



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

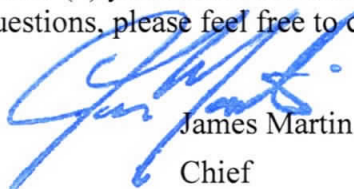
Horizontal 6A Well

This permit, API Well Number: 47-5101763, 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 FHS
Farm Name: CONSOLIDATION COAL COMPA
API Well Number: 47-5101763
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 FHS
 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

4705101763

API Number: _____

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.

4705101763



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

Ground Elevation		722'		MND-6D SHL (Lat/Long)			(482519.74N, 1637129.1E) (NAD27)			
Azm		325°		MND-6D LP (Lat/Long)			(482719.73N, 1636367.64E) (NAD27)			
WELLBORE DIAGRAM		325°		MND-6D BHL (Lat/Long)			(491263.42N, 1630385.28E) (NAD27)			
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, 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	694	694						
12 3/8	9-5/8" 36# 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						
		Int. Casing	2017	2017						
8.75" Vertical		Speechley	3019	3065	8.0ppg - 9.0ppg SOBM	14.8ppg Class A 25.75:0 System	Rigid Bow Spring every third joint from KOP to TOC			
		Java	4570	4685						
		Pipe Creek	4665	4752						
		Angola	4752	5334						
8.75" Curve	5-1/2" 23# HCP-110 TXP BTC	Rheinstreet	5334	5655	12.0ppg-12.5ppg SOBM	+2.6% Cement extender, 0.7% Fluid Loss additive, 0.45% high temp retarder, 0.2% friction reducer	Rigid Bow Spring every joint to KOP	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	
		Cashaqua	5655	5727						
		Middlesex	5727	5750						
		West River	5750	5811						
		Burkett	5811	5836						
		Tully Limestone	5836	5860						
Hamilton	5860	5895								
8.75" - 8.5" Lateral		Marcellus	5895	5950	12.0ppg-12.5ppg SOBM	10% Excess Yield=1.27 TOC >= 200' above 9.625" shoe				
		TD	16882 MD	6940 TVD						
		Onondaga	5950							

LP @ 5940' TVD / 6452' MD

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

+/-10431' R Lateral

TD @ +/-5940' TVD +/-16882' MD

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Office of Oil & Gas

APR 29 2014

WV Department of Environmental Protection

Form WW-9

Operator's Well No. MND 6 FHS

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.

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Office of Oil and Gas

Plan Approved by: Jim Nicholson WVOOG State Inspector

Comments: _____

MAY 08 2014
James Nicholson
WV Department of
Environmental Protection

Title: Oil + Gas Inspector Date: 4/29/14

Field Reviewed? () Yes () No

WW-9
(9/13)

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

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

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Office of Oil and Gas

MAY 08 2014

WV Department of
Environmental Protection

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.

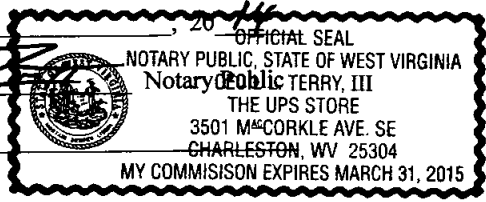
Company Official Signature Laura L. Adkins

Company Official (Typed Name) Laura Adkins

Company Official Title Regulatory Analyst

Subscribed and sworn before me this 26 day of April

My commission expires 3/31/2015





Site Safety Plan

Noble Energy, Inc.

MND 6 Well Pad

MND 6 FHS

Marshall County, WV

APRIL 2014: Version 1

Mc 4/29/14 RECEIVED
Office of Oil and Gas

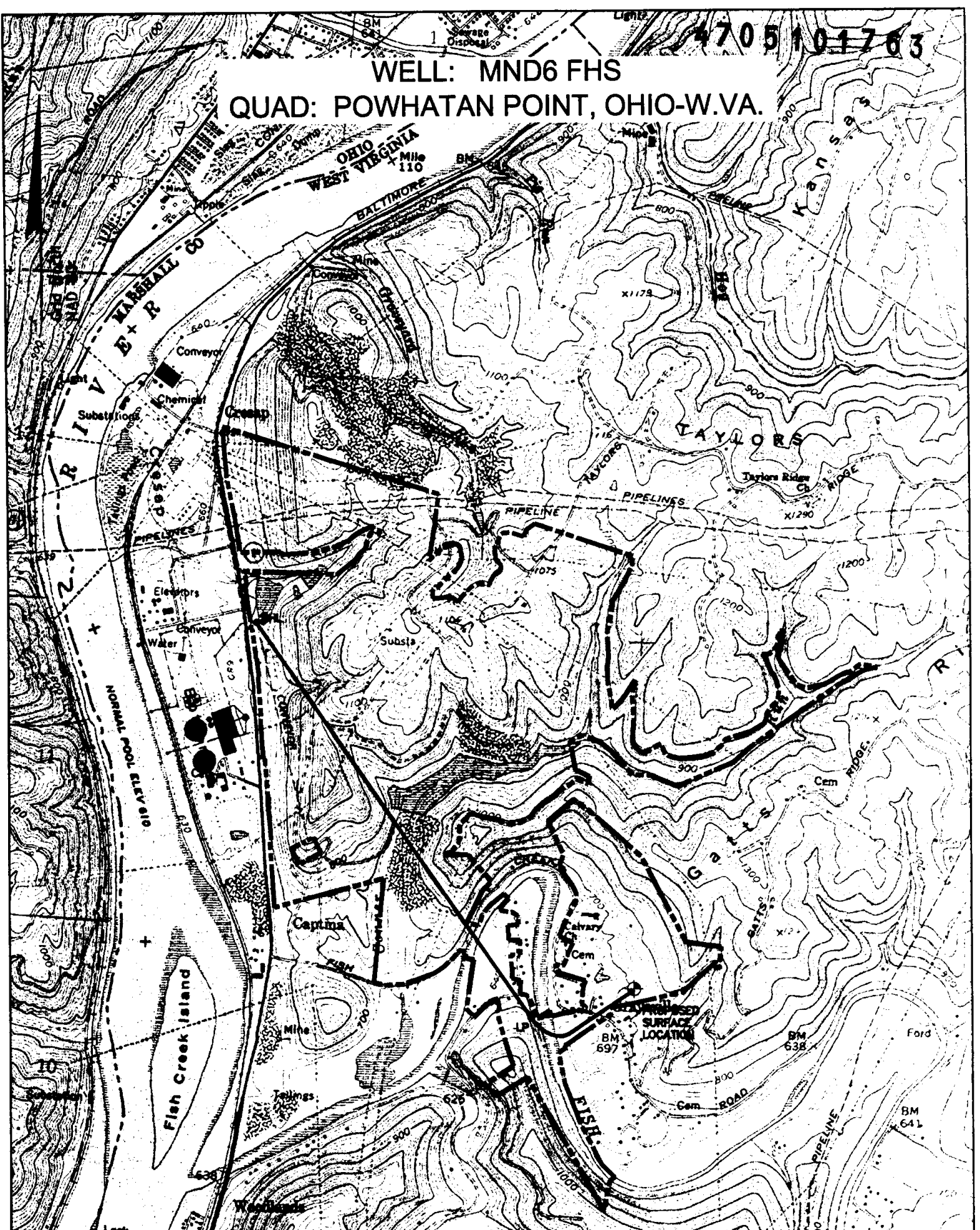
For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

MAY 08 2014
WV Department of
Environmental Protection

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

WELL: MND6 FHS
 QUAD: POWHATAN POINT, OHIO-W.VA.

4705101763



GENERAL NOTE:
 THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

LEGEND

- PROPOSED GAS WELL
- PROPOSED BOTTOM HOLE
- PROPOSED BORE
- EXTERNAL LEASE LINE

SURFACE LOCATION (SHL)	LANDING POINT (LP)	BOTTOM HOLE LOCATION (BHL)
(NAD 83) N) 482,547.9' E) 1,605,662.8' LAT.) 39°49'03.6" LONG.) 80°47'30.4" DEC. LAT.) 39.817676° DEC. LONG.) 80.791778°	(NAD 83) N) 482,079.5' E) 1,603,937.9' LAT.) 39°48'58.8" LONG.) 80°47'52.4" DEC. LAT.) 39.816322° DEC. LONG.) 80.797894°	(NAD 83) N) 488,618.8' E) 1,599,359.0' LAT.) 39°50'02.7" LONG.) 80°48'52.3" DEC. LAT.) 39.834090° DEC. LONG.) 80.814534°
(NAD 27) N) 482,511.8' E) 1,637,100.2' LAT.) 39°49'03.4" LONG.) 80°47'31.1" DEC. LAT.) 39.817600° DEC. LONG.) 80.791966°	(NAD 27) N) 482,043.36' E) 1,635,375.3' LAT.) 39°48'58.5" LONG.) 80°47'53.1" DEC. LAT.) 39.816282° DEC. LONG.) 80.798082°	(NAD 27) N) 488,582.8' E) 1,630,796.4' LAT.) 39°50'02.5" LONG.) 80°48'53.0" DEC. LAT.) 39.834014° DEC. LONG.) 80.814721°
(UTM NAD 83) N) 4,407,542.08m E) 517,820.94m	(UTM NAD 83) N) 4,407,390.57m E) 517,297.83m	(UTM NAD 83) N) 4,409,359.50m E) 515,869.57m

RECEIVED
 Office of Oil and Gas
 MAY 08 2014

Applicant / Well Operator Name
NOBLE ENERGY, INC.

Address
333 TECHNOLOGY DRIVE, SUITE 118, CANONSBURG, PA 15317

Surface Landowner / Lessor
CONSOLIDATION COAL COMPANY

Well(Farm) Name
MND6

County - Code
MARSHALL - 051

District
FRANKLIN

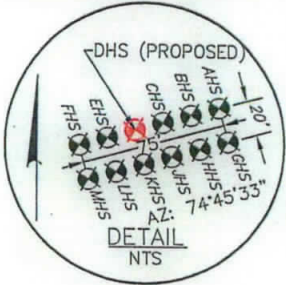
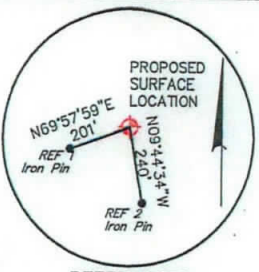
USGS 7 1/2 Quadrangle Map Name
POWHATAN POINT, OHIO-W.VA

Well #
FHS

Serial #

WV Department of Environmental Protection

Scale:
1" = 2,000'

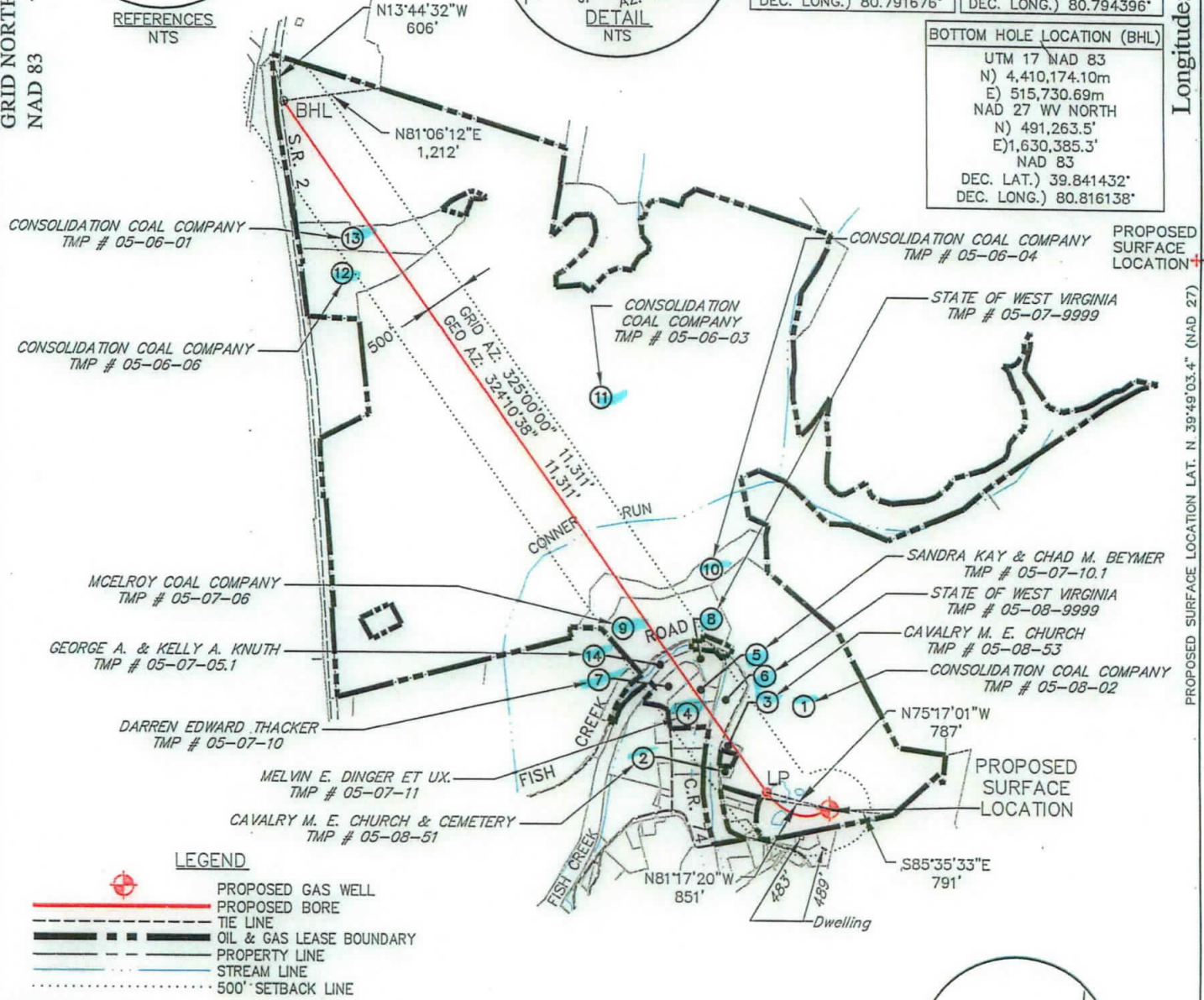


SURFACE LOCATION	
UTM 17 N N) 4,407,544.53m E) 517,829.72m NAD 27 WV NORTH N) 482,519.7' E) 1,637,129.1' NAD 83 DEC. LAT.) 39.817699° DEC. LONG.) 80.791676°	UTM 17 N N) 4,407,611.69m E) 517,596.72m NAD 27 WV NORTH N) 482,719.7' E) 1,636,367.7' NAD 83 DEC. LAT.) 39.818218° DEC. LONG.) 80.794396°

BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83 N) 4,410,174.10m E) 515,730.69m NAD 27 WV NORTH N) 491,263.5' E) 1,630,385.3' NAD 83 DEC. LAT.) 39.841432° DEC. LONG.) 80.816138°	

GRID NORTH
NAD 83

REFERENCES
NTS

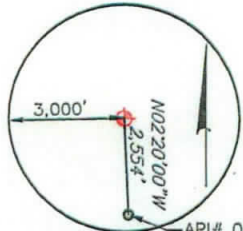


LEGEND

- PROPOSED GAS WELL
- PROPOSED BORE
- TIE LINE
- OIL & GAS LEASE BOUNDARY
- PROPERTY LINE
- STREAM LINE
- 500' SETBACK LINE

GENERAL NOTES:

1. THE LOCATION OF BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS, UNLESS OTHERWISE NOTED.
2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.
3. THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF PROPOSED WELL.
4. PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR OR LAKE.
5. THERE ARE NO NATIVE TROUT STREAMS WITHIN 300' OF PROPOSED WELL.
6. THERE ARE TWO DWELLINGS LOCATED WITHIN 650' OF PROPOSED WELLBORE.
7. THE SURROUNDING LANDS ARE BEING SERVED BY PUBLIC WATER BY THE GRAND VIEW DOOLIN WATER SYSTEM PROVIDED BY MARSHALL COUNTY PUBLIC HEALTH AND SANITATION DIVISION.

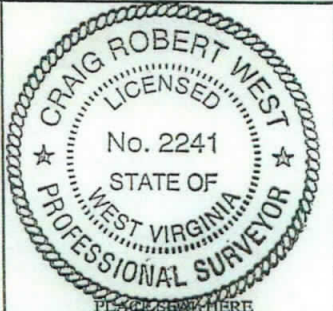


EXISTING GAS WELL LOCATION
NTS

FILE #: 093842010
DRAWING #: 093842010_SV-Plat
SCALE: PLAT & TICK: 1" = 2,000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: NGS (CORS)

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Craig R. West
R.P.E.: _____ L.L.S.: 2241



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



DATE: FEBRUARY 24, 2014
OPERATOR'S WELL #: MND 6 DHS
API WELL #: 47 051 01763 464
STATE COUNTY PERMIT

WELL TYPE: OIL GAS WASTE DISPOSAL LIQUID INJECTION PRODUCTION STORAGE DEEP SHALLOW

WATERSHED: FISH CREEK ELEVATION: 722'

COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, OHIO-W.VA

SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 136.587±

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY LLC and NOBLE ENERGY, INC. ACREAGE: _____

CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PERFORATE NEW FORMATION PLUG & ABANDON

DRILL PLUG OFF OLD FORMATION CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 5,940 ft. TMD: 16,882 ft.

WELL OPERATOR: NOBLE ENERGY, INC. DESIGNATED AGENT: STEVE 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

4705101763

WW-6A1
(3/13)

Operator's Well No. MND6FHS

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	648/493	
		CNX Gas Company, LLC	Noble Energy, Inc.	100%/Fee	752/66
2) Q079184000	Gloria Jean White and Milton Christopher White	Noble Energy, Inc.	Not less than 1/8	808/392	
3) Q076644000	James B. Midcap and Diana K. Midcap	Noble Energy, Inc.	Not less than 1/8	803/336	
4) Q078626020	Trudy B. Sampson and Danny Sampson	Noble Energy, Inc.	Not less than 1/8	825/260	
Q078626015	Deborah D. Mercer and Calvin P. Mercer	Noble Energy, Inc.	Not less than 1/8	821/22	

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

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Office of Oil and Gas

APR 29 2014

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 permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

WV Department of Environmental Protection

Well Operator: Noble Energy, Inc.
 By: [Signature]
 Its: Senior Land Negotiator

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
4 continued) Q078626016	Brian Edwin Lemasters and Beverly J. Lemasters	Noble Energy, Inc.	Not less than 1/8	821/24
Q078626022	Timothy Scott Lemasters and Amy C. Lemasters	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626021	Mary L. Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Patricia Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Betty Jane Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626019	Frances O. Hall, a/k/a Ornetta Parriott	Noble Energy, Inc.	Not less than 1/8	825/258
Q078626017	Southeastern Guide Dogs Inc., Titus Herman CEO Guide Dogs	Noble Energy, Inc.	Not less than 1/8	820/516
Q078626024	Shriners Hospitals For Children	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626025	Courtney D. Hall	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626001	Lucille E. Wingrove	Noble Energy, Inc.	Not less than 1/8	810/80
Q078626012	Justin Smith A/K/A Justine Smith	Noble Energy, Inc.	Not less than 1/8	819/307
Q078626013	Robert Lee Smith and Betty K. Smith	Noble Energy, Inc.	Not less than 1/8	819/308
Q078626010	Marilyn Ulbrich Chalmers and Rod N. Chalmers	Noble Energy, Inc.	Not less than 1/8	820/506
Q078626009	H. Jay Ulbrich	Noble Energy, Inc.	Not less than 1/8	819/309
Q078626023	Bryce E. Ulbrich and Edna M. Ulbrich	Noble Energy, Inc.	Not less than 1/8	825/258
Q078626011	Biye Ulbrich Jenschke and Jim Jenschke	Noble Energy, Inc.	Not less than 1/8	819/305
No Lease number assigned at this time	Blasé Joseph Ulcak, Jr.	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Martha Frances Ulcak	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626005	Janice R. Crook a/k/a Janice Wingrove Crook and Donald P. Crook	Noble Energy, Inc.	Not less than 1/8	808/305
Q078626003	Jane Morris	Noble Energy, Inc.	Not less than 1/8	805/301
Q078626004	Nancy L. Snyder a/k/a Nancy Wingrove Snyder	Noble Energy, Inc.	Not less than 1/8	808/309
Q078626002	Kenneth R. Morris and Dawn L. Morris	Noble Energy, Inc.	Not less than 1/8	808/303
Q078626014	Harry Leroy Parriott and Nancy S. Parriott	Noble Energy, Inc.	Not less than 1/8	820/508
Q078626018	Kimberly D. Lake	Noble Energy, Inc.	Not less than 1/8	825/272
No Lease number assigned at this time	James S. Mccap and Diana K. Midcap	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
5) Q078626020	Trudy B. Sampson and Danny Sampson	Noble Energy, Inc.	Not less than 1/8	825/263
Q078626015	Deborah D. Mercer and Calvin R. Mercer	Noble Energy, Inc.	Not less than 1/8	821/22
Q078626016	Brian Edwin Lemasters and Beverly J. Lemasters	Noble Energy, Inc.	Not less than 1/8	821/24
Q078626022	Timothy Scott Lemasters and Amy C. Lemasters	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626021	Mary L. Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Patricia Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Betty Jane Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626019	Frances O. Hall, a/k/a Ornetta Parriott	Noble Energy, Inc.	Not less than 1/8	825/258
Q078626017	Southeastern Guide Dogs Inc., Titus Herman CEO Guide Dogs	Noble Energy, Inc.	Not less than 1/8	820/516
Q078626024	Shriners Hospitals For Children	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached

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Q078626025	Courtney D. Hall	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626001	Lucille E. Wingrove	Noble Energy, Inc.	Not less than 1/8	810/80
Q078626012	Justin Smith A/K/A Justine Smith	Noble Energy, Inc.	Not less than 1/8	819/307
Q078626013	Robert Lee Smith and Betsy K. Smith	Noble Energy, Inc.	Not less than 1/8	819/303
Q078626010	Marilyn Ulbrich Chalmers and Rod N. Chalmers	Noble Energy, Inc.	Not less than 1/8	820/506
Q078626009	H. Jay Ulbrich	Noble Energy, Inc.	Not less than 1/8	819/309
Q078626023	Bryce E. Ulbrich and Edna M. Ulbrich	Noble Energy, Inc.	Not less than 1/8	825/298
Q078626011	Blye Ulbrich Jenschke and Jim Jenschke	Noble Energy, Inc.	Not less than 1/8	819/305
No Lease number assigned at this time	Blasé Joseph Ulcak, Jr.	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Martha Frances Ulcak	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626005	Janice R. Crook a/k/a Janice Wingrove Crook and Donald P. Crook	Noble Energy, Inc.	Not less than 1/8	808/305
Q078626003	June Morris	Noble Energy, Inc.	Not less than 1/8	808/301
Q078626004	Nancy L. Snyder a/k/a Nancy Wingrove Snyder	Noble Energy, Inc.	Not less than 1/8	808/309
Q078626002	Kenneth R. Morris and Dawn E. Morris	Noble Energy, Inc.	Not less than 1/8	808/303
Q078626014	Harry Leroy Parriott and Nancy S. Parriott	Noble Energy, Inc.	Not less than 1/8	820/508
Q078626018	Kimberly D. Lake	Noble Energy, Inc.	Not less than 1/8	825/272
No Lease number assigned at this time	James B. Midcap and Diana K. Midcap	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
6) Q078626020	Trudy B. Sampson and Danny Sampson	Noble Energy, Inc.	Not less than 1/8	825/260
Q078626015	Deborah D. Mercer and Calvin P. Mercer	Noble Energy, Inc.	Not less than 1/8	821/22
Q078626016	Brian Edwin Lemasters and Beverly J. Lemasters	Noble Energy, Inc.	Not less than 1/8	821/24
Q078626022	Timothy Scott Lemasters and Amy C. Lemasters	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626021	Mary L. Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Patricia Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Betty Jane Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626019	Frances O. Hall, a/k/a Ornetta Parriott	Noble Energy, Inc.	Not less than 1/8	825/258
Q078626017	Southeastern Guide Dogs Inc., Titus Herman CEO Guide Dogs	Noble Energy, Inc.	Not less than 1/8	820/516
Q078626024	Shriners Hospitals For Children	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626025	Courtney D. Hall	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626001	Lucille E. Wingrove	Noble Energy, Inc.	Not less than 1/8	810/80
Q078626012	Justin Smith A/K/A Justine Smith	Noble Energy, Inc.	Not less than 1/8	819/307
Q078626013	Robert Lee Smith and Betsy K. Smith	Noble Energy, Inc.	Not less than 1/8	819/303
Q078626010	Marilyn Ulbrich Chalmers and Rod N. Chalmers	Noble Energy, Inc.	Not less than 1/8	820/506
Q078626009	H. Jay Ulbrich	Noble Energy, Inc.	Not less than 1/8	819/309
Q078626023	Bryce E. Ulbrich and Edna M. Ulbrich	Noble Energy, Inc.	Not less than 1/8	825/298
Q078626011	Blye Ulbrich Jenschke and Jim Jenschke	Noble Energy, Inc.	Not less than 1/8	819/305
No Lease number assigned at this time	Blasé Joseph Ulcak, Jr.	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Martha Frances Ulcak	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached

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Q078626005	Janice R. Crook a/k/a Janice Wingrove Crook and Donald P. Crook	Noble Energy, Inc.	Not less than 1/8	808/305
Q078626003	June Morris	Noble Energy, Inc.	Not less than 1/8	808/301
Q078626004	Nancy L. Snyder a/k/a Nancy Wingrove Snyder	Noble Energy, Inc.	Not less than 1/8	808/309
Q078626002	Kenneth R. Morris and Dawn E. Morris	Noble Energy, Inc.	Not less than 1/8	808/303
Q078626014	Harry Leroy Parriott and Nancy S. Parriott	Noble Energy, Inc.	Not less than 1/8	820/508
Q078626018	Kimberly D. Lake	Noble Energy, Inc.	Not less than 1/8	825/272
7) Q078626020	Trudy B. Sampson and Danny Sampson	Noble Energy, Inc.	Not less than 1/8	825/260
Q078626015	Deborah D. Mercer and Calvin P. Mercer	Noble Energy, Inc.	Not less than 1/8	821/22
Q078626016	Brian Edwin Lemasters and Beverly J. Lemasters	Noble Energy, Inc.	Not less than 1/8	821/24
Q078626022	Timothy Scott Lemasters and Amy C. Lemasters	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626021	Mary L. Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Patricia Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Betty Jane Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Frances O. Hall, a/k/a Ornetta Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Southeastern Guide Dogs Inc., Titus Herman CEO Guide Dogs	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626024	Shriners Hospitals For Children	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626025	Courtney D. Hall	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Lucille E. Wingrove	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626012	Justin Smith A/K/A Justine Smith	Noble Energy, Inc.	Not less than 1/8	819/307
Q078626013	Robert Lee Smith and Betsy K. Smith	Noble Energy, Inc.	Not less than 1/8	819/303
Q078626010	Marilyn Ulbrich Chalmers and Rod N. Chalmers	Noble Energy, Inc.	Not less than 1/8	820/506
Q078626009	H. Jay Ulbrich	Noble Energy, Inc.	Not less than 1/8	819/309
Q078626023	Bryce E. Ulbrich and Edna M. Ulbrich	Noble Energy, Inc.	Not less than 1/8	825/298
Q078626011	Blye Ulbrich Jenschke and Jim Jenschke	Noble Energy, Inc.	Not less than 1/8	819/305
No Lease number assigned at this time	Blasé Joseph Ulcak, Jr.	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Martha Frances Ulcak	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Janice R. Crook a/k/a Janice Wingrove Crook and Donald P. Crook	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q076469000	June Morris	Noble Energy, Inc.	Not less than 1/8	802/275
No Lease number assigned at this time	Nancy L. Snyder a/k/a Nancy Wingrove Snyder	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Kenneth R. Morris and Dawn E. Morris	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626014	Harry Leroy Parriott and Nancy S. Parriott	Noble Energy, Inc.	Not less than 1/8	820/508
Q078626018	Kimberly D. Lake	Noble Energy, Inc.	Not less than 1/8	825/272
8) Q078626020	Trudy B. Sampson and Danny Sampson	Noble Energy, Inc.	Not less than 1/8	825/260
Q078626015	Deborah D. Mercer and Calvin P. Mercer	Noble Energy, Inc.	Not less than 1/8	821/22
Q078626016	Brian Edwin Lemasters and Beverly J. Lemasters	Noble Energy, Inc.	Not less than 1/8	821/24

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Q078626022	Timothy Scott Lemasters and Amy C. Lemasters	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626021	Mary L. Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Patricia Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Betty Jane Parriott	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626019	Frances O. Hall, a/k/a Ornetta Parriott	Noble Energy, Inc.	Not less than 1/8	825/258
Q078626017	Southeastern Guide Dogs Inc., Titus Herman CEO Guide Dogs	Noble Energy, Inc.	Not less than 1/8	820/516
Q078626024	Shriners Hospitals For Children	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626025	Courtney D. Hall	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626012	Justin Smith A/K/A Justine Smith	Noble Energy, Inc.	Not less than 1/8	819/307
Q078626013	Robert Lee Smith and Betsy K. Smith	Noble Energy, Inc.	Not less than 1/8	819/303
Q078626010	Marilyn Ulbrich Chalmers and Rod N. Chalmers	Noble Energy, Inc.	Not less than 1/8	820/506
Q078626009	H. Jay Ulbrich	Noble Energy, Inc.	Not less than 1/8	819/309
Q078626023	Bryce E. Ulbrich and Edna M. Ulbrich	Noble Energy, Inc.	Not less than 1/8	825/298
Q078626011	Blye Ulbrich Jenschke and Jim Jenschke	Noble Energy, Inc.	Not less than 1/8	819/305
No Lease number assigned at this time	Blasé Joseph Ulcak, Jr.	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
No Lease number assigned at this time	Martha Frances Ulcak	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626005	Janice R. Crook a/k/a Janice Wingrove Crook and Donald P. Crook	Noble Energy, Inc.	Not less than 1/8	808/305
No Lease number assigned at this time	June Morris	Noble Energy, Inc.	Not less than 1/8	Unrecorded Lease, see attached
Q078626004	Nancy L. Snyder a/k/a Nancy Wingrove Snyder	Noble Energy, Inc.	Not less than 1/8	808/309
Q078626002	Kenneth R. Morris and Dawn E. Morris	Noble Energy, Inc.	Not less than 1/8	808/303
Q078626014	Harry Leroy Parriott and Nancy S. Parriott	Noble Energy, Inc.	Not less than 1/8	820/508
Q078626018	Kimberly D. Lake	Noble Energy, Inc.	Not less than 1/8	825/272
Q077358001	Jon David Fromhart	Noble Energy, Inc.	Not less than 1/8	805/580
9)	James K. Persinger and Tonda J. Persinger	TriEnergy Holdings, LLC	Not less than 1/8	711/359
	TriEnergy Holdings, LLC	NPAR, LLC	N/A	24/430
	NPAR, LLC	Chevron U.S.A. Inc.	N/A	756/332
	TriEnergy Holdings, LLC	Chevron U.S.A. Inc.	N/A	28/356
	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	31/59
10)	Leo R. Roupe and Thelma M. Roupe	TriEnergy Holdings, LLC	Not less than 1/8	712/550
	TriEnergy Holdings, LLC	NPAR, LLC	N/A	24/430
	NPAR, LLC	Chevron U.S.A. Inc.	N/A	756/332
	TriEnergy Holdings, LLC	Chevron U.S.A. Inc.	N/A	28/356
	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	31/59
11)	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)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66

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15)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
16)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
17)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
18)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
19)	State of WV	Noble Energy, Inc.	N/A	Unrecorded Agreement, see attached
20)	Elizabeth Anne Moore	Noble Energy, Inc.	Not less than 1/8	806/302

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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 TOPOGRAPHIC SURVEY UTILIZED FOR THIS BEST MANAGEMENT WAS PERFORMED BY RETTEW ASSOCIATES, INC. IN SEPTEMBER 2013.
2. PROPERTY RECORDS, LANDOWNER INFORMATION AND ROAD NETWORKS SHOWN ON THIS PLAN ARE BASED ON MARSHALL COUNTY GIS FILES DATA.
3. CONVEYANCE RECORDS, RECORDS OF SURVEY AND RECORDS HAVE BEEN LOCATED FOR AVAILABLE ONLINE AERIAL PHOTOGRAPHY LISTS AND RECORDS HAVE BEEN LOCATED FOR AVAILABLE AERIAL PHOTOGRAPHY LISTS.
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 UNITS 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. ALL STAKE PLACEMENT/ADJUSTMENT SURVEYS WAS PERFORMED BY RETTEW ASSOCIATES IN MAY & 6. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED 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.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DUE TO THE EXISTING UTILITIES RESIDENTS SHALL BE REPAIRED IMMEDIATELY AND COMPLETELY AT HIS OWNERS RISK.
9. INFORMATION UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH 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 OBTAIN ALL NECESSARY PERMITS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DUE TO THE EXISTING UTILITIES RESIDENTS SHALL BE REPAIRED IMMEDIATELY AND COMPLETELY AT HIS OWNERS RISK.
12. CONSTRUCTION SHALL BE RESPONSIBLE FOR THE REINFORCEMENT OF DAMAGED OR DESTROYED LANDSCAPE AND LAWNS.
13. CONSTRUCTION SHALL VERIFY ALL DIMENSIONS ON THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION.
14. CONSTRUCTION TO RELOCATE UTILITIES AS REQUIRED.
15. CONSTRUCTION MAY BECAUSE ACCESS ROAD DUE TO STEEP SLOPES IF REQUIRED NECESSARY AND PER APPROVAL BY THE OWNER AND ENGINEER.
16. PROPOSED ROAD CONSTRUCTION CONTRACTOR TO BE DETAILED SUCH THAT ROADWAY BEING PROPOSED SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION.
17. SEED AND MULCH ALL DISTURBED AREAS PER DETAILS IN THIS PLAN.
18. ALL CLEARED TREE DIMENSIONS SHALL BE TAKEN ON UPPER SIDE OF COMPOST FILTER SOCKS AND NOT STOCKPILED ON-SITE.
19. CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT NOBLE ENERGY AND POTTER, ETC) BE RECONTACTED DURING CONSTRUCTION.
20. NO WORK SHALL BE DONE OUTSIDE THE LIMITS OF DISTURBANCE OR IN PROTECTED AREAS.

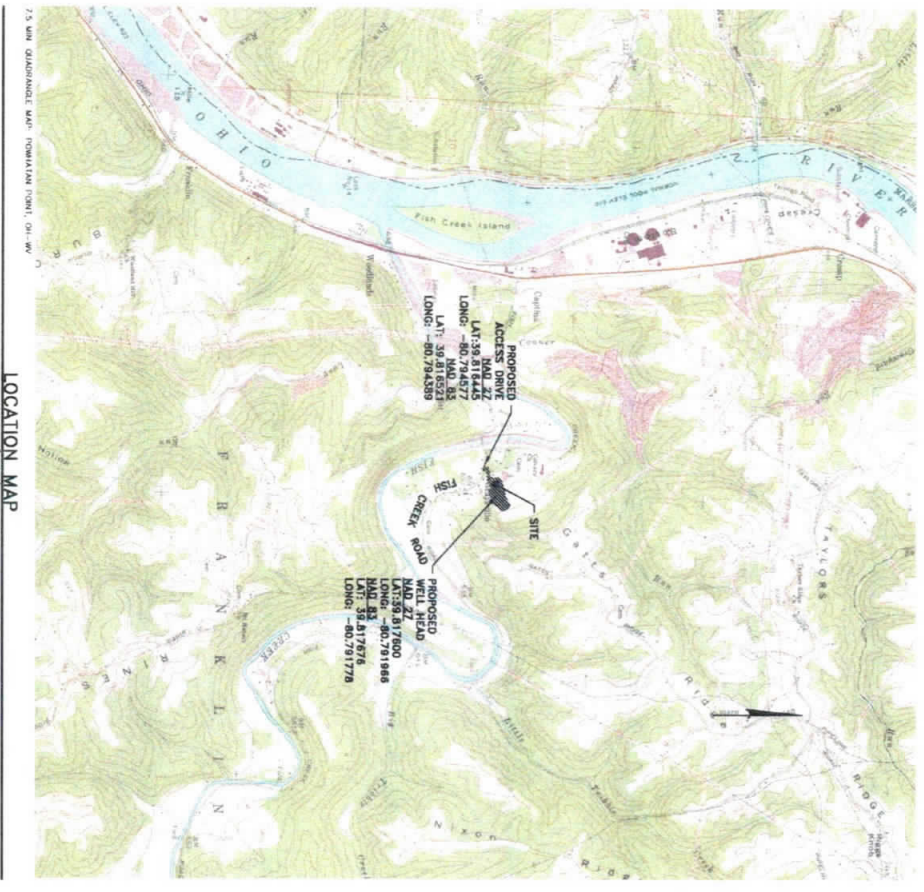
DIRECTIONS TO THE SITE

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

CUT & FILL

WELL AND FILL	ADDRESS/INCH	TOTAL SITE
CUT	5221 CY	482,644 CY
FILL	5221 CY	482,644 CY
NET	0 CY	0 CY
ROADWAY	15,807 CY	15,807 CY
TOTAL	10,586 CY	501,451 CY

- NOTES:
1. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND VERIFY VOLUMES VOLUMES PRIOR TO COMMENCEMENT OF WORK.
 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION.



LOCATION MAP
SCALE = 1" = 2000'

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

WEST VIRGINIA 811
 CALL BEFORE YOU DIG!
 Dial 811 or 800.245.4848
West Virginia Division of West Virginia

AT LOCATION, NO OTHER, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING HOLIDAYS) PRIOR TO STARTING ANY EARTH DISTURBANCE WORK UTILITIES OF WEST VIRGINIA AT 811 OR 1-800-245-4848 SHALL CONTACT YOU AT 1-800-245-4848. DATE: 4/2/2014

SOILS CLASSIFICATION

- 1.0 - INTERMEDIATE SOIL TO 10% STONES
- 2.0 - INTERMEDIATE SOIL TO 20% STONES
- 3.0 - CLAYEY SOIL TO 10% STONES
- 4.0 - CLAYEY SOIL TO 20% STONES
- 5.0 - CLAYEY SOIL TO 30% STONES
- 6.0 - CLAYEY SOIL TO 40% STONES
- 7.0 - CLAYEY SOIL TO 50% STONES
- 8.0 - CLAYEY SOIL TO 60% STONES
- 9.0 - CLAYEY SOIL TO 70% STONES
- 10.0 - CLAYEY SOIL TO 80% STONES

LIST OF DRAWINGS

- 1.0 - DISTURBANCE SUMMARY
- 2.0 - ENVIRONMENTAL RECORDS BUFFER PLAN
- 3.0 - LAYOUT PLAN
- 4.0 - ENVIRONMENTAL RECORDS BUFFER PLAN
- 5.0 - ACCESS DRIVE DETAILS
- 6.0 - CROSS SECTIONS PLAN VIEW
- 7.0 - WELL PAD RELOCATION PLAN
- 8.0 - WELL PAD RELOCATION PLAN
- 9.0 - WELL PAD RELOCATION PLAN
- 10.0 - DETAILS

DISTURBANCE SUMMARY

CLEARING RECORD	48.8 ACRES
ROADWAY RECORD	48.8 ACRES
TOTAL DISTURBANCE	97.6 ACRES

COVER SHEET FOR MND 6 WELL PAD FRANKLIN DISTRICT MARSHALL COUNTY, WV	RETTEW Associates, Inc. Two Towers, 4955 Shenandoah Pl. Ste 305, Pittsburgh, PA 15205 Phone: (412) 446-1728 • Fax: (412) 448-1733 Email: rettew@rettew.com Website: www.rettew.com	CLIENT NOBLE ENERGY 333 TECHNOLOGY DRIVE, SUITE 116 CANONSBURG, PA 15117-3077 BEN DEREUME, PE (724) 820-3000 	MANAGER: MICHAEL R. OGDEN DESIGN BY: ASN DRAWN BY: ASN SURV. CHECK: FELDBOOK NO. DATA COLLECTOR FOR RETTEW ASSOCIATES BY: DATE: 3/5/2014 SHEET NO. 1 OF 10 DWG. NO. 0938422010
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EROSION & SEDIMENT CONTROL PLAN

FOR

MND 6 WELL PAD

FRANKLIN DISTRICT, MARSHALL COUNTY, WV

J. H. Hester

GENERAL NOTES

1. THE EROSION & SEDIMENT CONTROL PLAN FOR THIS WELL PAD SHALL BE CONSIDERED AS PART OF THE PERMIT APPLICATION AND SHALL BE REVIEWED BY THE MARSHALL COUNTY ENGINEERING DEPARTMENT AND THE MARSHALL COUNTY COMMISSION.
2. THE EROSION & SEDIMENT CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE MARSHALL COUNTY ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL.
3. THE EROSION & SEDIMENT CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE MARSHALL COUNTY EROSION & SEDIMENT CONTROL PLAN.
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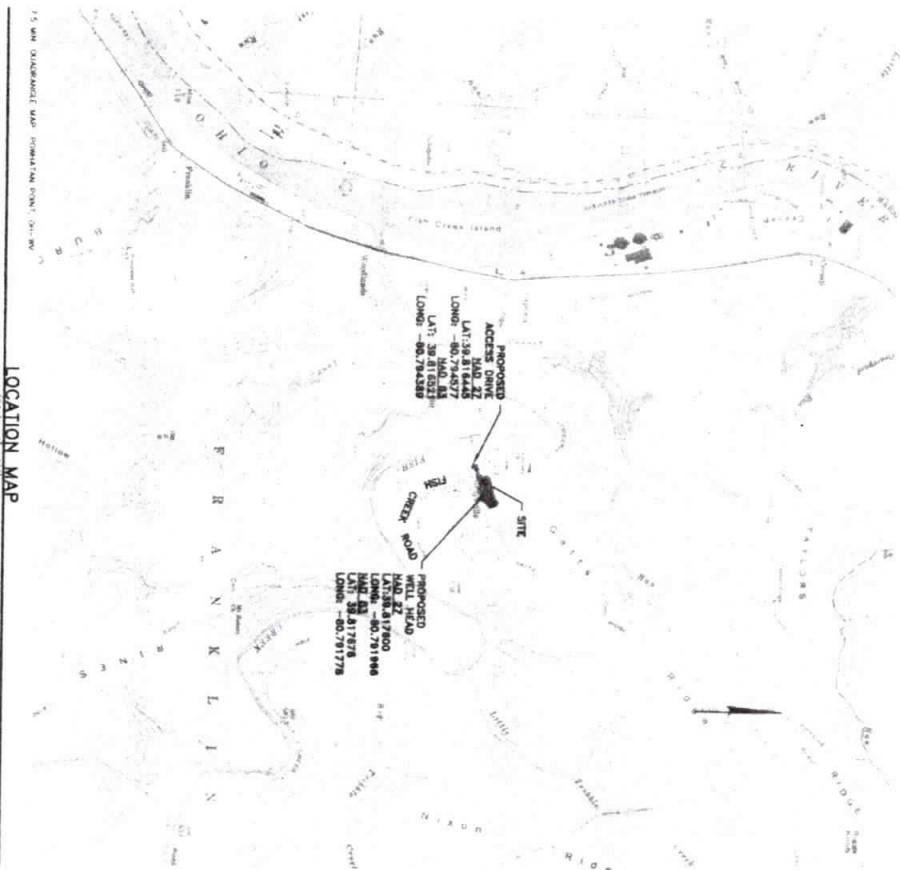
DIRECTIONS TO THE SITE

FROM MARSHALL COUNTY COURTHOUSE TO THE SITE:
 TAKE ROUTE 100 WEST ON 2ND STREET
 TURN LEFT ON 2ND STREET
 TURN RIGHT ON 2ND STREET
 THE SITE WILL BE ON THE LEFT IN 1/2 MILE

CUT & FILL

ITEM	AMOUNT	UNIT
CUT	1,100.00	CY
FILL	1,100.00	CY
TOTAL	2,200.00	CY

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



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DEAL BILL OF YODICI

SOILS CLASSIFICATION

SEE REPORT FOR SOIL CLASSIFICATION

LIST OF DRAWINGS

- 1. EROSION & SEDIMENT CONTROL PLAN
- 2. EROSION & SEDIMENT CONTROL PLAN
- 3. EROSION & SEDIMENT CONTROL PLAN
- 4. EROSION & SEDIMENT CONTROL PLAN
- 5. EROSION & SEDIMENT CONTROL PLAN
- 6. EROSION & SEDIMENT CONTROL PLAN
- 7. EROSION & SEDIMENT CONTROL PLAN
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- 14. EROSION & SEDIMENT CONTROL PLAN
- 15. EROSION & SEDIMENT CONTROL PLAN
- 16. EROSION & SEDIMENT CONTROL PLAN
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- 18. EROSION & SEDIMENT CONTROL PLAN
- 19. EROSION & SEDIMENT CONTROL PLAN
- 20. EROSION & SEDIMENT CONTROL PLAN

DISTURBANCE SUMMARY

TOTAL ACRES OF DISTURBANCE: 1.48 ACRES
 TOTAL CUBIC YARDS OF FILL: 1,100 CY
 TOTAL CUBIC YARDS OF CUT: 1,100 CY

<p>COVER SHEET</p> <p>FOR</p> <h2 style="margin: 0;">MND 6 WELL PAD</h2>	<p>FRANKLIN DISTRICT</p> <p>MARSHALL COUNTY, WV</p>	<p>RETTEW Associates, Inc. Two Towers, 4805 Steadville Pl., Ste. 300, Pittsburgh, PA 15205 Phone (412) 446-1728 Fax (412) 446-1753 Email: rettew@rettew.com Website: www.rettew.com</p>	<p>CLIENT</p> <p>NOBLE ENERGY 333 TECHNOLOGY DRIVE, SUITE 116 CANONSBURG, PA 15317-3077 BEN DEREUME, PE (724) 820-3000</p>	<p>MANAGER: MICHAEL R. OGDEN</p> <p>DESIGN BY: ASH</p> <p>DRAWN BY: ASH</p> <p>SURV. CHECK: FELIXSON NE. SAM COLLECTOR</p>	<p>FUR RETTEW ASSOCIATES BY:</p>	<p>DATE: 3/5/2014</p> <p>SHEET NO: 1 OF 10</p> <p>DWG. NO: 0918A-2010</p>
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