 298'

13) Method to Determine Fresh Water Depths: Offset well data

14) Approximate Saltwater Depths: None noted in offsets

15) Approximate Coal Seam Depths: 612' Pittsburgh Base

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated, drilling in pillar-mine maps attached

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No

(a) If Yes, provide Mine Info: Name: Ireland Mine  
Depth: Base at 612' at deepest point  
Seam: Pittsburgh  
Owner: Murray American Energy (Previously Consol)

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WW-6B  
(9/13)

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling</b>	<b>INTERVALS: Left in Well</b>	<b>CEMENT: Fill-up (Cu. Ft.)</b>
Conductor	30"	New	LS	117#	40'	40'	CTS
Fresh Water	20"	New	LS	94#	400'	400'	CTS
Coal	13 3/8"	New	J-55	54.5#	1062'	1062'	CTS
Intermediate	9 5/8"	New	J-55	36#	2600'	2600'	CTS
Production	5 1/2"	New	P110	20#	13,842'	13,842'	TOC 200' above 9.625 casing shoe
Tubing							
Liners							

*MGK 1/21/2014  
du 1/21/14*

<b>TYPE</b>	<b>Size</b>	<b>Wellbore Diameter</b>	<b>Wall Thickness</b>	<b>Burst Pressure</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	30"	36"	0.375		Type 1/Class A	1.2
Fresh Water	20"	26"	.438	2730	Type 1/Class A	1.2
Coal	13 3/8"	17 1/2"	.380	2730	Type 1/Class A	1.2
Intermediate	9 5/8"	12 3/8"	.352	3520	Type 1/Class A	1.19
Production	5 1/2"	8 3/4" & 8 1/2"	.361	12,640	Type 1/Class A	1.27
Tubing						
Liners						

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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WW-6B  
(9/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6279 feet. Drill Horizontal leg - stimulate and produce the Marcellus Formation. If we should encounter an unanticipated void we will install casing at a minimum of 20' below the void but not more than 100' below the void, set a basket and grout to surface.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 10,000 lb.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.6

22) Area to be disturbed for well pad only, less access road (acres): 9.1

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Surface casing will have bow spring centralizers on first 2 joints then every third joint to 100' from surface. Intermediate casing will have bow spring centralizers on first 2 joints then every third joint to 100' from surface. Production string will have a rigid bow spring every joint to KOP, rigid bow spring every third joint from KOP to top of cement.

24) Describe all cement additives associated with each cement type:

Conductor-1.15% CaCl \*Surface and Coal (Intermediate)- Class A Portland Cement CaCl 2%, 2% Accelerator, 0.2% Antifoam and 0.125#/sk Flake. Excess Yield=1.18 Production- 14.8 ppg class A 25:75:0 System +2.6% Cement extender, 0.7% Fluid Loss additive, 0.45% high temp retarder, 0.2% friction reducer 15% Excess Yield=1.27 TOC greater or equal to 200' above 9.625" shoe.  
\*Surface and Coal string WVDEP approved variance attached.

25) Proposed borehole conditioning procedures:

Conductor-The hole is drilled w/air and casing is run on air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Surface-The hole is drilled w/air and casing is run on air. Fill with KCl water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement Coal-The hole is drilled and cased w/air or on Freshwater based mud. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate-Once surface casing is set and cemented, intermediate hole is drilled either on air or SOBMs and filled with KCl water once drilled to TD. Production-The hole is drilled with SOBMs and once to TD, circulated at maximum allowable pump rate for at least 6x bottoms up. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

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\*Note: Attach additional sheets as needed.

WW-9  
(9/13)

4705101738

API Number 47 - \_\_\_\_\_  
Operator's Well No. MND 3 BHS

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Noble Energy, Inc. OP Code 494501907

Watershed (HUC 10) Short Creek-Ohio River (HUC 10) Quadrangle Powhatan Point

Elevation 1112' Post Construction County Marshall District Franklin

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Closed Loop-No pit will be utilized

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number TBD-Next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air thru coal string, then SOB M

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Please see attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfills

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? Please see attached

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Laura L. Adkins

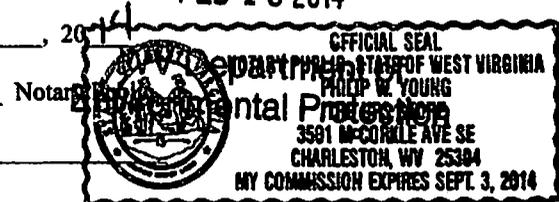
Company Official (Typed Name) Laura Adkins

Company Official Title Regulatory Analyst

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Subscribed and sworn before me this 17<sup>th</sup> day of FEBRUARY, 2014

Philip W. Young



My commission expires 9/3/2014

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Chemical List Including CAS#'s

Type: Friction Reducer (DWP-612)  
Chemical Component as listed on MSDS: Long Chain Polyacrylamide  
CAS: N/A

Type: Biocide (DWP-944)  
1<sup>st</sup> Chemical Component as listed on MSDS: 2,2-Dibromo-3-nitriopropionamide  
CAS: 10222-01-2  
2<sup>nd</sup> Chemical Component as listed on MSDS: Polyethylene Glycol Mixture  
CAS: 25322-68-3

Type: Scale Inhibitor (DAP-901)  
1<sup>st</sup> Chemical Component as listed on MSDS: Methanol  
CAS: 67-56-1  
2<sup>nd</sup> Chemical Component as listed on MSDS: Phosphoric Acid Ammonium Salt  
CAS: Trade Secret  
3<sup>rd</sup> Chemical Component as listed on MSDS: Ammonium Chloride  
CAS: 12125-02-9  
4<sup>th</sup> Chemical Component as listed on MSDS: Organic Phosphonate  
CAS: Trade Secret  
5<sup>th</sup> Chemical Component as listed on MSDS: Amine Salt  
CAS: Trade Secret  
6<sup>th</sup> Chemical Component as listed on MSDS: Oxyalkylated Polyamine  
CAS: Trade Secret

Type: Surfactant (DWP-938)  
Chemical Component as listed on MSDS: Soap  
CAS: N/A

Type: Hydrochloric Acid  
Chemical Component as listed on MSDS: Hydrochloric Acid  
CAS: 7647-01-0

Type: PA Breaker (DWP-690)  
Chemical Component as listed on MSDS: Hydrogen Peroxide  
CAS: Trade Secret

Type: Gel Slurry (DWP-111)  
Chemical Component as listed on MSDS: Viscosifier  
CAS: N/A

Type: Oxidizer Breaker (DWP-901)  
Chemical Component as listed on MSDS: Ammonium Persulfate  
CAS: 7727-54-0

Type: Buffer (DWP-204)  
Chemical Component as listed on MSDS: Formic Acid  
CAS: 64-18-6

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Environmental Protection

## Site Water/Cuttings Disposal

### Cuttings

#### Haul off Company:

Eap Industries, Inc. DOT # 0876278  
1575 Smith Twp State Rd. Atlasburg PA 15004  
1-888-294-5227

MAX Environmental Technologie  
233 Max Lane  
Yukon, PA 25698  
PAD004835146

#### Disposal Locations:

Apex Environmental, LLC Permit # 06-08438  
11 County Road 78  
Amsterdam, OH 43903  
740-543-4389

Westmoreland Waste, LLC Permit # 100277  
111 Conner Lane  
Belle Vernon, PA 15012  
724-929-7694

Sycamore Landfill (Allied Waste) R30-07900105-2010  
4301 Sycamore Ridge Road  
Hurricane, WV 25526  
304-562-2611

### Water

#### Haul off Company:

Dynamic Structures, Clear Creek DOT # 720485  
3790 State Route 7  
New Waterford, OH 44445  
330-892-0164

#### Disposal Location:

Solidification  
Waste Management, Arden Landfill Permit # 100172  
200 Rangos Lane  
Washington, PA 15301  
724-225-1589

Solidification/Incineration  
Soil Remediation, Inc. Permit # 02-20753  
6065 Arrel-Smith Road  
Lowelville, OH 44436

4705101738

Form WW-9

Operator's Well No. MND 3 BHS

Noble Energy, Inc.

Proposed Revegetation Treatment: Acres Disturbed 15.6 acres Prevegetation pH \_\_\_\_\_

Lime 2 to 3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay or straw at 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5
See site plans for full list	

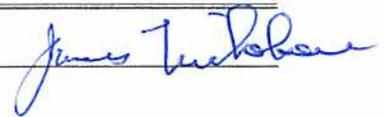
Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5
See site plans for full list	

Attach:

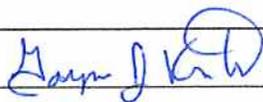
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nicholson WVOOG State Inspector



Comments:



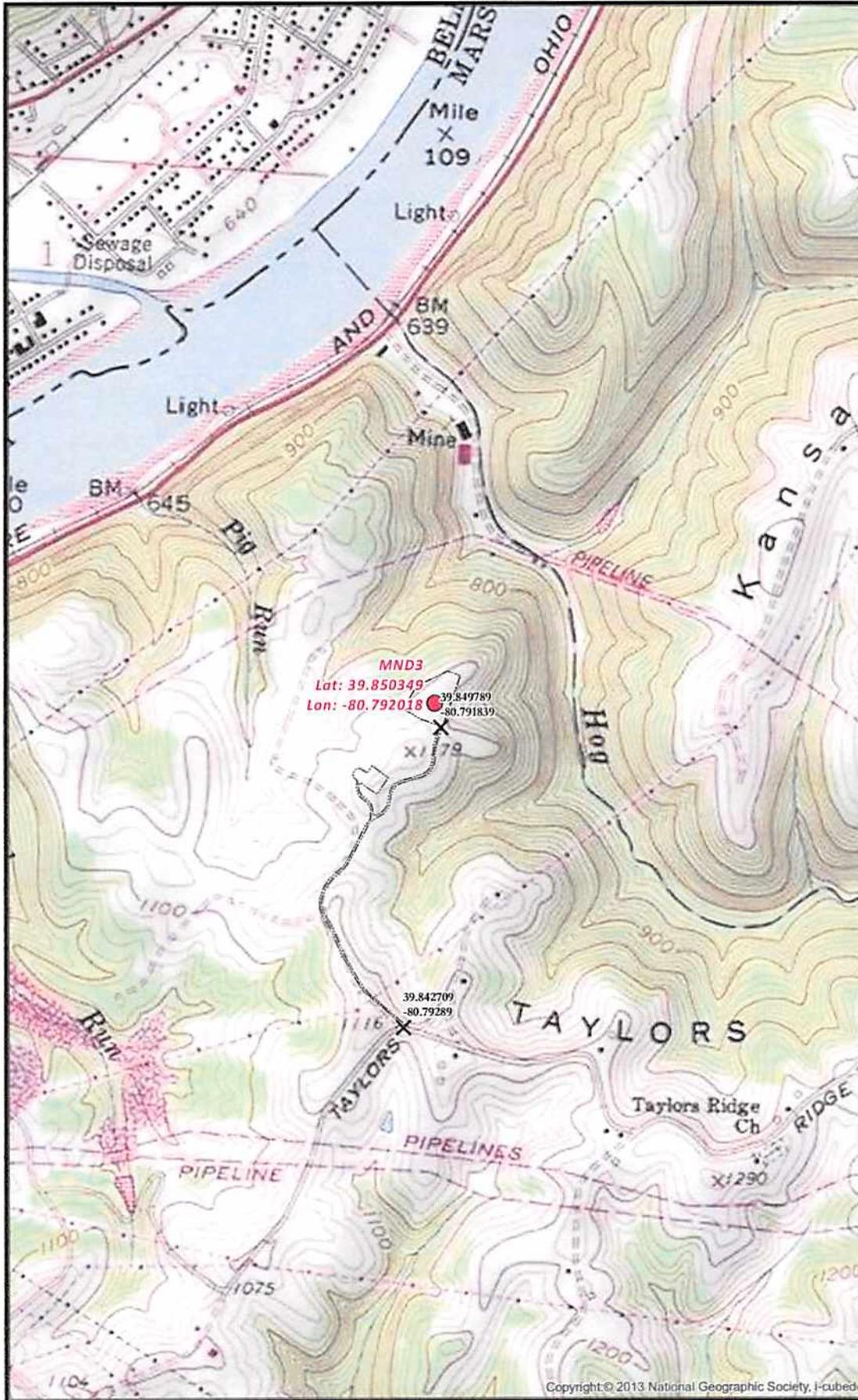
Title: Oil & Gas Inspector

Date: 1/21/14

Field Reviewed?  Yes  No

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plat spotted



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**MND3 SITE SAFETY PLAN**  
- SITE WELL LOCATION -

X Access Road Intersection ● Well Pad Center

--- PROPOSED

0 500 1,000 2,000 Feet

Scale 1" = 1,000'

Projection: NAD\_1983\_StatePlane\_West\_Virginia\_North\_FIPS\_401  
Units: Feet US

**noble energy**

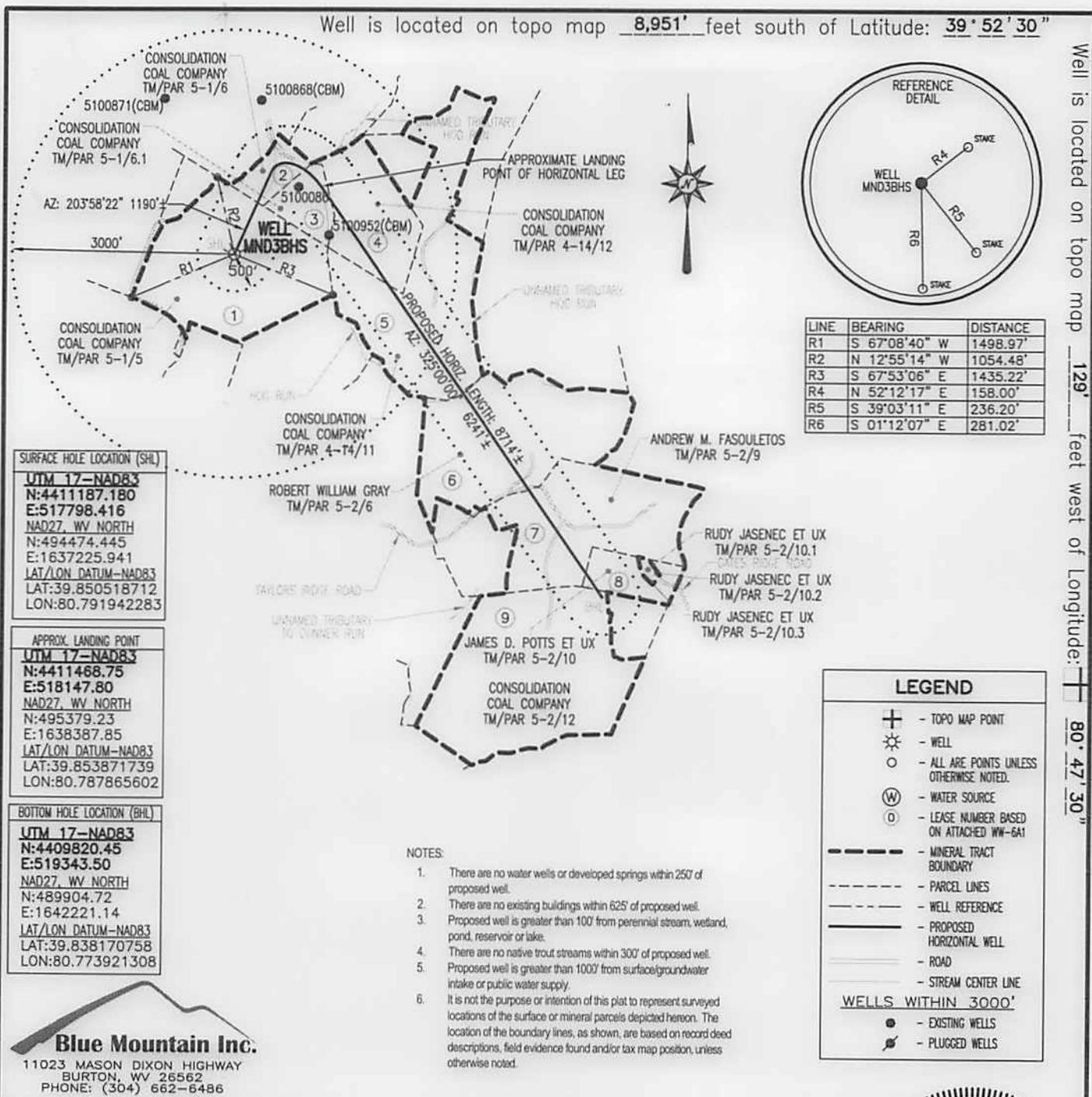
Date: 7/3/2013  
Author: Christopher Glover

Disclaimer: All data is licensed for use by Noble Energy Inc. use only.

1/6

Well is located on topo map 8,951' feet south of Latitude: 39° 52' 30"

Well is located on topo map 129' feet west of Longitude: 80° 47' 30"



**SURFACE HOLE LOCATION (SHL)**  
**UTM 17-NAD83**  
 N:4411187.180  
 E:517798.416  
 NAD27, WV NORTH  
 N:494474.445  
 E:1637225.941  
 LAT/LON DATUM-NAD83  
 LAT:39.850518712  
 LON:80.791942283

**APPROX. LANDING POINT**  
**UTM 17-NAD83**  
 N:4411468.75  
 E:518147.80  
 NAD27, WV NORTH  
 N:495379.23  
 E:1638387.85  
 LAT/LON DATUM-NAD83  
 LAT:39.853871739  
 LON:80.787865602

**BOTTOM HOLE LOCATION (BHL)**  
**UTM 17-NAD83**  
 N:4409820.45  
 E:519343.50  
 NAD27, WV NORTH  
 N:489904.72  
 E:1642221.14  
 LAT/LON DATUM-NAD83  
 LAT:39.838170758  
 LON:80.773921308

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

- 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.

**LEGEND**

- + - TOPO MAP POINT
- ☼ - WELL
- - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- (W) - WATER SOURCE
- - LEASE NUMBER BASED ON ATTACHED WW-6A1
- - - - - MINERAL TRACT BOUNDARY
- - - - - PARCEL LINES
- - - - - WELL REFERENCE
- - - - - PROPOSED HORIZONTAL WELL
- - - - - ROAD
- - - - - STREAM CENTER LINE

**WELLS WITHIN 3000'**

- - EXISTING WELLS
- ⊗ - PLUGGED WELLS

FILE #: MND3BHS  
 DRAWING #: MND3BHS  
 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: *George D. Six*  
 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: OCTOBER 29, 2013  
 OPERATOR'S WELL #: MND3BHS  
 API WELL #: 47 51 01738 HGA  
 STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK ELEVATION: 1122.81'

COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, OH-WV 7.5'

SURFACE OWNER: CONSOLIDATION COAL COMPANY / Consol Mining Co. ACREAGE: 180.214±

OIL & GAS ROYALTY OWNER: SEE ATTACHED WW-6A1 ACREAGE: 524.524±

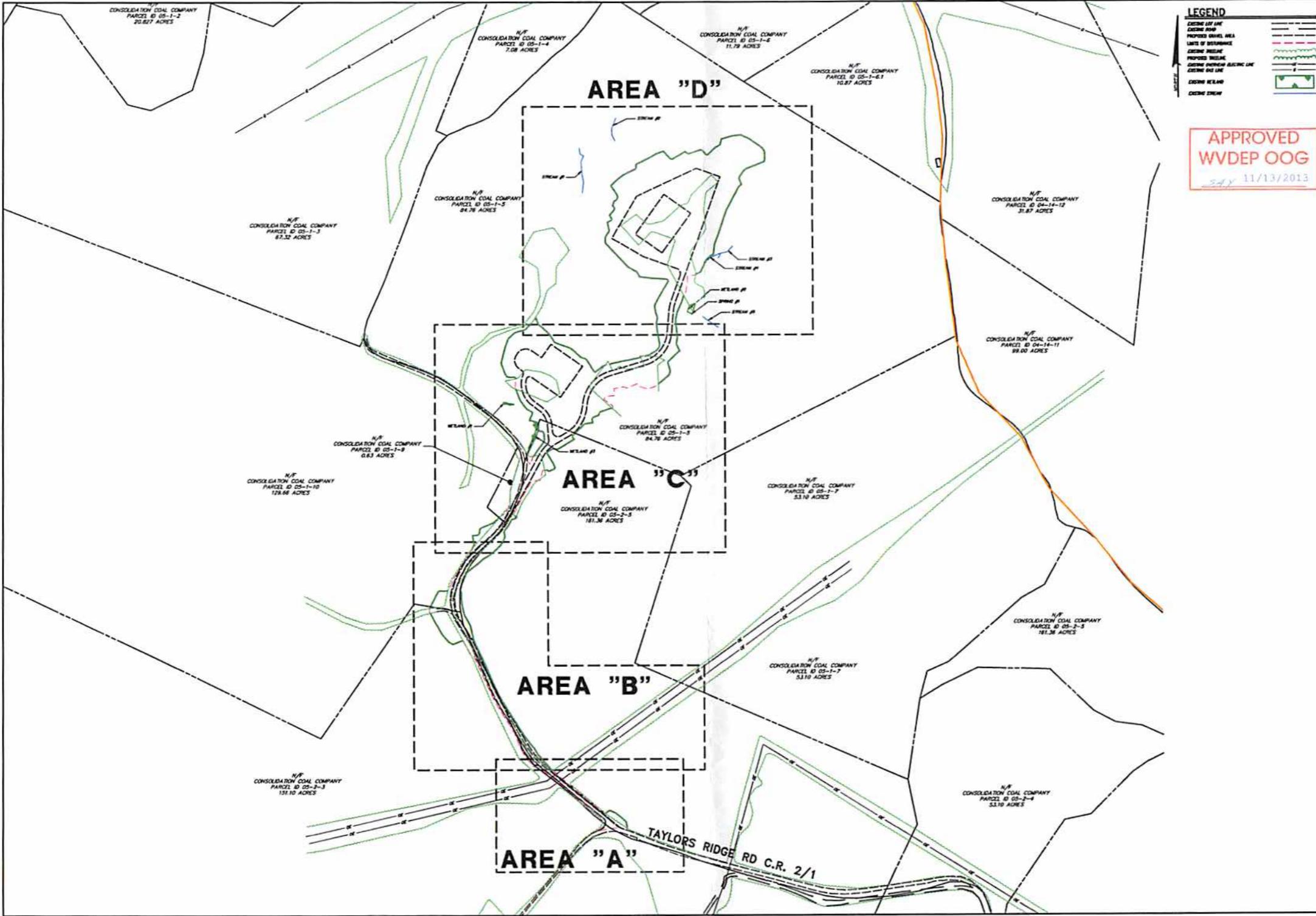
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,279'± TMD: 13,842'±

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







**LEGEND**

- EXISTING LOT LINE
- EXISTING ROAD
- PROPOSED WELLS AREA
- LIMITS OF DISTURBANCE
- EXISTING WELLS
- PROPOSED WELLS
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING WELLS
- EXISTING DRAIN

**APPROVED WVDEP OOG**  
 11/13/2013

SCALE	1"=200'
DATE	11/13/2013
REVISED PER	WV DEP COMMENTS
NO.	1
DATE	11/13/2013
REVISION	



MANAGER	MICHAEL R. OODAN
DESIGNER	ASL
DRAWN BY	ASL
SUPV. CHECK	TELROCK M.D.

CLIENT  
 NOBLE ENERGY DRIVE, SUITE 116  
 CANTONBURGH, PA 15205  
 (724) 820-3000  
**noble energy**

**RETTEW**  
 RETTEW ASSOCIATES, INC.  
 4000 W. 12th St., Suite 200, Pittsburgh, PA 15202  
 Phone: (412) 448-1728 Fax: (412) 448-1733  
 Website: www.retrew.com  
 Equal Opportunity Employer

OVERALL SITE PLAN  
 FOR  
**MND 3 WELL PAD**  
 MARSHALL COUNTY, WV  
 FRANKLIN DISTRICT

DATE: 6/24/13  
 SHEET NO. 3 of 18  
 SHE. NO. 093842008

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