



**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 18, 2014

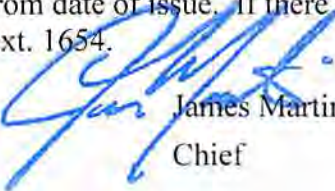
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1502895, issued to CUNNINGHAM ENERGY, LLC, 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: J.S. COCHRAN #6H  
Farm Name: CHESSIE CONNER, ET AL  
**API Well Number: 47-1502895**  
**Permit Type: Plugging**  
Date Issued: 06/18/2014

**Promoting a healthy environment.**

**06/20/2014**

## 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.

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### CONDITIONS

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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 JUNE 12, 2014  
2) Operator's  
Well No. J.S. COCHRAN 6H  
3) API Well No. 47-150 -2801

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 1,215' Watershed TRIBUTARY OF WADE FORK  
District UNION 05 County CLAY 15 Quadrangle ELKHURST 7.5' 334

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

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name ED GAINER Name UNIVERSAL WELL SERVICE  
Address P.O. BOX 821 Address ROUTE 5, HALL ROAD  
SPENCER, WV 25276 BUCKHANNON, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**LOAD HOLE WITH GEL, TRIP IN HOLE TO 1918', SET 500' PLUG  
BACK TO 1418', CIRCULATE HOLE AGAIN WITH GEL; TRIP BACK TO 500'  
AND SET CEMENT PLUG FROM 500' TO SURFACE. ERECT MONUMENT  
AND RECLAIM.**

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

Work order approved by inspector

Date

6/16/14

**SURFACE OWNER WAIVER**

Operator's Well  
Number

J.S. COCHRAN 6H

**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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**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.

FOR EXECUTION BY A CORPORATION,

	Date		Name	
Signature			By	Ryan E. M. Cunningham
			Its	President
			Signature	Date 6/20/14
				Date 06/20/2014

1502895HP

WW-4A  
Revised 6-07

1) Date: JUNE 12, 2014  
2) Operator's Well Number  
J.S. COCHRAN 6H  
3) API Well No.: 47 - 150 - 2895

**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>CUNNINGHAM ENERGY, LLC IN FEE</u>	Name <u>NO COAL LISTED ON TITLE</u>
Address <u>3230 PENNSYLVANIA AVENUE</u>	Address _____
<u>CHARLESTON, WV 25302</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 CUNNINGHAM ENERGY, LLC

By: RYAN E. M. CUNNINGHAM 

Its: PRESIDENT

Address 3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone 304-344-9291

Subscribed and sworn before me this 12TH day of JUNE, 2014

Danielle N. Bays Notary Public

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](mailto:depprivacyofficer@wv.gov).

06/20/2014

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 CUNNINGHAM ENERGY, LLC OP Code 494508594

Watershed TRIBUTARY OF WADE FORK Quadrangle ELKHURST 7.5'

Elevation 1,215' 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
- Swabbing
- Workover
- Plugging
- Other (Explain EXISTING DRILLING PIT WILL BE USED)

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 \_\_\_\_\_

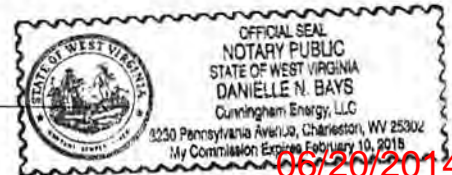
Company Official (Typed Name) RYAN E. M. CUNNINGHAM

Company Official Title PRESIDENT

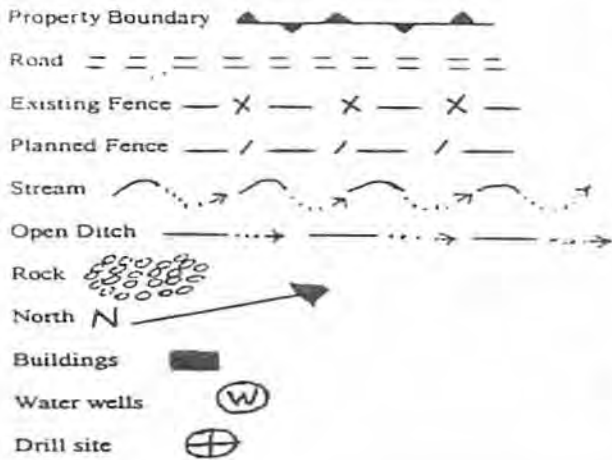
Subscribed and sworn before me this 12 day of JUNE, 2014

Danielle N. Bays Notary Public

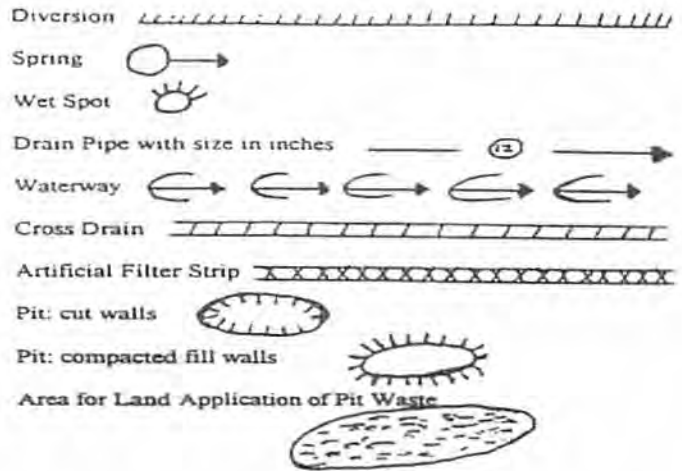
My commission expires FEBRUARY 10, 2015



06/20/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.5 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	Seed Type	Area II lbs/acre
KY 31	40	ORCHID 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: \_\_\_\_\_

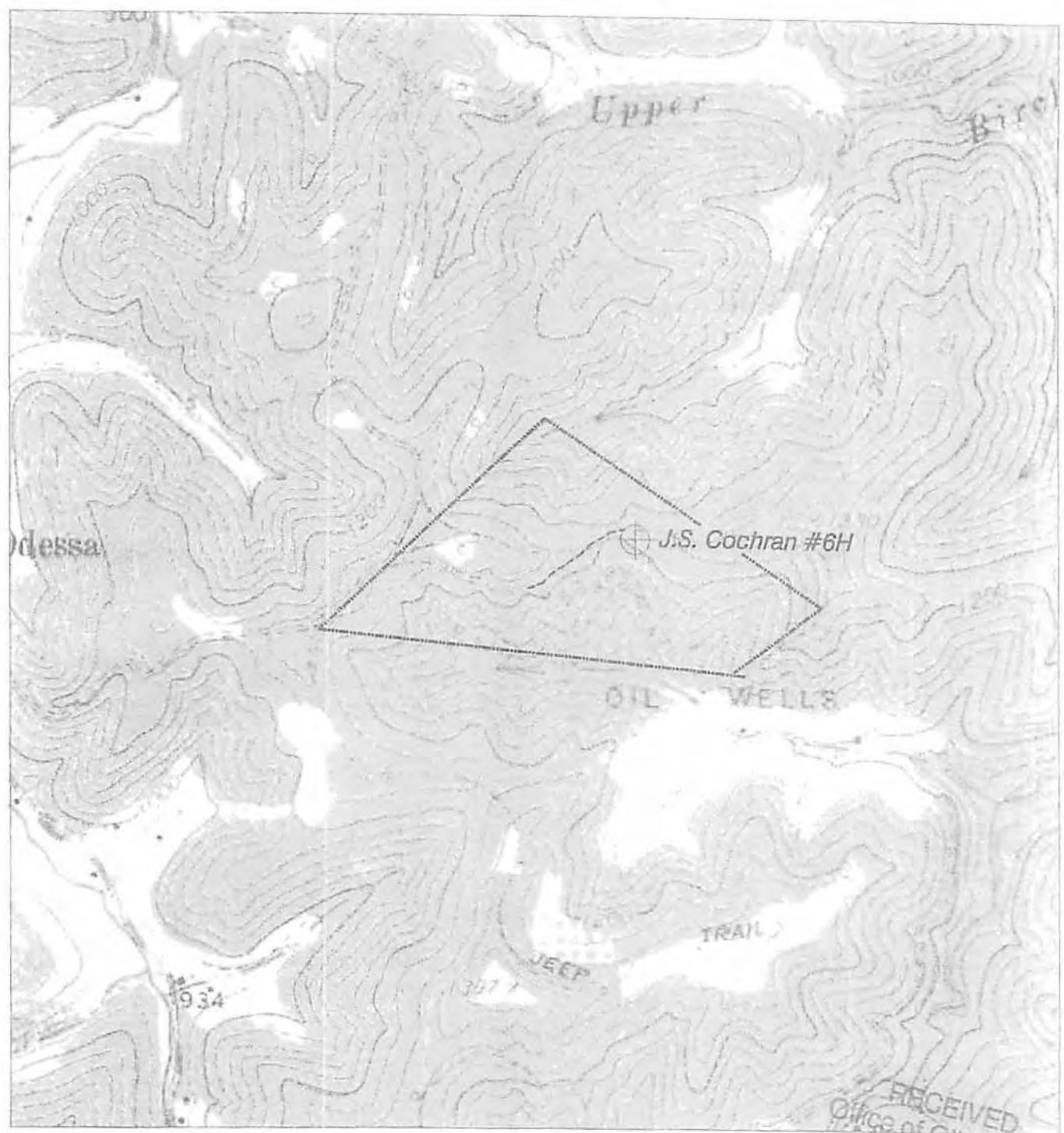
Comments: \_\_\_\_\_

Title: Inspector

Date: 6/16/14

Field Reviewed? ( ) Yes ( X ) No

# CUNNINGHAM ENERGY J.S. Cochran #6H



RECEIVED  
Office of Oil and Gas

JAN 15 2014

**HUPP Surveying & Mapping**  
 P.O. BOX 647 GRANTSMILLE, WV 26147  
 PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
 Elkhurst Quad

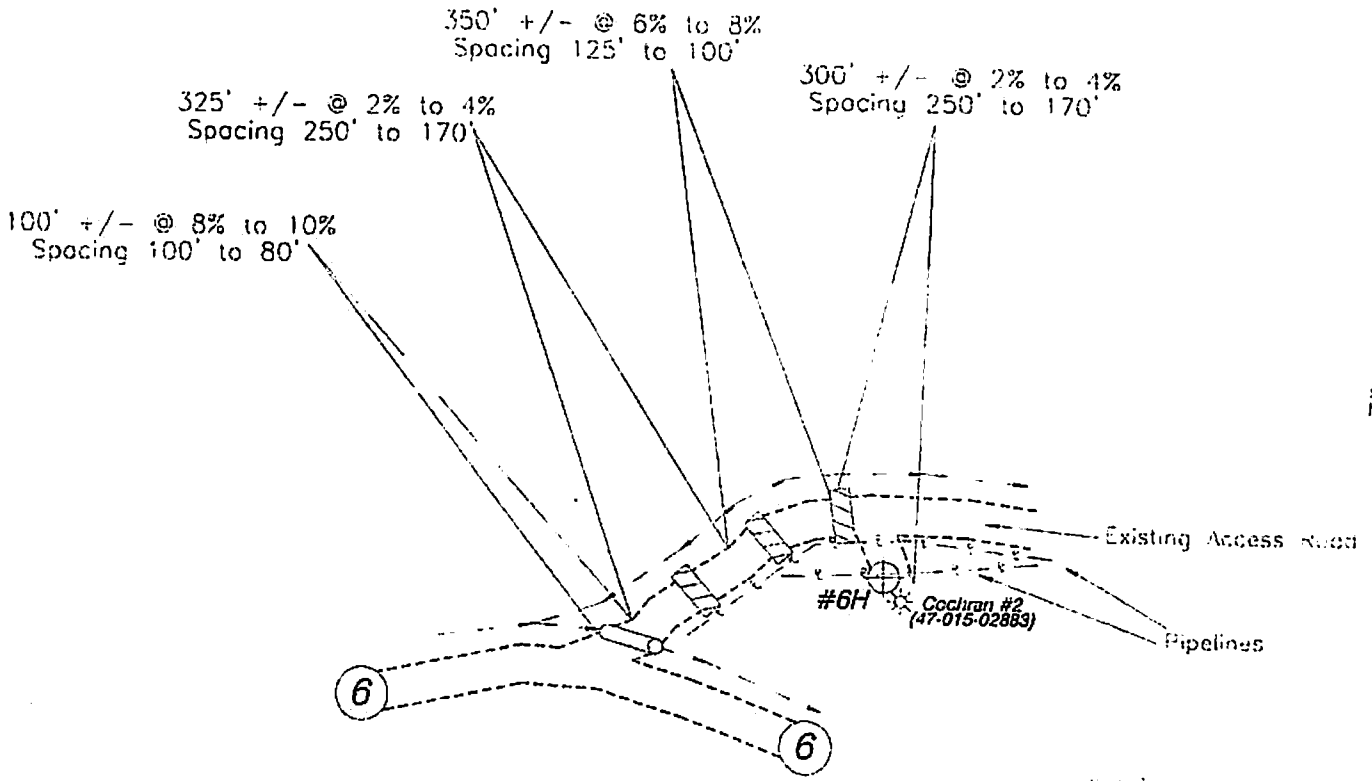
Cunningham Energy, LLC.  
 3230 Pennsylvania Ave.  
 Charleston, WV 25302



# RAVEN RIDGE ENERGY, LLC. J.S. COCHRAN #6H

Form W-9

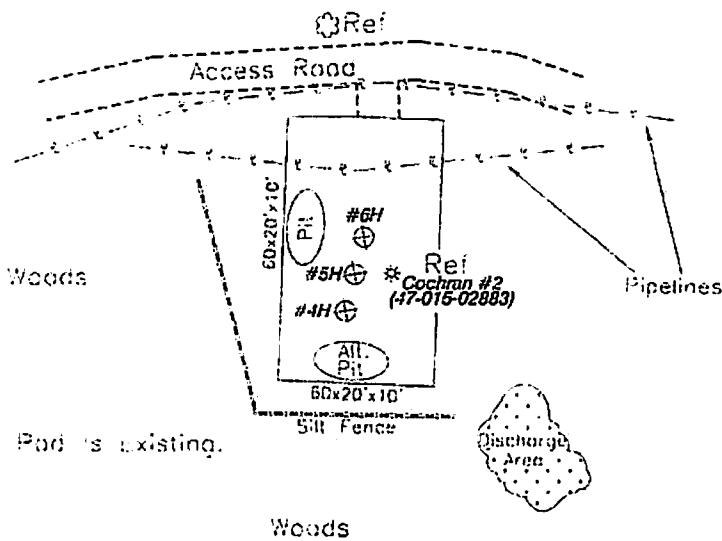
Page 1 of 1



Drawing Not To Scale NORTH

*[Handwritten Signature]*  
1/18/14

Detail Sketch for J.S. Cochran #6H



Road Is An Existing Access Road  
Upgrade Drainage Devices Where Needed  
Pad Is Existing.

Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DEP.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT TRAP TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR NOTIFYING THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION.

CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

**RECEIVED**  
Office of Oil and Gas  
JAN 15 2014

WV Department of Environmental Protection

HUPP Surveying & Mapping

Drafted BY:

Date Drafted:

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH (504)354-7035 E-MAIL: hupp@frontiernet.net

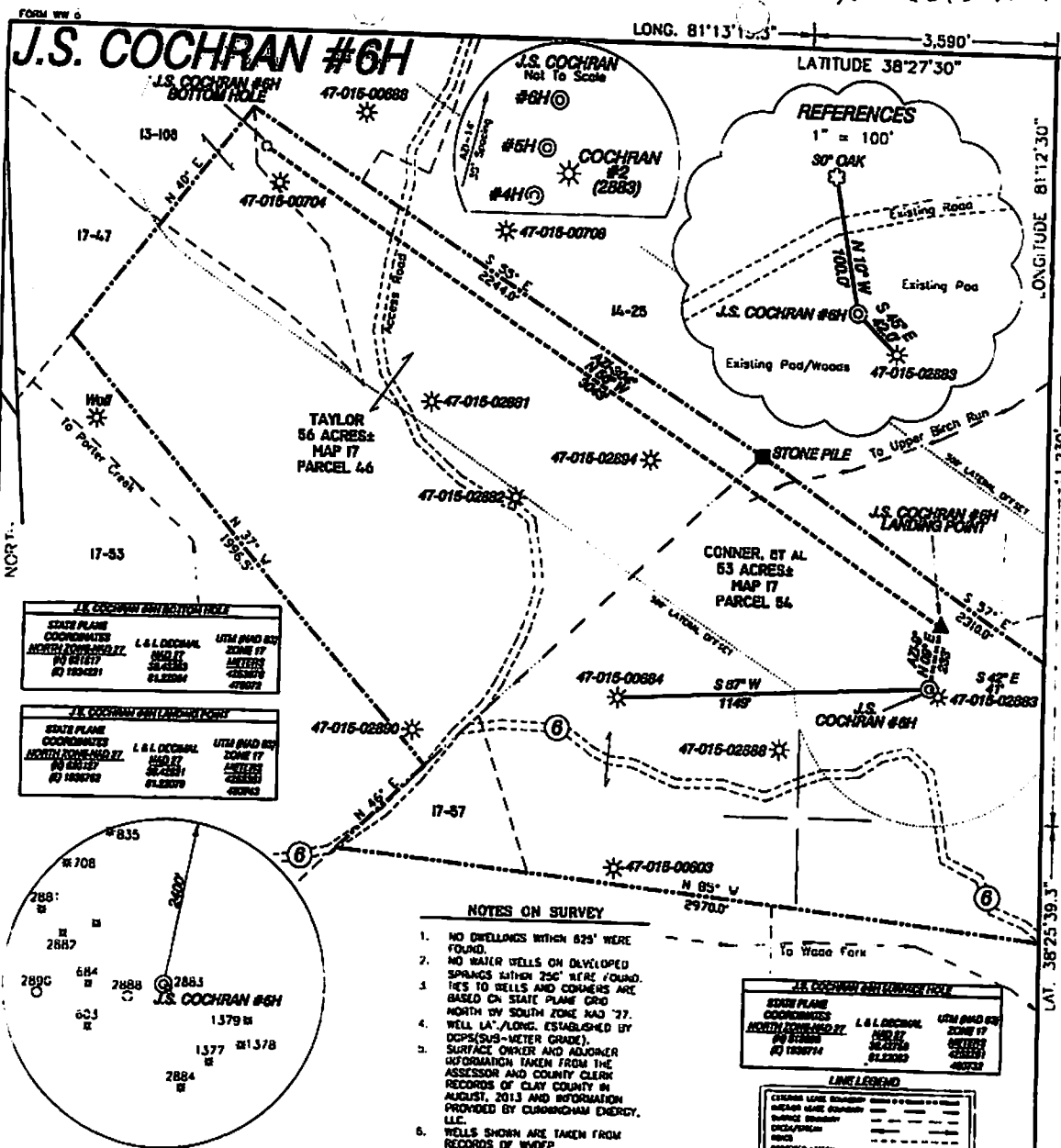
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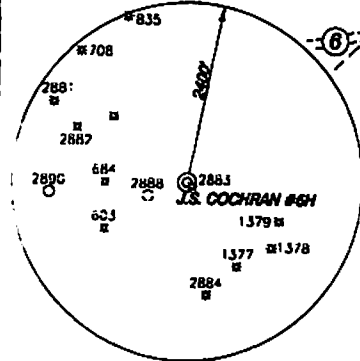


J.S. COCHRAN 6H LANDING POINT

STATE PLANE COORDINATES	L & L DECIMAL	UTM GRID REF
NORTH ZONE MAP 17	582.77	ZONE 17
WESTING	362.250	WESTING
EASTING	612.200	EASTING

J.S. COCHRAN 6H LANDING POINT

STATE PLANE COORDINATES	L & L DECIMAL	UTM GRID REF
NORTH ZONE MAP 17	582.77	ZONE 17
WESTING	362.250	WESTING
EASTING	612.200	EASTING



- NOTES ON SURVEY**
- NO DWELLINGS WITHIN 625' WERE FOUND.
  - NO WATER WELLS ON DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
  - IES TO BELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH BY SOUTH ZONE MAP 17.
  - WELL LA' LONG, ESTABLISHED BY COPIES (SUB-METER GRADE).
  - SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN AUGUST, 2013 AND INFORMATION PROVIDED BY CUNNINGHAM ENERGY, LLC.
  - WELLS SHOWN ARE TAKEN FROM RECORDS OF WVEDP.

J.S. COCHRAN 6H LANDING POINT

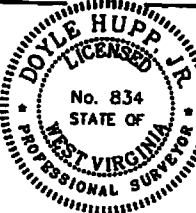
STATE PLANE COORDINATES	L & L DECIMAL	UTM GRID REF
NORTH ZONE MAP 17	582.77	ZONE 17
WESTING	362.250	WESTING
EASTING	612.200	EASTING

**LINE LEGEND**

EXISTING LINE BOUNDARY	---
PROPOSED LINE BOUNDARY	---
EXISTING ROAD	---
PROPOSED ROAD	---

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.

P.S. 834  
*Doyle Hupp Jr.*  
 HUPP Surveying & Mapping  
 P.O. Box 647 Grantsville, WV 26147  
 (304) 334-7035 EMAIL: hupp@trillmet.net



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE NOVEMBER 18 20 13  
 OPERATORS WELL NO. J.S. COCHRAN #6H  
 API WELL NO. 47-015-02895 H P  
 STATE COUNTY PERMIT

MINIMUM DGRF OF ACCURACY 1/2500 FILE NO. WV136 (BK66-25)  
 HORIZONTAL SOURCE SCAL 1" = 500'  
 OF ELEVATION DGPS (SUB-METER GRADE)

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

WELL TYPE: OIL  GAS  LIQUID WASTE IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,215' WATERSHED TRIBUTARY OF WADE FORK

DISTRICT UNION COUNTY CLAY QUADRANGLE ELKHURST 7.5'

SURFACE OWNER CHESIE CONNER, et al ACREAGE 53±

ROYALTY OWNER ALVIN ENGELKE, AGENT, et al LEASE ACREAGE 345.25±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BIG INJUN

ESTIMATED DEPTH 1VD- 2,150' MD- 5,200'

WELL OPERATOR CUNNINGHAM ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM  
 ADDRESS 3250 PENNSYLVANIA AVE. CHARLESTON, WV 26037 ADDRESS PENNSYLVANIA AVE. CHARLESTON, WV 26037

06/20/2014