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

July 09, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5101460, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: SHL4BHS
Farm Name: MCCAUSLAND, RICHARD E.
API Well Number: 47-5101460
Permit Type: Plugging
Date Issued: 07/09/2013

Promoting a healthy environment.

WW-4B
Rev. 2/01

1) Date May 2nd, 2013
2) Operator's
Well No. SHL4BHS
3) API Well No. 47- 051 ~~01484~~ 01460

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1250.21 Watershed Wheeling Creek
District Sand Hill County Marshall Quadrangle Majorsville 7.5

6) Well Operator Noble Energy, Inc.
Address 333 Technology Drive Suite 116
Canonsburg, PA 15317

7) Designated Agent Steven M. Green
Address 500 Virginia Street East
Charleston, WV 25301

8) Oil and Gas Inspector to be notified
Name Bill Hendershot
Address 403 James Street
Mannington, WV 26582

9) Plugging Contractor
Name ____
Address ____

10) Work Order: The work order for the manner of plugging this well is as follows:

Please see attached plugging procedure

OK gwm

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector ____ Date ____

333 Technology Drive
Suite 110
Canonsburg, PA 15317-9504

Tel: 724-820-3000
Fax: 724-820-3098
www.nobleenergyinc.com

noble energy

SHL 4A and SHL 4B Plug and Abandonment Procedure

Noble Energy, Inc. – Appalachia Business Unit

Well: SHL 4A and SHL 4B
Pad: SHL4
Map Quad: Majorsville
County: Marshall
State: West Virginia

Objective:

- Plug and Abandon

Current Status:

- Conductor Casing 30" 81.3# L.S. set @ 40' and cemented with 5 ½ yards

---

Plug and Abandonment Procedure:

1. Arrange for surveyor to survey location of the well and create a plat showing where the fixed plate will be installed on the wellhead post plugging operations
2. Plugging operations cannot begin until approved permit is received from the state with their approval
3. Hold Safety Meeting and JSA
4. Ensure all proper paperwork required is filled out and approved prior to starting the job
5. MIRU cement company
    a. Class A cement to be used
6. Remove plate from top of well
7. Begin filling hole with Class A cement
    a. Hole to be filled to surface with cement
    b. Top off cement at surface as needed
8. RDMO cement company
9. Install wellhead plate on top of conductor
    a. Plate to be welded on conductor with API number welded on top of plate
10. RDMO all equipment
11. Plugging affidavit to be filled out and provided to Noble regulatory group with pictures of the completed wellhead

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ABOVE-GROUND MONUMENT MARKERS A & B MUST BE READILY VISIBLE, PERMANENT AND PROVIDE DISTANCE & BEARING INFORMATION TO THE PLUGGED WELL.

5101460P

WR-35
Rev (9-11)

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

DATE: 1/03/2013
API #: 51-01460

Farm name: Richard E. Mccausland Operator Well No.: SHL4BHS

LOCATION: Elevation: 1250.21 Quadrangle: Majorsville

District: Sand Hill County: Marshall
Latitude: 12,525' Feet South of 40 Deg. 00 Min. 00 Sec.
Longitude 2,808' Feet West of 80 Deg. 32 Min. 30' Sec.

Company: CNX Gas Company, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1000 Consol Energy Dr. Canonsburg, PA	20"	40'	40'	5.5 yds
Agent: Kent Wright				
Inspector: Derek Haught				
Date Permit Issued: 5/11/2011				
Date Well Work Commenced: 5/18/2012				
Date Well Work Completed: 5/21/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☐ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 40'				
Total Measured Depth (ft): 40'				
Fresh Water Depth (ft.): not penetrated				
Salt Water Depth (ft.): not penetrated				
Is coal being mined in area (N/Y)? yes				
Coal Depths (ft.): none penetrated				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Laura L. Adkins
Signature

1-7-13
Date

51-01460 P

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

None

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Conductors only were set and at a depth of 40'.

WW-4A
Revised 6-07

1) Date: May 2nd, 2013
2) Operator's Well Number
SHL4BHS

3) API Well No.: 47 - 051 - 01460

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Richard E. McCausland
Address: PO Box 24
West Liberty, WV 26074-00024
(b) Name:
Address:
(c) Name:
Address:

5) (a) Coal Operator
Name: Consolidaton Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
(b) Coal Owner(s) with Declaration
Name: Consolidaton Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Name:
Address:
(c) Coal Lessee with Declaration
Name:
Address:

6) Inspector: Bill Hendershot
Address: 403 James Street
Mannington, WV 26582
Telephone: 304-206-7750

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

COMMISSIONER FOR WEST VIRGINIA
WILLIAM TIMOTHY DORSCH
NORTH EAST, PENNSYLVANIA

Well Operator: Noble Energy, Inc.
By: Laura L. Adkins Laura L. Adkins
Its: Regulatory Analyst
Address: 333 Technology Drive Suite 116
Canonsburg, PA 15317
Telephone:

Subscribed and sworn before me this 6th day of June
William T. Dorsch Notary Public
My Commission Expires 7/14/2020

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

5101460P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 051 - 01460
Operator's Well No. SHL4BHS

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Noble Energy, Inc. OP Code 494501907

Watershed Wheeling Creek Quadrangle Majorsville 7.5 453

Elevation 1250.21 County Marshall 51 District Sand Hill 06

Description of anticipated Pit Waste: None

Will a synthetic liner be used in the pit? No Pit to be Utilized.

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
_____ Off Site Disppposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover _____ Plugging
_____ Other (Explain _____

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 L. Adkins

Company Official Title Regulatory Analyst

Subscribed and sworn before me this 6 day of June, 20 13

Maria A. Yanni Maria A. Yanni
Notory Public

My commission expires 05/10/15

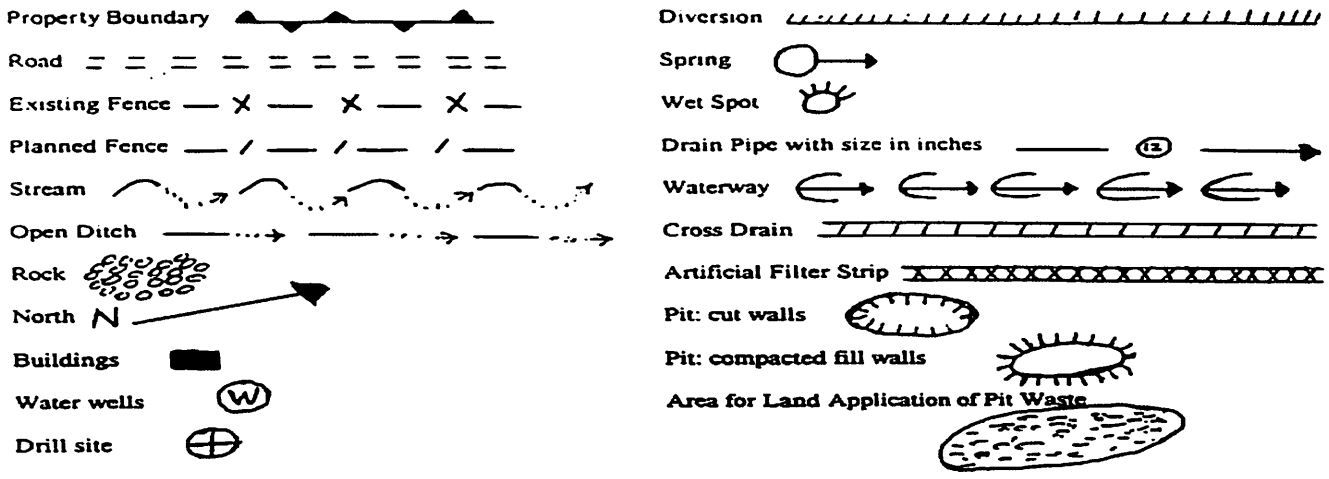
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Maria A. Yanni, Notary Public
Cecil Twp., Washington County
My Commission Expires May 10, 2015
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

5101460P

Form WW-9

Operator's Well No. SHL4BHS

LEGEND



Proposed Revegetation Treatment: Acres Disturbed Less than 1 Prevegetation pH 5.5

Lime 3 Ton/Acre Tons/acre or to correct to pH _____

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Hay or Straw at 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40		
Ladino Clover	10		

Attach:
Drawing(s) of road, location,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

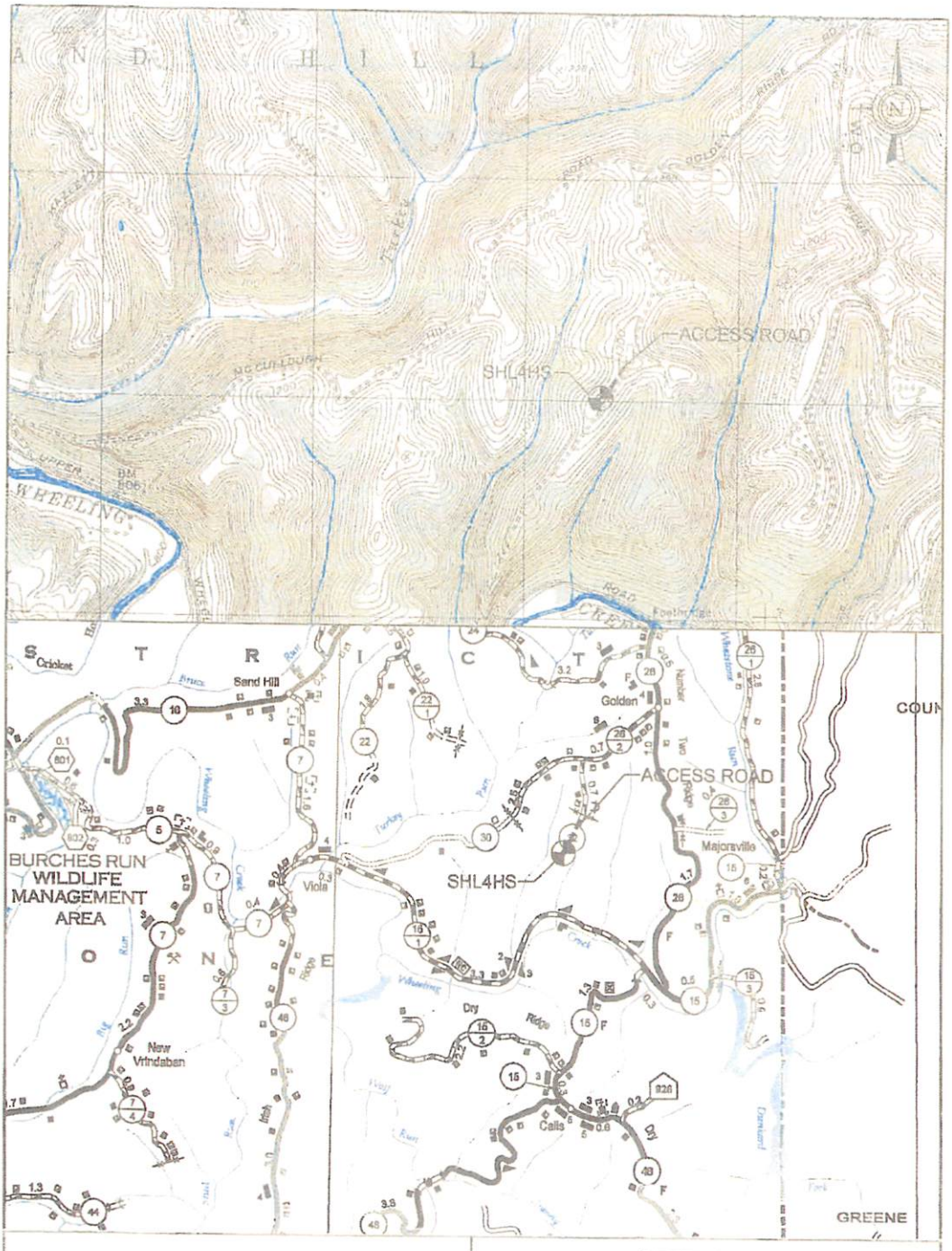
Plan Approved by: William Hendershot

Comments: _____

Title: Oil and Gas Inspector Date: 6-12-13

Field Reviewed? (✓) Yes ( ) No

5101460P



CONSOL ENERGY, INC.

SHL4HS

LOCATION MAP

MAJORSVILLE QUADRANGLE
MARSHALL COUNTY HIGHWAY MAP

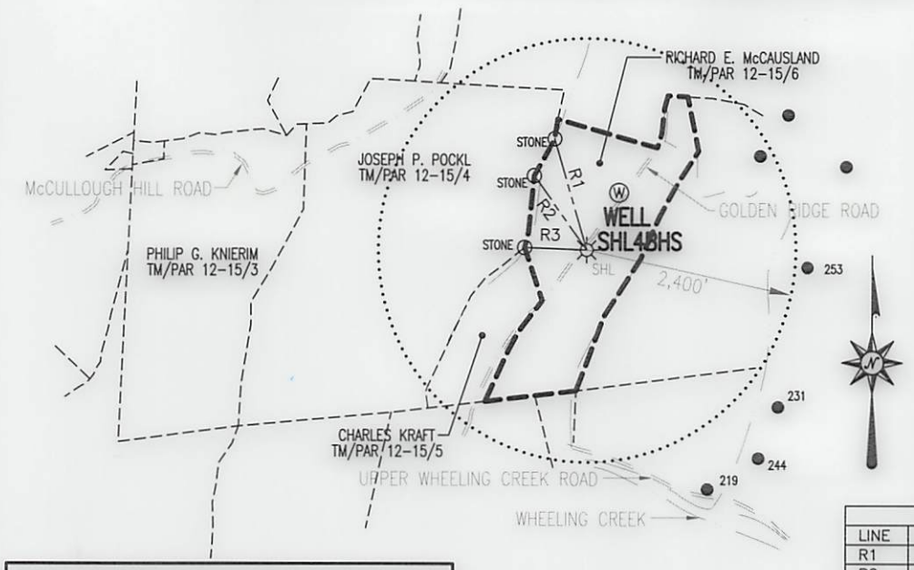
SCALE: 1" = 2000'
SCALE: 1" = 1 MILE

Received
Office of Oil & Gas

JUN 2 1 2013

Well is located on topo map 12,525' feet south of Latitude: 40°00'00"

Well is located on topo map 2,808' feet west of Longitude: 80°32'30"



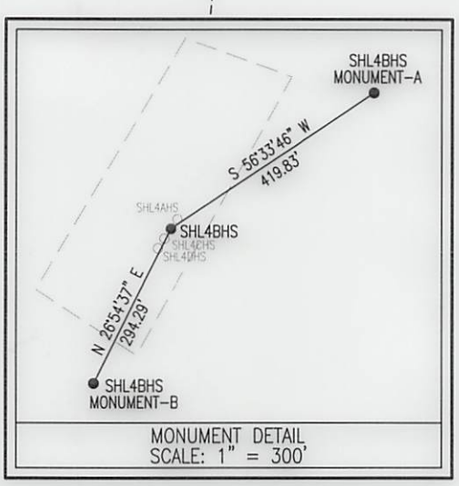
LEGEND

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

WELLS WITHIN 3000'

- EXISTING WELLS
- PLUGGED WELLS

REFERENCE LINES		
LINE	BEARING	DISTANCE
R1	S 16°48'27" E	1310.43'
R2	N 36°35'51" W	1041.02'
R3	S 88°22'48" E	739.80'



MONUMENT DETAIL
SCALE: 1" = 300'

SURFACE HOLE LOCATION (SHL)	MONUMENT-A LOCATION	MONUMENT-B LOCATION
UTM 17-NAD83	UTM 17-NAD83	UTM 17-NAD83
N:4424046.544	N:4424118.70	N:4423965.81
E:538299.722	E:538405.36	E:538260.55
NAD27, WV NORTH	NAD27, WV NORTH	NAD27, WV NORTH
N:535546.264	N:535777.60	N:535283.84
E:1705204.217	E:1705554.56	E:1705071.02

NOTE: A steel plate to be affixed to the casing no more than three feet below the ground surface inscribed with the API number of the well.

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

FILE #: SHL4BHS-MONUMENT

DRAWING #: SHL4BHS-MONUMENT

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I,THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: George D. Six

R.P.E.: _____ L.L.S.: P.S. No. 2000

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

PLACE SEAL HERE

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

DATE: MAY 11, 2013

OPERATOR'S WELL #: SHL4BHS

API WELL #: 47 (STATE) 51 (COUNTY) 01460 P (PERMIT)

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

WATERSHED: WHEELING CREEK ELEVATION: 1250.21'

COUNTY/DISTRICT: MARSHALL / SAND HILL QUADRANGLE: MAJORSVILLE, WV-PA 7.5'

SURFACE OWNER: RICHARD E. McCAUSLAND ACREAGE: 88.206±

OIL & GAS ROYALTY OWNER: RICHARD E. McCAUSLAND ACREAGE: 88.206±

DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 40'±

WELL OPERATOR NOBLE ENERGY, INC. DESIGNATED AGENT STEVEN M. GREEN

Address 333 TECHNOLOGY DRIVE, SUITE 116 Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590

City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

5101460P

CK
2013982406
$50.00

noble energy

Laura Adkins
Regulatory Analyst
724-820-3118

Gene Smith
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th St. S.E
Charleston, WV 25304

Monument Variance Request

Dear Gene,

Noble Energy, Inc. wishes to plug SHL 4 AHS 51-01460 and SHL 4 BHS 51-01484. These wells were only drilled to 40' and had conductor set. I have enclosed the WR-35 Report of Well Work for each. These wells were permitted by CNX and I have attached transfers which we request to be processed so that we may have the plugging permits in Noble's name.

Noble Energy, Inc. is using this pad as a tank site to store freshwater. We have previously sent you the paperwork you requested for this use. Since this site is to be used for freshwater storage, we ask that we may be granted a Plugging Monument Variance. I have had the surveyors draw up plats indicating where the markers for the wells and detailing the location of the plugged wells and included those plats as part of the plugging applications. I have also enclosed a copy of the surface use agreement which shows we may store/impound water on this location to serve as our surface owner's request for the variance.

Please let me know if you need further information or find deficiencies.

Received
Office of Oil & Gas

JUN 21 2013

Sincerely,

Laura L. Adkins

Laura Adkins
Enclosure(s):