



west virginia department of environmental protection

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

June 10, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101762, 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 6 DHS
Farm Name: CONSOLIDATION COAL COMPA
API Well Number: 47-5101762
Permit Type: Horizontal 6A Well
Date Issued: 06/10/2014

Promoting a healthy environment.

INSPECTORS PERMIT SUMMARY FORM

GPS YES [] NO []

DATE STARTED/LOCATION: _____ OPERATOR: NOBLE ENERGY, INC.
 DRILLING COMMENCED: _____ FARM: CONSOLIDATION COAL COMPANY
 TO DATE: _____ DEPTHS: _____ Well No: MND 6 DHS
 WATER DEPTHS: _____ COAL DEPTHS _____

QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-30 AND REGULATIONS 35CSR 4-12.1 AND 35CSR 4-16 AND THE GENERAL WATER POLLUTION CONTROL PERMIT.

POINTS ARE TO BE GIVEN UP TO MAXIMUM AS SHOWN BASED ON PERFORMANCE.

1. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING:
 - A. CONSTRUCTION YES [] NO [] (2_PTS) (4_PTS) _____
 - B. DRILLING YES [] NO [] (2_PTS)
2. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES [] NO [] (2_PTS) (4_PTS) _____
3. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [] NO [] (4_PTS) (4_PTS) _____
4. CONSTRUCTIONS:
WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED?
 - A. ROAD DITCHES (1)_(2)_(3)_(4)_(PTS) B. CROSS DRAINS (1)_(2)_(3)_(4)_(5)_(PTS)
 - C. CULVERTS (1)_(2)_(3)_(4)_(5)_(PTS) D. CREEK CROSSINGS (1)_(2)_(3)_(PTS)
 - E. DIVERSION DITCHES (1)_(2)_(3)_(PTS) F. BARRIERS (1)_(2)_(3)_(PTS)
 - G. TEMPORARY SEEDING YES [] NO [] (10_PTS)

POINTS AVAILABLE FOR QUESTION 4: (33_PTS) _____

5. HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? YES [] NO [] (2_PTS) (2_PTS) _____
6. IS THE PIT PROPERLY INSTALLED AND MAINTAINED? YES [] NO [] (9_PTS) (9_PTS) _____
7. RECLAMATION:
 - A. ROADWAY (1)_(2)_(3)_(PTS) B. LOCATION (1)_(2)_(3)_(PTS)
 - C. PITS (1)_(2)_(3)_(PTS) D. PIPELINES (1)_(2)_(3)_(PTS)
 - E. TANK DIKES (1)_(2)_(3)_(PTS) F. API INSTALLED YES [] NO [] (3_PTS)
 - G. ADEQUATE SEEDING MATERIALS (1)_(2)_(3)_(PTS)
 - H. WAS SEED BED ADEQUATE (1)_(2)_(3)_(PTS)

POINTS AVAILABLE FOR QUESTION 7: (24_PTS) _____

8. WAS RECLAMATION COMPLETED WITHIN:
6 MTHS OF TD 6_PTS ONLY; 4 MTHS OF TD 12_PTS ONLY; 2 MTHS OF TD 19_PTS ONLY;
POINTS AVAILABLE FOR QUESTION 8: (19_PTS) _____

TOTAL MAXIMUM POSSIBLE SCORE OF 99.

TOTAL RECLAMATION SCORE: _____

DATE RELEASED

INSPECTOR'S SIGNATURE

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

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE 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 moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. 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.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.



DRILLING WELL PLAN
MND-6D-HS (Marcellus HZ)
Macellus Shale Horizontal
Marshall County, WV

Ground Elevation	MND-6D SHL (Lat/Long)	(482519.74N, 1637129.1E) (NAD27)
	MND-6D LP (Lat/Long)	(482719.73N, 1636367.64E) (NAD27)
	MND-6D BHL (Lat/Long)	(491263.42N, 1630385.28E) (NAD27)

WELLBORE DIAGRAM		HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	26	20" 94#	Conductor	40	40	AIR	To Surface	N/A	Ensure the hole is clean at TD.	Stabilize surface fill/soil. Conductor casing = 0.438" wall thickness	
	18	16"	Conductor #2	120	120	Auger	To Surface	N/A	Ensure the hole is clean at TD.	Stabilize surface soil.	
	17 1/2	13-3/8" 54.5# J-55 BTC	Pittsburgh Coal	284	294	AIR	15.6 ppg Type 1 + 2% CaCl ₂ , 0.25# Lost Circ 30% Excess Yield = 1.18	Bow Spring on first 2 joints then every third joint to 100' form surface	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.	Intermediate casing = 0.380" wall thickness Burst=2730 psi	
	12 3/8	9-5/8" 36# K-55 BTC	Surface Casing	694	694	AIR	15.6ppg Class A +0.4% Ret. 0.15% Disp. 0.2% AntiFoam, 0.125#/sk Lost Circ 20% Excess Yield=1.19 To Surface	Bow spring centralizers every third joint to 100' feet from surface	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.	Casing to be ran 250' below the 5th Sand. Intermediate casing = 0.352" wall thickness Burst=3520 psi	
	8.75" Vertical	5-1/2" 23# HCP-110 TXP BTC	Speechley	3019	3065	8.0ppg - 9.0ppg SOBM	14.8ppg Class A 25.75 0 System +2.6% Cement extender, 0.7% Fluid Loss additive, 0.45% high temp retarder, 0.2% friction reducer	Rigid Bow Spring every third joint from KOP to TOC	Once on TD, circulate at max 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.	Production casing = 0.361" wall thickness Burst=12640 psi Note: Actual centralizer schedules may be changed due to hole conditions	
	8.75" Curve		Burkett	5811	5836	12.0ppg - 12.5ppg SOBM	10% Excess Yield=1.27 TOC >= 200' above 9.625" shoe	Rigid Bow Spring every joint to KOP			
	8.75" - 8.5" Lateral	Tully Limestone	5836	5860	12.0ppg - 12.5ppg SOBM						
		Hamilton	5860	5895							
		Marcellus	5895	5950							
		TD	16882 MD	5940 TVD							
		Onondaga	5950	5950							

LP @ 5940' TVD / 6452' MD
 8.75" / 8.5" Hole - Cemented Long String
 5-1/2" 20# HCP-110 TXP BTC
 +/-10431' Lateral
 TD @ +/-5940' TVD +/-16882' MD
 X=centralizers

JIN 8/13/14

51-01762 MOD



DRILLING WELL PLAN
MND-6F-HS (Marcellus HZ)
 Macellus Shale Horizontal
 Marshall County, WV

Ground Elevation		722'		MND-6F SHL (Lat/Long)				(482511.81N, 1637100.16E) (NAD27)		
Azm		325°		MND-6F LP (Lat/Long)				(482043.34N, 1635375.26E) (NAD27)		
WELLBORE DIAGRAM		MND-6F BHL (Lat/Long)					(488582.67N, 1630796.37E) (NAD27)			
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	26	20" 94#	Conductor	40	40	AIR	To Surface	N/A	Ensure the hole is clean at TD.	Stabilize surface fill/soil. Conductor casing = 0.438" wall thickness
	17 1/2	13-3/8" 54.5# J-55 BTC	Pittsburgh Coal	284	294	AIR	15.6 ppg Type 1 + 2% CaCl ₂ , 0.25# Lost Circ 30% Excess Yield = 1.18	Bow Spring on first 2 joints then every third joint to 100' from surface	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.	Intermediate casing = 0.380" wall thickness Burst=2730 psi
			Surface Casing	684	684					
	12 3/8	9-5/8" 30# K-55 BTC	2nd Salt Sand	1377	1413	AIR	15.6ppg Class A +0.4% Ret, 0.15% Disp, 0.2% AntiFoam, 0.125#/sk Lost Circ 20% Excess Yield=1.19 To Surface	Bow spring centralizers every third joint to 100' feet from surface.	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.	Casing to be ran 250' below the 5th Sand. Intermediate casing = 0.352" wall thickness Burst=3520 psi
			Big Lime	1488	1604					
			Big Injun	1604	1717					
			Price Formation	1717	2232					
	8.75" Vertical	5-1/2" 23# HCP-110 TXP BTC	Int. Casing	2017	2017	8.0ppg - 9.0ppg SOBMs	14.8ppg Class A 25:75:0 System +2.6% Cement extender, 0.7% Fluid Loss additive, 0.45% high temp retarder, 0.2% friction reducer 10% Excess Yield=1.27 TOC >= 200' above 8.825' shoe	Rigid Bow Spring every third joint from KOP to TOC	Once at TD, circulate at max 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.	Production casing = 0.361" wall thickness Burst=12640 psi Note:Actual centralizer schedules may be changed due to hole conditions
			Speechley	3019	3065					
			Java	4570	4665					
			Pipe Creek	4665	4752					
			Angola	4752	5334					
			Rheinstreet	5334	5655					
			Cashqua	5655	5727					
			Middlesex	5727	5750					
West River			5750	5811						
Burkett			5811	5836						
8.75" - 8.5" Lateral		Tully Limestone	5836	5860	12.0ppg-12.5ppg SOBMs		Rigid Bow Spring every joint to KOP			
		Hamilton	5860	5895						
		Marcellus	5895	5950						
		TD	14889 MD	6940 TVD						
		Onondaga	5950							

LP @ 5940' TVD / 6845' MD

8.75 / 8.5 Hole - Cemented Long String
 5-1/2" 20# HCP-110 TXP BTC

+/-8014' ft Lateral

TD @ +/-5940' TVD
 +/-14859' MD

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 Office of Oil and Gas
 APR 2 9 2014
 WV Department of
 Environmental Protection

4705101762

WW-9
(9/13)

API Number 47 - _____ - _____
Operator's Well No. MND 6 DHS

**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) Fish Creek Undefined (HUC 10) Quadrangle Powhatan Point

Elevation 721' 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

-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.

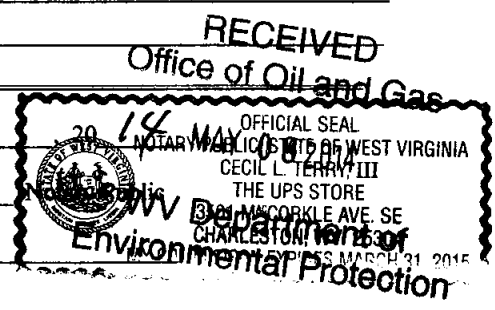
Company Official Signature Laura L. Adkins

Company Official (Typed Name) Laura Adkins

Company Official Title Regulatory Analyst

Subscribed and sworn before me this 25 day of April

My commission expires 3/31/2015



4705101762

Form WW-9

Operator's Well No. MND 6 DHS

Noble Energy, Inc.

Proposed Revegetation Treatment: Acres Disturbed 9.6 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

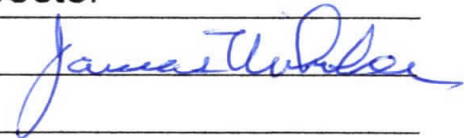
Attach:

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: _____



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Office of Oil and Gas

MAY 08 2014

Title: Oil + Gas Inspector

Date: 4/29/14

Field Reviewed? Yes No

WV Department of
Environmental Protection

4705101762



Site Safety Plan

**Noble Energy, Inc.
MND 6 DHS**

je 4/29/14

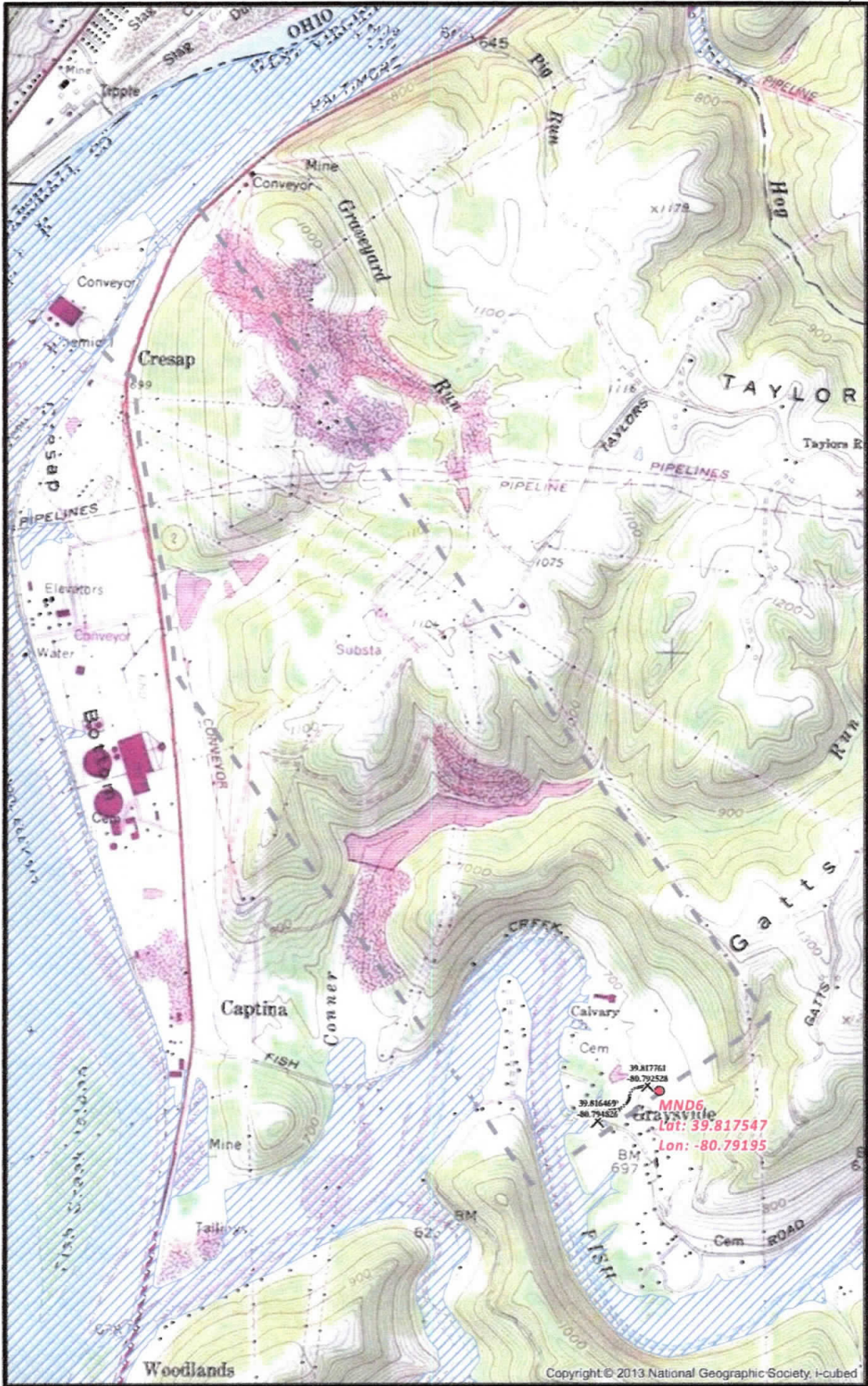
December 2013: Version 1

**For Submission to
West Virginia Department of Environmental
Protection, Office of Oil and Gas**

**Noble Energy, Inc.
Appalachia Offices
333 Technology Drive, Suite 116
Canonsburg, PA 15317-9504**

RECEIVED
Office of Oil and Gas
MAY 08 2014
WV Department of
Environmental Protection

51-01762 plat spotted



MND6 SITE SAFETY PLAN
- FLOODPLAIN ZONES -

X Access Road Intersection
 --- Proposed Access Road

● Well/Pit
 ■ Proposed Link
 ■ Floodplain

0 750 1,500 3,000 Feet

Scale 1" = 1,500'

Projection: NAD_1983_StatePlane_Virginia_North_FIPS_4701
 Units: Feet US

noble energy

Date: 12/10/2013
 Author: Christopher Glover

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

2/6

Document Path: G:\Denver\GIS-Denver\Projects\District_30\Appalachia\MXDs\EHSR\Permitting\Moundsville\MND6\D30_PA_WV_MND6_Floodplains.mxd

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 Office of Oil and Gas

APR 29 2014

WV Department of
 Environmental Protection

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION**

Date of Notice Certification: 4/28/14

API No. 47- _____
Operator's Well No. MND 6 FHS _____
Well Pad Name: MND 6

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>517820.94</u>
County:	<u>Marshall</u>		Northing:	<u>4407542.08</u>
District:	<u>Franklin</u>	Public Road Access:	<u>CR 7/4-Fish Creek Rd</u>	
Quadrangle:	<u>Powhatan Point</u>	Generally used farm name:	<u>Consol (Now owned by Murray American Energy)</u>	
Watershed:	<u>Fish Creek Undefined (HUC 10)</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

APR 28 2014

Certification of Notice is hereby given:

THEREFORE, I Laura L. Adkins, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator: Noble Energy, Inc.
By: Laura Adkins
Its: Regulatory Analyst
Telephone: 412-841-9567

Address: 333 Technology Drive Suite 116
Canonsburg, PA 15317
Facsimile: 724-820-3098
Email: ladkins@nobleenergyinc.com



Subscribed and sworn before me this 26 day of April 2014.
[Signature] Notary Public
My Commission Expires 3/31/2015

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas
2014
[Faint, illegible text]

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 4/28/14 **Date Permit Application Filed:** 4/29/14

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

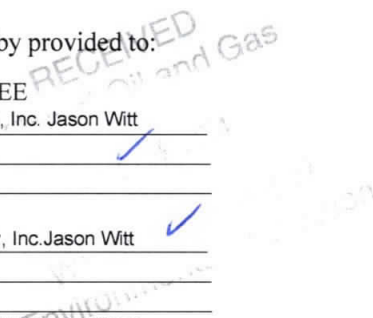
Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

- SURFACE OWNER(s)
 - Name: Consolidation Coal Company ✓
 - Address: Jason Witt 46226 National Road
 - Saint Clairsville, OH 43950
 - Name: Kevin E. and Teresa McGilton ✓
 - Address: 1704 2nd Street
 - Moundsville, WV 26041-1534
- SURFACE OWNER(s) (Road and/or Other Disturbance)
 - Name: See attached list
 - Address: _____
 - Name: _____
 - Address: _____
- SURFACE OWNER(s) (Impoundments or Pits)
 - Name: _____
 - Address: _____

- COAL OWNER OR LESSEE
 - Name: Murray American Energy, Inc. Jason Witt
 - Address: 46226 National Road ✓
 - Saint Clairsville, OH 43950
- COAL OPERATOR
 - Name: Murray American Energy, Inc. Jason Witt ✓
 - Address: 46226 National Road
 - Saint Clairsville, OH 43950
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 - Name: See attached list
 - Address: _____
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 - Name: Columbia Gas Transmission- John Shelton
 - Address: 1700 MacCorkle Ave, SE
 - Charleston, WV 25314 ✓

*Please attach additional forms if necessary



Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. MND 6 FHS
Well Pad Name: MND 6

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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Office of Oil and Gas

APR 29 2014

Department of Environmental Protection

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Office of Oil and Gas
April 11, 2014
Department of Environmental Protection

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. MND 6 FHS
Well Pad Name: MND 6 47 95 10 17 6 2

Notice is hereby given by: Laura J. Adkins
Well Operator: Noble Energy, Inc.
Telephone: 412-841-9567
Email: ladkins@nobleenergyinc.com

Address: 333 Technology Drive Suite 116
Canonsburg, PA 15317
Facsimile: 724-820-3098

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.



Subscribed and sworn before me this 26 day of April, 2014.
[Signature] Notary Public
My Commission Expires 3/31/2015

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Environmental Protection

4705101762

MND 6 HS Pad

Additional Surface Owners

Gloria Jean White
PO Box 162
Proctor, WV 26055 ✓

Noble Energy, Inc.
333 Technology Dr. Suite 110
Canonsburg, PA 15317

James B. Midcap ✓
1701 Fish Creek Rd.
Proctor, WV 26055

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Environmental Protection

WW-6A1
(5/13)

Operator's Well No. MND6DHS

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
1)	Consolidation Coal Company	CNX Gas Company, LLC	100%/Fee	646/493
	CNX Gas Company, LLC	Noble Energy, Inc.	100%/Fee	752/66
2) Q079730000	Graysville Calvary United Methodist Church	Noble Energy, Inc.	Not less than 1/8	811/646
3) Q079727000	Graysville Calvary United Methodist Church and Graysville Cemetery Association	Noble Energy, Inc.	Not less than 1/8	811/642
4)	Melvin E. Dinger and Lena Mae Dinger	TriEnergy Holdings, LLC	Not less than 1/8	712/558
	TriEnergy Holdings, LLC	NPAR, LLC	N/A	24/430

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Noble Energy, Inc.

By: _____

Its: _____

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Office of Oil and Gas

APR 29 2014

WV Department of
Environmental Protection

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
4 continued)	NPAR, LLC	Chevron U.S.A. Inc.	N/A	756/332
	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	31/59
5)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
6)	State of WV	Noble Energy, Inc.	N/A	Unrecorded Agreement, see attached
7)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
8)	State of WV	Noble Energy, Inc.	N/A	Unrecorded Agreement, see attached
9) Q077924001	Bruce Scott Schmitt and Jerri Marie Blaney	Noble Energy, Inc.	Not less than 1/8	806/335
Q077924002	Alan Gregory Schmitt and Linda Lee Schmitt	Noble Energy, Inc.	Not less than 1/8	808/315
Q077924003	Samuel O. Coen, Jr.	Noble Energy, Inc.	Not less than 1/8	813/255
Q076636004	Cynthia Jean Ward and Dale P. Ward	Noble Energy, Inc.	Not less than 1/8	816/261
Q076636006	Mark Alan Delbrugge and Patricia A. Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/512
Q076636007	Walter L. Delbrugge, Jr. and Nora L. Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/510
Q076636008	William D. Martin and Andrea R. Martin	Noble Energy, Inc.	Not less than 1/8	819/298
Q076636009	Kimberly Ann DeCrease and Vincent J. DeCrease	Noble Energy, Inc.	Not less than 1/8	825/349
Q076636010	Suzanne Q. Pavlic	Noble Energy, Inc.	Not less than 1/8	825/262
Q076636011	Margaret Lynn Watson and James W. Watson	Noble Energy, Inc.	Not less than 1/8	825/264
No Lease number assigned at this time	Beatrice Schmitt	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q076636012	Jane Lou Williams and Laurence P. Williams	Noble Energy, Inc.	Not less than 1/8	825/289
	Consolidated Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
10)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
11) Q074011007	Susan Witten Neal Meyers AKA Susan Neal Ilfeld Meyeres, individually, and as Susan N. Meyers, Trustee of the Susan N. Meyers Revocable Trust	Noble Energy, Inc.	Not less than 1/8	789/538
Q074011001	Mary Witten Neal Wiseman FKA Mary Witten Neal	Noble Energy, Inc.	Not less than 1/8	789/564
Q074011009	Mary Witten Hart Ehlers	Noble Energy, Inc.	Not less than 1/8	789/552
Q074011004	Margery J. Witten	Noble Energy, Inc.	Not less than 1/8	789/543
Q074011003	Joseph Moore Neal	Noble Energy, Inc.	Not less than 1/8	789/545
Q074011008	Jane Witten Voth	Noble Energy, Inc.	Not less than 1/8	789/559
Q074011006	Frances Gale Neal	Noble Energy, Inc.	Not less than 1/8	789/536
Q074011002	Dorothy Ann Neal by her POA Jerry L. Berthold	Noble Energy, Inc.	Not less than 1/8	789/547
Q074011011	Donald R. Hart Jr.	Noble Energy, Inc.	Not less than 1/8	789/554
Q074011010	Cathy Hart Price	Noble Energy, Inc.	Not less than 1/8	789/534
Q074011005	Ann Alexander	Noble Energy, Inc.	Not less than 1/8	789/541
#239882-001	Jane R. Peterseim AKA Jane Peterseim	CNX Gas Company, LLC	Not less than 1/8	781/37
	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
12)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
13)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
14) Q076636001	George A. Knuth and Kelly A. Knuth	Noble Energy, Inc.	Not less than 1/8	803/608

47 05 10 17 62

Q076636002	Bruce Scott Schmitt and Jerri Marie Blaney	Noble Energy, Inc.	Not less than 1/8	806/335
Q076636003	Alan Gregory Schmitt and Linda Lee Schmitt	Noble Energy, Inc.	Not less than 1/8	808/315
Q076636004	Cynthia Jean Ward and Dale P. Ward	Noble Energy, Inc.	Not less than 1/8	816/261
Q076636005	Samuel O. Coen, Jr.	Noble Energy, Inc.	Not less than 1/8	813/255
Q076636006	Mark Alan Delbrugge and Patricia A. Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/512
Q076636007	Walter L. Delbrugge, Jr. and Nora L. Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/510
Q076636008	William D. Martin and Andrea R. Martin	Noble Energy, Inc.	Not less than 1/8	819/298
Q076636009	Kimberly Ann DeCrease and Vincent J. DeCrease	Noble Energy, Inc.	Not less than 1/8	825/349
Q076636010	Suzanne Q. Pavlic	Noble Energy, Inc.	Not less than 1/8	825/262
Q076636011	Jane Lou Williams and Laurence P. Williams	Noble Energy, Inc.	Not less than 1/8	825/289
Q076636012	Margaret Lynn Watson and James W. Watson	Noble Energy, Inc.	Not less than 1/8	825/264
No Lease number assigned at this time	Beatrice J. Schmitt	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached.

Oil and Gas

APR 30 2014

Noble Energy, Inc.

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 4/28/14 **Date Permit Application Filed:** 4/29/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Consolidation Coal Company Jason Witt

Name: Kevin E. and Teresa McGilton

Address: 46226 National Road
Saint Clairsville, OH 43950

Address: 1704 2nd Street
Moundsville, WV 26041-1534

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>517820.94</u>
County:	<u>Marshall</u>		Northing:	<u>4407542.08</u>
District:	<u>Franklin</u>	Public Road Access:	<u>CR 7/4-Fish Creek Rd</u>	
Quadrangle:	<u>Powhatan Point</u>	Generally used farm name:	<u>Consol (Now owned by Murray American Energy)</u>	
Watershed:	<u>Fish Creek Undefined (HUC 10)</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Noble Energy, Inc.
Telephone: 412-841-9567
Email: ladkins@nobleenergyinc.com

Address: 333 Technology Drive Suite 116
Canonsburg, PA 15317
Facsimile: 724-820-3098

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas
APR 29 2014
WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

December 6, 2013

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the MND-6 Well Site, Marshall County

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2013-0529 for the subject site to Noble Energy, Inc. for access to the State Road for the well site located off of Marshall County Route 74 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

NOV 28 2013

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: James L. McCune
Noble Energy, Inc.
CH, OM, D-6
File

Hydraulic Fracturing Fluid Product Component Information Disclosure

Hydraulic Fracturing Fluid Composition:

4705101762

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**
Fresh Water	Operator				100.00%
HYDROCHLORIC ACID 5-10%	Halliburton		Hydrochloric acid	7647-01-0	10.00%
SAND - COMMON WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00%
Scalechek® LP-65 Scale Inhibitor	Halliburton	Scale Inhibitor	Ammonium chloride	12125-02-9	10.00%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60.00%
			Naphtha, hydrotreated heavy	64742-48-9	60.00%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100.00%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60.00%
			Propargyl alcohol	107-19-7	10.00%
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Acetic acid	64-19-7	60.00%
			Acetic anhydride	108-24-7	100.00%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1.00%
			Ethanol	64-17-5	60.00%
			Heavy aromatic petroleum naphtha	64742-94-5	30.00%
			Naphthalene	91-20-3	5.00%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100.00%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00%

* 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.

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and

Operator
 OIP
 APR 11 2011
 E.P. Inc.
 Houston

4705101762

API#5101732

EROSION & SEDIMENT CONTROL PLAN

FOR

MND 6 WELL PAD

FRANKLIN DISTRICT, MARSHALL COUNTY, WV

APPROVED
WVDEP OOG
SAV 4/2/2014

GENERAL NOTES

1. THE EROSION CONTROL SUBJECT UNITS FOR THIS BASE MAPPING WAS PERFORMED BY RETTEW ASSOCIATES, INC. IN SEPTEMBER 2013.
2. PROPERTY BOUNDARIES, LANDOWNER INFORMATION AND ROAD NETWORKS SHOWN ON THIS PLAN ARE BASED ON AVAILABLE COUNTY OR PARCEL DATA.
3. CENTER EARTH PHOTOGRAPHS DATA AND PHOTOGRAPHS HAVE BEEN LOCATED PER AVAILABLE DATA.
4. THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83), NORTH ZONE.
5. THE VERTICAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM (NAVD).
6. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION PRIOR TO ANY EXCAVATION BY NOTIFYING THE UTILITY OF WEST VIRGINIA AT 1-800-245-4848.
7. A METEOROLOGICAL/PRECIPITATION SURVEY WAS PERFORMED BY RETTEW ASSOCIATES, INC. IN MAY 2013.
8. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR PRELIMINARY AND INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION PRIOR TO ANY EXCAVATION BY NOTIFYING THE UTILITY OF WEST VIRGINIA AT 1-800-245-4848.
9. ALL EXCAVATION AND FILLING SHALL BE ACCORDING TO THE BEST AVAILABLE INFORMATION.
10. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES AND WILL BE RESPONSIBLE FOR THE PROTECTION OF THESE UTILITIES AND STRUCTURES.
11. THE CONTRACTOR SHALL NOT TAKE ANY NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE TO THE EXISTING UTILITIES AND STRUCTURES SHALL BE REPAIRED IMMEDIATELY AND COMPLETELY AT THE CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT OR DAMAGED OR DESTROYED LANDSCAPE AND LAWNS.
13. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION.
14. CONTRACTOR TO RELOCATE UTILITIES AS REQUIRED.
15. CONTRACTOR MAY WALK ACCESS ROAD DUE TO STEEP SLOPES IF REQUIRED NECESSARY AND PER APPROVAL BY THE OWNER AND ENGINEER.
16. PROPOSED FLOOD CONSTRUCTION DIMENSIONS SHALL BE BASED SUCH THAT RUNOFF FROM PROPOSED CONSTRUCTION SHALL BE LIMITED TO THE EXISTING FLOOD CONSTRUCTION DIMENSIONS.
17. SEED AND MULCH ALL DISTURBED AREAS PER DETAILS IN THIS PLAN.
18. ALL CLEARED TREE DIMENSIONS SHALL BE PLACED ON UPHELD SIDE OF CONJOINT FILLER SOCKS AND NOT STOCKPILED ON-SITE.
19. CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT RETTEW, ENGINEER, AND LANDSCAPE ARCHITECT IMMEDIATELY AND PERSONALLY ADVISE THE ENGINEER AND LANDSCAPE ARCHITECT IF ANY PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION.
20. NO WORK SHALL BE DONE OUTSIDE THE LIMITS OF DISTURBANCE OR IN PROTECTED AREAS.

DIRECTIONS TO THE SITE

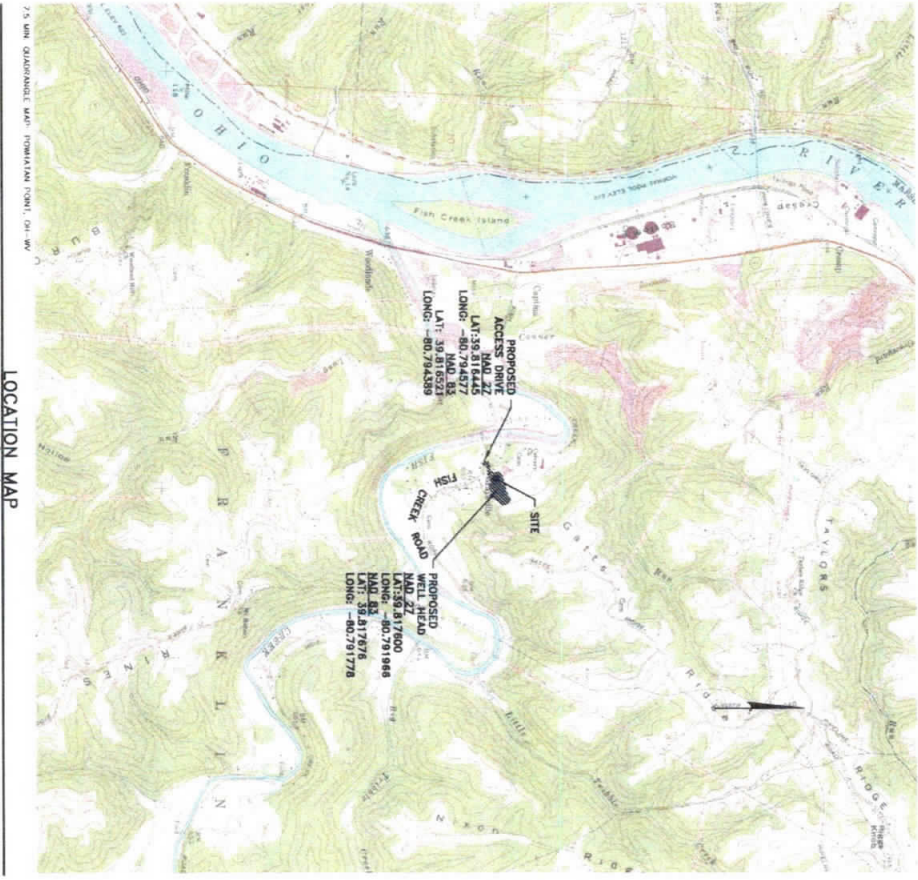
FROM WHEELING BY TAKE ON 7 SOUTH TAKE ROAD
 MAKE RIGHT TURN ON WV-2 TURN LEFT ON FISH
 CREEK SITE WILL BE ON LEFT IN 1.7 MILES.

CUT & FILL

MATERIAL	ACCESS	THROW	THROW
CUT	25,220 C.Y.	5,200 C.Y.	48,250 C.Y.
FILL	1,100 C.Y.	15,400 C.Y.	16,500 C.Y.
FILL OPERATIONAL	1,100 C.Y.	15,400 C.Y.	16,500 C.Y.
OPERATIONAL	1,100 C.Y.	15,400 C.Y.	16,500 C.Y.
NET	+12,080 C.Y.	0 C.Y.	0 C.Y.

NOTES:

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
2. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION PRIOR TO ANY EXCAVATION BY NOTIFYING THE UTILITY OF WEST VIRGINIA AT 1-800-245-4848.



Electronic Version of These Plans May Be Viewed at: QIVOL.GASISAY.FILES/REVIEWS



CALL BEFORE YOU DIG! Dial 811 or 800.245.4848

SOILS CLASSIFICATION

BD: BROOKSIDE Silt Loam (8% to 10% SILT)

BE: BROOKSIDE Silt Loam (15% to 20% SILT)

CE: CLAYTON Silt Loam (3% to 8% SILT)

DE: CLAYTON Silt Loam (8% to 10% SILT)

LIST OF DRAWINGS

- | | |
|----------|---------------------------------|
| 1 OF 10 | COVER SHEET |
| 2 OF 10 | RESPONSES BUFFER PLAN |
| 3 OF 10 | GENERAL NOTES |
| 4 OF 10 | EROSION & SEDIMENT CONTROL PLAN |
| 5 OF 10 | PROPOSED WELL PAD |
| 6 OF 10 | GROSS SECTIONS PLAN (S&W) |
| 7 OF 10 | WELL PAD RECONSTRUCTION PLAN |
| 8 OF 10 | NOTES & DETAILS |
| 9 OF 10 | DETAILS |
| 10 OF 10 | DETAILS |

DISTURBANCE SUMMARY

TOTAL AREA OF DISTURBANCE: 4.8 ACRES
 TOTAL AREA OF FILL: 1.1 ACRES
 TOTAL AREA OF CUT: 25.2 ACRES
 NET DISTURBANCE: 4.8 ACRES

COVER SHEET FOR MND 6 WELL PAD	FRANKLIN DISTRICT MARSHALL COUNTY, WV	RETTEW Associates, Inc. 700 Teel, New York, 4955 Shenandohe Pk., Ste 305, Pittsburgh, PA 15205 Phone (412) 446-1726 • Fax (412) 446-1733 Email: rettew@rettew.com Website: www.rettew.com	CLIENT NOBLE ENERGY 333 TECHNOLOGY DRIVE, SUITE 116 CANONSBURG, PA 15317-3077 BEN DERUEME, PE (724) 820-3000 	MANAGER: MICHAEL R. OGDEN DESIGN BY: ASN DRAWN BY: ASN SURV. CHECK: FELDBROCK NO. DATA COLLECTOR	FOR RETTEW ASSOCIATES BY: 3-25-14 	SCALE AS SHOWN NO. DATE REVISION
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EROSION & SEDIMENT CONTROL PLAN

FOR

MND 6 WELL PAD

FRANKLIN DISTRICT, MARSHALL COUNTY, WV

4/29/14

RECEIVED
Office of Oil and Gas
MAY 08 2014
WV Department of Environmental Protection

GENERAL NOTES

1. THE OPERATIONS SHOWN ON THESE PLANS ARE SUBJECT TO THE APPROVAL OF THE MARSHALL COUNTY BOARD OF COMMISSIONERS AND THE MARSHALL COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
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DIRECTIONS TO THE SITE

FROM MARSHALL COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
1500 MARSHALL COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARSHALL COUNTY, WV 24751

CUT & FILL

ITEM	AMOUNT	UNIT
CUT	1,170.00	CY
FILL	1,170.00	CY
TOTAL	2,340.00	CY

NOTES:
1. THE ASSUMED EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN EROSION CONTROL MEASURES TO BE INSTALLED TO THE SATISFACTION OF THE MARSHALL COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION.



Electronic Version of These Plans May Be Viewed at: QI/OIL_GAS/SAY_FILES/REVIEWS



CALL BEFORE YOU DIG! 800.245.4848

SOILS CLASSIFICATION

THE SOILS CLASSIFICATION IS BASED ON THE RESULTS OF THE SOILS TESTS CONDUCTED AT THE SITE. THE SOILS ARE CLASSIFIED AS FINE SANDS AND SILTY SANDS.

LIST OF DRAWINGS

NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	EROSION & SEDIMENT CONTROL PLAN
4	PROPOSED ACCESS ROAD #22
5	PROPOSED MAIN EX. WELL PAD
6	PROPOSED 15' DIAMETER WATER TOWER
7	PROPOSED 15' DIAMETER WATER TOWER
8	PROPOSED 15' DIAMETER WATER TOWER
9	PROPOSED 15' DIAMETER WATER TOWER
10	PROPOSED 15' DIAMETER WATER TOWER

DISTURBANCE SUMMARY

TOTAL DISTURBANCE: 2,340.00 SQ. YD.

<p>COVER SHEET FOR MND 6 WELL PAD</p>	<p>RETTEW RETTEW Associates, Inc. 1000 South 4500 Shadowlark Pl. Ste 300, Pittsburgh, PA 15205 Phone: (412) 446-7228 Fax: (412) 446-7152 Email: rettew@rettew.com Website: www.rettew.com</p>	<p>CLIENT noble energy 333 TECHNOLOGY DRIVE, SUITE 116 CANONSBURG, PA 15317-3077 BEN DERELUME, PE (724) 820-3000</p>	<p>MANAGER: MICHAEL R. OGDEN DESIGN BY: ASJ DRAWN BY: ASJ SURVY CHIEF: FREDERICK MC KEA DILLON</p>	<p>DATE: 3/5/2014 SHEET NO: 1 OF 10 DWG. NO: 2013R-42010</p>
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