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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: 47-10901463, 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 30  
Farm Name: POCAHONTAS LAND CORP.  
**API Well Number: 47-10901463**  
**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.

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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 JULY 8TH, 2015  
2) Operator's  
Well No. PLC #30  
3) API Well No. 47-109 - 01463

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 2037' Watershed BEE BRANCH  
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 Dan 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 Beckhannon WV 26201

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

DETAILED WORK ORDER TO FOLLOW

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

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Work order approved by inspector Danny Mullins

Date 8-6-15 WV Department of Environmental Protection

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**REVISED WORK ORDER****PLC #30**

47-109-01463

**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 2809'.
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.
10. Run tubing to bottom of 4 1/2 at 2809'. Set first plug with 41 sacks of Class A cement with no more than 3% CaCl<sub>2</sub> and no other additives from 2809' up to 2238'. (Bottom, Pay zone)
11. Pull tubing back, wait 8 hours
12. Run in and tag plug, add cement if needed.
13. Run 1 sack of 6% Bentonite gel from 2238' up to 2087'.
14. Run back in to 2087' for second plug, run 22 sacks of Class A cement with no more than 3% CaCl<sub>2</sub> and no other additives from 2087' up to 1885' (This covers pay zone and elevation)
15. Pull tubing back, wait 8 hours
16. Run in and tag plug, add additional cement if needed.

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17. Look for free point, set 100' plug.

17. Run (depends) sacks of 6% Bentonite gel from 1885' up to 1488'. (will vary based on free point)

18. 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.

19. Circulate gel. Section mill 7" casing from depth 1255' to 1275' 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 1265'.

\*\*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 foot area.

20. Perforate 7" casing at 10' intervals beginning at depth 1275' through depth 1425'.

21. Run tubing to 1488' circulate gel, then run 24 sacks of expandable cement slurry down the tubing to displace the gel and fill well bore from depth of 1488' to 1155'

22. Pull tubing back, wait 8 hours

23. Run in and tag plug, add cement if needed.

24. Run 9 sacks of 6% Bentonite gel from 1155' up to 100'.

25. 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 300' up to surface. (surface)

26. Solidify pit if necessary with more cement and lime, then bury. (NO PIT PERMITTED)

27. 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

28. Rig down, and move equipment out.

29. Reclaim location

30. Prepare WR-34 & WR-38 for permit release.

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109 01463P

WR-35

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NOV 23 1994

16-Aug-94  
API # 47-109-01463

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

Well Operator's Report of Well Work

Permitting  
Farm Office of Oil & Gas  
SAHONTAS LAND CORP. Operator Well No.: PLC #30

LOCATION: Elevation: 2,037.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING  
Latitude: 4120 Feet South of 37 Deg. 32Min. 30 Sec.  
Longitude 5770 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: 9-3-94  
Well work Completed: 9-12-94  
Verbal Plugging  
Permission granted on:  
Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 2830DTP  
Fresh water depths (ft) \_\_\_\_\_  
70.1289  
Salt water depths (ft) \_\_\_\_\_  
N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8	31'	---	---
9 5/8	574'	574'	220skts
7"	1438'	1438'	320skts
4 1/2"	2809'	2809'	120skts

Is coal being mined in area (Y/N)? Y  
Coal Depths (ft): 122-25, 270-73, 530-60, 830-33, 960-64, 1265-69

OPEN FLOW DATA

Producing formation L. Maxton, Maxton Pay zone depth (ft) 2642-2797  
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 103 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 250 psig (surface pressure) after 24 Hours

Second producing formation u. Maxton, Ravenel Pay zone depth (ft) 1935-2298  
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow comingled MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure comingled psig (surface pressure) after 24 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: W. P. Bowin  
Date: 11-17-94

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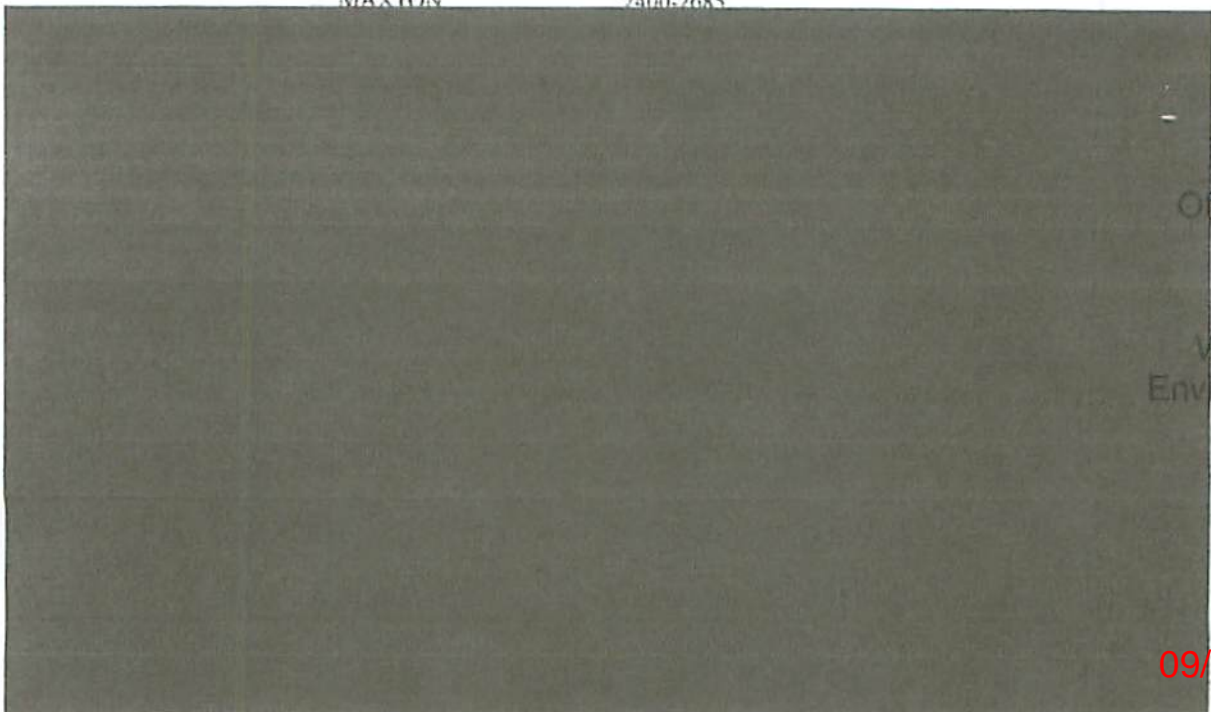
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- I (2671-2797) 24 holes, 750gal 15%HCL, 400sks sand, 600bbl 75Q foam
- II (2288-2542) 22 holes, 750gal 15%HCL, 300sks sand, 560bbl 75Q foam
- III (1935-1977) 30 holes, 500gal 15%HCL, 270sks sand, 540bbl 75Q foam

SAND	0-122	1/2" @70'
COAL	122-125	•
SAND & SHALE	125-270	
COAL	270-273	•
SAND & SHALE	273-530	
COAL (OPEN)	530-540	•
SAND	540-830	
COAL	830-833	•
SAND	833-960	
COAL	960-964	•
SAND & SHALE	964-1265	
COAL	1265-1269	•
SAND & SHALE	1269-1500	DAMP @1289'
SAND	1500-1615	
SAND & SHALE	1615-1895	
RAVENCLIFF	1895-1965	
AVIS	1965-2032	
SHALE & SAND	2032-2270	
U. MAXTON	2270-2300	GAS SHOW
SAND & SHALE	2300-2400	
MAXTON	2400-2685	

*ELK*



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WW-4A  
Revised 6-07

1) Date: JULY 8TH, 2015  
2) Operator's Well Number  
PLC #30  
3) API Well No.: 47 - 109 - 071463

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

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

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Subscribed and sworn before me this 5 day of August, 2015  
 My Commission Expires Aug. 7, 2019  
 Notary Public

Oil and Gas Privacy Notice

WV Department of Environmental Protection

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).



WW-9  
(2/15)

API Number 47 - 109 - 01463

Operator's Well No. PLC #30

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) BEE BRANCH 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.

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Company Official Signature \_\_\_\_\_ AUG 13 2015

Company Official (Typed Name) MICHAEL E. COLLINS *Michael E. Collins*

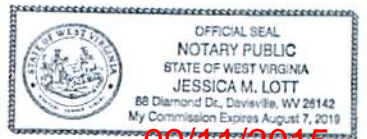
Company Official Title DESIGNATED AGENT

WV Department of Environmental Protection

Subscribed and sworn before me this 5 day of August, 20 15

*J. M. Lott* Notary Public

My commission expires Aug. 7, 2019



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**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
TALL FESCUE	40
LADINO CLOVER	5

Seed Type	lbs/acre
TALL FESCUE	40
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: \_\_\_\_\_

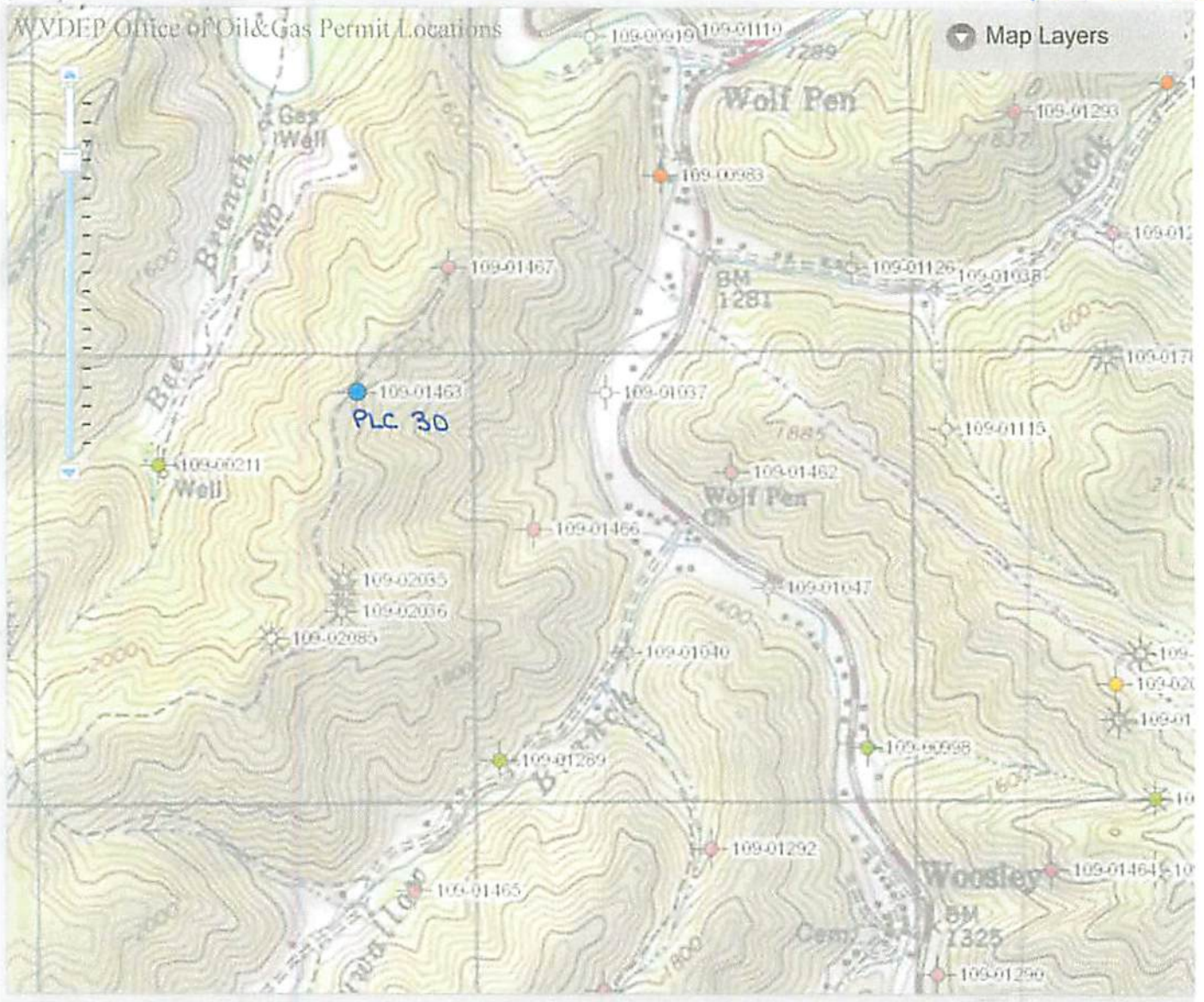
Field Reviewed? ( ) Yes ( ) No

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PLC 30 47-109-1463

*JK*

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8/22/2014

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-109-01463 WELL NO.: PLC 30

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: 4153907.9

UTM GPS EASTING: 446736.9 GPS ELEVATION: 2037'

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

OFFICE MANAGER  
Title

JULY 8TH , 2015  
Date

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