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**west virginia** department of environmental protection

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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. Huffiman, Cabinet Secretary  
www.dep.wv.gov

August 19, 2014

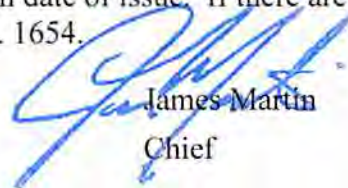
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5100824, issued to PERKINS OIL & GAS INC, 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. L. RUCKMAN 1  
Farm Name: RUCKMAN, JOHN L.  
**API Well Number: 47-5100824**  
**Permit Type: Plugging**  
Date Issued: 08/19/2014

**Promoting a healthy environment.**

**08/22/2014**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's  
Well No. Ruckman No. 1  
3) API Well No. 47-051 - 09824-N

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

5) Location: Elevation 1,159' Watershed Tributary of Rocky Fork of Whetstone Creek  
District Franklin County Marshall Quadrangle Powhatan Point 7.5'

6) Well Operator Perkins Oil & Gas, Inc. 7) Designated Agent Clinton Perkins  
Address P.O. Box 547 Address P.O. Box 547  
Pennsboro, WV 26415 Pennsboro, WV 26415

8) Oil and Gas Inspector to be notified Name James Nicholson  
Address P.O. Box 44  
Moundsville, WV 26041  
9) Plugging Contractor Name Perkins Oil & Gas, Inc.  
Address P.O. Box 547  
Pennsboro, WV 26415

10) Work Order: The work order for the manner of plugging this well is as follows:  
Plug No. 1 - approx 2,768'-2,668', rip and pull 3" casing at approx 2,000'  
Plug No. 2 - approx 2,050'-1,950', rip 6-5/8" at approx 1,140' (elevation)  
Plug No. 3 - approx 1,200'-1,100', rip 6-5/8" at approx 752' (Pittsburgh coal)  
Plug No. 4 - approx 800'-700', rip and pull 6-5/8" casing at approx 500', rip and  
pull 8" casing at approx 300'  
Plug No. 5 - approx 250'-350' and Plug No. 6 - approx 100'-surface  
Erect Monument with API No., 6% gel between all cement plugs, cement plugs  
are Class A

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

Work order approved by inspector James Nicholson

Date 6/18/2014  
Office of Oil and Gas  
JUN 26 2014

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

Well Operator's Report of Well Work

Farm name: RUCKMAN, Jehu L.

Operator Well No.: J.L.RUCKMAN #1

LOCATION: Elevation: 1,140.00 Quadrangle: NEW MARTINSVILLE

District: FRANKLIN County: MARSHALL  
Latitude: 250 Feet South of 39 Deg. 45Min. 0 Sec.  
Longitude 900 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: PERKINS OIL & GAS, INC.  
P. O. BOX 547  
PENNSBORO, WV 26415-0547

Agent: DERYL L. PERKINS

Inspector: RANDAL MICK  
Permit Issued: 07/24/95  
Well work Commenced: July 1, 1904  
Well work Completed: Aug. 21, 1904  
Verbal Plugging  
Permission granted on:  
Rotary Cable X Rig  
Total Depth (feet)  
Fresh water depths (ft)  
Salt water depths (ft)

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10"	1075'	0'	
8"	1515'	560'	
6-5/8"	2020'	2020'	
3"	2768'	2768'	

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 335' - 337'  
450' - 452'  
664' - 668'  
OPEN FLOW DATA 750' - 754'

Producing formation GORDON Pay zone depth (ft) 2750' - 2760  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow MCF/d Final open flow Bbl/d  
Time of open flow between initial and final tests Hours  
Static rock Pressure psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)  
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d  
Final open flow MCF/d Final open flow Bbl/d  
Time of open flow between initial and final tests Hours  
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PERKINS OIL & GAS, INC.

By: DERYL L. PERKINS, Vice-president  
Date: August 20, 1997

Tri-State Gas Co. The Manufacturers Light & Heat Co.

5100824 P

Division Proctor, W. Va.

Farmers Bank Building, Pittsburg, Penna.

Record of Well No. One on Jehu Ruckman.

Farm 100 Acres

Proctor, Field Franklin, District Township Marshall

County W. Va., State

Rig commenced 190 , Completed 190

Drilling commenced July 1" 1904 , Completed August, 21" 1904

Cost per foot \$1.25 Contractor Cushing & Cushing Address Sistersville, W.

Drillers' names C. E. Lindsley- Geo. Dyer Jr.

BOILER			ENGINE				RIG		
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder
25		F & T	25		Eureka	Yes		84'	A. R. Davis

CONDUCTOR AND CASING USED IN DRILLING

Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 1/2 inch	5 3/4 inch	5 3-16 inch	5 inch	4 inch	
13		1075	1515	2020						

CONDUCTOR AND CASING LEFT IN WELL

Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 1/2 inch	5 3/4 inch	5 3-16 inch	5 inch	4 inch	3 inch
13			560	2020						2768

OIL WELL

GAS WELL

When Shot	Size of Torpedo	1st day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Facked With	1st Minute's Pressure	Rock Press.
						3x6 1/4x20	2505	3" tubing	160#	400

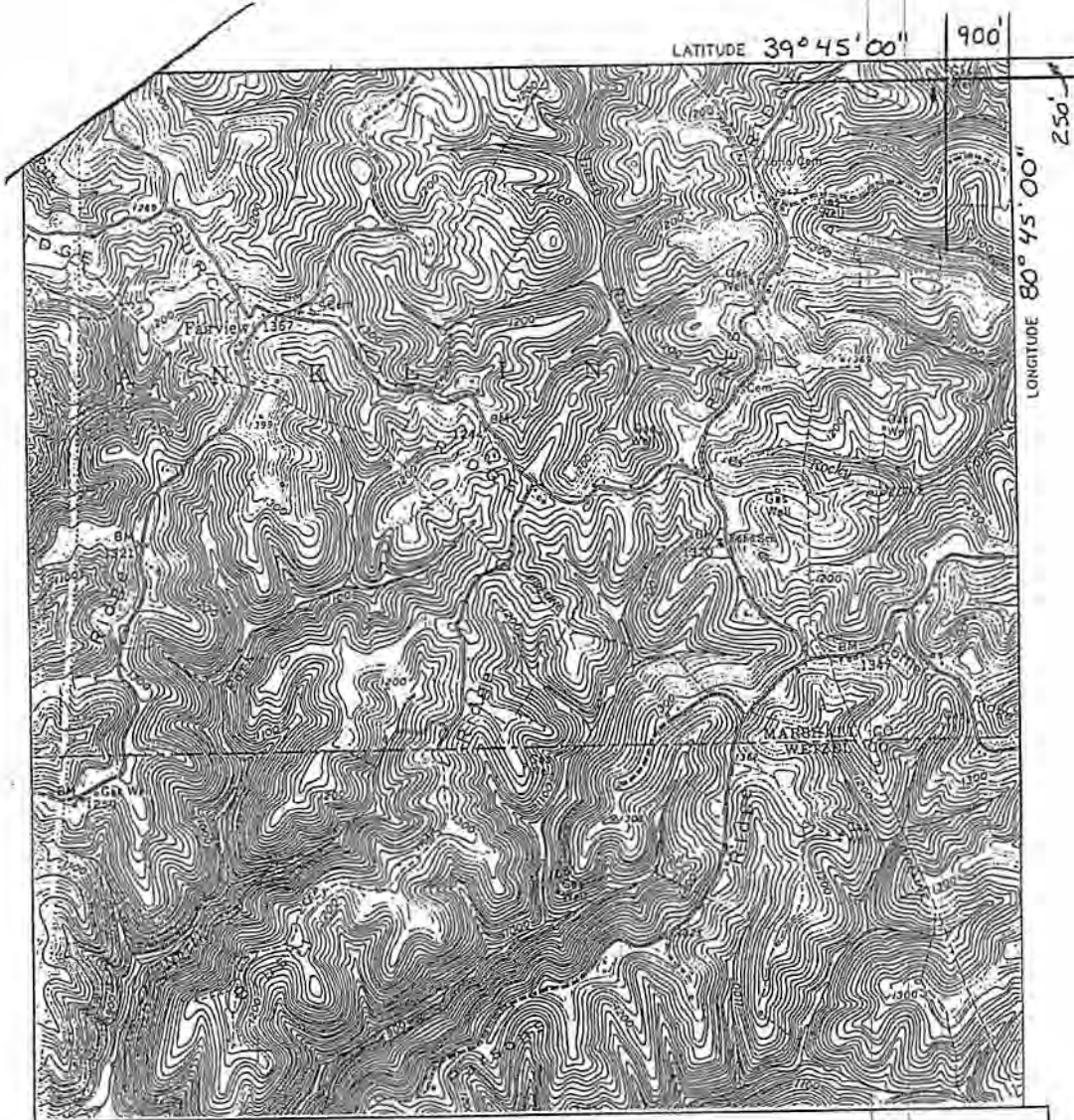
FORMATION

Top Bottom Thickness

REMARKS

Native Coal,	335	337	2		
" " 2nd	450	452	2		
Mapletown "	664	668	4		
Pittsburg "	750	754	4		
Little Dunkard	1075	1095	20		
Big "	1250	1265	15		
Salt sand	1490	1530	40	And water,	
Big Lime	1800	1860	60		
" Injun	1860	2120	260		
Gordon sand	2750	2760	10	and gas,	
Completed		2768			

5100824P



20752 I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNED \_\_\_\_\_  
 TITLE Deryl Perkins - VICE PRESIDENT

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

DATE March 27 19 95  
 FARM John L. Ruckman NO. 1  
 API WELL NO. 0824-N  
47-051

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1140' Topo WATERSHED Rocky Fork  
 DISTRICT Franklin COUNTY Marshall  
 QUADRANGLE New Martinsville 509

SURFACE OWNER Unknown ACREAGE ?  
 OIL & GAS ROYALTY OWNER Unknown LEASE ACREAGE 100 Ac.  
 LEASE NO. \_\_\_\_\_

PRODUCING FORMATION \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_  
 WELL OPERATOR Perkins Oil & Gas 37500 DESIGNATED AGENT Deryl Perkins  
 ADDRESS P.O. Box 547 ADDRESS P.O. Box 547  
Benches, West Virginia 26415

RECEIVED  
 Environmental Protection  
 JUN 19 1995  
 Permitting  
 Office of Oil & Gas

51008 24P  
ck# 17963  
\$100.00

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
Ruckman No. 1 \_\_\_\_\_  
3) API Well No.: 47 - 051 - 00824-N

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 Vicki Bowen <i>W</i>	Name _____
Address 6676 Rines Ridge Road	Address _____
Proctor, WV 26055	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name CNX Land Resources <i>✓</i>
_____	Address 1000 Consol Energy Drive
_____	Canonsburg, PA 15317
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector James Nicholson	(c) Coal Lessee with Declaration
Address P.O. Box 44	Name _____
Moundsville, WV 26041	Address _____
Telephone 304-552-3874	_____

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.

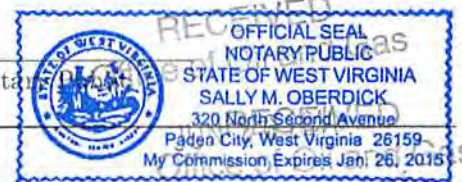
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 Perkins Oil & Gas, Inc.  
 By: Clinton Perkins *CLP*  
 Its: Designated Agent  
 Address P.O. Box 547  
 Pennsboro, WV 26415  
 Telephone 304-684-2113

Subscribed and sworn before me this 20th day of June, 2014

My Commission Expires January 26, 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).

WV Department of Environmental Protection  
08/22/2014

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Ruckman No. 1

**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,  
Office of Oil and Gas

Wanda J. Ruckman Date 5-31-10  
Signature

Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Date 08/22/2014



5100824P

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p><b>CNX LAND RESOURCES, INC.          1000 CONSOL ENERGY DRIVE          CANONSBURG, PA 15317</b></p> <p>RECEIVED JUN 2 2014</p>	<p>B. Received by (Printed Name)  <i>G. Heff</i></p>	<p>C. Date of Delivery          JUN 2 2014</p>
<p>2. Article Number  <i>(Transfer from service label)</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>7013 3020 0001 3396 6882</p> <p>PS Form 3811, July 2013 Domestic Return Receipt</p>		

PITTSBURGH  
 UNITED STATES POSTAL SERVICE  
 JUN 15 2014  
 #8207/8208 1

First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

\* Sender: Please print your name, address, and ZIP+4® in this box®

**SMITH LAND SURVEYING, INC.  
 ATTENTION: DEANNA MCVICKER  
 PO BOX 150  
 GLENVILLE, WV 26351**

RECEIVED  
 Office of Oil and Gas  
 JUN 26 2014  
 WV Department of  
 Environmental **08/22/2014**

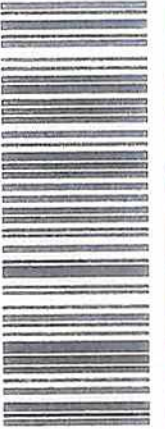
#8207 & #8208

7013 3020 0001 3396 6882

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<b>CERTIFIED MAIL™ RECEIPT</b>	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
Postmark Here	
Sent To <b>CNX LAND RESOURCES, INC.</b>	
Street, Apt. No. or PO Box No. <b>1000 CONSOL ENERGY DRIVE</b>	
City, State, ZIP+4 <b>CANONSBURG, PA 15317</b>	
PS Form 3800, August 2005 <span style="float: right;">See Reverse for Instructions</span>	

5700824P

7013 3020 0001 3396 6882



**SMITH LAND SURVEYING, INC.**  
 P.O. Box 150  
 Glenville, WV 26351

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**TO:**  
 CNX LAND RESOURCES, INC.  
 1000 CONSOL ENERGY DRIVE  
 CANONSBURG, PA 15317



UNITED STATES POSTAGE  
 \$ 007.8  
 02 1P  
 0808905199 JUN 17 2  
 MAILED FROM ZIP CODE 26

08/22/2014

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 Perkins Oil & Gas, Inc. OP Code 308124

Watershed Tributary of Rocky Fork of Whetstone Creek Quadrangle Powhatan Point 7.5'

Elevation 1,159' County Marshall District Franklin

Description of anticipated Pit Waste: Drill Water, Frac Blow Back, and Various Formation Cuttings

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 *Clinton Perkins*

Company Official (Typed Name) Clinton Perkins

Company Official Title Designated Agent

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Office of Oil and Gas  
JUN 26 2014

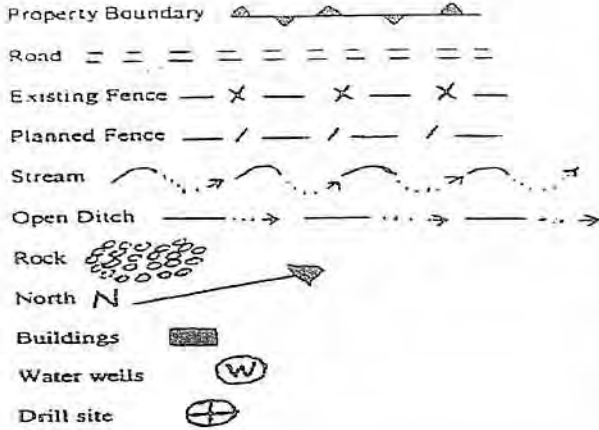
Subscribed and sworn before me this 20th. day of June, 2014

*Sally M. Oberdick* Notary Public

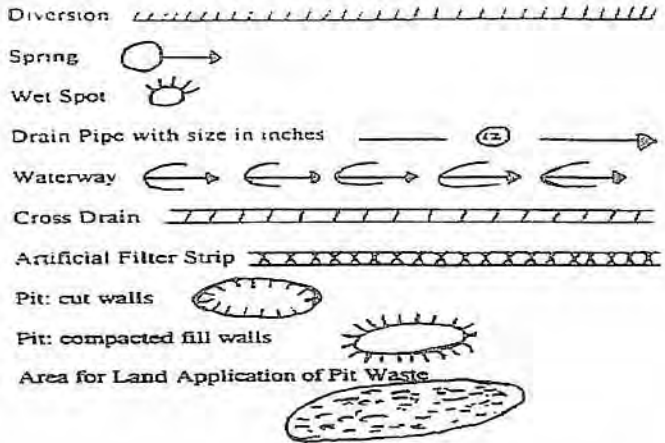
My commission expires January 26, 2015



08/22/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ 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	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: Jane Anderson  
Comments: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
JUN 26 2014

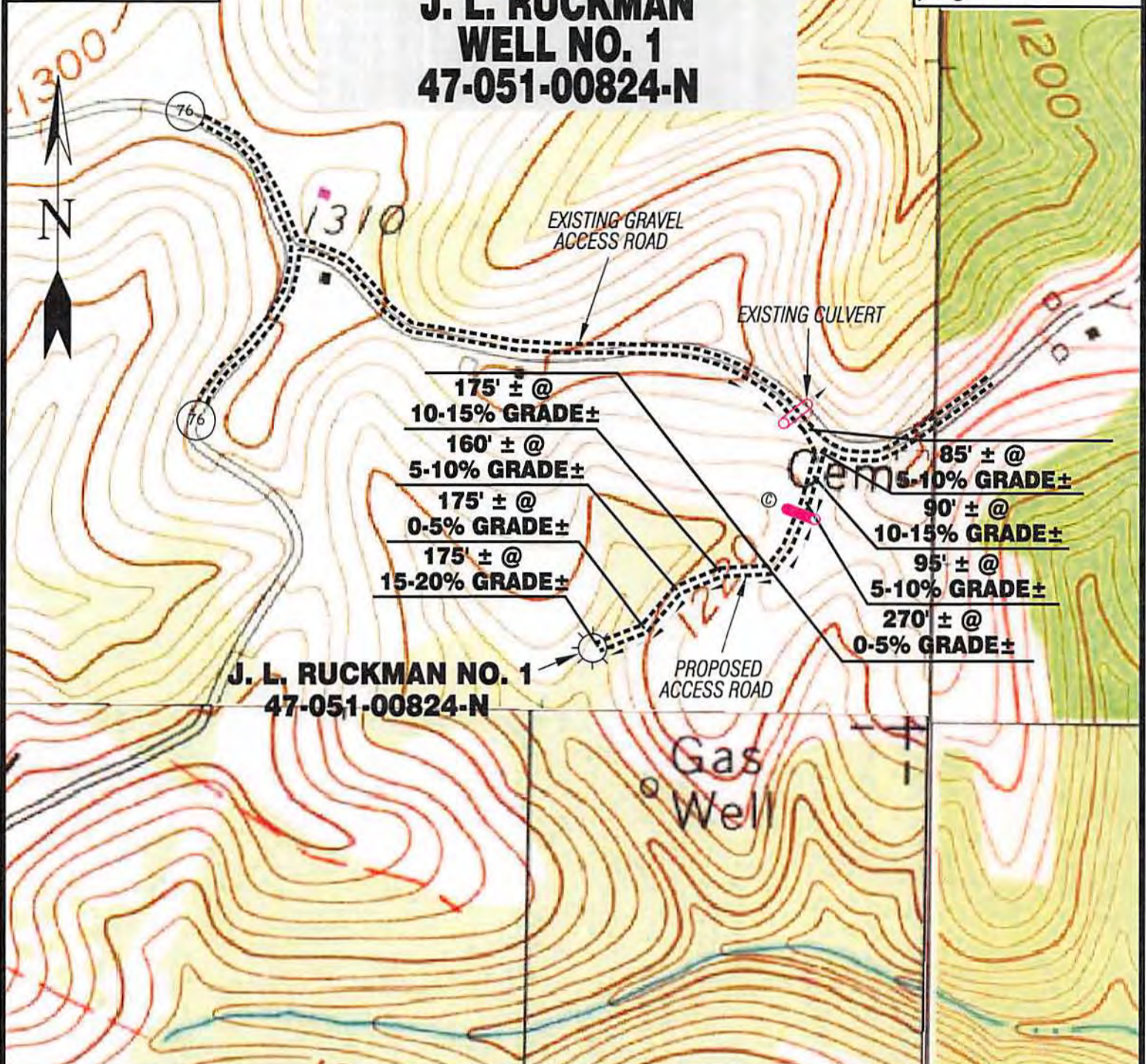
Title: Oil + Gas Inspector

Date: 6/18/2014

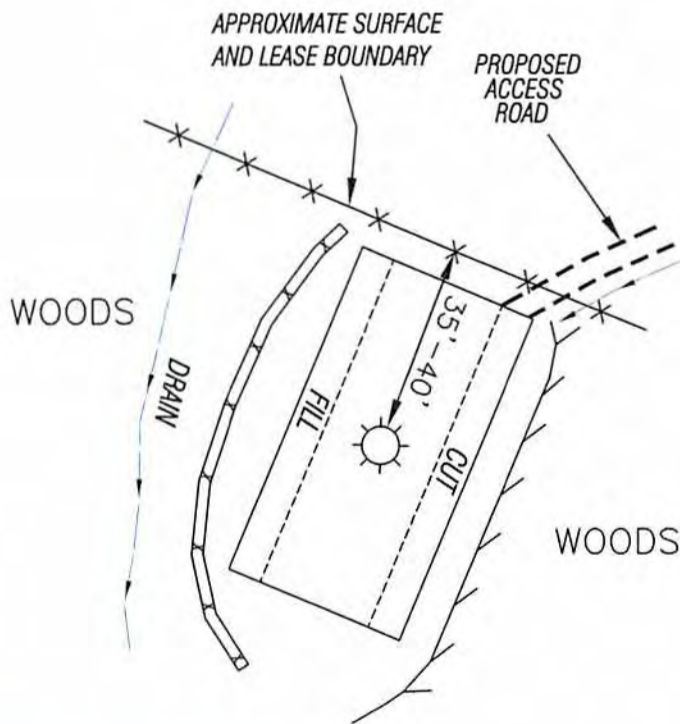
Field Reviewed? (  ) Yes (  ) No

WV Department of Environmental Protection

# J. L. RUCKMAN WELL NO. 1 47-051-00824-N



Detail Sketch for J. L. RUCKMAN NO. 1  
47-051-00824-N



**SCALE: 1"=500'**



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. 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. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

08/22/2014

Not To Scale

- EXISTING CULVERT
- PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- PROPOSED STREAM CROSSING
- APPROXIMATE LIMITS OF DISTURBANCE

**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING, INC.

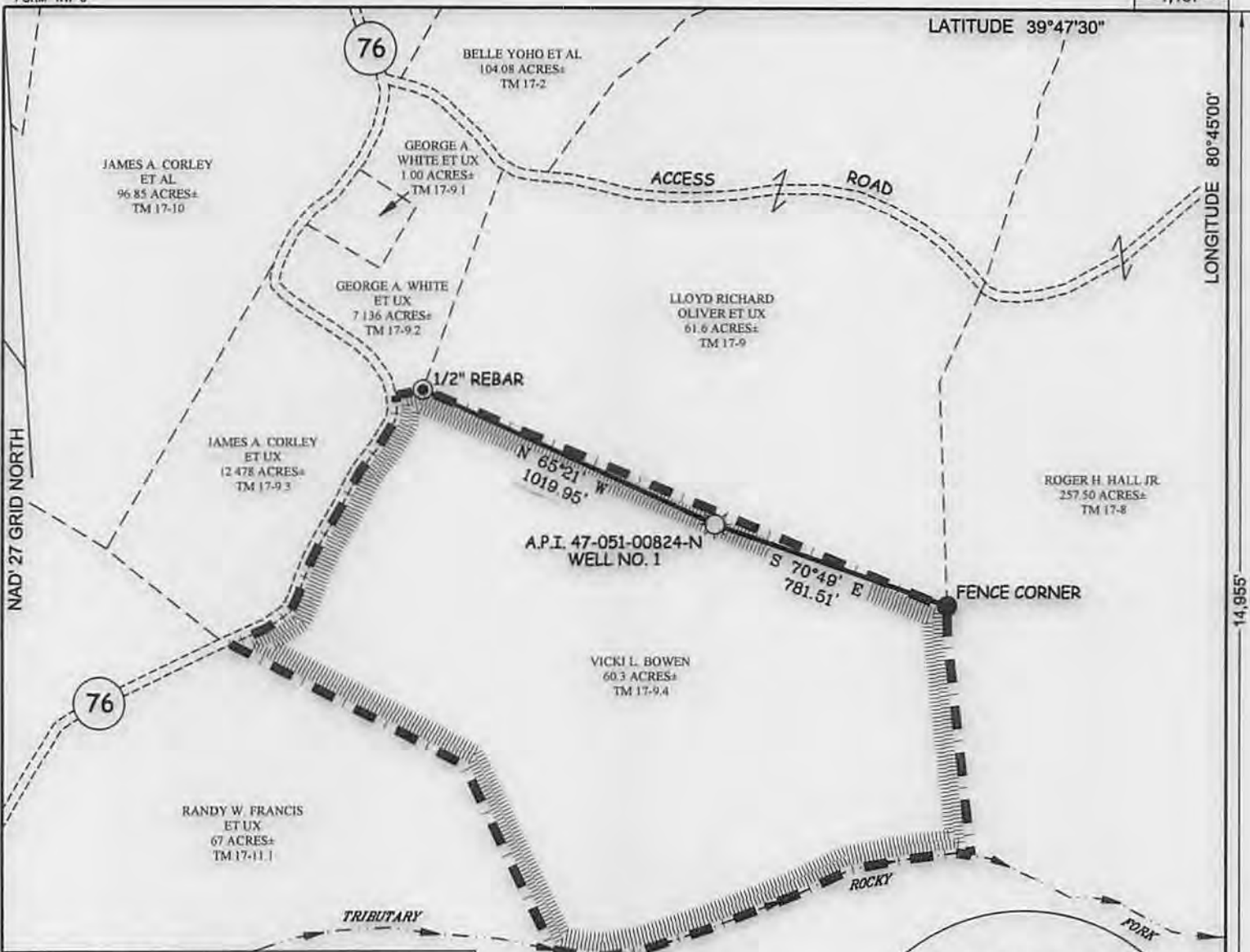
**SLS**

SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.

(304) 462-5634  
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DRAWN BY K.G.M.	FILE NO. 8207	DATE 04/10/14	CADD FILE: 8207REC1.dwg
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TOPO SECTION OF POWHATAN POINT  
7.5' USGS TOPO QUADRANGLE



LONGITUDE 80°45'00"

14,955'

COUNTY NAME

PERMIT

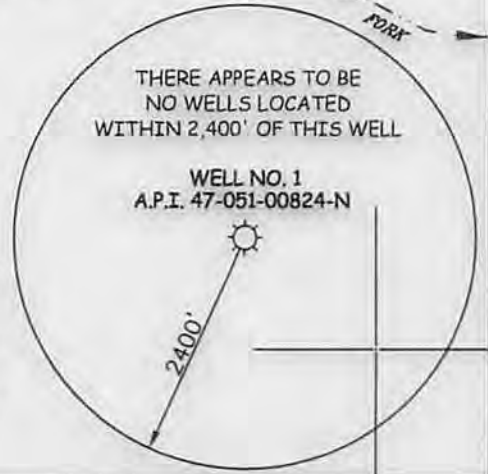
**J. L. RUCKMAN LEASE**  
**100 ACRES±**  
**WELL NO. 1**  
**A.P.I. 47-051-00824-N**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT) N. 457,964 E. 1,647,361  
 NAD'27 GEO. LAT-(N) 39.750611 LONG-(W) 80.754222  
 NAD'83 UTM (M) N. 4,400,116 E. 521,072

**NOTES ON SURVEY**

1. TIES TO CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. HIGHLIGHTED LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 592 AT PAGE 563.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARSHALL COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(MAPPING GRADE).



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE APRIL 08, 20 14  
 REVISED \_\_\_\_\_, 20 \_\_\_\_  
 OPERATORS WELL NO. J. L. RUCKMAN NO.1  
 API WELL NO. 47 - 051 - 00824  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 8207P1  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE TIE TO CORS NETWORK) SCALE 1" = 500'

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



WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1,159' WATERSHED TRIBUTARY OF ROCKY FORK OF WHETSTONE CREEK  
 DISTRICT FRANKLIN COUNTY MARSHALL QUADRANGLE POWHATAN POINT 7.5'

SURFACE OWNER VICKI BOWEN ACREAGE 60.3±  
 ROYALTY OWNER VICKI L. BOWEN ET AL AND / OR ASSIGNS ACREAGE 100±

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON X CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION GORDON ESTIMATED DEPTH 2,768'

WELL OPERATOR PERKINS OIL & GAS DESIGNATED AGENT CLINTON PERKINS  
 ADDRESS P.O. BOX 547 ADDRESS P.O. BOX 547  
 PENNSBORO, WV 26415 PENNSBORO, WV 26415

08/22/2014