



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 18, 2014

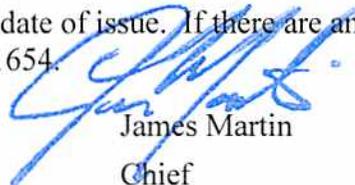
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501378, 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: 3
Farm Name: STEPHENSON, D. H.
API Well Number: 47-1501378
Permit Type: Plugging
Date Issued: 07/18/2014

Promoting a healthy environment.

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 #3
3) API Well No. 47-015 - 1378

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 1133' 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 Name ED GAINER
Address P.O. BOX 821
SPENCER, WV 25276
9) Plugging Contractor Name CUNNINGHAM ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

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

*Contact Inspector before changes
are made to attachment!*

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

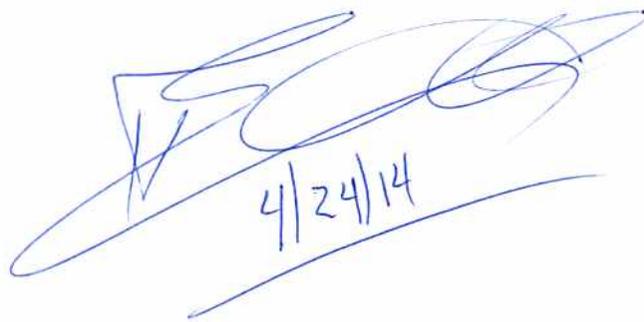
Work order approved by inspector



RECEIVED
Office of Oil and Gas
Date APR 24 2014
WV Department of
Environmental Protection

D.H. Stephenson #2
API #: 47-0151378

1. With tubing at 2,050' pump 10bb. Of 6% gel; set Cement plug from 2,050' – 1,825' (Approx. 40 sacks); pull all tubing; verify plug holds.
2. Attempt to pull 5 3/16" casing; pull 5 3/16" casing; run tubing to 1,690' pump 10 bbl of 6% gel, set 100' cement plug from 1690' – 1590' (Approx. 20 sacks); pull all tubing. If unable to pull 5 3/16 cut at about 1,690' and pull. Run tubing to 1,825 pump 10 bb. 6% gel. Set 235' cement plug from 1,825' – 1,590' approx. 30 sacks; pull all tubing.
3. Attempt to cut 6 5/8 casing at 1285' – If not free attempt to cut at 1040' if still not free run tubing to 1335'; pump 6bbl of 6% gel; set 345' cement plug from 1335' – 990' (approx. 63 sacks); pull tubing.
4. Attempt to cut 6 5/8 casing; pull 6 5/8" casing; run tubing to 788' pump 10 bbl. 6% gel; be sure hole is filling up with gel – add more 6% if needed.
5. Pull tubing to 195'; set a 195' cement plug to surface (62 sacks); top off as needed.
Note: 6% Gel will be used between each plug.
6. Set monument to state regulations.



4/24/14

THIS WELL IS AN OFFSET TO 1501377 THAT HAD CONC REPORTED.
∴ FOLLOW STEPS 4 & 5 FROM PLUGGING PROCEDURE FOR 1501377.
ELEV DIFFERENCE IS 7'.

COAL	142	145	
COAL	325	327	From 1501377
COAL	735	738	
COVER THESE COALS			

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

Quadrangle Clay 15'

Permit No. CLA-1978

Cable XX Gas _____
 Recycling _____ Comb. XX
 Water Flood _____ Storage _____
 Disposal _____ (Kind)

Company D. Homer Stephenson
 Address Clendenin, West Va.
 Farm D. H. Stephenson Acres 133
 Location (waters) Little Sycamore
 Well No. 3 Elev. 1133
 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 April 10, 1922
 Drilling Completed June 1, 1922
 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. <u>13-10" Conductor</u>	<u>20'</u>	<u>20'</u>	
<u>9 5/8</u>			
<u>8 1/8</u>	<u>450'</u>		
<u>7 6 5/8"</u>	<u>1835'</u>	<u>1835'</u>	
<u>5 1/2 3/16"</u>	<u>1845'</u>	<u>1845'</u>	
<u>4 1/2</u>			
<u>3</u>			
<u>2" Tubing</u>	<u>2015'</u>	<u>2015'</u>	
Liners Used			

Well ~~treatment~~ details:

Attach copy of cementing record.

Well Shot:
30 qts. - 7' Anchor - 1995' - 2010'
50 qts. - 19' Anchor - 1993'-2015'
 After treatment
4 bbls - 24 hours

Coal was encountered at None Feet _____ Inches _____
 Fresh water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Injun Depth 1945'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
No Information			00	986		
Salt Sand			986	1557		
Slate			1557	1564		
Salt Sand			1564	1603		
Red Rock			1603	1620		
Slate & Shells			1620	1685		
Slate & Lime			1685	1722		
Maxon Sand			1722	1767		
Slate			1767	1773		
Little Lime			1773	1807		
Slate & Sand			1807	1817		
Lime & Shells			1817	1822		
Pencil Cave			1822	1835		
Big Lime			1835	1945		
Big Injun			1945	1996		
Injun			1996	2012		
Red Rock			2012	2017		
Red Sand			2017	2034.5		
Total Depth			2034.5			
						Oil 1996' - 2004'

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

NO. _____

FERC-121 Items not completed - Line No. _____

IV-1 - Agent Helen V. Stanley

IV-2 - Well Permit

IV-6 - Well Plat

IV-35- Well Record Drilling Deepening _____

IV-36- Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____

IV-39- Annual Production 1 years 11 nos

IV-40- 90 day Production 92 Days off Line: _____

IV-48- Application for Certification. Complete?

17 IV Form #51 - 52 - 53 - 54 - 55 - (56) - 57 - 58. Complete Affidavit Signed

28 Other: Survey _____ Logs _____ Geological Charts _____ Structure Map _____

1:4000 Map _____ Well Tabulations _____ Gas Analyses _____

Date commenced: 4-10-22

Date Completed: 6-1-22 Deepened _____

Production Depth: 1945-1996

Production Formation: Big Intun

Final OPEN Flow: _____

Estimated: _____ N/A

After ERAC R.P. Separately: _____ N/A

Other Gas Test: _____

Avg. Daily Gas from Annual Production: 2045.67 / 365 = 5.6 mcf / 385 = 2.5

Avg. Daily Gas from 90-day ending w/1-120 days: 414 / 92 = 5.3 mcf / 1361

Line Pressure: N/A PSIG from Daily Report _____

Oil Production: Yes From Completion Report 1996'-2004'

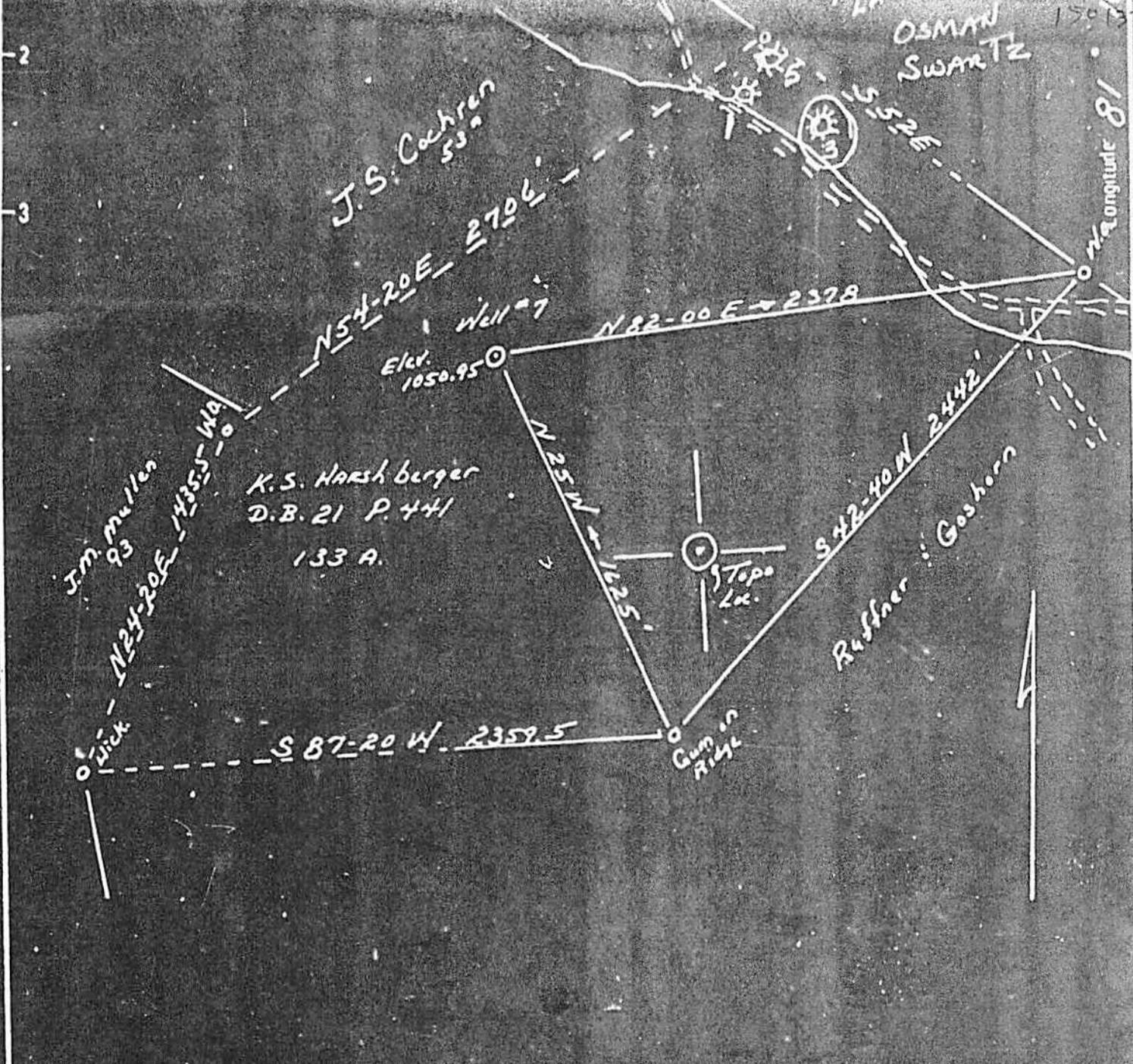
Does lease inventory indicate enhanced recovery being done? NO

Is affidavit signed? Notarized?

Does official well record with the Department confirm the submitted information? Yes

Additional Information _____ Does computer program confirm? _____

Determination Objected to? _____ By Whom? _____



New Location D. H. Stephenson Clendenin, W.Va.	Minimum Error of Closure <u>1 in 200</u>
--	--

Company	NOW Harshbarger Oil & Gas Co. 214 North Boulevard West Huntington, West Va. 25701
Address	K. S. Harshbarger
Farm	Tract 1 Acres 133
Tract	Elevation (Spirit Level) ¹¹³³ 1030098
Elevation (Spirit Level)	Quadrangle Clay 15'
Quadrangle	County Clay District Union
County	Engineer
District	

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 Charleston
 WELL LOCATION MAP
 FILE NO. CLA-1378

Please note: this information taken from old handwritten notes prepared by deceased field man, Carl B. Young

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

Date February 15, 19 79

Operator's Well No. Harshbarger Well No. 3

API Well No. 47 - 015 - 213780000
State County Permit

WELL CLASSIFICATION FORM

STRIPPER GAS WELL

NGEA Section 108

DESIGNATED AGENT Helen V. Stanley

ADDRESS 214 North Boulevard West

Huntington, West Virginia 25701

WELL OPERATOR Helen V. Stanley

LOCATION: Elevation 1133

ADDRESS 214 North Boulevard West

Watershed Little Sycamore

Huntington, West Va. 25701

Dist. Union County Clay Quad. Clay 15'

GAS PURCHASER Consolidated Gas Supply Comp Purchase Contract No. 0705

ADDRESS 445 West Main Street

Meter Chart Code 1133

Clarksburg, West Va. 26301

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" Conductor
- 8" Casing
- 6 5/8" Casing
- 5 3/16" Casing
- 2" Tubing
- Rods
- Pump jack
- Bottom hole pump
- Tubing Head
- 5HP Electric Motor
- Miscellaneous fittings
- Well shot

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, M&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

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

214 North Boulevard West
Huntington, West Virginia 25701

WW-4A
Revised 6-07

1) Date: APRIL 15, 2014
2) Operator's Well Number D.H. STEPHENSON #3
3) API Well No.: 47 - 015 - 01378

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

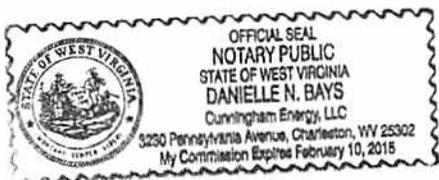
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>THOMAS RICKMERS</u>	Name _____
Address <u>1484 SHELTON ROAD</u>	Address _____
<u>BOMONT, WV 25030</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address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

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.



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

Subscribed and sworn before me this _____ day of APRIL, 2014
Danielle N. Bays Notary Public
My Commission Expires FEBRUARY 10, 2015

RECEIVED
Office of Oil and Gas
APR 29 2014

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.

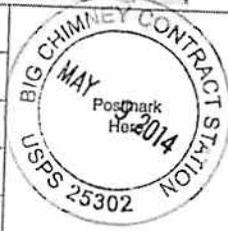
1501378P

7012 3460 0002 4924 2554

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



S-#1

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

7012 3460 0002 4924 2561

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



S-#3

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

1501378 P
CK 9215
10000

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 1133' 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 _____)

Proposed Work For Which Pit Will Be Used:

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

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 _____

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

Company Official Title OFFICER

RECEIVED
Office of Oil and Gas

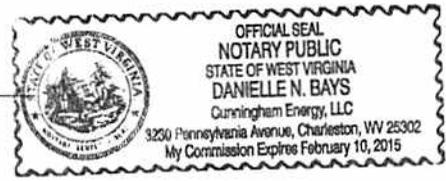
Subscribed and sworn before me this 17th day of APRIL, 20 14

APR 29 2014

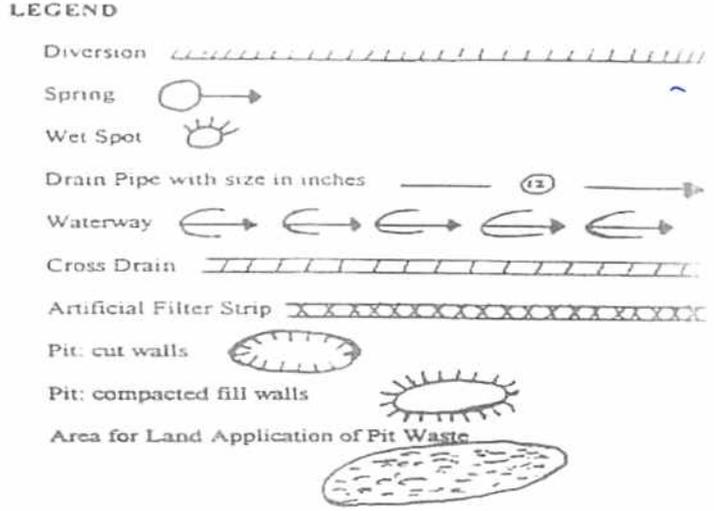
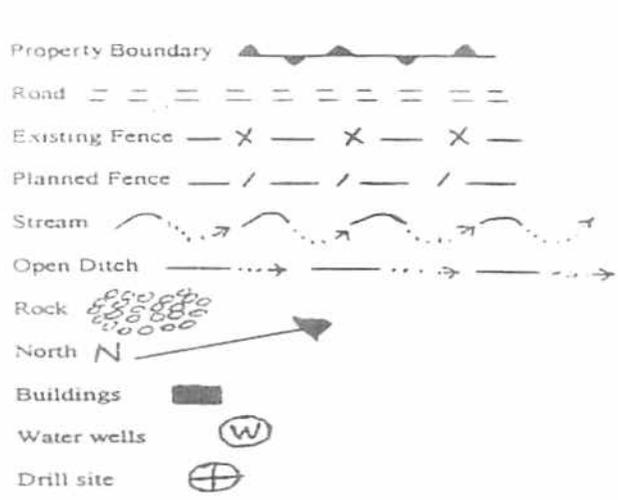
Daniel N. Bays Notary Public

WV Department of Environmental Protection

My commission expires FEBRUARY 10, 2015



1501378P



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

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

RECEIVED
Office of Oil and Gas

Title: Inspector

Date: 4/24/14

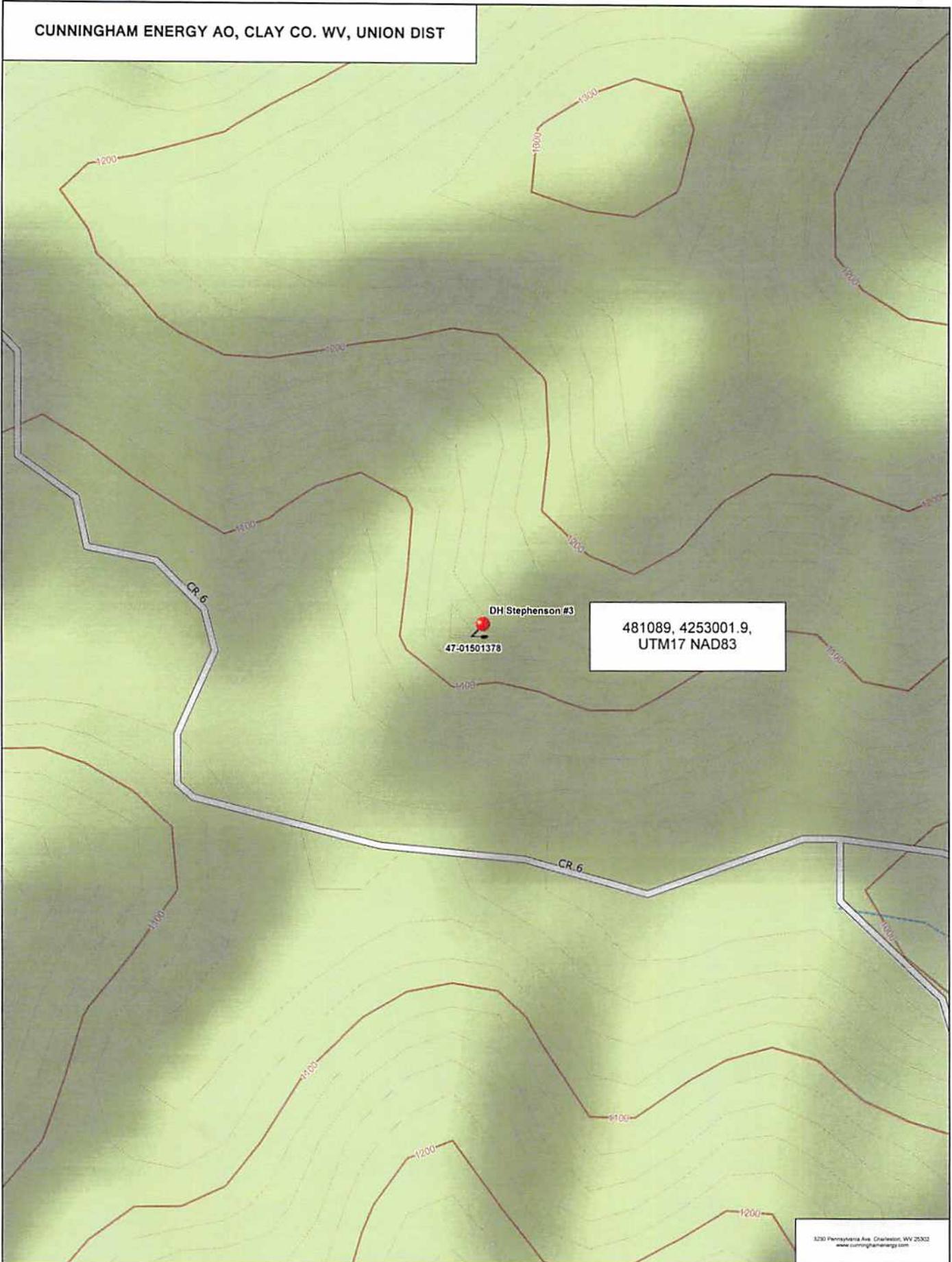
APR 29 2014

Field Reviewed? () Yes (X) No

WV Department of Environmental Protection

1501378P

CUNNINGHAM ENERGY AO, CLAY CO. WV, UNION DIST



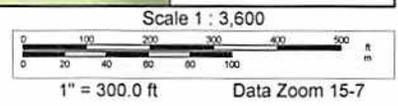
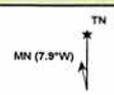
481089, 4253001.9,
UTM17 NAD83

DH Stephenson #3
47-01501378

3250 Pennsylvania Ave. Charleston, WV 25302
www.cunninghamenergy.com

Data use subject to license.

© DeLorme. XMap® 7.
www.delorme.com



1501378P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-0151378 WELL NO.: D.H. STEPHENSON #3

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: 4253001.9

UTM GPS EASTING: 481089 GPS ELEVATION: 1133'

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

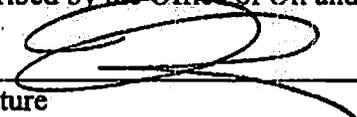
Received

MAY 12 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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