

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

September 08, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901465, 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 penalities 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.

Operator's Well No: PLC 34

Farm Name: POCAHONTAS LAND CORP.

James Martin

API Well Number: 47-10901465 Permit Type: Plugging

Date Issued: 09/08/2015

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. 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.

WW-4B 'Rev. 2/01

1) Date JULY 8TH			20 15	
2) Operato				
Well No	. PLC #3	4		
3) API Wel	l No.	47 - 109	- 01465	

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

	nderground storage) Deep/ Shallow
5) Location: Elevation 1490'	Watershed TURKEY WALLOW 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
3) Oil and Gas Inspector to be notified	9)Plugging Contractor
Name Oar mullins	Name PATCHWORK OIL & GAS, LLC
Address 124 Big Trace Fork R	Address 8165 ELIZABETH PIKE
Herts, WV 25524	ELIZABETH, WV 26143
220 JACK ACTES Rd Buckhannon in	10 2620
DETAILED WORK ORDER TO FOLLOW	
	RECEIVED
	Office of Oil and Gas
	AUG 1 3 2015
	700 10 200
	WV Department of

REVISED WORK ORDER

PLC #34

47-109-01465

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 2350'
- 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 TD. Set first plug with 35 sacks of Class A cement with no more than 3% CaCl2 and no other additives from TD up to 1860'. This will cover bottom plug and perforation. Pull tubing back.
- 12. Wait 8 hours, run in and tag plug, add additional cement if needed.
- 13. Begin looking for free point, according to state record WR-35 cement fill up should be about 900'.
- 14. Find free point, then severe
- 15. Run 1 sacks of 6% Bentonite gel from 1860' up to 1530'. (4 1/2)
- 16. Run tubing to 1530' set plug with 13 sacks of Class A cement with no more than 3% CaCl and Gas and no other additives from 1530' up to 1360'.

AUG 1 3 2015



- 17. Wait 8 hours, run in and tag plug, add cement if needed.
- 18. Run 2 sacks of gel from 1360'-1000'
- 19. Attempt to rip and remove 900' of 4 1/2.
- 20. 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.
- 21. Circulate gel. Cut and remove a section of 7" casing by milling out a segment from depth 778' to 758' 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 768'
- **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.
- 22. Perforate 4 1/2 & 7" casing at 10' intervals beginning at depth 928' through depth 778'.
- 23. Run tubing to 978', circulate gel, then run 50 sacks of expandable cement slurry down the tubing to displace the gel and fill well bore from depth of 978' to 668'.
- 24. Pull tubing back, wait 8 hours
- 25. Run in and tag plug, add cement if needed.
- 26. Run 8 sacks of gel from 668' to 100'.
- 27. Run tubing to 100' and run 29 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 100' to surface.
- 28. Solidify pit if necessary with more cement and lime, then bury. (PO PIT PEWITTED)
- 29. Set 6" x 12.5" steel pipe with concrete with 1/2" API identification. 36 "Light 7" caseing Also put The Date plugging was Done
- 30. Rig down, and move equipment out.
- 31. Reclaim location.
- 32. Prepare WR-34 & WR-38 for permit release.
- **Expanding Cement shall be Nabors Production and Well Completions "Thixtropic GEIVED equivalent.

 Office of Oil and Gas

AUG 1 3 2015

09/11/2015

WR-35 16-Aug-94 API # 47-109-01465 RECEIVED State of West Virginia Division of Environmental Protection Section of Oil and Gas NOV 2 3 1994 Well Operator's Report of Well Work Permitting CAHONTAS LAND CORP. Operator Well No.: PLC #34 LOCATION: Elevation: 1,490.00 Quadrangle: PINEVILLE District: CENTER County: WYOMING
Latitude: 7730 Feet South of 37 Deg. 32Min. 30 Sec.
Longitude 5390 Feet West of 81 Deg. 35 Min. 0 Sec. Company: BOWIE, INC. P.O. BOX 1430 Casing | Used in | Left CLARKSBURG, WV 26301-1430 Fill Up Tubing | Drilling | in Well | Cu. Ft. Agent: GROVER BOWIE Size Inspector: OFIE HELMICK 08/10/94 Permit Issued: 13 3/8 | 31' 8-26-94 Well work Commenced: Well work Completed: Verbal Plugging Permission granted on: Rotary x Cable Rig Total Depth (feet) 7414 DTD 4 1/2" 2350" Fresh water depths (ft) 50,230 Salt water depths (ft) N/A
Is coal being mined in area (Y/N)?_N Coal Depths (ft): 120-23, 665-68 RECEIVED OPEN FLOW DATA Office of Oil and G Producing formation L. Maxton, Maxton RavencliffPay zone depth (ft) 1410-2318

Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d Final open flow 2500 MCF/d Final open flow N/A Bbl/d Time of open flow between initial and final tests 12 Hours AUG 1 3 2015 Static rock Pressure 250 psig (surface pressure) after 24 Hours WV Department o Bb Povironmental Protec Hours Static rock Pressure _____psig (surface pressure) after NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED 5 INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL COMMICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, O INCLUDING COAL ENCOUNTERED BY THE WELLBORE. For: BOWIE, INC. By: W. C. Bours
Date: 11. 17. 44

. . . 1.

11 (2277-2318) 25 holes, 500gal 15%HCL, 350sks sand, 500bbl 75Q foam 11 (1910-2044) 24 holes, 750gal 15%HCL, 400sks sand, 540bbl 75Q foam 111 (1410-1483) 30 holes, 500gal 15%HCL, 500sks sand, 560bbl 75Q foam

SAND & SHALE	0-41	
SAND	41-120	1/2" (a)50"
COAL	120-123	
SAND	123-351	1" (a)230'
SHALE	351-419	
SAND	419-665	
COAL	065-668	
SAND & SHALE	668-973	
SAND	973-1140	
SHALE	1140-1385	
RAVENCLIFF	1385-1455	GAS SHOW
AVIS	1455-1495	
SAND & SHALE	1495-1945	
MAXTON	1945-2098	GAS SHOW
SHALE & SAND	2098-2220	
L. MAXTON	2220-2318	GAS SHOW
SHALE	2318-2380	
L LIME	2380-2412	DID

RECEIVED
Office of Oil and Gas

AUG 1 3 2015

WV Department of Environmenta! Protection



WW-4A	
Revised	6-07

 Date: JULY 8TH, 20)15			
2) Operator's Well Number PLC #34				
3) API Well No.: 47 -	109		01465	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Ov	vner(s) to be served:	5) ((a) Coal Operator		
(a) Name	PINNACLE LAND COM		Name	PINNACLE LAND COMPANY	
Address	PO BOX 446		Address	PO BOX 446	
	MAN, WV 25635	/	_	MAN, WV 25635	
(b) Name			(b) Coal Ow	ner(s) with Declaration	
Address			Name		
	-		Address		
			_		-
(c) Name	220 JACK 1	acces Rl	Name		
Address			Address	***************************************	
110000	DUCKHANNON	WU 26201	_		
"\ In an auton	-	·	- () () - 1.1		
S) Inspector Address	can mulling	2	_	see with Declaration	A MEQUEL DI MEGTAME
Address	XIZH BIG Trac	C TON NO.	Name	PINNACLE LAND COMPANY	
Tolonhono	3011 020	20021	Address	PO BOX 446	PO BOX 1085
Telephone	304-932-	6844	_	MAN, WV 25635	BECKLEY, WV 25802
Take notic accompany Protection the Applic	you are not required to take that under Chapter 22-6 of ying documents for a permit with respect to the well at	any action at all. If the West Virginia Code to plug and abandon a v the location described or en mailed by registered	e, the undersigned well o well with the Chief of the in the attached Application or certified mail or deli-	perator proposes to file or has file Office of Oil and Gas, West Vir	led this Notice and Application and ginia Department of Environmental form WW-6. Copies of this Notice, named above (or by publication in
		Well Operator	K. PETROLUEM, INC.		
		By:	The second secon		
	OFFICIAL SEAL	Its:	DESIGNATED AGENT		~ 01
BTATI			DESIGNATED AGENT	Merkay 9	Man
JE JE	OTARY PUBLIC E OF WEST VIRGINIA		4299 NEWARD RD	Michael &	Alin
DO LINGTO	E OF WEST VIRGINIA SSICA M. LOTT	Address		Michael E	BECEIVED
My Commis	E OF WEST VIRGINIA	Address	4299 NEWARD RD	Muchaul E	RECEIVED Office of Oil and Gas
My Cormile	E OF WEST VIRGINIA SSICA M. LOTT		4299 NEWARD RD ELIZABETH, WV 26143	Michael &	Office of Oil and Gas
My Corania	E OF WEST VIRGINA SSICA M. LOTT nd Dr., Davisville, WV 26142 salon Expires August 7, 2019	Address Telephone	4299 NEWARD RD ELIZABETH, WV 26143 304-275-0921		
My Corania	E OF WEST VIRGINIA SSICA M. LOTT Ind Dr., Davisville, WV 26142 salon Expires August 7, 2019	Address Telephone	4299 NEWARD RD ELIZABETH, WV 26143 304-275-0921	+, 2015	Office of Oil and Gas AUG 1 3 2015
My Corania	E OF WEST VIRGINIA SSICA M. LOTT Ind Dr., Davisville, WV 26142 salon Expires August 7, 2019	Address Telephone	4299 NEWARD RD ELIZABETH, WV 2614: 304-275-0921	t, 2015 Notary Public	Office of Oil and Ga

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.

WW-9 (2/15)

API	Number	47 -	109	-	01465	
				-		-

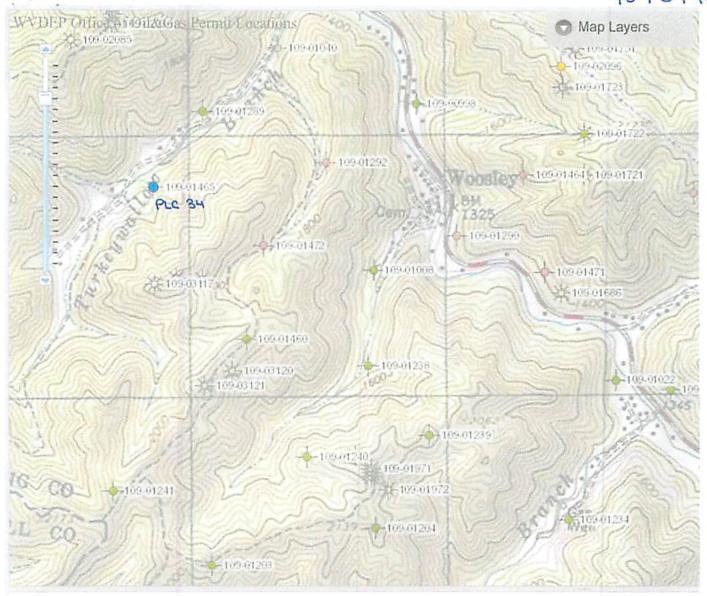
Operator's Well No. PLC #34

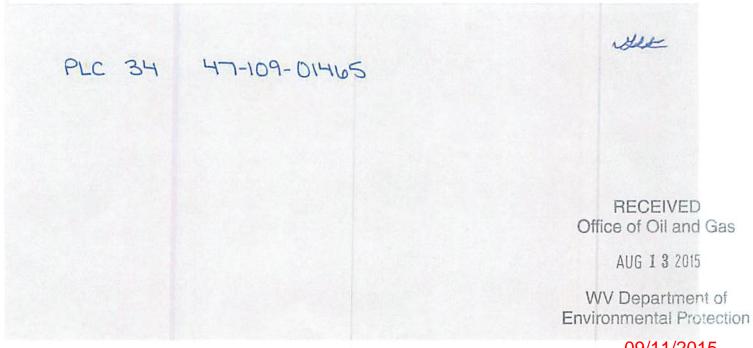
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name K. PETROLEUM. INC. OP Code 306574	
Watershed (HUC 10) TURKEY WALLOW BRANCH Quadrangle PINEVILLE 7.5	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	
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 associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permit where it was properly disposed.	d waste rejected at any ttee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general permits aw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals important to the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment.	etion. I understand that the mit and/or other applicable prmation submitted on this amediately responsible for
Company Official Signature	Office of Oil and Gas
Company Official (Typed Name) MICHAEL E. COLLINS Michael & Collins	AUG 1 3 2015
Company Official Title DESIGNATED AGENT	The second secon
	WV Department of
Subscribed and sworn before me this 5 day of August, 2015	Environmental Protection
Notary Public	OFFICIAL SEAL NOTARY PUBLIC BTATE OF WEST VIRGINIA JESSICA M. LOTT
0, 7, 7, 9	88 Diamond Dr., Davisville, WV 26142

roint ww-2		Operator's Well No. PLC #34		
K. PETROLEUM. INC.				
Proposed Revegetation Treatment: Acres	Disturbed 3.2	Prevegetation pH	6.67	
Lime 2 Tons/act	re or to correct to pH 6.5	5		
Fertilizer type STRAW	+			
Fertilizer amount 500	lbs/ac	re		
Mulch	Tons/acre			
	Seed Mi	xtures		
Temporary		Perman	nent	
Seed Type lbs/acr	e	Seed Type	lbs/acre	
TALL FESCUE 40		TALL FESCUE	40	
LADINO CLOVER 5		LADINO CLOVER	5	
Photocopied section of involved 7.5' topog				
lan Approved by:			<u> </u>	
Comments:				
				
		 		
			 	
itle:		Date:	RECEIVED Office of Oil and	
rield Reviewed? () Yes		No	AUG 1 3 2015	
			WOO I O COL	

WV Department of Environmental Protection 09/11/2015





WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GPS	
API: 47-109-01465	WELL NO.: P	LC 34
FARM NAME: POCAHON	TAS LAND CORP.	
RESPONSIBLE PARTY NAME:	K. PETROLEUM, IN	IC.
COUNTY: WYOMING	DISTRICT: CE	NTER
QUADRANGLE: PINEVILLI	E	
SUPEL CE CHANER PINNAC	CLE LAND COMPA	VY
ROYALTY OWNER: PINNC	ALE LAND COMPA	NY
UTM GPS NORTHING: 41527		
UTM GPS EASTING: 446858	.8 GPS ELEVATI	ON: 1490'
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea level. 2. Accuracy to Datum – 3.05 3. Data Collection Method: Survey grade GPS: Post Pro-	r a plugging permit or assigned Ass will not accept GPS coordinate: 17 North, Coordinate Units: meyel (MSL) – meters. 5 meters	API number on the es that do not meet
Real-Ti Mapping Grade GPS X : Post	me Differential	RECEIVED
Mapping Grade GPS X: Post	Processed Differential	Office of Oil and Gas
	-Time Differential	AUG 1 3 2015
I the undersigned hereby cartify this	required by law and the regulation	II location. knowledge and WV Department of ns issued and Environmental Protection
ambou	OFFICE MANAGER	JULY 8TH , 2015
Signature	Title	Date

CLARKSBURG. WV 26302-1430

CLARKS BURG, WV 26302-1430