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

September 08, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10901464, issued to K. PETROLEUM, 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: PLC 31  
Farm Name: POCAHONTAS LAND CORP.  
**API Well Number: 47-10901464**  
**Permit Type: Plugging**  
Date Issued: 09/08/2015

**Promoting a healthy environment.**

09/11/2015

## 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.

10901464P

WW-4B  
Rev. 2/01

1) Date JULY 8TH, 20 15  
2) Operator's  
Well No. PLC #31  
3) API Well No. 47-109 - 01464

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 \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow \_\_\_

5) Location: Elevation 1680' Watershed INDIAN CREEK  
District CENTER County WYOMING Quadrangle PINEVILLE 7.5

6) Well Operator K. PETROLEUM, INC. 7) Designated Agent MICHAEL E. COLLINS  
Address 81 MILL ST. SUITE 205 Address 4299 NEWARK RD.  
GAHANNA, OH 43230 ELIZABETH, WV 26143

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Danny Mullins Name PATCHWORK OIL & GAS, LLC  
Address ~~124 Big Trace Fork Rd.~~ Address 8165 ELIZABETH PIKE  
~~Harts, WV 25524~~ ELIZABETH, WV 26143

220 JACK ACRES Rd Buckhannon WV 26201

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

DETAILED WORK ORDER TO FOLLOW

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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 Danny Mullins Date 8-6-15

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**REVISED WORK ORDER**

**PLC #31**  
47-109-01464

**PROPOSED PLUGGING PROCEDURE**

1. Prepare plugging permit application.
2. Certify to surface and coal owners.
3. Certify to designated State inspector for signature.
4. Once all signatures are obtained, copy for our records and certify to Jeff at the State Office for approval.
5. Receive plugging permit good for 2 years.
6. Notify the designated State inspector 24 hours prior to commencing operations.
7. Take equipment to location and begin prepping for plug.
8. Rig up
9. Verify total depth of 2533'.
10. Attempt to clean out well bore to original depth, if needed.
11. Run E-log (caliper, deviation, density, and gamma) to determine the location of the lowest mineable coal bed.
12. Run tubing to bottom of 4 1/2 at 2533'. Set first plug with 35 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 2533' up to 2038'. (Bottom, Pay zone)
13. Pull tubing back, wait 8 hours
14. Run in and tag plug, add additional cement if needed.
15. Run 1 sack of 6% Bentonite gel from 2038' up to 1740'.
16. Run back in to 1740' for second plug, run 17 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 1740' up to 1507' (This covers pay zone and elevation)
17. Pull tubing back, wait 8 hours
18. Run in and tag plug, add cement if needed.

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19. Run 2 sacks of 6% Bentonite gel from 1507' up to 1140'
  20. Begin looking for free point, according to state record WR-35 cement fill up should be about 900', which is higher than POCA 3 seam, if so, go in and mill the 4 1/2 and cement out of the inside of the of the 7" down to the depth of approx. 940" to expose the 7" casing in the POCA 3 seam.
  21. If the well bore still produces gas, a mechanical bridge plug shall be placed in the well bore in a competent stratum at least 200' below the lowest mineable seam of coal but above the uppermost hydrocarbon producing zone.
  22. Circulate gel. Section mill 7" from depth 920' to 940' to produce a 20' casing free zone from 5' below the P3 seam to 10' above. This will facilitate active mining of the P3 at depth 930'.
- \*\*If the production string of casing is cemented through the POCA 3 coal seam and unable to remove, then the Production string may be Section milled and the protection string perforated with approximately 8 shots per foot in a 10' area.*
23. Perforate 4 1/2 at 10' intervals beginning at depth 1090' to 1006' and perforate 7" casing at 10' intervals beginning at depth 940' through depth 1006'.
  24. Run tubing to 1140', circulate gel, then run 44 sacks of expandable cement slurry down the tubing to displace the gel and fill well bore from depth of 1140' to 820'.
  25. Pull tubing back, wait 8 hours.
  26. Run in and tag plug, add cement if needed.
  27. Run 7 sacks of 6% Bentonite gel from 820' up to 100'
  30. Pull tubing back to 100' to set plug and run 19 sacks of Class A cement with no more than 3% CaCl<sub>2</sub> and no other additives from 100' up to surface. (Surface,)
  31. Solidify pit if necessary with more cement and lime, then bury. *(NO PIT PERMITTED)*
  - 32.. Set ~~6" x 12.5"~~ steel pipe with concrete with 1/2" API identification. *36" high 7" casing  
Also put the DATE plugging WAS DONE*
  - 33.. Rig down, and move equipment out.
  34. Reclaim location
  35. Prepare WR-34 & WR-38 for permit release.

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JAN 23 1995

16-Aug-94  
API # 47-109-01464

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

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: PLC #31

LOCATION: Elevation: 1,680.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING  
Latitude: 7600 Feet South of 37 Deg. 32Min. 30 Sec.  
Longitude 620 Feet West of 81 Deg. 35 Min. 0 Sec.

Company: BOWIE, INC.  
P.O. BOX 1430  
CLARKSBURG, WV 26301-1430

Agent: GROVER BOWIE

Inspector: OFIE HELMICK  
Permit Issued: 08/10/94  
Well work Commenced: 11-3-94  
Well work Completed: 11-8-94  
Verbal Plugging  
Permission granted on:  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2591 DTD  
Fresh water depths (ft) \_\_\_\_\_  
231, 260  
Salt water depths (ft) \_\_\_\_\_  
N/A  
Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): 115-20,542-48,614-17,  
905-12

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	31'	31'	---
7"	1006'	1006'	170aks
4 1/2"	2533'	2533'	140aks

CK9  
UP INTO 7"

OPEN FLOW DATA

Producing formation Maxton, Ravencliff Pay zone depth (ft) 1857-2250  
Gas: Initial open flow show NCF/d Oil: Initial open flow N/A  
Final open flow 315 MCF/d Final open flow N/A  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 210 psig (surface pressure) after 0 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: BOWIE, INC.

By: Chris Bowen  
Date: 1-18-95

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I	(2209-2250)	20 holes, 500 gal 15% HCL, 400 sks sand, 580 bbl 75 qn2 foam	
II	(2088-2193)	20 holes, 500 gal 15% HCL, 300 sks sand, 500 bbl 75 qn2 foam	
III	(1557-1628)	30 holes, 750 gal 15% HCL, 450 sks sand, 640 bbl 75 qn2 foam	
	SAND & SHALE	0-115	
	COAL	115-120	
	SAND	120-280	DAMPE 231', 1/4" H2O C 260
	SAND & SHALE	280-398	
	SAND	398-485	
	SAND & SHALE	485-542	
	COAL	542-548	
	SHALE	548-814	
	COAL	614-817	
	SAND	<del>817-895</del>	
	COAL	905-912	
	SAND & SHALE	912-1530	
	RAVENCLIFF	1530-1630	GAS SHOW
	AVIS	1630-1690	
	SHALE	1690-1990	
	U. MAXTON	1990-2058	
	SHALE & SAND	2058-2075	
	MAXTON	2075-2275	GAS SHOW
	SAND & SHALE	2275-2424	
	SHALE	2424-2588	
	L. LIME	2588-2591	DTD

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WW-4A  
Revised 6-07

1) Date: JULY 8TH, 2015  
2) Operator's Well Number  
PLC #31  
3) API Well No.: 47 - 109 - 01464

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>PINNACLE LAND COMPANY</u>	Name <u>PINNACLE LAND COMPANY</u>
Address <u>PO BOX 446</u>	Address <u>PO BOX 446</u>
<u>MAN, WV 25635</u>	<u>MAN, WV 25635</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name <u>220 Jack Acres Rd</u>	Name _____
Address <u>Buckhannon WV 26201</u>	Address _____
6) Inspector <u>Dan Mullins</u>	(c) Coal Lessee with Declaration
Address <u>124 Big Trace Fork Rd.</u>	Name <u>PINNACLE LAND COMPANY &amp; MECHEL BLUESTONE</u>
<u>Harts, WV 25524</u>	Address <u>PO BOX 446</u> <u>PO BOX 1085</u>
Telephone <u>304-932-6844</u>	<u>MAN, WV 25635</u> <u>BECKLEY, WV 25802</u>

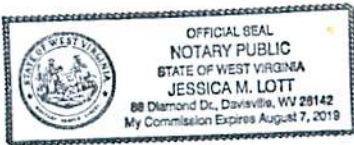
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 reverse 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 K. PETROLUEM, INC.  
 By: \_\_\_\_\_  
 Its: DESIGNATED AGENT Michele C. Colli  
 Address 4299 NEWARD RD  
ELIZABETH, WV 26143  
 Telephone 304-275-0921



Subscribed and sworn before me this 5 day of August, 2015  
J. Mott Notary Public  
 My Commission Expires Aug. 7, 2015

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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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

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10901464P

WW-9  
(2/15)

API Number 47 - 109 - 01464  
Operator's Well No. PLC #31

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name K. PETROLEUM. INC. OP Code 306574

Watershed (HUC 10) INDIAN CREEK Quadrangle PINEVILLE 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: \_\_\_\_\_

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

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 PORTABLE PIT)

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

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

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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 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) MICHAEL E. COLLINS *Michael E. Collins*  
Company Official Title DESIGNATED AGENT

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Subscribed and sworn before me this 5 day of August, 2015  
*J. M. Lott* Notary Public

My commission expires Aug. 7, 2019



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10901464P

**K. PETROLEUM. INC.**

Proposed Revegetation Treatment: Acres Disturbed 3.2 Prevegetation pH 6.67

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type STRAW

Fertilizer amount 500 lbs/acre

Mulch \_\_\_\_\_ Tons/acre

**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
TALL FESCUE	40	TALL FESCUE	40
LADINO CLOVER	5	LADINO CLOVER	5

Attach:  
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

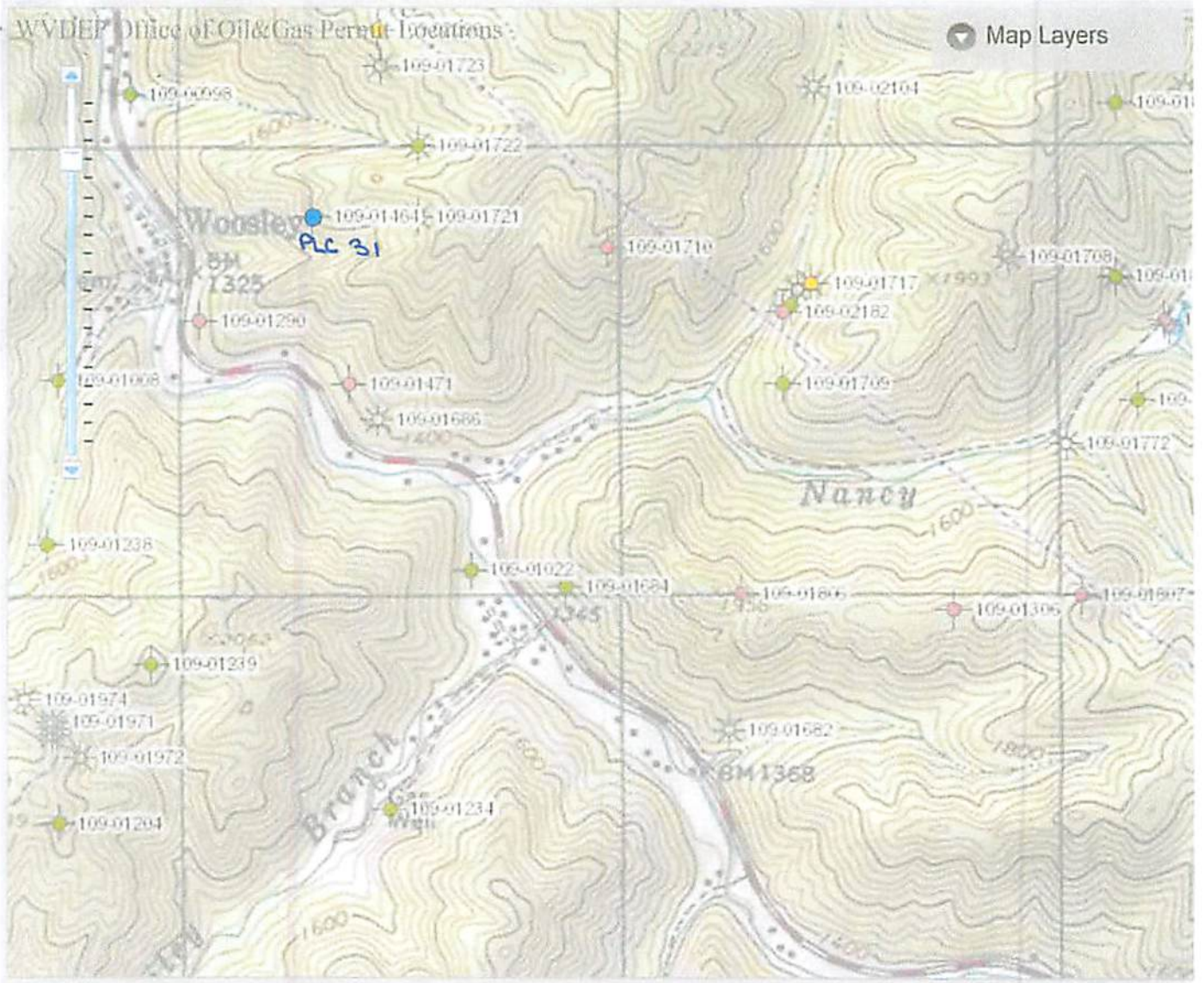
Field Reviewed? ( ) Yes ( ) No

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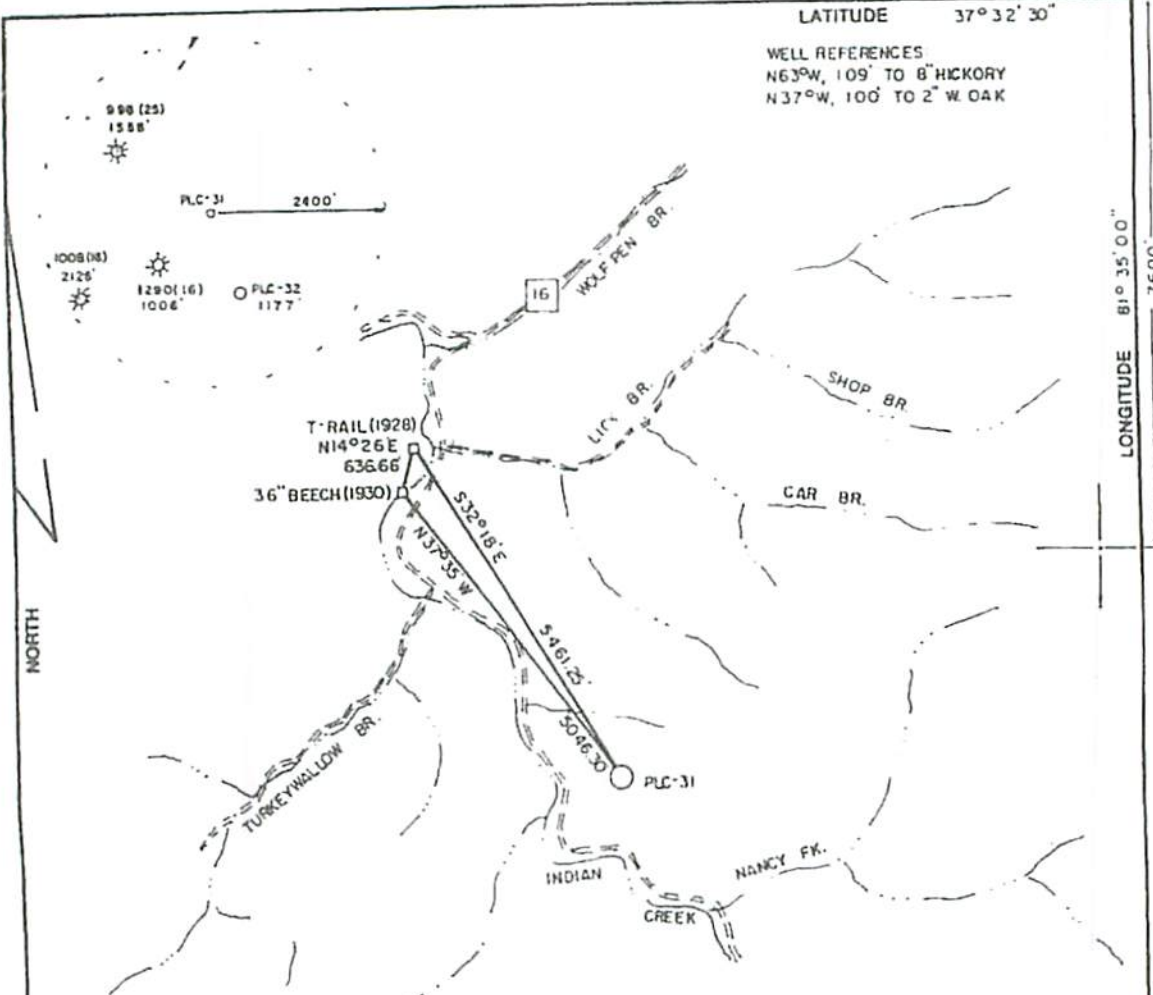
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620



LATITUDE 37° 32' 30"

WELL REFERENCES  
N63°W, 109' TO B HICKORY  
N37°W, 106' TO 2" W OAK

990 (25)  
1558'

1008 (18)  
2125'

1290 (16)  
1006'

PLC-31 2400'

PLC-32  
1177'

LONGITUDE 81° 35' 00"

NORTH

POCA LAND COOR.:  
PLC-31 N. 56,075.83'  
W 10,060.74'

LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 2000'  
MINIMUM DEGREE OF  
ACCURACY 1 in 2500  
PROVEN SOURCE OF  
ELEVATION BM 5100' N.W. OF  
LOCATION ELEV. 1281'

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF ENERGY.  
(SIGNED) \_\_\_\_\_

R.P.E. \_\_\_\_\_ L.L.S. 674  
STEPHEN D. LOSH PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE JUNE 01 19 94  
OPERATOR'S WELL NO. PLC-31  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 1680' WATER SHED INDIAN CREEK  
DISTRICT CENTER COUNTY WYOMING

QUADRANGLE PINEVILLE 7.5 min.  
SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE \_\_\_\_\_  
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 10050.85

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION MAXTON ESTIMATED DEPTH 2750'  
WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE  
ADDRESS P.O. BOX 1430 ADDRESS P.O. BOX 430  
CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-M30

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WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-109-01464 WELL NO.: PLC 31

FARM NAME: POCAHONTAS LAND CORP.

RESPONSIBLE PARTY NAME: K. PETROLEUM, INC.

COUNTY: WYOMING DISTRICT: CENTER

QUADRANGLE: PINEVILLE

SURFACE OWNER: PINNACLE LAND COMPANY

ROYALTY OWNER: PINNACLE LAND COMPANY

UTM GPS NORTHING: 4152835.8

UTM GPS EASTING: 448307.5 GPS ELEVATION: 1680'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

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]*  
Signature

OFFICE MANAGER  
Title

JULY 8TH, 2015  
Date

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