



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, 2014

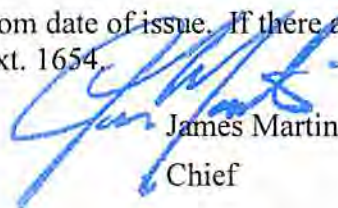
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501379, issued to RAVEN RIDGE ENERGY, 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 penalties 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: 5
Farm Name: RICKMERS, THOMAS
API Well Number: 47-1501379
Permit Type: Plugging
Date Issued: 07/09/2014

PERMIT CONDITIONS

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date APRIL 15, 2014
2) Operator's
Well No. D.H. STEPHENSON #5
3) API Well No. 47-015 - 1379

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 X / Gas X / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow X

5) Location: Elevation 1227.22' Watershed TRIBUTARY OF WADE FORK
District UNION County CLAY Quadrangle ELKHURST 7.5'

6) Well Operator RAVEN RIDGE ENERY, LLC 7) Designated Agent RYAN E. M. CUNNINGHAM
Address 3230 PENNSYLVANIA AVENUE Address 1212 STAUNTION ROAD
CHARLESTON, WV 25302 CHARLESTON, WV 25302

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name ED GAINER Name CUNNINGHAM ENERGY, LLC
Address P.O. BOX 821 Address 3230 PENNSYLVANIA AVENUE
SPENCER, WV 25276 CHARLESTON, WV 25302

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

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

Work order approved by inspector _____ Date _____

07/11/2014

D.H. Stephenson #5
API #: 47-0151379

- Lower tubing to bottom of shot hole (Approx. 2,100'); pump 10 bbl. of 6% gel; set a 220' cement plug from 2,100' to 1,880' (45 sacks); pull tubing; verify plug holds.
- Pull 5 3/16" casing; attempt to cut 6 5/8" casing at 1,500'; if not free attempt to cut 6 5/8" at 1,200'; if not free attempt to cut 6 5/8" casing at 475'; run tubing and set 100' plug to cover any cut attempts with 50' below and 50' above any attempts.
- With tubing at 1,550' pump 6% gel; set 100' cement plug from 1,550' - 1,450' (20 sacks) pull tubing to 1,250'; pump 6 bbl. of 6% gel; set a 235' cement plug from 1,250' - 1,015' (45 sacks); pull tubing to 525'; pump 6% gel - be sure hole is filling; set 100' cement plug from 525' - 425' (25 sacks); pull tubing.
- Pull 475' of 6 5/8" casing
- Run tubing to 288' with gel at 288' or higher; set a cement plug from 288' to surface (85 sacks) top cement off as needed.
- Set monument to state regulations.

~~5/8/14~~
 will check to see what is
 on ground about 5 1/2" egg.
 Do not know

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

07/11/2014

Company D. H. Stephenson
 Address Clendenin, West Va.
 Farm D. H. Stephenson Acres 133
 Location (waters) Little Sycamore
 Well No. Five (5) Elev 1227.22'
 District Union County Clay
 The surface of tract is owned in fee by D. H. Stephenson
 Address Clendenin, West Va.
 Mineral rights are owned by Same
 Address _____
 Drilling Commenced November 16, 1929
 Drilling Completed January 4, 1930
 Initial open flow _____ cu. ft. _____ bbls.
 Final production _____ cu. ft. per day _____ bbls.
 Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
300" Casing	21 ft.	21 ft.	
9 5/8			
8 7/8 1/2" Cas.	457 ft.		
X 6 5/8"	1936.5 ft.	1936.5 ft.	
5 1/2	1369 ft.	1369 ft.	
4 1/2			
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
 1929 - Gas Shot 2073' - 2078' - 30 qts. 2' Bottom hole anchor - 2109'
 2' anchor - 10 ft. shell - top shot 2097'
 January 7, 1930 100 MCF, 1 BBL - 24 hours
 1941 - Shot 30 qts - 2 ft. Bottom Hole anchor 8 1/2' Anchor - 10 ft. shell
 Oil Frac - September 20, 1957, Perf. 2098' - 2104' 2097' - 2107'
 After treatment - 60# pressure thru 2" - 24 hours
 Coal was encountered at 235'-238' Feet _____ Inches
 Fresh water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Big Injun Depth 2039'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	• Remarks
Loose land			00	21		
Sand & Slate			21	235		
Coal			235	238		
Sand			238	420		
Black Slate			420	422		
Lime & Slate			422	600		
Sand			600	645		
Slate & Lime			645	857		
Sand			850	910		
Slate & Lime			910	1065		
Salt Sand			1065	1505		
Slate			1505	1510		
Sand			1510	1595		
Slate			1595	1620		
Maxon Sand			1620	1715		
Slate & Red Rock			1715	1820		
Lime & Slate			1820	1866		
Little Lime			1866	1901		
Slate			1901	1915		
Lime & Shell			1915	1922		
Pencil Cave			1922	1936.5		
Big Lime S.L.M.			1936.5	2039		
Big Injun			2039	2113.5		
Total Depth			2113.5			

Received
 MAY 14 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection
 Blue Cave 1720'
 Gas 2035'-2047.5'
 Gas 2073'-2078'
 Oil 2101'-2109'

(over)

* Indicates Electric Log tops in the remarks section.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

date February 15, 1979
Operator's
Well No. Harshbarger Well No. 5
API Well
No. 47 - 015 - 213790000
State County Permit

WELL CLASSIFICATION FORM

STRIPPER GAS WELL
NCEA Section 108

DESIGNATED AGENT Helen V. Stanley
ADDRESS 214 North Boulevard West
Huntington, West Virginia 25701

WELL OPERATOR Helen V. Stanley
ADDRESS 214 North Boulevard West
Huntington, West Virginia 25701

LOCATION: Elevation 1227.22'
Watershed Little Sycamore
Dist. Union County Clay Quad. Clay 15'

GAS PURCHASER Consolidated Gas Supply Corp.
ADDRESS 445 West Main Street
Clarksburg, West Va. 26301

Purchase Contract No. 0705
Meter Chart Code 1133
Date of Contract November 24, 1925

* * * * *

Provide a complete inventory of the lease and production equipment used for the well for the previous 24 months or, if less than 24 months, the period the well has been in production. Include a complete list of equipment or processes used in connection with recognized enhanced recovery techniques during completion or production. (Attach separate sheets, if necessary.)

- | | | |
|---------------|-----------------------------|-----------|
| 10" Casing | South Penn Iron Pumping Rig | |
| 6 5/8" Casing | Reed 15HP Engine | |
| 5 1/2" Casing | Bottom hole pump | |
| 2" Tubing | Tubing head | |
| Wire Line | Miscellaneous fittings | |
| | | Well Shot |
| | | also |
| | | Oil Frac |

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax Records and royalty payment records) and indicate the location of such records:

- production records
- buyers statements
- B & O Tax Records

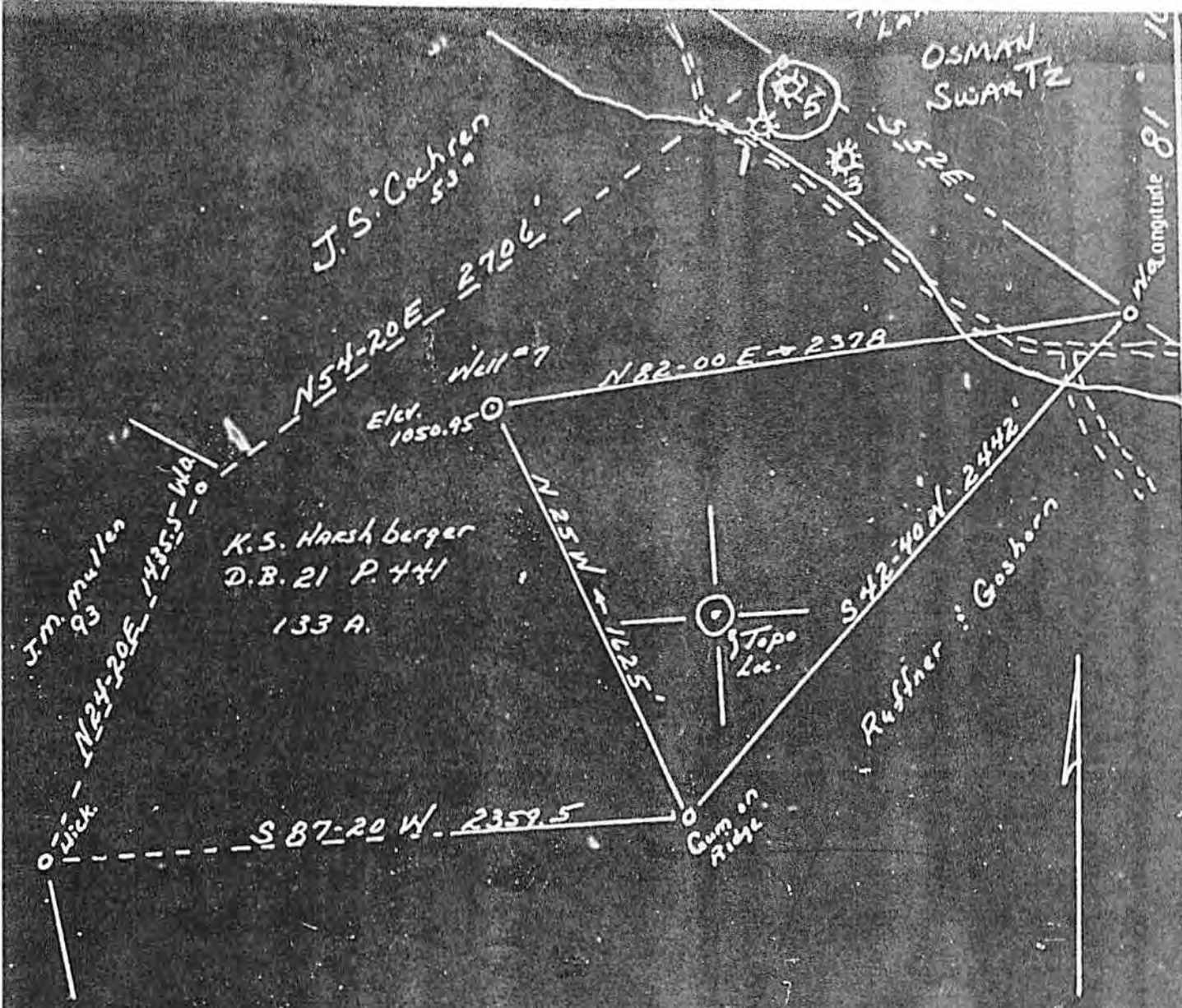
Holly Nester, Inc.
Millstone, West Va. 25261

Received

- copy of permit application
- plat map
- completion record
- equipment list
- copy of production
- copy of contract

214 North Boulevard West
Huntington, West Va. 25701

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Office of Oil and Gas
WV Dept. of Environmental Protection



Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

new location
 H. Stephenson
 Clendenin, W. Va.

Minimum Error of Closure 1 in 200

Company	NOW Harshbarger Oil & Gas Co.	
Address	214 North Boulevard West Huntington, West Va. 25701	
Owner	K. S. Harshbarger	
Tract	1	Acres 133
Elevation (Sea Level)	1227.22	1050.95
Quadrangle	Clay 15'	
County	Clay	District Union
Engineer		

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 Charleston
 WELL LOCATION MAP
 FILE NO. CLA-1379

Please note: this information is derived from old handwritten notes prepared by [unclear] and [unclear].

07/11/2014

1501379P

WW-4A
Revised 6-07

1) Date: APRIL 15, 2014
2) Operator's Well Number
D.H. STEPHENSON #5
3) API Well No.: 47 - 015 - 01379

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name THOMAS RICKMERS	Name _____
Address 1484 SHELTON ROAD ✓ BOMONT, WV 25030	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector ED GAINER	(c) Coal Lessee with Declaration
Address P.O. BOX 821	Name _____
SPENCER, WV 25276	Address _____
Telephone 304-389-7582	Address _____

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 reverse 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.



Well Operator RAVEN RIDGE ENERGY, LLC
 By: RYAN E. M. CUNNINGHAM
 Its: OFFICER
 Address 3230 PENNSYLVANIA AVENUE
 CHARLESTON, WV 25302
 Telephone 304-344-9291

Received
MAY 14 2014

Subscribed and sworn before me this 17th day of APRIL, 2014
My Commission Expires FEBRUARY 10, 2015

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 depprivacyofficer@wv.gov.

Office of Oil and Gas
WV Dept. of Environmental Protection

07/11/2014

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7012 3460 0002 4924 2578

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40

Postmark Here
 MAY 9 2014
 BIG CHIMNEY CONTRACT STA
 USPS 25302 5#5

Sent To
 Street, Apt. No.,
 or PO Box No. Thomas Rickmers
 1484 Shelton Road ✓
 City, State, ZIP+4 Bomont, WV 25030

PS Form 3800, August 2006 See Reverse for Instructions

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

07/11/2014

1501379P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 015 - 01379
Operator's Well No. D.H. Stephenson #5

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 RAVEN RIDGE ENERGY, LLC OP Code 26-0620509

Watershed TRIBUTARY OF WADE FORK Quadrangle ELKHURST 7.5'

Elevation 1227.22' County CLAY District UNION

Description of anticipated Pit Waste: CEMENT & GEL

Will a synthetic liner be used in the pit? YES 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:

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

Received

Proposed Work For Which Pit Will Be Used:

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

MAY 14 2014

Office of Oil and Gas
WV Dept. 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 [Signature]

Received

Company Official (Typed Name) RYAN E. M. CUNNINGHAM

Company Official Title OFFICER

MAY 14 2014

Subscribed and sworn before me this 17th day of APRIL, 20 14

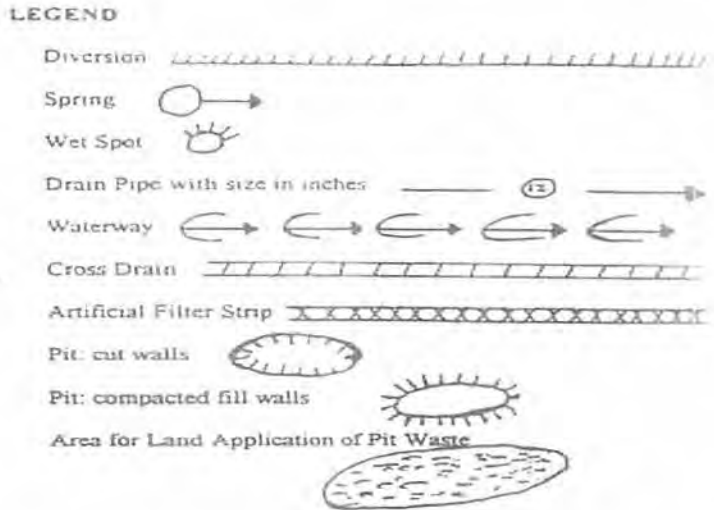
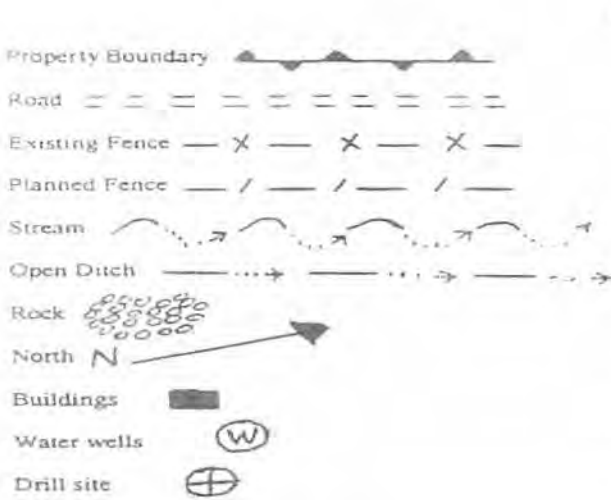
Office of Oil and Gas
WV Dept. of Environmental Protection

[Signature] Notary Public

My commission expires FEBRUARY 10, 2015



071172014



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY - 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
KY - 31		40
ALSIKE CLOVER		5
ANNUAL RYE		15

Seed Type	Area II	lbs/acre
ORCHARD GRASS		15
ALSIKE CLOVER		5

Received

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

MAY 14 2014

Photocopied section of involved 7.5' topographic sheet.

Office of Oil and Gas
WV Dept. of Environmental Protection

Plan Approved by: 

Comments: Sediment protection in place at all times

Title:  Date: 5/8/14

Field Reviewed? () Yes () No

1501379P

CUNNINGHAM ENERGY AO, CLAY CO. WV, UNION DIST



481089.2, 4253098,
UTM17 NAD83

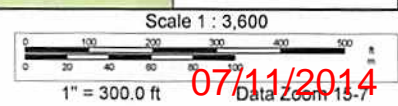
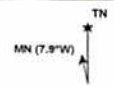
DH Stephenson #5
47-01501379

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

3295 Pennsylvania Ave. Charleston, WV 25302
www.cunninghamenergy.com



1501379P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-0151379 WELL NO.: D.H. STEPHENSON #5
FARM NAME: THOMAS RICKMERS
RESPONSIBLE PARTY NAME: RAVEN RIDGE ENERGY, LLC
COUNTY: CLAY DISTRICT: UNION
QUADRANGLE: ELKHURST 7.5'
SURFACE OWNER: THOMAS RICKMERS
ROYALTY OWNER: HELEN V. STANLEY, et al
UTM GPS NORTHING: 4253098
UTM GPS EASTING: 481089.2 GPS ELEVATION: 1227.22'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

OFFICER
Title

5/12/2014
Date

Received

MAY 12 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

07/11/2014