

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

May 30, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3304289, issued to PDC MOUNTAINEER LLC, 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

James Martin

Chief

Operator's Well No: LOWNDES #9

Farm Name: DAVIS, LAURA GOFF, . ET AL

API Well Number: 47-3304289

Permit Type: Plugging

Date Issued: 05/30/2014

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

- 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 April 14,	, 2014
2) Operator's	
Well Na. Lowndes #9	
3) API Well No. 47	033 - 4209

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

5) Location: Elevation 327 m (1,073 ft) District Clark	Watershed Davisson Run County Harrison 33 Quadrangle Wolf Summit 7.5' 69
6) Well Operator PDC Mountaineer, LL	C 7) Designated Agent Steven P. Johnson
Address 120 Genesis Blvd.	Address 120 Genesis Blvd.
Bridgeport, WV 26201	Bridgeport, WV 26201
8) Oil and Gas Inspector to be noti Name Sam Ward	fied 9)Plugging Contractor Name TBD
Address P.O. Box 2327	Address
Buckhannon, WV 26301	
O) Work Order: The work order for -Check TD. Set with C1A cemes -Remove 5 3/8" at free point. Set plus with C1A cement from	ug at cut with C1A cement.
-Check TD. Set with C1A cemerater -Remove 5 3/8" at free point. Set plus -Set plug with C1A cement from -Remove 6 5/8" at free point. Set -Set 100' cement plug with C1A -Remove 10" at free point. Performance -Check TD. Set 100' cement plug with C1A -Remove 10" at free point.	ent plug td to 2132'. Tag BHP. ug at cut with C1A cement. n 1868' to 1709'. t plug with C1A cement at cut and 1431' and 1331'. A cement at elevation. Forate at 228' and 350' if cannot be removed. all monument with a minimum of 6" diameter with a minimum of 10' below surface
-Check TD. Set with C1A cemeral -Remove 5 3/8" at free point. Set plus -Set plug with C1A cement from -Remove 6 5/8" at free point. Set -Set 100' cement plug with C1A -Remove 10" at free point. Performance 10" at free	ent plug td to 2132'. Tag BHP. ug at cut with C1A cement. n 1868' to 1709'. t plug with C1A cement at cut and 1431' and 1331'. A cement at elevation. Forate at 228' and 350' if cannot be removed. all monument with a minimum of 6" diameter with a minimum of 10' below surface

GEL SPACER MUST BE PLACED IN WELL BETWEEN CEMENT PLUGS.

CEL MUST BE FRESH WATER WITH A MINIMUM 0 65/80/2014

(62) BENTONITE BY WEIGHT.

LOWNDES WELL

70. 9

Dr 122 ing	Commenced: May 24, 1911
Drilling	Completed: July 13, 1911

-			The street of th	Carly lyan	er tirtles ea y	CHRAST SE		100000000000000000000000000000000000000			
	May	24	Red Rock	20			6	Red Rock	50	1130	
	Mul	10.40	Conductor	12			12.	Slate	20	1140	
			Lime	4	14	-		Line	14		
			Slate	20	34		7	Red Rock	6		
				16				Lime	22		2.0
			Lime		73			Sand	28	1210	
			Slate	23				Line	20		
			Lime	20	93		0	Slate	7	1237	
		25	Red Rook	12	105		8				
			Lime	25	120			Red Rock	27		
			Slate	12					11	1290	
			Lime	20	152		•	Little Lime			
			Slate	28	180		9	Slate	18		
			10" Casing		188	2	10	Big Lime	62		
			Line	12	192			Small showing of	003	1431	
			Slate	23				Big Injun	114	1424	
		26	Lime	8			-	Shut down 8 days	for	6-5/9"	C S
			Slate	5			21	Slate & Shella	60		
			Goal (Water)	3				Gritty Line	35		
			Lime	18			22	Slate	10		
			Slate	24				Gritty Line	36		
			Lime	12	282		23	Slate & Shells	15		
			Red Rock	18				Lime	20		
			Lime	20			24	Slate & Shells	40		
			Sand	30	350		28	Lime	15	1715	
			ater 8 bailers	per	hro		27	Slate & Shells	45	1760	
		27	Pulled 10" Casti					Line	28	1788	
		29	Slate	9			28	Slate	15	1803	
			10" Casing		361			Berea Grit	12	1815	
			Lime	20	379			Showing of gas		1809	*
			Dlate	7	386			Slate	10	1825	
			Lime	34			29	Lime	13		
		30	Sand	35			100.00	Slate & Shells	17		
			Lime	95			30	Fifty Foot	40		
			Slate	5			37.0	Gas (Small)		1368	
		31	Line .	69				Lime	3		
		-	Slate	13		July	7	Thirty Foot	44	1942	
			Sand	43		ara g	- COA	Slate		1960	
	June	7	Slate	28	708		3	Sand	18	1978	
	O LATO G	-	Lime	40	748		3	Shute	14	1992	
			Slate & Shells	53	770		-	Sand & Shella	4	1996	
			1st Salt Sand	62	832		4	Red Rock CO	13	1999	
		2		18			-	Sand	18	2017	
		4	2nd Salt Sand	72	953			Slate	5	3023	
		3	Slate & Shells	39			5		20	2342	
		0	Lime	56	1016		2	blate MAY	8	2050	
		=	Slate	25				Sand			
		5		39				Red Pack Office of Oil	14	2064	0
			Line	39	7000			Red Rook Office of Office	Tendal b	3007	20
									The Appendix A	THE REPORT OF THE PARTY OF THE	e.B

5	Sand	8	2075	a pagamatan ngalawang sang	ు చిక్కార్లు	
A STATE OF THE STA	281 ate	0£	2107			
A term	8 and	25 10	2117		versit en in.	
	Shelle & Slote	40	2128			
•	5-3/16# Casing	00	2147			
8	Sand_	<i>30</i>				
	Red Rock	7	2154		•	
10	Sand	48	2202			
11	Slate	10	2212			
	Sand	15	2234			
	Showing of gas		<i>2222</i> .			
12	Slate	52	228 6			
13	Ton 5th Sand		228 6			
	1st Bit (Broken	sand)	<i>2295</i>			
	Showing of gas		229 1			
	2nd Bit (2nd Pay	sand)) ·		•	
•	3rd Dit (Sand)					
	4th Bit (Sand-ne	pay)		•		
	5th Bit (Sand)	, ,				
	6th Bit (Slate)			6-5/8"	Casing	0 • 0
	Total Depth		2326	5-3/16"	Casing	

Received

MAY = 7 2014

WW-4A Revised 6-07

1) Date:	4/14/2014	
2) Operator's V	Vell Number	
Lowndes #9		

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

3) API Well No.: 47 -

				ND ABANDON A WELL	1	
	ner(s) to be served:	(5)	(a) Coal Operato			
(a) Name	Willam G. Cather	V-	_ Name			
Address	800 Davisson Run		Address	-		
41.31	Clarksburg, WV 26301		- 410 10	(A 101 D 1 12		
(b) Name	-			vner(s) with Declaration		1
Address	4		Name	Dotson H. Cather, Trustee		
	-		Address	315 Spring Street		
2.5.5T			No.	Clarksburg, WV 26301		
(c) Name	-		Name	Laura Goff Davis		
Address			Address	P.O. Box 707		
				Clarksburg, WV 26302		
6) Inspector	Sam Ward			ssee with Declaration		
Address	P.O. Box 2327		Name			
	Buckhannon, WV 26201		Address			
Telephone						
The reason However, Take notic accompan Protection the Applie	you are not required to take a see that under Chapter 22-6 of ying documents for a permit by with respect to the well at t	nts is that you have rig my action at all. The West Virginia Cod to plug and abandon a the location described of mailed by registered	this regarding the appli ie, the undersigned well well with the Chief of the in the attached Applicate or certified mail or de	operator proposes to file or has file of Office of Oil and Gas, West Virg on and depicted on the attached Folivered by hand to the person(s) in	ed this Notice and inia Department o	Application and of Environmental es of this Notice,
		Well Operator By: Its: Address	PDC Mogntaineer, LL VACHEN Designated Agent 120 Genesis Blvd.	P Johnso	Rece	ived
			Bridgeport, WV 2633)	MAY -	78.14
		Telephone	304-842-3597			
Subscribed and	l swora before me th	is 23rd d	ay of <u>An</u>	Notary Public	STATE OF THE PARTY	Official Seal Notary Public
1.	Louis 6	of ul		Notary Public	FI COLD	State of West Virginia
My Commission	n Expires	0 6	euch 15	2018	1200	S. Louise Edgell sensus Blvd, Bridgeport, WV 26330
Oil and Gas Priv	vacy Notice	/	2		MyCo	oromission Expires August 15, 2018

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 Rev. 5/08

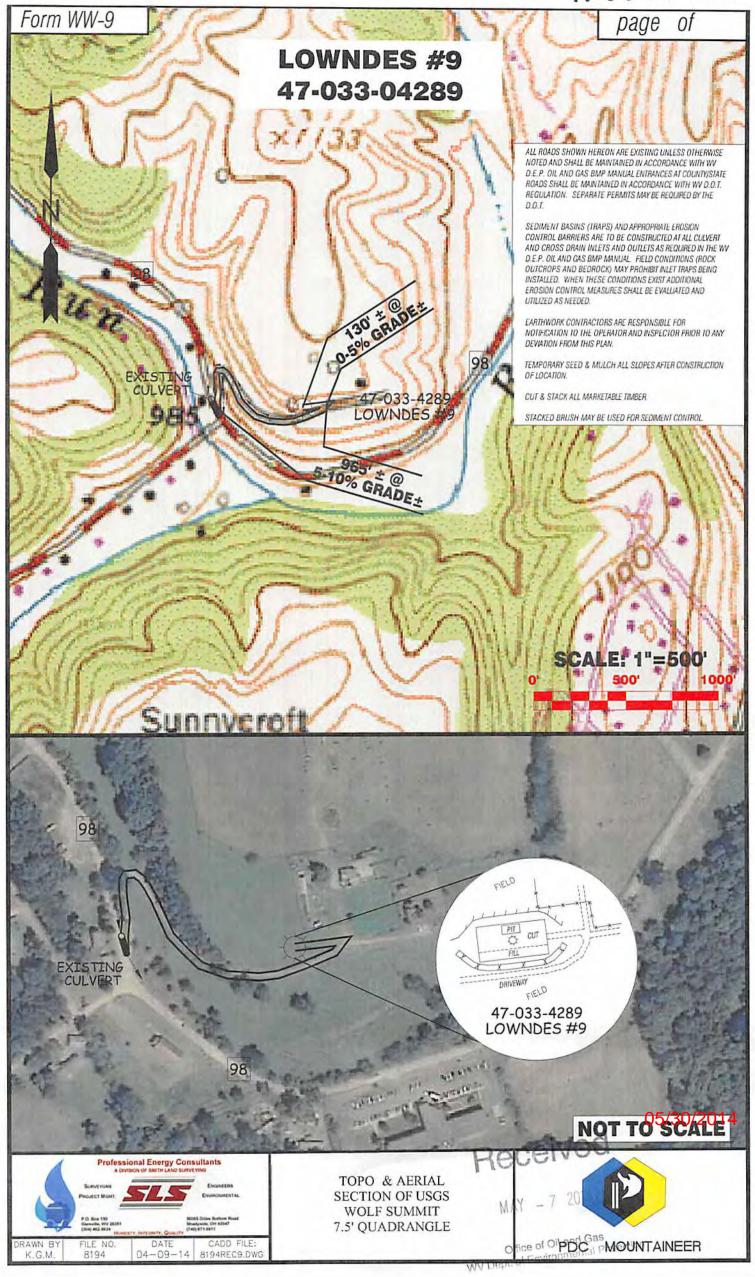
	Page	200	of	
API Number 47	033		4289	
Operator's Well N	lo. Lownde	s #9		

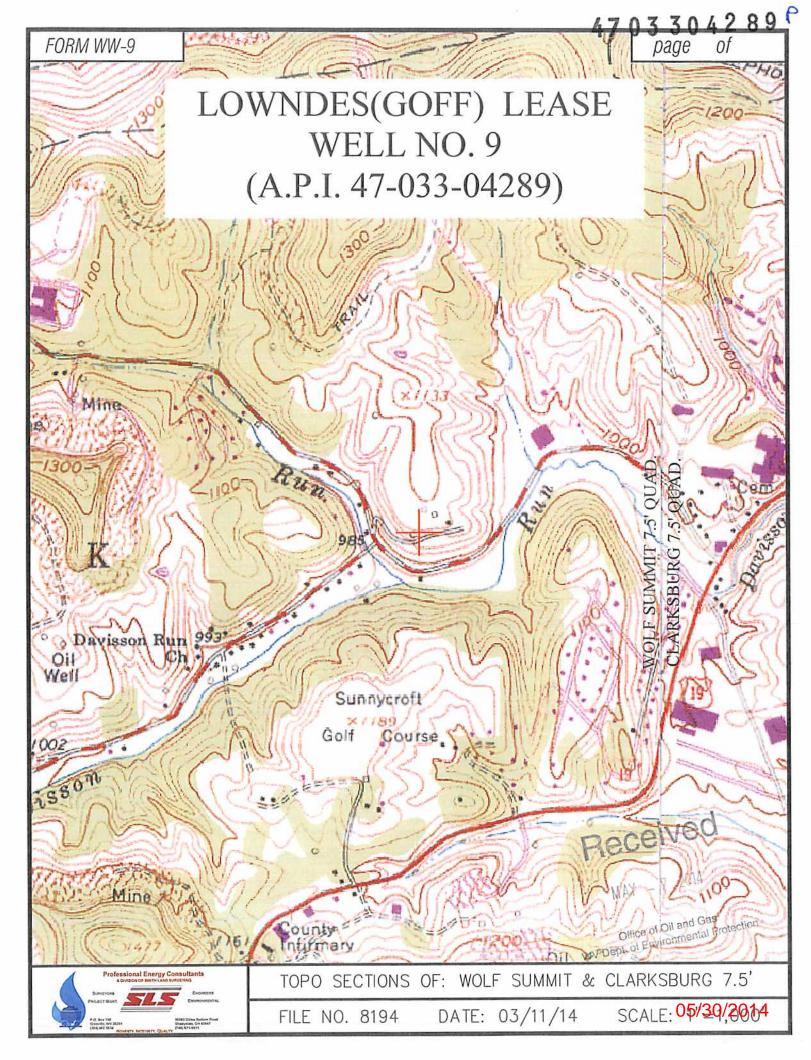
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name PDC Mountaineer, LLC	OP Code 494494839
Watershed Davisson Run	Quadrangle Wolf Summit 7.5'
Elevation 327 m (1,073 ft.) County Harrisc	on _{District} Clark
Description of anticipated Pit Waste: Produced Fluids	
Will a synthetic liner be used in the pit? Yes 20 MIL	
Proposed Disposal Method For Treated Pit Wastes: Land Application 593	
XX Underground Injection (UIC Pern	nit Number #2459, Noble County, Ohio
Reuse (at API Number	
Off Site Dispposal (Supply form V	WW-9 for disposal location)
Other (Explain	
	Swabbing Speed 4/24/2014
Proposed Work For Which Pit Will Be Used:	51/12014
Drilling	Swabbing
Workover	xx Plugging
Other (Explain_	
aw or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, bas	of any term or condition of the general permit and/or other applicable lly examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.
Designated Agent	1,600
Company Official Title	= 70
	MAY = T YSDA
Subscribed and sworn before me this 23pd day of	April , 20 14 Office of Oil and Gas
A. Louis Coque	Notory Fuel State of West Vergins
	S. Louise Edgell 120 Geness Blvd, Bridgepart, WV 20220 My Commission Expires August 15, 2019

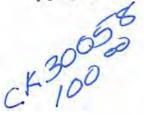
	LEGEND	
Property Boundary	Diversion (1:1(111111111111111111111111111111111	HILLIAN LINE
Road = = = = = = = = = =	Spring O	
Existing Fence — X — X — X -	Wet Spot &	
Planned Fence / / /	Drain Pipe with size in inches	— ^③ —→
Stream	Waterway C+ C+	$\Rightarrow \Leftrightarrow \Leftrightarrow \Leftrightarrow$
Open Ditch	Cross Drain	TITITITE
Rock & Se See	Artificial Filter Strip XXXX	XXXXXXXXXXXX
North N	Pit: cut walls	44.7
Buildings	Pit: compacted fill walls	Will the same
Water wells W	Area for Land Application of Pi	t Waste
Drill site		
Proposed Revegetation Treatment: Acres Disturbe		TBD
Fertilizer (10-20-20 or equivalent) 500	lbs/acre (500 lbs minimum)	
_{Mulch} hay or straw	Tons/acre	
	C-11/0-4	
	Seed Mixtures	
Area I	Area	
Seed Type lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass 40	Orchard Grass	15
Alsike Clover 5	Alsike Clover	5
Annual Rye 1		
Attach: Drawing(s) of road, location,pit and proposed area Photocopied section of involved 7.5' topographic s		
Plan Approved by: 500	anot 14	
Comments:		Received
Title: Oil and gas inspector	Date: 4/24/2014	MAY - 7 2014
Field Reviewed? () Yes	(X)No	Office of Oil and Gas





WW-7 8-30-06





West Virginia Department of Environmental Protection Office of Oil and Gas

API: 47-033-4289	FION FORM: GPS WELL NO.: Lowndes #9
FARM NAME: Lowndes (Go	ff)
RESPONSIBLE PARTY NAME: P	DC Mountaineer, LLC
COUNTY: Harrison	DISTRICT: Clark
QUADRANGLE: Wolf Summi	t
SURFACE OWNER: Laura Got	ff Davis (TM 305 Parcel 32)
ROYALTY OWNER: Laura Go	
UTM GPS NORTHING: 4346866	6
UTM GPS EASTING: 553160	GPS ELEVATION: 327 m 1072
preparing a new well location plat for a plu above well. The Office of Oil and Gas will the following requirements:	ers ed Differential
Real-Time D Mapping Grade GPS X: Post Proce	essed Differential X
	e Differential WAY = 7 2014
어느 그는 사람이 아내는 아내가 나를 가장하게 하는 것이 없는 것이 없다면 하는데 살아 없다면 살아 있다.	raphy map showing the well location. is correct to the best of my knowledge and flice of Oil and Gas red by law and the regulations issued and of Environmental Protect

Date



PDC Mountaineer, LLC 120 Genesis Boulevard Bridgeport, WV 26330 304-842-3597 304-808-0913 (fax)

May 5, 2014

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304-2345 Attn: Justin Nottingham

Re: PDC Mountaineer, LLC; Application to Plug and Abandon 47-033-04289 (Lowndes #9),

Clark District, Harrison County, WV.

Dear Mr. Nottingham,

Please find subject application and \$100.00 fee enclosed. If you have any questions or comments regarding this application feel free to contact me at 304-842-3597 x 6558.

Sincerely,

Steven P. Johnson

Senior Regional Landman / Agent

I teren P. John

Enc.

Received

MAY - 1 - 1/1/1

Officer of the control Property of the control of the