



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

June 19, 2014

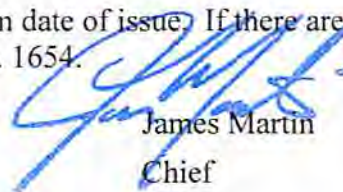
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3304286, 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 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: LOWNDES 6
Farm Name: HARRISON CO. BRD. OF EDUCA
API Well Number: 47-3304286
Permit Type: Plugging
Date Issued: 06/19/2014

Promoting a healthy environment.

06/20/2014

WW-4B
Rev. 2/01

1) Date April 24, 2014
2) Operator's
Well No. Lowndes #6
3) API Well No. 47-033 - 01285

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 XX / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production XX or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 333m (1,092 ft) Watershed Washburn Camp Run
District Clark \ County Harrison 87 Quadrangle Wolf Summit 7.5' 692

6) Well Operator PDC Mountaineer, LLC 7) Designated Agent Steven P. Johnson
Address 120 Genesis Blvd. Address 120 Genesis Blvd.
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified Name Sam Ward 9) Plugging Contractor Name TBD
Address P.O. Box 2327 Address _____
Buckhannon, WV 26201

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

- Check TD. Set with C1A cement plug 2986' to 2881' and 2303' to 2195'. Tag BHP.
- Remove 5 3/8" at free point. Set plug at cut with C1A cement.
- Set plug with C1A cement 1882' to 1722'.
- Remove 6 5/8" at free point. Set plug with C1A cement at cut.
- Set 100' with C1A cement plug at elevation.
- Remove 8 1/2" at free point. Set plug with C1A cement at cut. Remove 10" at free point.
- Set plug with C1A cement from 260' to surface. Install monument with a minimum of 6" diameter with a minimum of 10' below surface in well bore, also with a minimum 30" above surface and filled with concrete not cement.

and affix API # **GCS**
6/19/14

All plugs must be 100' minimum length SDCU

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

Work order approved by inspector S. D. Warratt Date 4/25/2014

MAY - 2014

Office of Oil and Gas
WV Dept. of Environmental Protection
06/26/2014

LOWDES TELL NO. 9

Drilling Commenced: January 4, 1911

Drilling Completed: February 13, 1911

Date	Material	Quantity	Value	Date	Material	Quantity	Value
Jan. 4	Conductor		10	17	Slate	9	1109
	Sand	28	38		Red Rock	16	1135
	Slate	18	58		Lime	37	1162
	Lime	20	76		Red Rock	4	1166
5	Slate	24	100		Lime	16	1182
	Lime	14	114	18	Sand	13	1195
	Slate	34	148		Lime	25	1220
	10" Casing	143			Slate	9	1239
	Lime	22	170		Red Rock	42	1271
6	Slate	40	210		Slate	9	1280
	Lime	8	218		L. Lime	10	1290
	Slate	22	240	19	Slate	18	1308
	Coal	2	242	20	Big Lime	60	1368
	Slate	10	252	23	Injun	107	1475
7	Lime	11	263		6-5/8" Casing		1412
	Red Rock	12	275	25	Slate & Shells	70	1545
	Lime	23	297	26	Gritty Lime	73	1618
	Slate	9	306	27	Slate	23	1640
	Sand	14	320		Shells & Slate	12	1652
	Slate	24	344		Slate	24	1676
	Lime	12	358		Lime	10	1686
	Slate	24	380	28	Slate	33	1719
	Lime	18	398		Slate & Shells	40	1759
9	Slate	25	423		Lime	25	1784
	D. Sand	105	528	30	Slate & Shells	12	1796
10	Slate	7	535		Berea Grit	16	1812
	Lime	19	554		Slate	18	1830
	Slate	6	560	31	Slate & Shells	29	1859
	Lime	8	568	Feb. 1	Fifty Foot	34	1893
	Slate	30	598		Gas at steel line		1872
	Gas Sand	46	644		13 ft. in Sand		
11	Slate	6	650		1st gas measurement		2,100,000
	Sand	45	695	2	Slate	5	1898
	Slate	22	717	3	Thirty Foot	98	1936
	Lime	14	731	4	Slate	6	1942
	Slate	14	745		Sand	9	1951
	Sand	12	757		Slate	4	1955
	Slate	20	777	6	Sand	20	1975
12	1st Salt Sand	35	812		Slate	10	1985
	Slate	20	832		Sand & Shells	4	1989
	Lime	6	838	7	Red Rock	19	2008
13	2nd Salt Sand	107	945		Sand & Shells	4	2012
	Water 3 bailers	845			Slate	8	2020
	Slate	8	953		Sand	12	2032
14	Lime	24	977		Slate	6	2038
	2 1/2" Casing	972			Shells	4	2042
16	Slate	12	989	8	Red Rock	10	2052
	Lime	48	1037		Sand	7	2059
	Slate	50	1087		Red Rock	6	2065
17	Lime	13	1100	9	Sand	42	2108

Received

MAY

Office of Oil and Gas
WV Dept. of Environmental Protection

LOWNDES WELL NO. 8 - Cont. (2)

10	5-9/16" Casing	3107	
11	Slate	3114	
12	Sand	3156	
	Red Rock	3161	
13	Sand	41	2202
	Slate	10	2212
14	Sand	29	2241
15	Slate	4	2245
	Lime	4	2249
	Slate	34	2283
16	Top 5th Sand		
	Steel line		2283
	Gas in 5th Sand	2295 to 2303	
	Total Depth		2311

8 1/2" Casing
 6-5/8" Casing ...
 5-3/16" Casing ..

DRILLING DOWN RECORD

Drilling Commenced: November 7, 1929
 Drilling Completed: December 3, 1929

F. G. Blah,
 Drilling Contractor

Pulled tubing Nov. 7 & 8, 1929
 Started to clean out and drill at depth of 2285 ft.
 Cleaned out and drilled to 2439 ft.

Slate & Shells	2311	2800
Lime	2800	2830
Slate & Shells	9-2830	2981
Speckley Sand	2981	2989
Gas	2982	2986
Run steel line	2982	
Slate & Shells	2989	3020
Total Depth		3020

Received

MAY 1929

Office of Oil and Gas
 WV Dept. of Environmental Protection

WW-4A
Revised 6-07

1) Date: 4/28/2014
 2) Operator's Well Number
 Lowndes #6
 3) API Well No.: 47 - 033 - 04286

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>Harrison County Board of Education</u>	Name _____
Address <u>32 Crooked Run Road</u>	Address _____
<u>Clarksburg, WV 26301</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>H. Dotson Cather, Trustee</u> ✓
	Address <u>315 Spring Avenue</u>
	<u>Clarksburg, WV 26301</u>
(c) Name _____	Name <u>Laura Goff Davis</u> ✓
Address _____	Address <u>P.O. Box 707</u>
	<u>Clarksburg, WV 26301</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name _____
<u>Buckhannon WV 26201</u>	Address _____
Telephone <u>304-472-9742</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 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 PDC Mountaineer, LLC
 By: Steven P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd.
Bridgeport, WV 26330
 Telephone 304-842-3597

Subscribed and sworn before me this 28th day of April 2014
Rachel Wyckoff Notary Public
 My Commission Expires March 14, 2022

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 depprivacyofficer@wv.gov.

Received 06/20/2014

MAY - 7 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

4703304286

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

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041112202524

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MAY - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Lowndes #6 P&A Notice



PDC MOUNTAINEER

Steve Johnson
120 Genesis Boulevard
P.O. Box 26
Bridgeport, West Virginia 26330

TO: Harrison County Board of Ed.
Attn: Anthony Fratto
32 Crooked Run Rd.
Clerksburg, WV 26301




Date: April 29, 2014

Scott Raines:

The following is in response to your April 29, 2014 request for delivery information on your Certified Mail™ item number 9171969009350057244973. The delivery record shows that this item was delivered on April 29, 2014 at 1:20 pm in CLARKSBURG, WV 26301. The scanned image of the recipient information is provided below.

Signature of Recipient :

Delivery Section	
signature	X 
initials	SS Bartlett

Address of Recipient :

delivery address	RT 3 14917 2603
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Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

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WV Dept. of Environmental Protection

06/20/2014

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Office of Oil and Gas
WV Dept. of Environmental Protection

Lowndes #6 P&A Notice



Steve Johnson
120 Genesis Boulevard
P.O. Box 26
Bridgeport, West Virginia 26330

PDC MOUNTAINEER

TO:

Diana Goff Cather "M" Trust
H. Dotson Cather, Trustee
315 Spring Avenue
Clarksburg, WV 26301

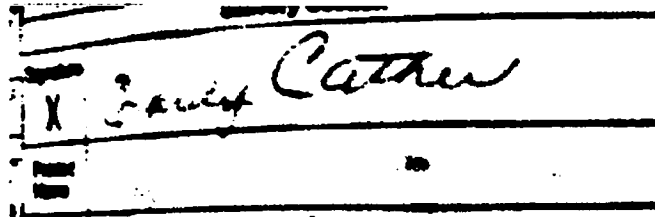
✓

Date: April 30, 2014

Scott Raines:

The following is in response to your April 30, 2014 request for delivery information on your Certified Mail™ item number 9171969009350057244980. The delivery record shows that this item was delivered on April 29, 2014 at 2:29 pm in CLARKSBURG, WV 26301. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

Received

MAY - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

06/20/2014

4703304286

Laundes # 6 P: A Notice



PDC MOUNTAINEER

Steve Johnson
120 Genesis Boulevard
P.O. Box 26
Bridgeport, West Virginia 26330

TO: Laura Goff Davis

P.O. Box 707

Clarksburg, WV 26301

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE
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MAY - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



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\$06.00

06/20/2014

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 Washburn Camp Run Quadrangle Wolf Summit 7.5'

Elevation 333.0 m County Harrison District Clark

Description of anticipated Pit Waste: Produced Fluids

Will a synthetic liner be used in the pit? Yes

*SDW
4/24/2014*

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- XX Underground Injection (UIC Permit Number #2459, Noble County, Ohio)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- XX Plugging

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 *Steven P. Johnson*

Company Official (Typed Name) Steven P. Johnson

Company Official Title Designated Agent

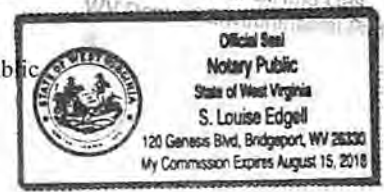
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MAY 7 2014

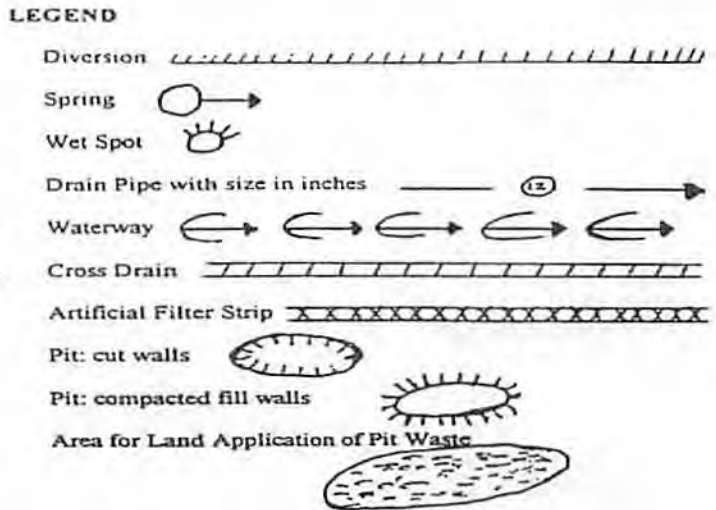
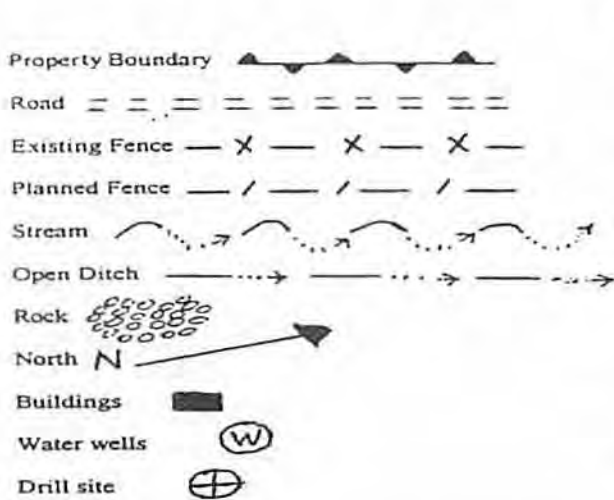
Subscribed and sworn before me this 24th day of April, 2014

S. Louise Edgell Notary Public

My commission expires August 15, 2018



06/20/2014



Proposed Revegetation Treatment: Acres Disturbed 1.4 acres +/- Prevegetation pH _____

Lime TBD by test Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch hay or straw, 1.5 ton/acre Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	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 for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Sgt D Ward III

Comments: _____

Title: _____

Date: 4/24/2014

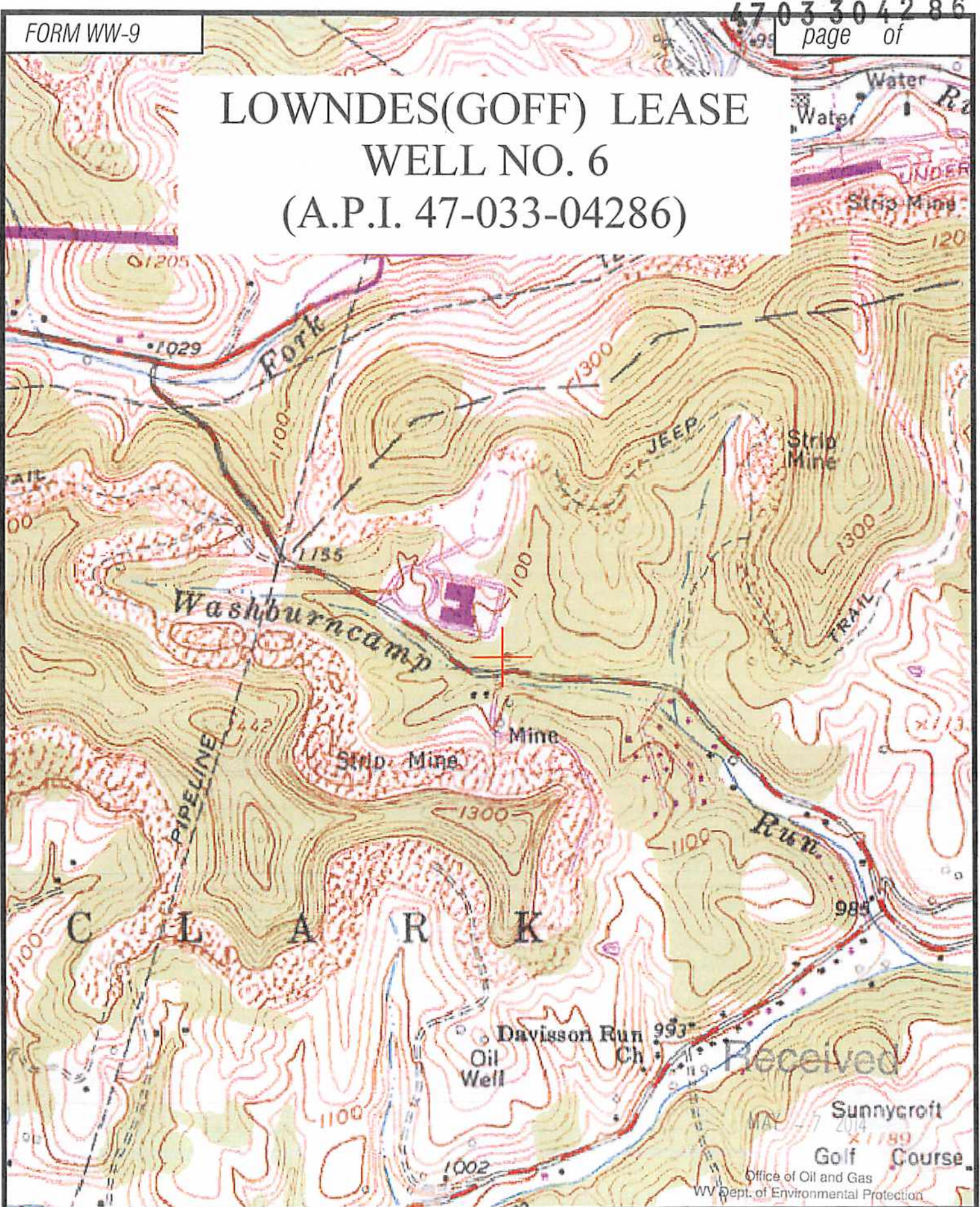
Field Reviewed? () Yes (X) No

Received

MAY - 2014

Office of Oil and Gas
WV Dept. of Environmental Protection
06/20/2014

LOWNDES(GOFF) LEASE WELL NO. 6 (A.P.I. 47-033-04286)



Received
 MAY 7 2014
 Sunnycroft
 Golf Course
 Office of Oil and Gas
 WV Dept. of Environmental Protection

TOPO SECTIONS OF: WOLF SUMMIT 7.5'

FILE NO. 8193

DATE: 03/11/14

SCALE: 1" = 1,000' 06/20/2014

Professional Energy Consultants
 A DIVISION OF BIRTH LAND SURVEYS


 SURVEYORS PROJECT MGMT. ENVIRONMENTAL ENGINEERS
 P.O. Box 1100 Grantsville, WV 26040 10001 Collins Burton Road Sharpsburg, OH 43082
 (304) 632-5634 (740) 671-9811

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-033-4286 WELL NO.: Lowndes #6
 FARM NAME: Lowndes (Goff)
 RESPONSIBLE PARTY NAME: PDC Mountaineer, LLC
 COUNTY: Harrison DISTRICT: Clark
 QUADRANGLE: Wolf Summit
 SURFACE OWNER: Harrison Co. Board of Education (TM 305 Parcel 32.1)
 ROYALTY OWNER: Laura Goff Davis et al
 UTM GPS NORTHING: 4347442
 UTM GPS EASTING: 552071 GPS ELEVATION: 333 m

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.

Gregory A. Smith, P.S. Agent 3-11-14
 Signature Title Date

Received

MAY - 7 2014

Office of Oil and Gas
Dept. of Environmental Protection

4703304286



PDC MOUNTAINEER

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

*CK 30060
\$ 100.00*

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 47-033-04286 (Lowndes #6),
Clark District, Harrison County, WV.

Dear Mr. Nottingham,

Please find subject application and \$100.00 fee enclosed. Also enclosed is an executed OP-77 and accompanying fee transferring said well from Petroleum Development Corporation to PDC Mountaineer, LLC. 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

Enc.

Received

06/20/2014



- oil & gas permits
- mining permits
- underground mines

Map Layers

- ESRI street map
- ESRI aerial
- simplified
- topo
- hillshade
- 1996 aerial
- 2003 aerial
- 2007 aerial
- 2009 aerial
- 2011 aerial

Measurement

| Feet

Measurement Result

344.9 Feet

4703304286