



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, August 17, 2017
WELL WORK PERMIT
Not Available / Plugging

CUNNINGHAM ENERGY, LLC
3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Re: Permit approval for CROMWELL 2
47-039-04907-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.



James A. Martin
Chief

Operator's Well Number: CROMWELL 2
Farm Name: MIKE ROSS, INC
U.S. WELL NUMBER: 47-039-04907-00-00
Not Available / Plugging
Date Issued: 8/17/2017

Promoting a healthy environment.

08/18/2017

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 AUGUST 22, 2016
2) Operator's
Well No. CROMWELL 2
3) API Well No. 47-22 - 04907B

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

5) Location: Elevation 1132' Watershed TRIBUTARY OF BIG SANDY CREEK
District BIG SANDY County KANAWHA Quadrangle CLIO 7.5'

6) Well Operator CUNNINGHAM ENERGY, LLC 7) Designated Agent RYAN CUNNINGHAM
Address 3230 PENNSYLVANIA AVE Address 1212 STAUNTON ROAD
CHARLESTON, WV 25302 CHARLESTON, WV 25314

8) Oil and Gas Inspector to be notified Name TERRY URBAN
Address P.O. BOX 1207
CLENDENIN, WV 25045
9) Plugging Contractor Name CUNNINGHAM ENERGY, LLC
Address 3230 PENNSYLVANIA AVE.
CHARLESTON, WV 25302

10) Work Order: The work order for the manner of plugging this well is as follows:
PULL ALL PUMPS/TUBING/RODS. RIG UP AND PULL ALL PRODUCTION CASING. TRIP TUBING TO TD, FILL HOLE WITH GEL, SET SOLID PLUG FROM TD TO SURFACE. SET MONUMENT WITH API #47-039-04907.

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

Work order approved by inspector *Terry Urban*

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WV Department of
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Date 8/24/16

3904907A

WR-35

29-Jun-93
API # 47- 39-04907 N

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: CROMWELL HEIRS Operator Well No.: CROMWELL HRS.#2

LOCATION: Elevation: Quadrangle:

District: BIG SANDY County: KANAWHA
Latitude: Feet South of Deg. Min. Sec.
Longitude: Feet West of Deg. Min. Sec.

Company: THOMAS, MICHAEL DBA THOMA
P. O. BOX 537
ELKVIEW, WV 25071-0000

Agent: MICHAEL L. THOMAS

Inspector: CARLOS HIVELY
Permit Issued: 06/25/93
Well work Commenced: _____
Well work Completed: _____
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.

COLUMBIA GAS TRANSMISSION CORPORATION

PERMIT
Big Sandy DISTRICT
Kanawha COUNTY
West Virginia STATE

FOREIGN WELL
COMPLETION

WELL NO. F 37966
MAP SO. 76-69
ELEV. 1251'
DIVISION Clendenin
COMP. DRLG. 6-22-20

OPERATOR _____
FARM John Cromwell

GAS PURCHASE CONTRACT NO. _____

FINAL OPEN FLOW MCF	Est. 15 bbls. oil	HORIZON	Weir	ROCK PRESSURE
---------------------	-------------------	---------	------	---------------

Salt Sand	1323 - 1740		
Maxon	1740 - 1814		
Big Lime	1844 - 1982		
Injun	1982 - 2007		
Weir	2190 -	Show oil	2190-2196'
Total Depth	2217'		

Shot with 15 qts. from 2200-2206'.
Final open flow Est. 15 bbls. oil.

FORMERLY U-1140

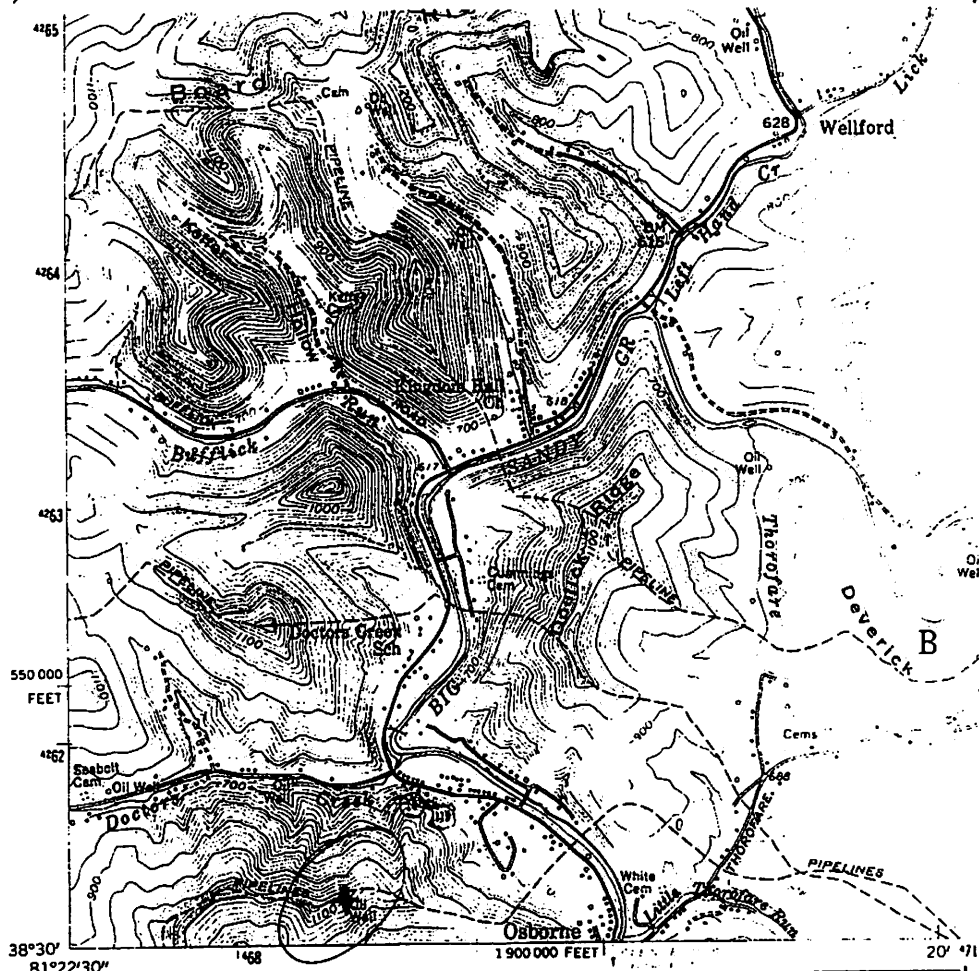
SIGNED Ralph Dyc
DATE 8-17-71

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Office of Oil & Gas

FEB 15 2012

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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief.

SIGNED _____
 TITLE _____

17496

DATE March 15, 1993
 OPERATORS WELL NO. J. Cromwell # 2
 API WELL NO. 47-039-4907-N

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL xx GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IE: "GAS" PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____)

LOCATION: ELEVATION 1251' WATER SHED Branch of Big Sandy Creek of Elk River
 DISTRICT Big Sandy COUNTY Kanawha
 QUADRANGLE Clio

SURFACE OWNER Cromwell Heirs ACREAGE 100
 OIL & GAS ROYALTY OWNER Cromwell Heirs LEASE ACREAGE 100
 LEASE NO. _____

PRODUCING FORMATION Weir TOTAL DEPTH 2217'

WELL OPERATOR	<u>M. L. Thomas</u>	DESIGNATED AGENT	<u>M. L. Thomas</u>
ADDRESS	<u>P. O. Box 537</u>	ADDRESS	<u>P. O. Box 537</u>
	<u>Elkview WV 25071</u>		<u>Elkview WV 25071</u>

08/18/2017

WW-4A
Revised 6-07

1) Date: 8/22/2016
2) Operator's Well Number
CROMWELL 2
3) API Well No.: 47 - 39 - 04907

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>MIKE ROSS, INC. ✓</u>	Name _____
Address <u>P.O. BOX 219</u>	Address _____
<u>COALTON, WV 26257-0219</u>	_____
(b) Name <u>WACO OIL AND GAS ✓</u>	(b) Coal Owner(s) with Declaration
Address <u>1595 US HWY 33E</u>	Name _____
<u>GLENVILLE, WV 26351-1098</u>	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>TERRY URBAN</u>	(c) Coal Lessee with Declaration
Address <u>P.O. BOX 1207</u>	Name _____
<u>CLENDENIN, WV 25045</u>	Address _____
Telephone <u>304-549-5915</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 CUNNINGHAM ENERGY, LLC
 By: RYAN CUNNINGHAM
 Its: MEMBER
 Address 3230 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302
 Telephone 304-344-9291



Subscribed and sworn before me this 23rd day of AUGUST, 2016

My Commission Expires January 23, 2022

Notary Public

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.

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AUG 5 2016

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7015 1730 0002 2499 1360

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CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

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

GLENVILLE, WV 26351

Certified Mail Fee	\$3.30	0071
\$	\$2.70	04
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	08/23/2016
Total Postage and Fees	\$4.68	

Postmark Here

Com. 2

Sent To
 Street an
 City, State

Waco Oil and Gas
1595 US HWY 33E
Glenville, WV 26351

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1730 0002 2499 1353

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

COALTON, WV 26257

Certified Mail Fee	\$3.30	0071
\$	\$2.70	04
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	08/23/2016
Total Po:	\$4.68	

Postmark Here

Com 2

Sent To
 Street an
 City, State

Mike Ross, Inc
P O BOX 219
Coalton, WV 26257

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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SURFACE OWNER WAIVER

Operator's Well
Number

CROMWELL 2A

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

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Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

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FOR EXECUTION BY A CORPORATION,
Office of Oil and Gas

Signature

Date

Name
By
Its

Signature

Date

WV Department of
Environmental Protection

AUG 2 2017

08/18/2017

API No. 47-3904907
Farm Name MIKE ROSS, INC.
Well No. CROMWELL 2

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

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WAIVER

The undersigned coal operator ____ / owner ____ / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CUNNINGHAM ENERGY, LLC OP Code 494485865

Watershed (HUC 10) TRIBUTARY OF BIG SANDY CREEK Quadrangle CLIO 7.5'

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: PRODUCED WATER / OIL / CEMENT

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 39-2210 UIC)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: NO PIT WILL BE USED - ALL FLUIDS WILL BE PUT INTO A FLOWBACK TANK

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 MEMBER

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Environmental Protection

Subscribed and sworn before me this 23rd day of AUGUST, 2016

My commission expires January 23, 2022



3904907

Form WW-9

Operator's Well No. CROMWELL 2

Proposed Revegetation Treatment: Acres Disturbed 3 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 RYE	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: _____

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WV Dept. of Environmental Protection

Title: Field Inspector Del & Co. MS

Date: 8-24-16

Field Reviewed? Yes No

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

Operator Name: CUNNINGHAM ENERGY, LLC
Watershed (HUC 10): TRIBUTARY OF BIG SANDY CREEK Quad: CLIO 7.50
Farm Name: MIKE ROSS, INC.

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A - NO PIT
TU

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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Environmental Protection
08/18/2017

[Empty rectangular box for response]

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

[Empty rectangular box for response]

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

[Empty rectangular box for response]

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

[Empty rectangular box for response]

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Vermont Department of Environmental Conservation

Signature: [Handwritten Signature]

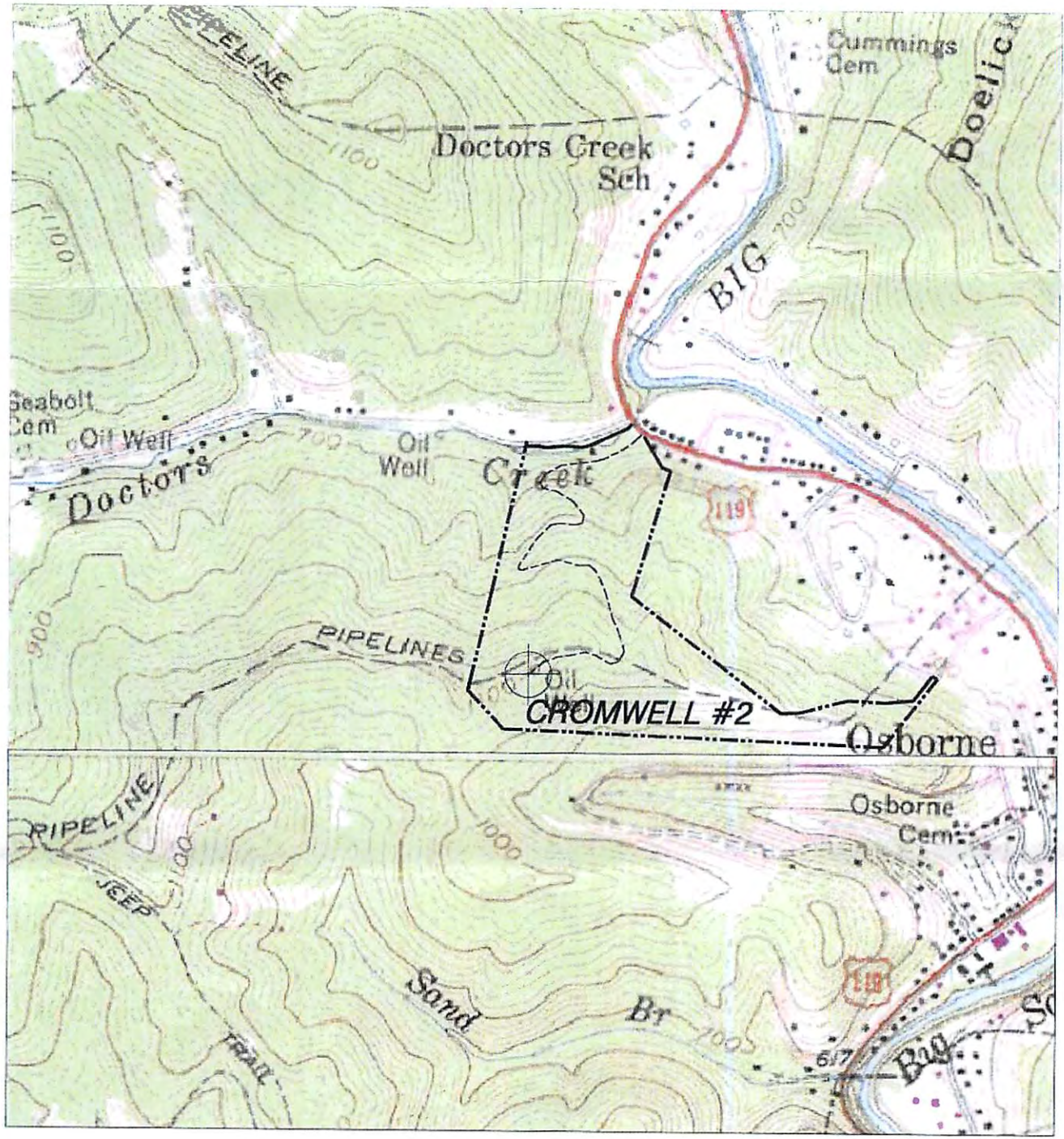
Date: 8/21/14

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Vermont Department of Environmental Protection
08/18/2017

Form W-9

RAVEN RIDGE ENERGY, LLC. CROMWELL #2 (47-039-04907)



NORTH

<p>HUPP Surveying & Mapping P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net</p>	<p>1" = 1000' CLIO Quad</p>	<p>RAVEN RIDGE ENERGY, LLC. 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302</p>
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3904907A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-3904907 WELL NO.: CROMWELL #2

FARM NAME: MIKE ROSS, INC.

RESPONSIBLE PARTY NAME: RAVEN RIDGE ENERGY, LLC/CUNNINGHAM ENERGY, LLC

COUNTY: KANAWHA DISTRICT: BIG SANDY

QUADRANGLE: CLIO 7.5'

SURFACE OWNER: MIKE ROSS, INC. & WACO OIL & GAS CO.

ROYALTY OWNER: MIKE ROSS, INC. & WACO OIL & GAS CO.

UTM GPS NORTHING: 4261527

UTM GPS EASTING: 468456 GPS ELEVATION: 1132'

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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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential

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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] MEMBER 9/21/16
Signature Title Date

08/18/2017