



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

August 04, 2014

WELL WORK PERMIT

Horizontal Well

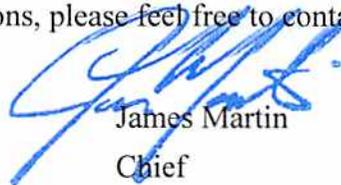
This permit, API Well Number: 47-1502900, issued to CUNNINGHAM ENERGY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: J.S. COCHRAN #9H
Farm Name: CONNER, CHESSIE ., ET AL
API Well Number: 47-1502900
Permit Type: Horizontal Well
Date Issued: 08/04/2014

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: CUNNINGHAM ENERGY, LLC 494508594 CLAY - 15 UNION - 5 ELKHURST 7.5
Operator ID County District Quadrangle

2) Operator's Well Number: J.S.COCHRAN 9H 3) Elevation: 1,215'

4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow

5) Proposed Target Formation(s): BIG INJUN Proposed Target Depth: 2100' TVD

6) Proposed Total Depth: 5,143' TMD Feet Formation at Proposed Total Depth: INJUN

7) Approximate fresh water strata depths: 200'

8) Approximate salt water depths: 1475' - 1525'

9) Approximate coal seam depths: NO COAL LISTED ON TITLE

10) Approximate void depths,(coal, Karst, other): NONE

11) Does land contain coal seams tributary to active mine? NONE

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
DRILL AND STIMULATE A NEW SHALLOW HORIZONTAL WELL. WE PLAN TO RUN THE PACKER PLUS SYSTEM HOWEVER IF THE LATERAL DOES NOT ALLOW THIS WE WILL RUN CEMENT TO SURFACE USING THE WEATHERFORD WET SHOE SYSTEM AND PERFORATE.

13) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	13"	LS	43.6 LBS	30	30	CTS
Fresh Water	9 5/8"	LS	26 LBS	400'	400'	CTS
Coal						
Intermediate	7"	J-55	20 LBS	2050 1775'	2050 1775'	CTS
Production	4 1/2"	N-80	11.6 LBS	5143'	5143'	PACKERS PLUS
Tubing						RECEIVED Office of Oil and Gas
Liners						MAY 22 2014

Packers: Kind: _____
Sizes: _____
Depths Set _____

WV Department of
Environmental Protection

1502900H



Mr. Jeffrey McLaughlin
WV DEP Office of Oil and Gas

Addendum to J.S. Cochran 7H, 8H & 9H

Mr. McLaughlin:

The following wells were identified for plugging and/or have already been plugged to prevent communication during the frac process on our planned horizontal wells

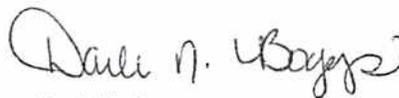
King #1 – 47-01502886 - plugged
King #4 – 47-01502894 – plugged
Harshbarger #1 – 47-01521377
Harshbarger #3 – 47-01521378
Harshbarger #5 – 47-01521379

The following wells are producing wells at the same elevation that we have removed all surface equipment from and replaced with valves which we will monitor during both drilling and fracking:

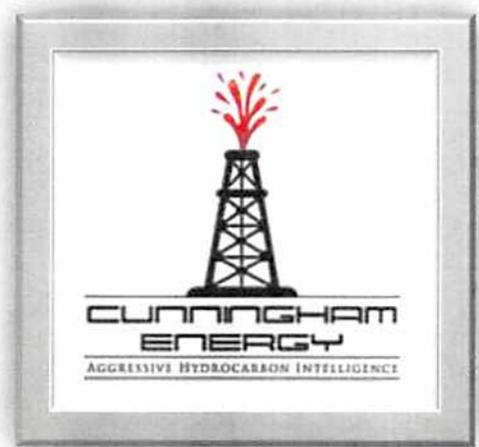
Harshbarger 1A – 47-01502884
J.S. Cochran #1 – 47-0150684
J.S. Cochran #2 – 47-01502883
J.S. Cochran #3 – 47-01502888
King #5 – 47-01502882
King #6 – 47-01502881
King #14 – 47-01502890
Young #2 – 47-0150688
Connell Heirs #18 – 47-0150708 – We are working with Rouzer on this monitoring.
King #1 – 47-01500704 – We have sent notice to Charles Young via Certified Mail on 5/12/2014 and are working with him to proceed with this monitoring this well.

In the opinion of Jim Rose, Petroleum engineer with Producers Service Corp, the treating pressures will be around 3500 psi. They will be using small stages at low rates.

Sincerely,



Danielle Boggs
Cunningham Energy, LLC



Cochran #9H Frac Design

- 15 Stages (every 200' in the lateral)
- 300 bbl Water/Stage
- 25,000 lbs Sand/Stage
- 30 bbl/Minute Downhole Rate

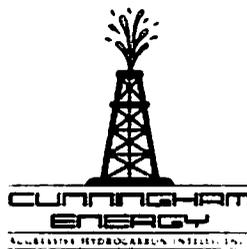
Approved
4-8-14

*FRAC PRESSURE LIMITED
TO 3000 PSI*

Received

APR 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



Mr. Jeffrey McLaughlin
WV DEP Office of Oil and Gas

Re: Horizontal Well Permit Applications
JS Cochran 7H; 8H; 9H

Mr. McLaughlin:

The following wells have been identified for plugging before fracking can commence on our planned shallow horizontal JS Cochran 7H; 8H and 9H:

Harshbarger #1/D.H. Stephenson #1 – 47-01501377
Harshbarger #3/D.H. Stephenson #3 – 47-01501378
Harshbarger #5/D.H. Stephenson #5 – 47-01501379

Plugging permit applications have been prepared and we are awaiting approval by Inspector Gainer to submit for full approval.

The following wells are producing wells at the same elevation that we plan to remove surface equipment from if not rated for the frac pressure we plan to run, we will replace this surface equipment with valves during the planned fracs and monitor these locations:

Harshbarger 1A – 47-01502884
J.S. Cochran #1 – 47-0150684
J.S. Cochran #2 – 47-01502883
J.S. Cochran #3 – 47-01502888
King #5 – 47-01502882
King #6 – 47-01502881
King #14 – 47-01502890
Young #2 – 47-0150688

In the opinion of Jim Rose, Petroleum engineer with Producers Service Corp, the treating pressures will be around 3000 psi. They will be using small stages at low rates.

Third party wells have been identified and producers are being contacted.

Sincerely,

Danielle Boggs
Cunningham Energy, LLC

Received

APR 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



Cunningham Energy, LLC
 Clay County, WV
 Cochran Pad
 No. 9H
 Plan #1
 GL: 1215'



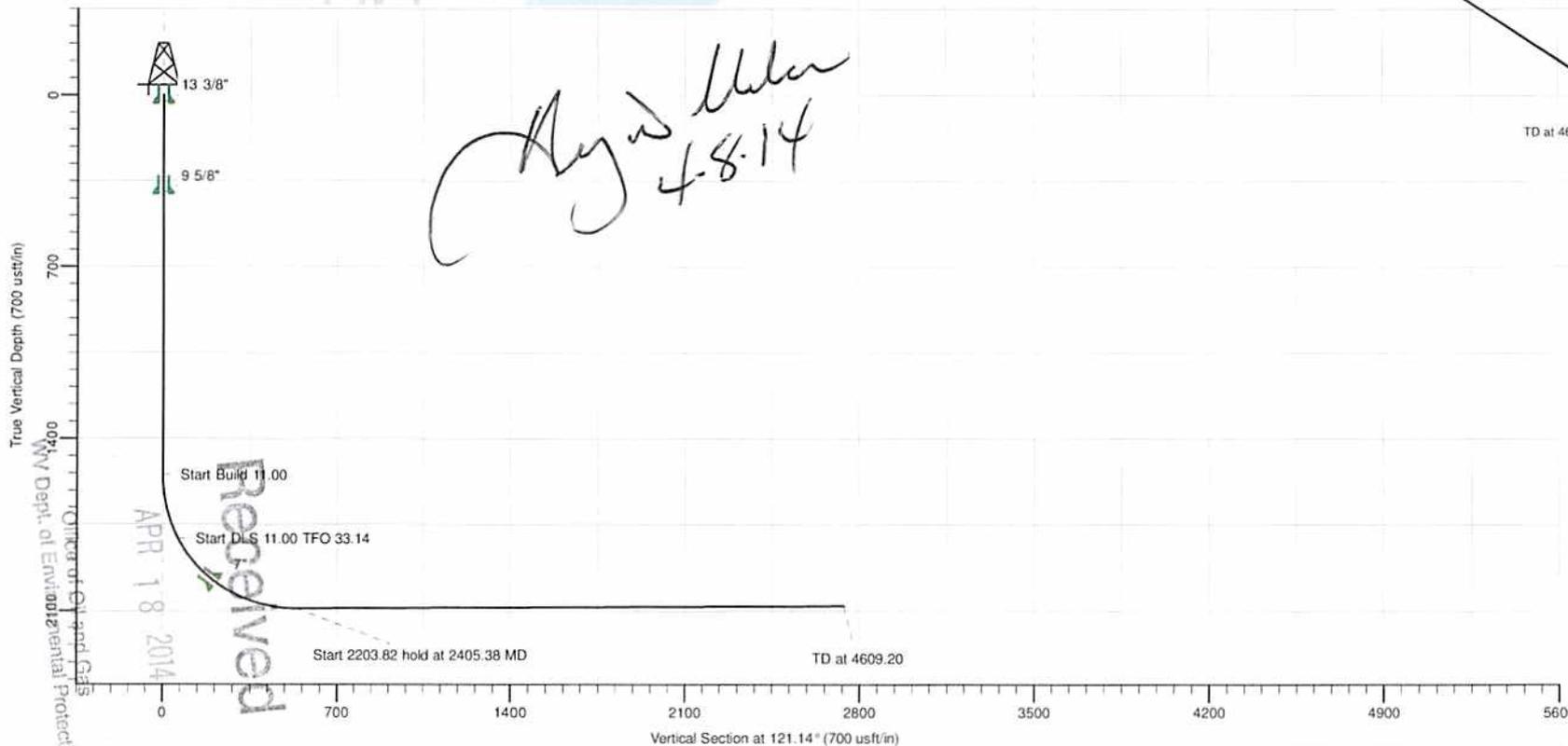
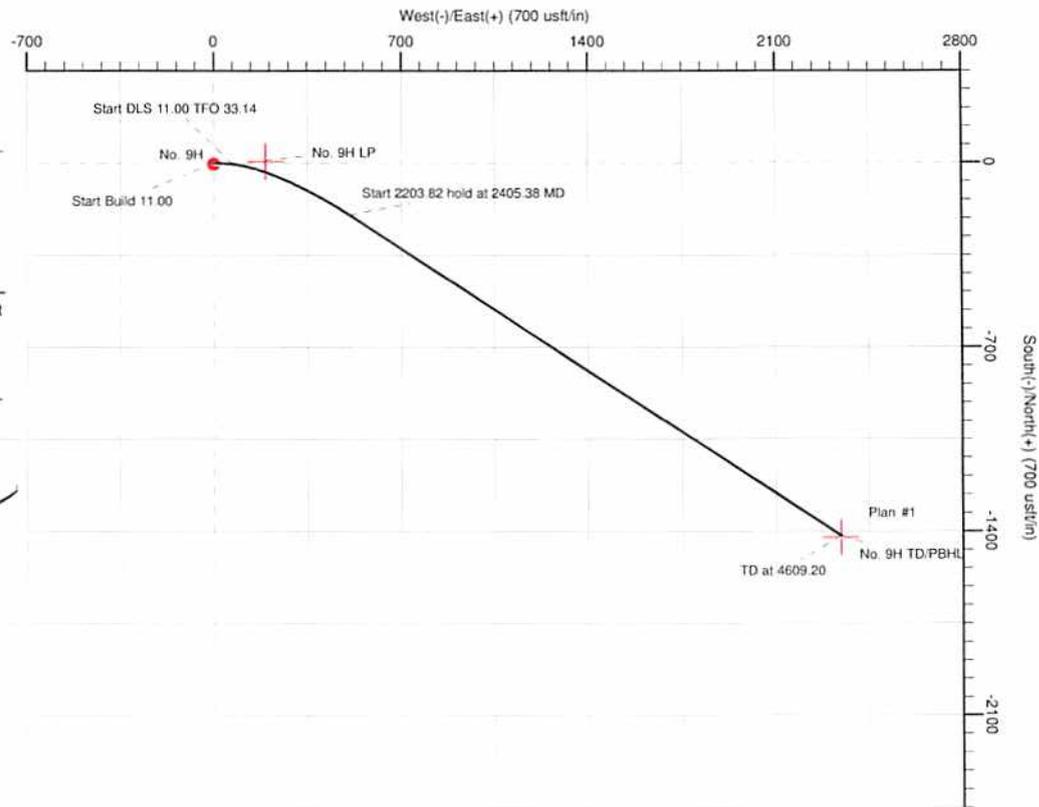
US State Plane 1927 (Exact solution)
 NAD 1927 (NADCON CONUS)
 Clarke 1866
 West Virginia North 4701
 Mean Sea Level

RKB Elevation: WELL @ 1215.00usft (GL: 1215')

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	519883.00	1936824.00	39°55' 37.715 N	79°43' 30.946 W	

Section Details

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1546.61	0.00	0.00	1546.61	0.00	0.00	0.00	0.00	
1819.34	30.00	94.00	1807.05	-4.87	69.61	11.00	62.10	
2405.38	90.25	123.56	2090.01	-197.87	507.10	11.00	536.35	
4609.20	90.25	123.56	2080.21	-1416.13	2343.56	0.00	2738.19	No. 9H TD/PBHL

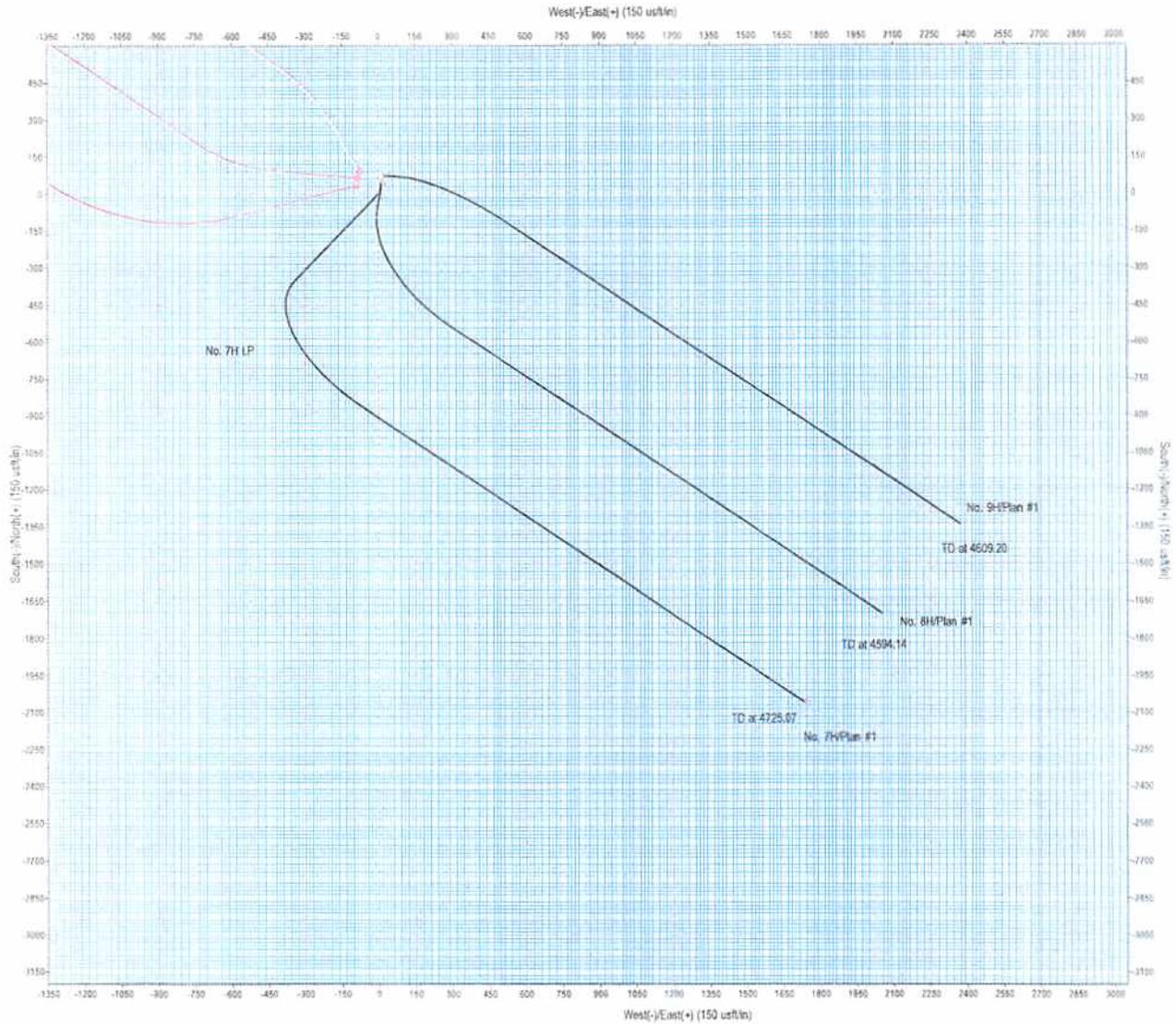


WV Dept. of Environmental Protection
 APR 18 2014
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47015029001



Cunningham Energy, LLC
Clay County, WV
Cochran Pad
No. 7H
Plan #1
GL: 1215'



Received

APR 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



Mr. Jeffrey McLaughlin
WV DEP Office of Oil and Gas

Re: J.S. Cochran 4H, 5H, 6H, 7H, 8H and 9H Application Requests

Mr. McLaughlin:

The following wells have been identified for plugging before fracking can commence on our planned shallow horizontal wells in Clay County:

King #1 – 47-01502886 – Plugging Permit pending.

King #4 – 47-01502894 – Plugging Permit Issued.

Plugging permit applications have been approved by Inspector Gainer and have been submitted for full approval.

The following wells are producing wells at the same elevation that we plan to remove surface equipment from if not rated for the frac pressure we plan to run, we will replace this surface equipment with valves during the planned fracs and monitor these locations:

Harshbarger 1A – 47-01502884

J.S. Cochran #1 – 47-0150684

J.S. Cochran #2 – 47-01502883

J.S. Cochran #3 – 47-01502888

King #5 – 47-01502882

King #6 – 47-01502881

King #14 – 47-01502890

Young #2 – 47-0150688

King #1 – 47-01500704 – This well was previously identified for plugging however after review of the casing schedule we believe that this well can be monitored. We have sent notice to Charles Young via Certified Mail on 5/12/2014 and will work with him in any way to proceed with this monitoring.

RECEIVED
Office of Oil and Gas
MAY 22 2014

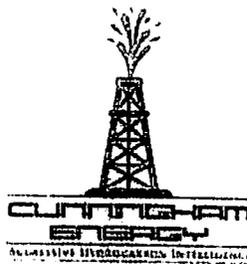
In the opinion of Jim Rose, Petroleum engineer with Producers Service Corp, the treating pressures will be around 3000 psi. They will be using small stages at low rates.

WV DEP
Environmental Protection

All other third party wells were identified and producers were previously contacted.

Sincerely,

Danielle Boggs
Cunningham Energy, LLC



Mr. Charles W. Young
Charles W. Young Construction Services
29 Apple Valley Drive
Bomont, WV 25030
Certified Mail #: 7012 3460 0002 4924 2523

April 24, 2014

Re: George King #1
API #47-0150704

Dear Mr. Young –

We would ask that this letter serve as notice that Cunningham Energy, LLC plan to fracture 3 new shallow horizontal wells on our J.S. Cochran Lease which falls within 500 ft. of one of your currently operational wells, listed as the George King #1 assigned API #47-0150704. I have attached the original well record as provided by the DEP for your reference.

We are still in the process of drilling these wells and will give you a definitive frac date when that becomes available. However, by order of the WV DEP OOG we ask that during the frac process you monitor your well for any possible communication issues. We will be doing the same in the area at that time on our existing wells to prevent the same.

If you should have any further questions or concerns, please feel free to contact our office. Thank you for your time and attention to this matter.

Sincerely,

Danielle N. Boggs
Operations Manager
Cunningham Energy, LLC

1502900H

7012 3460 0002 4924 2523

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Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees			

CHARLESTON WV MPO 25303
MAY 12 2014

K-1 (704)

Sent To _____
 Street, Apt. No.,
 or PO Box No. _____
 City, State, ZIP+4 _____

Mr. Charles W. Young
Charles W. Young Construction
29 Apple Valley Drive
Bomont, WV 25030

PS Form 3800, August 2005 See Reverse for Instructions

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
ALVIN ENGELKE, AGENT	CUNNINGHAM ENERGY, LLC	1/8	21/1065; 21/1189

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By:Its:

RYAN E.M. CUNNINGHAM
CUNNINGHAM ENERGY, LLC
PRESIDENT

Received

APR 13 2011

WW-2A
(Rev. 6-07)

1). Date: MARCH 11, 2014
2.) Operator's Well Number J.S. COCHRAN #9H
State 47- County 015 Permit -
3.) API Well No.:

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>CHESSIE CONNER, ET AL</u>	Name _____
Address <u>1412 SATTES CIRCLE</u>	Address _____
<u>NITRO, WV 25143</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 TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.



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 15th day of MARCH April, 2014

Danielle N. Bays Notary Public
My Commission Expires FEBRUARY 10, 2015

Received
APR 18 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

7012 3460 0002 4924 4893

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Return Receipt Fee (Endorsement Required)		270
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	761

Postmark Here
APR 18 2014

9-H

Sent To _____
 Street, Apt. No., or PO Box No. **Chessie Conner, et al** _____
 City, State, ZIP+4 **1412 Sattes Circle** _____
Nitro, WV 25143 _____



Received

APR 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

To Whom It May Concern:

I, Peggy Conner, heir to the Chessie Conner Estate, do hereby authorize Jean Miller as my Agent in any and all business, decisions and other legal matters pertaining to the real estate located in Union District, Clay County WV better described as Tax Map 17 Parcel 54 and any other lands that Cunningham Energy operates.

Peggy Conner
Peggy Conner

WITNESS the due execution hereof, this 16 day of January, 2014.

M. Arndt
Witness

RECEIVED
Office of Oil and Gas
JUL 28 2014
WV Department of
Environmental Protection

1502900H

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County CLAY Operator CUNNINGHAM ENERGY, LLC
Operator well number J.S. COCHRAN 9H

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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

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 FIFTEEN (15) 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 a 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through 4, including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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.

RECEIVED
Office of Oil and Gas
MAY 28 2014

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Jean E. Miller
Signature

Date 5-9-14

Company Name
By
Its
Date

Jean Miller
Print Name

Signature Date

4701502900H

HUPP Surveying & Mapping

P.O. BOX 647

GRANTSVILLE, WV 26147

(304) 354-7035 hupp@frontiernet.net FAX: (304) 354-6548

February 12, 2014

RE: Water Samples for J.S. Cochran #9H

There appears to be one (1) potable water sources within 1,500' of J.S. Cochran #9H, therefore tests should be offered and samples taken as required.

- ✓ 1. Thomas Rickmers
1484 Shelton Rd.
Bomont, WV 25030
Tax Map 18 Parcel 4

WILL TEST.

Received

APR 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

4701502900H

7012 3460 0002 4924 4916

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BOMONT WV 25030

Postage	\$ 0.49	0701
Certified Fee	\$ 3.30	29
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 6.49	03/13/2014

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

PS Form 3800, August 2006 See Reverse for Instructions

OFFICIAL USE
 CHARLESTON WV 25301
 MAR 20 2014
 USPS

9-H

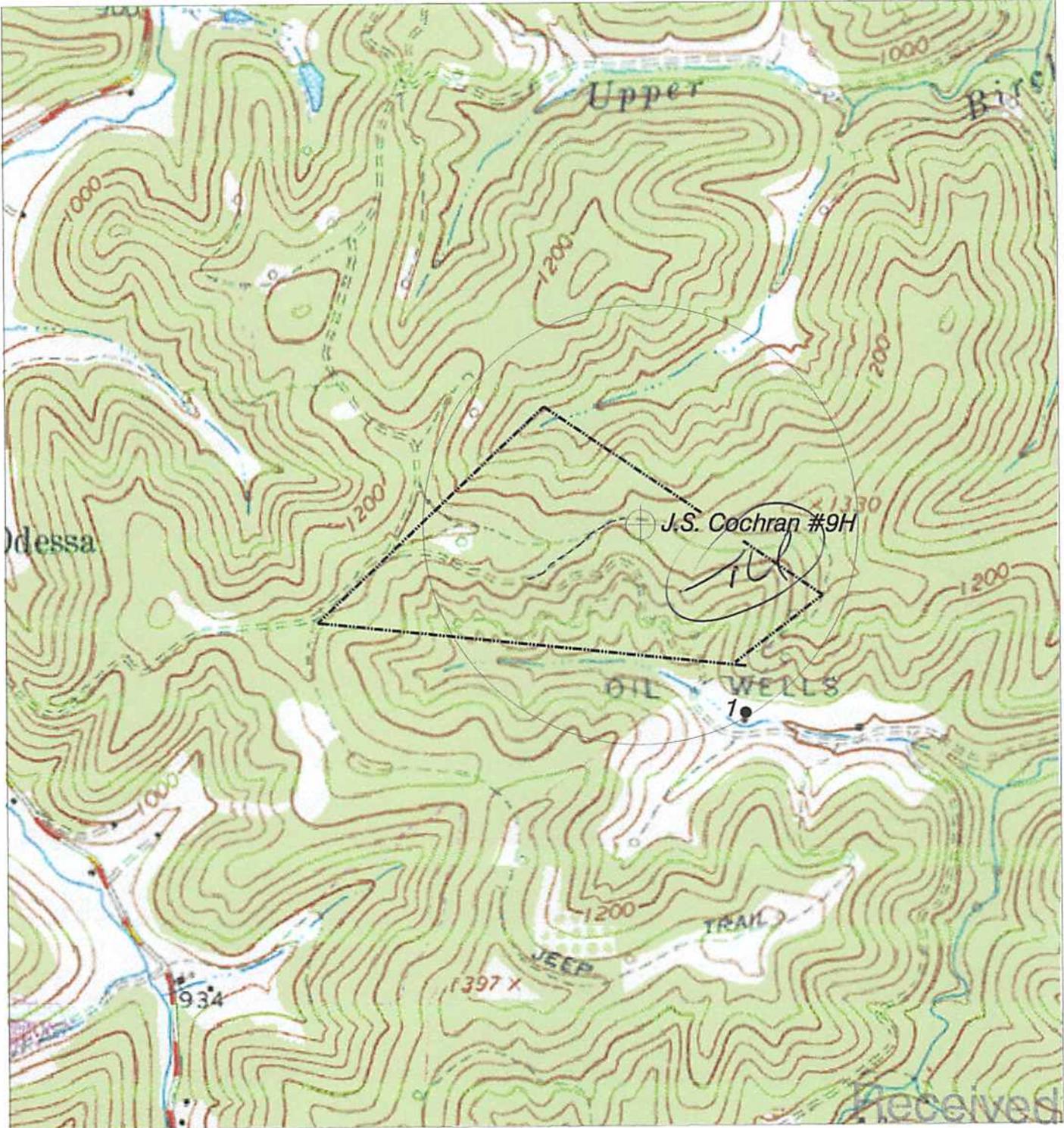


Received

APR 18 2014

Office of Oil and Gas
 West Virginia Department of Environmental Protection

CUNNINGHAM ENERGY J.S. Cochran #9H Water



NORTH

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'
Elkhurst Quad

APR 18 2014
 Cunningham Energy, LLC.
 3230 Pennsylvania Ave.
 Charleston, WV 25302
 Office of Oil and Gas
 Dept. of Environmental Protection

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 494508594

Watershed (HUC 10) TRIBUTARY OF WADE FORK Quadrangle ELKHURST 7.5'

Elevation 1,215' County CLAY District UNION

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: DRILL CUTTINGS, FLUIDS FROM DRILLING AND FRACTURING

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 30 MIL.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0392210 - IF NEEDED)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? NO

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR; FRESHWATER

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? SOAP; KCL and/or CLAY STABILIZER

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT/ HAUL IF NEEDED

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) CEMENT & LIME

-Landfill or offsite name/permit number? CITY OF CHARLESTON LANDFILL

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]

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

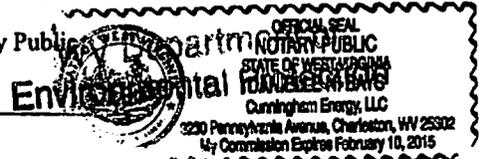
Company Official Title PRESIDENT

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 9th day of MAY, 20 14 MAY 28 2014

[Signature] Notary Public [Signature]

My commission expires 05/12/2014



Form WW-9

Operator's Well No. J.S. COCHRAN 9H

CUNNINGHAM ENERGY, LLC

Proposed Revegetation Treatment: Acres Disturbed 2.8 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	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:

Sediment protection shall be in place at all times.

Title:

Inspector

Date:

5/15/14

Field Reviewed?

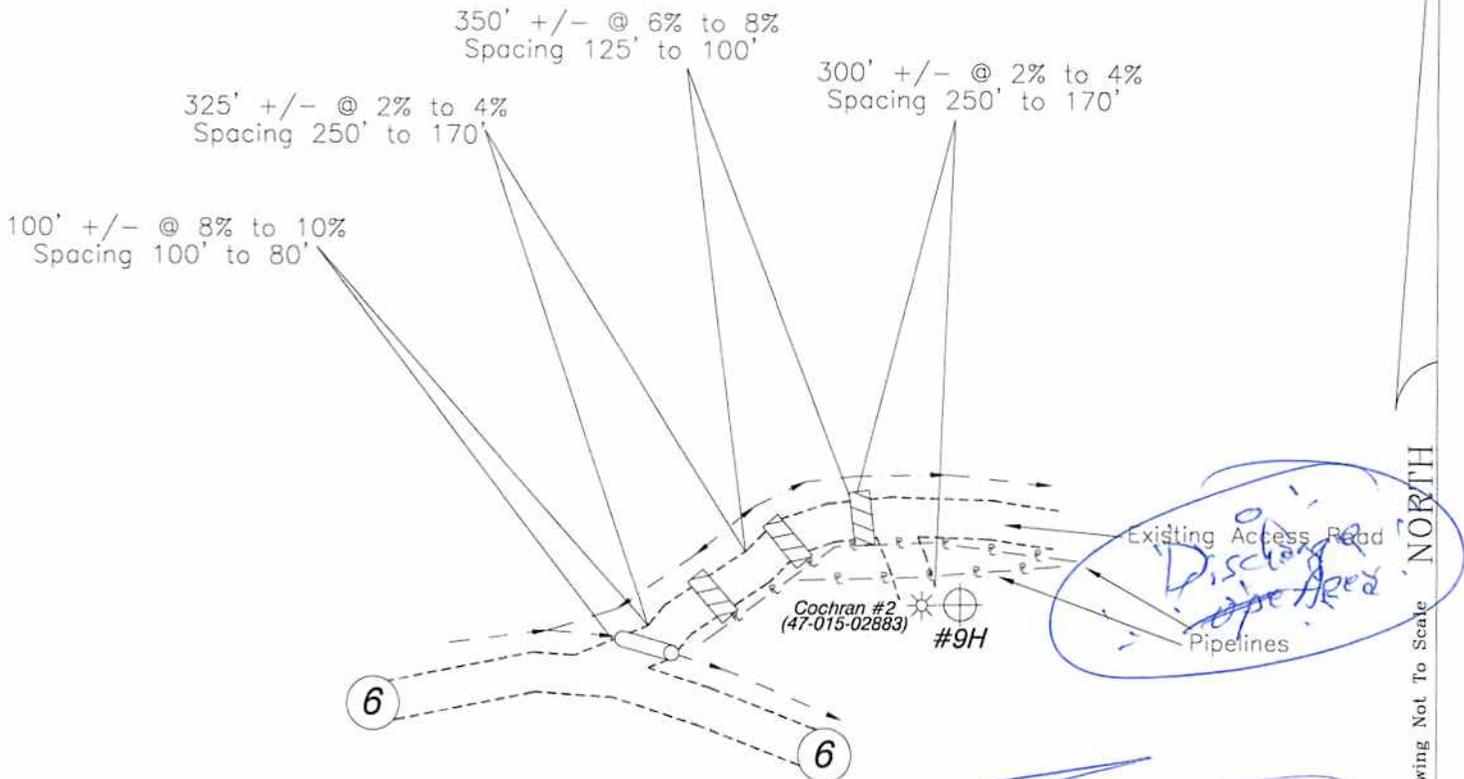
Yes

No

CUNNINGHAM ENERGY, LLC. J.S. COCHRAN #9H

Form W-9

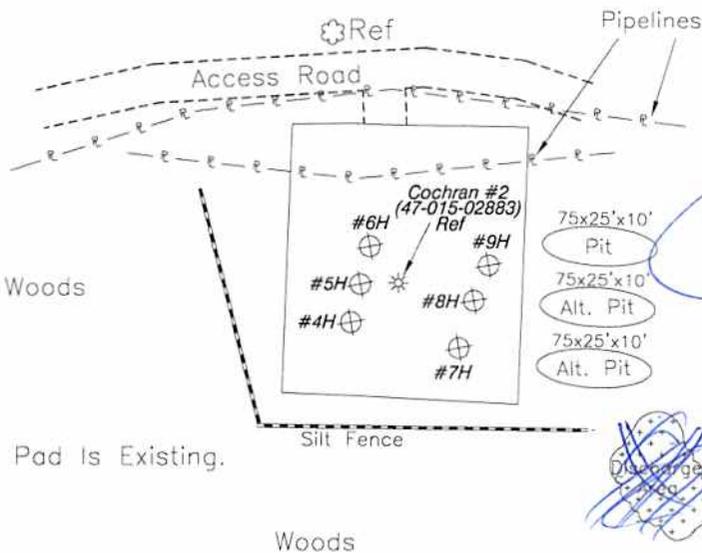
Page 1 of 1



[Handwritten Signature]
5/15/14

Drawing Not To Scale NORTH

Detail Sketch for J.S. Cochran #9H



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

RECEIVED
Office of Oil and Gas
Install Minimum 12" Culvert
MAY 22 2014
WV Department of Environmental Protection

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

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 D.E.P. OIL AND GAS BMP MANUAL. CONSTRUCTION OF THESE STRUCTURES (BEDROCK) MAY PROHIBIT INLET GRILLS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

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

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

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

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

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Drafted BY:

Date Drafted:

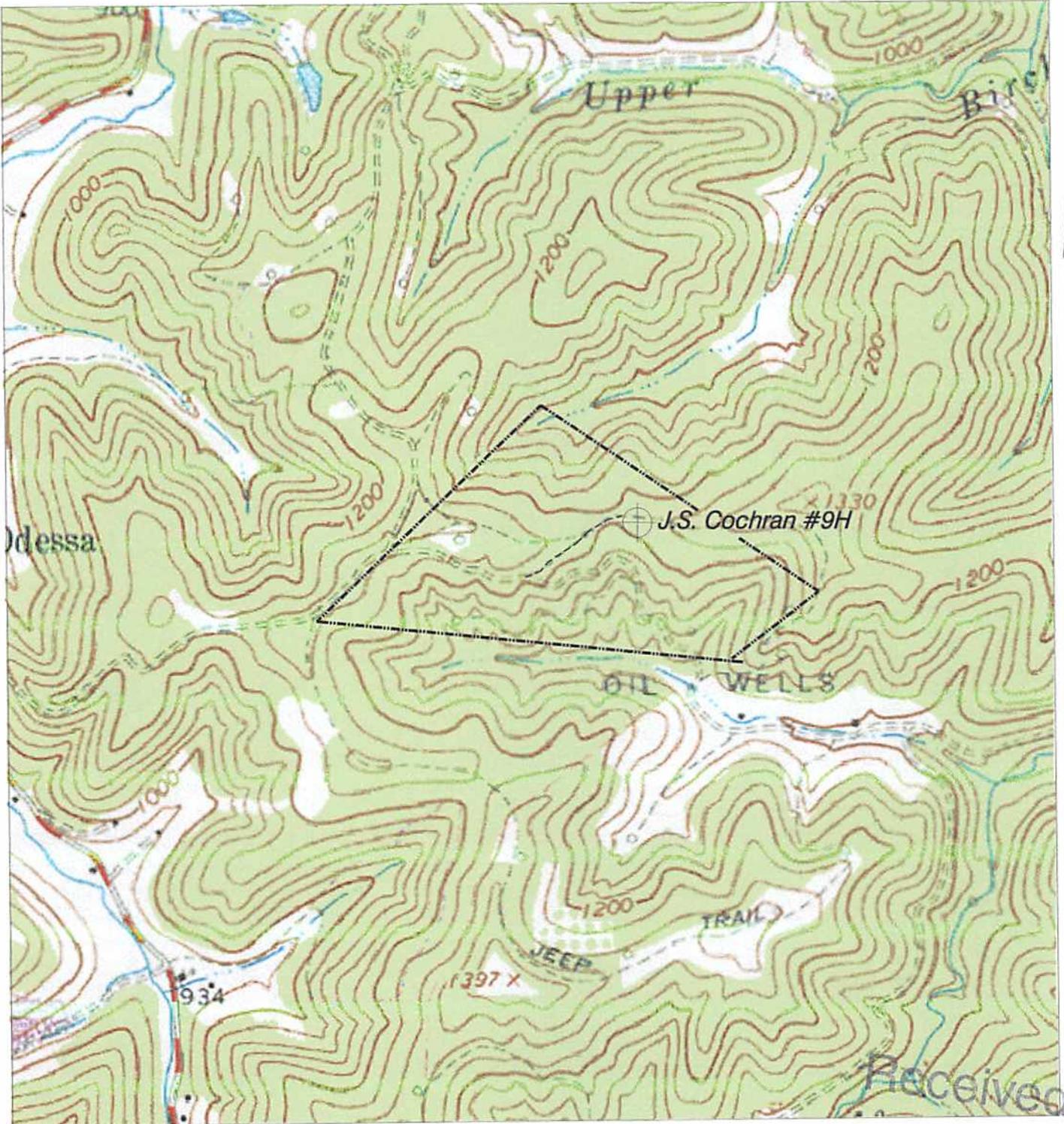
Job Number:

DB

05/06/14

W20122136

CUNNINGHAM ENERGY J.S. Cochran #9H



NORTH

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Office of Oil and Gas
Dept. of Environmental Protection

APR 18 2014

J.S. COCHRAN #9H

CONNER, ET AL
53 ACRES±
MAP 17
PARCEL 54

J.S. COCHRAN #9H
AZI-87°
N 87° E
19±
47-015-02883
S 79° W
83'

J.S. COCHRAN #9H SURFACE HOLE		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 519883	38.42754	4253267
(E) 1936824	81.22053	460765

J.S. COCHRAN #9H LANDING POINT		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 519893	38.42756	4253290
(E) 1937018	81.21986	480824

J.S. COCHRAN #9H BOTTOM HOLE		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 518461	38.42365	4252854
(E) 1939164	81.21235	481478

NOTES ON SURVEY

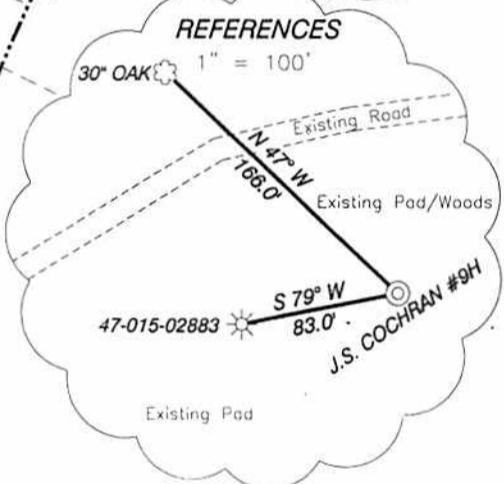
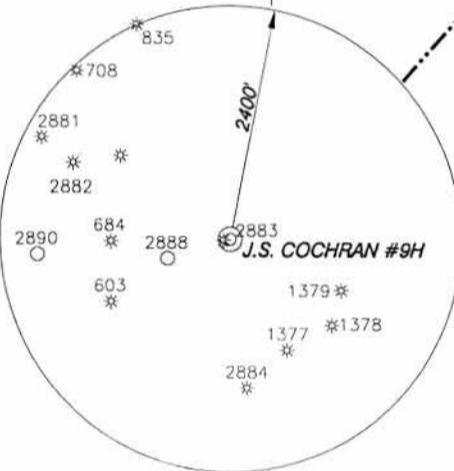
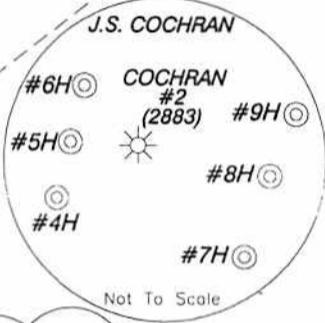
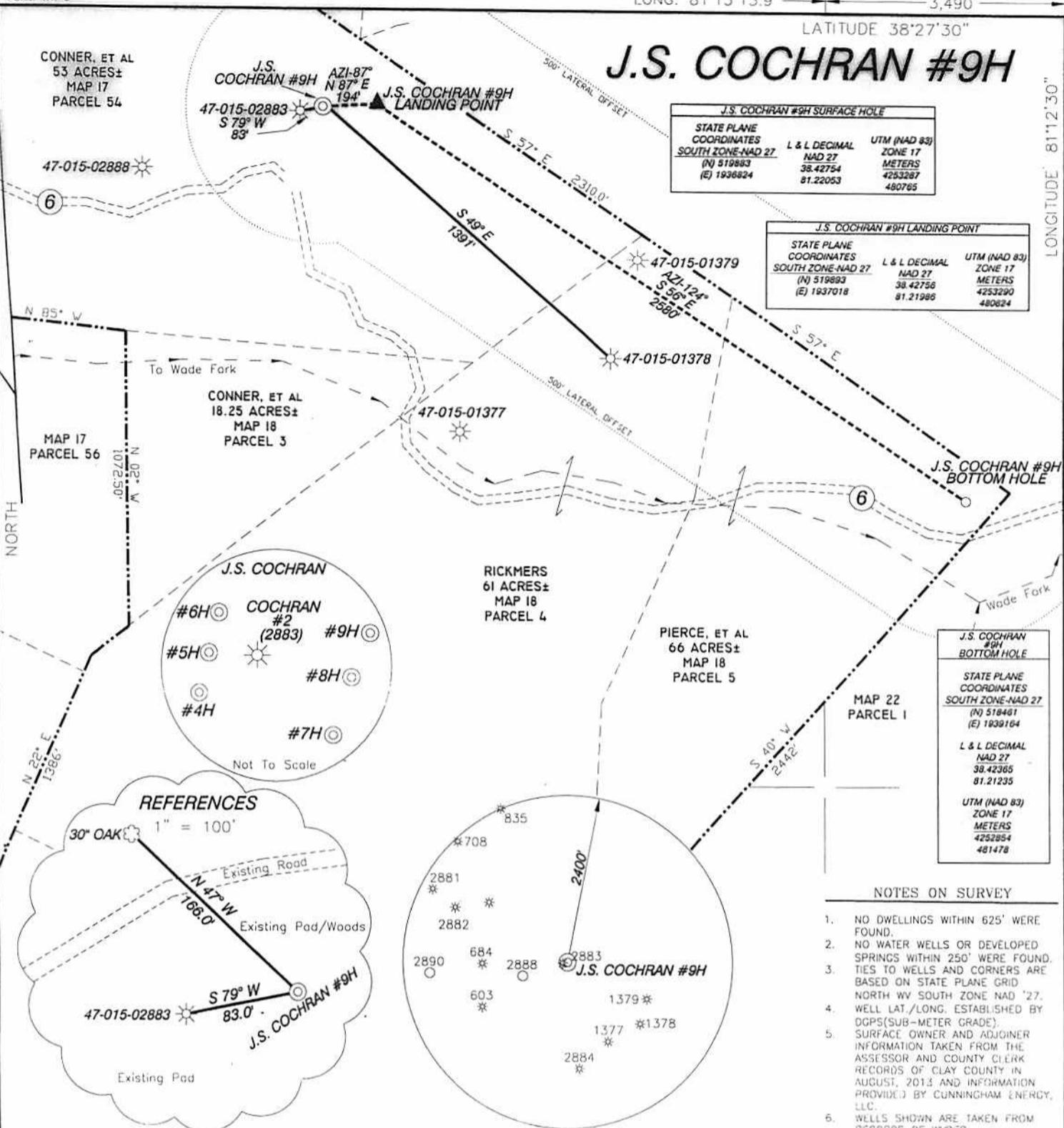
1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY SOUTH ZONE NAD '27.
3. WELL LAT./LONG. ESTABLISHED BY DGPS(SUB-METER GRADE).
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN AUGUST, 2013 AND INFORMATION PROVIDED BY CUNNINGHAM ENERGY, LLC.
5. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

NORTH

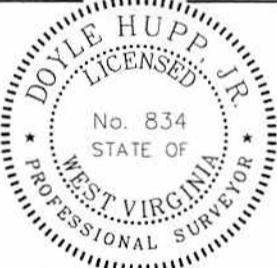
LONGITUDE 81°12'30"

11,250'

LAT. 38°25'39.1"



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 12, 20 14
 OPERATORS WELL NO. J.S. COCHRAN #9H
 API WELL NO. 47-015-02900 H
 STATE COUNTY PERMIT

P.S. 834

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MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2136(BK66-25)
 PROVEN SOURCE OF ELEVATION DGPS(SUB-METER GRADE) SCALE 1" = 500'

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



WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL 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 CHESSIE CONNER, et al ACREAGE 53±
 ROYALTY OWNER ALVIN ENGELKE, AGENT, et al LEASE ACREAGE 180±
 PROPOSED WORK : LEASE NO. _____
 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 TVD- 2,150' MD-5,200'

WELL OPERATOR CUNNINGHAM ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM
 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

COUNTY NAME

PERMIT