

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: 47-10901115, 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: W.B. 21

Farm Name: POCAHONTAS LAND CORP.

API Well Number: 47-10901115 Permit Type: Plugging

Date Issued: 09/08/2015

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

- 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) Operator's		
Well No. WB 21		
3) API Well No.	47-109	- 01115

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

	OFFICE OF	OIL AND GAS
	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Und	derground storage Deep / Shallow
EV	7 1505'	Watershed INDIAN CREEK
21	Location: Elevation 1505' 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
0.7	Name Can Mullins	Name PATCHWORK OIL & GAS, LLC
	Address 124 Big Race Fork Rd	Address 8165 ELIZABETH PIKE
	Hart but 25524	ELIZABETH, WV 26143
2	20 JACK ACTES R'& Buckhaman W	V 2620
	DETAILED WORK ORDER TO FOLLOW	RECEIVES
		RECEIVED Office of Oil and Gas
		AUG 1 3 2015
		WV Department of Environmental Protection
work	c can commence.	all and gas inspector 24 hours before permitted Mulius Date 6-8-15
wor	c order approved by inspector	Date 6-6-15

09/11/2015

REVISED WORK ORDER

WB #21

47-109-01115

PROPOSED PLUGGING PROCEDURE

- 1. Prepare plugging permit application.
- 2. Certify to surface and coal owners.
- 3. Certify to designated State inspector for signature.
- 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 1551'.
- 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 16 sacks of Class A cement with no more than 3% CaCl2 and no other additives from TD up to 1338'. This will cover bottom plug, perforation and Elevation. Pull tubing back.
- 12. Wait 8 hours, run in and tag plug, add additional cement if needed.
- 13. Run 2 sacks of 6% Bentonite gel from 1338' up to 953'. (4 1/2)
- 14. Begin looking for free point, according to state record WR-35 cement fill up should be about 690', 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 8 5/8 down to the depth of approx. 753' to expose the 8 5/8 casing in the POCA 3 seam.
- 16. If the well bore still produces gas, a mechanical bridge plug shall be placed in the Well bridge in a competent stratum at least 200' below the lowest mineable seam of coal but affice the Oil and Gas uppermost hydrocarbon producing zone.

AUG 1 3 .05

- 17. Circulate gel. Section mill 8 5/8" from depth 753' to 733' 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 743'.
- **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.** (this is a possibility, the 8 5/8 casing shoe could be at 753', which would not be able to be milled out)
- 18. Perforate 8 5/8" casing at 10' intervals beginning at depth 903' through depth 753'.
- 19. Run tubing to 953', circulate gel, then run 46 sacks of expandable cement slurry down the tubing to displace the gel and fill well bore from depth of 953' to 640'.
- 20. Pull tubing back, wait 8 hours
- 21. Run in and tag plug, add cement if needed.
- 22. Run 7 sacks of 6% Bentonite gel from 640' up to 100'.
- 24. Pull tubing up to 100' and cement from to surface with 29 sacks of Class A cement with no more than 3% CaCl2 and no other additives.
- 25. Solidify pit if necessary with more cement and lime, then bury. (NO PIT PERMITTED)
- 26. Set 6" x 12.5" steel pipe with concrete with 1/2" API identification. 30" high 7" caseing
- 27. Rig down, and move equipment out.
- 28. Reclaim location.
- 29. Prepare WR-34 & WR-38 for permit release.
- **Expanding Cement shall be Nabors Production and Well Completions "Thixtropic" or equivalent.

RECEIVED
Office of Oil and Gas

AUG 1 3 2015

API # 47-109-01115

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name:	POCAHONTAS	LAND CORP.	Operator	Well No.: F	7B #21	
OCATION:	Elevation:	1505.00 Ou	adrangle: PI	NEVILLE		
	District: Latitude: Longitude	CENTER 4340 Feet S 1270 Feet W	outh of 37 lest of 81	Deg. 32Min. Deg. 35 Min	NG . 30 Sec. 1. 0 Sec	
CLA	A EAST MAIN	STREET 26301-0000	6	Used in		Cement Fill Up Cu. Ft.
Ngent: WI	LLIAM H. BOY	IIE	Size		I	
ermit Issi	RODNEY G. I	10/06/89	\\ ³ /4	30		
ell work	Commenced: Completed: gging granted on:	12/16/89	8 s/a	751	751	CTS
Rotary X	Cable h (feet) r depths (f	Rig 1620	41/2	1551	1551	145585
Salt water	depths (ft			DE	CENTY	SM
s coal be	Ing mined in	n area (Y/N)7	Ы	1 111-	AN 22 1990	
OPEN FLOW	DATA		1-1-1-1	DIVIS DEPAR	ION OF OIL &	GAS
Gas: Stati	Initial oper Final open Time of ope c rock Pres	ion Revence n flow SHOW flow 504 n flow betwee sure 240	MCF/d oil: I MCF/d F n initial an	nitial open inal open f d final tes e pressure)	flow low ts after	Bb1/c Bb1/c Hours
Gas:	Initial open Final open Time of ope	formation n flow flow n flow betwee sure	n initial an	d final tes	flow low	Bb1/e Bb1/e Hour
INTERVALS,	FRACTURING	S FORM PUT TO OR STIMULATE CHATIC DETAIL TERED BY THE	ING, PHYSIC ED GEOLOGIC WELLBORE.	TAL CHANGE,	FTC 21	THE MET
		By:	Bradlen	W. Hlym		

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AUG 1 3 2015

full 1V-35

DETAILS OF PERCONALED THICKNAIS, FINCTURERS ON STRUKATING, PHYSICAL CHARE, ETC.

RAVENCLIFF (1397-1470) 30 holes, 750 Jel 15/0 HCL, 600 BBZ 750 FDAM, 500 5KS 20/40 SAHD

WELL LOG .

THE THE STATE OF STAT	JOD LEEL	toricti feer	Including indication of all fresh and salt water, cool, oil and gas
FILL	0	10	
SAND & SHALE	10	41	1"STREAM HIDE ED'
SAND	41	217	
SAND & SHALE	rıs	380	
COAL	380	384	
SAND & SHALE	384	472	NECELVISIN
COAL	472	475	All Laws on the second
SAND .	475	624 .	JAN 22 1990 2
SAND & SHALE	624	710	DIVISION OF OIL & GAS
COAL & SHALE	710	713	DEPARTMENT OF LNERGY
SAND	713	750	
SAND & SHALE	750	1420	
RAVENCLIFF	1420	1520	277.457
AVIS	A. Second		GAS SHOW
3.1. 0.	1520	15/00	
SAND \$Shile	1560	DTD DTG	

9403

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Office of Oil and Gas

AUG 1 3 2015

WW-4A	
Revised	6-07

1) Date:	JULY 8TH, 2	015		
2) Operator WB 21	's Well Numb	oer		
2) ADI Wall	N 47	100	01115	

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

(a) Name	vner(s) to be served: PINNACLE LAND COMP		(a) Coal Operator Name	PINNACLE LAND COMP	ANY	
Address	PO BOX 446	ANI	Address	PO BOX 446	ANT	
Address	MAN, WV 25635	~	Address	MAN, WV 25635		
(b) Name	111111111111111111111111111111111111111		(b) Coal Ow	ner(s) with Declara	tion	
Address			Name	norte, with Decidin		
			Address			
(c) Name	- 220 Jack A	cres Rb	Name			7
Address	Buckhamon		Address			
6) Inspector	Your mul	ins		see with Declaration	n	
Address	1511 Bid 14	ace Fork ?	Name	PINNACLE LAND COMP	ANY & MECHEL BLUESTONE	
22.0	Harts, Live	25521	Address	PO BOX 446	PO BOX 1085	
Telephone	304.932.	6844	_	MAN, WV 25635	BECKLEY, WV 25802	2
(2) The	its and the plugging work plat (surveyor's map) sho n you received these documen you are not required to take an	wing the well locat uts is that you have ri		ation which are summarized	1 in the instructions on the rev	erses side.
(2) The The reason However, Take notic accompany Protection the Applic	plat (surveyor's map) sho n you received these documer you are not required to take an te that under Chapter 22-6 of ying documents for a permit to with respect to the well at the	wing the well locat its is that you have ri ny action at all. the West Virginia Co o plug and abandon a ne location described in mailed by registere	ghts regarding the application of the undersigned well of well with the Chief of the on the attached Application of or certified mail or deli	operator proposes to file or le Office of Oil and Gas, Western and depicted on the attact	has filed this Notice and Appliest Virginia Department of Envi hed Form WW-6. Copies of the on(s) named above (or by pub	cation and ironmental his Notice.
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The reason However, Take notic accompany Protection the Applic certain eiro	plat (surveyor's map) sho n you received these documer you are not required to take an ee that under Chapter 22-6 of ying documents for a permit t , with respect to the well at th ration, and the plat have been cumstances) on or before the co official SEAL OTARY FUBLIC WITE OF WEST WINGINIA ESSICA M. LOTT	wing the well locat its is that you have ri ny action at all. the West Virginia Co o plug and abandon a ne location described on mailed by registered day of mailing or deliv Well Operator By: Its: Address Telephone	ghts regarding the application de, the undersigned well of well with the Chief of the on the attached Application of certified mail or delivery to the Chief. K. PETROLUEM, INC. DESIGNATED AGENT 4299 NEWARD RD ELIZABETH, WV 2614	operator proposes to file or he Office of Oil and Gas, Western and depicted on the attackwered by hand to the personal forms of the	RECEIV Office of Oil a	ecation and ronmental his Notice, lication in ED and Gas 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 depprivacyoffier@wv.gov.

WW-9 (2/15)

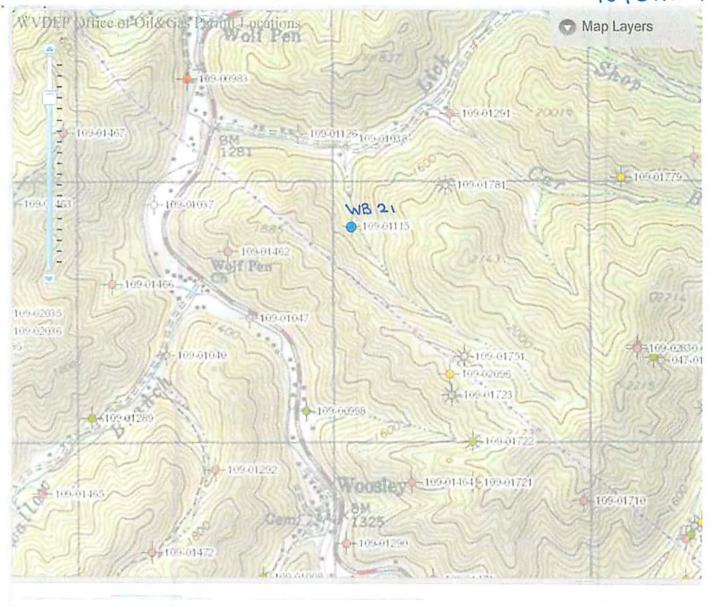
API Number	47 -	109	- 01115	
One	rator	Wall No	WB 21	

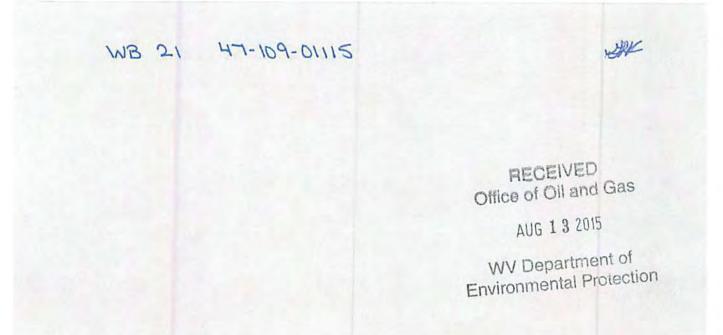
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DI	ISPOSAL & 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 con 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	
	rmit Number)
Reuse (at API Number	
Off Site Disposal (Supply form V Other (Explain PORTABLE PIT	WW-9 for disposal location)
Will closed loop system be used? If so, describe:	
Drilling medium anticipated for this well (vertical and horize	ontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium?	
	ved offsite, etc
	be used? (cement, lime, sawdust)
West Virginia solid waste facility. The notice shall be provide	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action. I certify under penalty of law that I have persona application form and all attachments thereto and that, ba obtaining the information, I believe that the information i penalties for submitting false information, including the poss	AUG 1 3 2015
Company Official (Typed Name) MICHAEL E. COLLINS Company Official Title DESIGNATED AGENT	Michael & Collaboration WV Department of Environmental Protect
Subscribed and sworn before me this 5+h day of My commission expires Aug. 7 20	Notary Public Notary Public Notary Public Notary Public Notary Public STATE OF WEST VIRGINA JESSICA M. LOTT BB District Dr. Davista, WV 28142 My Commission Expires August 7, 201

K. PETROLEUM. INC.		Operator's V	Vell No. WB 21
		2 Prevegetation pl	
Lime 2	_ Tons/acre or to correc	ct to pH 6.5	
Fertilizer type STRAW	V	<u>. 0</u>	
Fertilizer amount 500		lbs/acre	
Mulch		_Tons/acre	
		Seed Mixtures	
Tempo	orary	Perma	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
TALL FESCUE	40	TALL FESCUE	40
LADINO CLOVER	5	LADINO CLOVER	5
hotocopied section of involved			
lan Approved by:			
Comments:			
·			
"itle:		Date:	RECEIVED Office of Oil and







WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELLL	OCATION FORM: GPS	
API: 47-109-01115	WELL NO.:	WB 21
	NTAS LAND CORP.	
RESPONSIBLE PARTY NAM	E: K. PETROLEUM, II	NC.
COUNTY: WYOMING	DISTRICT: CE	NTER
QUADRANGLE: PINEVIL	_LE	
SURFACE OWNER: PINN	ACLE LAND COMPA	NY
ROYALTY OWNER: PINN	ICALE LAND COMPA	ANY
UTM GPS NORTHING: 415		
UTM GPS EASTING: 4480	72.1 GPS ELEVAT	TION: 1505'
above well. The Office of Oil and the following requirements: 1. Datum: NAD 1983, Z height above mean sea 2. Accuracy to Datum – 3. Data Collection Metho		es that do not meet
Rea	Post Processed Differential	RECEIVED
		Office of Oil and Gas
A Letter size copy of th	Real-Time Differential ne topography map showing the w	ell location
I do a send and the selection of C.	this data is correct to the best of my ion required by law and the regulation	knowledge and Department of ons issue Emploonmental Protection
amolaco	OFFICE MANAGER	JULY 8TH, 2015
Signature	Title	Date