



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

July 08, 2016

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 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 #9
Farm Name: DAVIS, LAURA GOFF ., ET AL
API Well Number: 47-3304289
Permit Type: Plugging
Date Issued: 07/08/2016

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.

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WW-4B
Rev. 2/01

WV Department of
Environmental Protection

- 1) Date June 16, 2016
- 2) Operator's
Well No. Lowndes #9
- 3) API Well No. 47-033 - 04289F

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 x or Underground storage ___) Deep ___ / Shallow ___
- 5) Location: Elevation 327 m (1,0373 ft.) Watershed Davisson Run
District Clark County Harrison Quadrangle Wolfe Summit 7.5'
- 6) Well Operator PDC Mountaineer, LLC 7) Designated Agent Nathan Skeen
Address 65 Professional Place, Suite 200 Address 65 Professional Place, Suite 200
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil and Gas Inspector to be notified Name Sam Ward 9) Plugging Contractor Name Patchworks
Address P.O. Box 2327 Address 8165 Elizabeth Pike
Buckhannon, WV 26301 Elizabeth, WV 26143

- 10) Work Order: The work order for the manner of plugging this well is as follows:
 - Check TD. Set with C1A cement plug td to 2132'. Tag BHP.
 - Remove 5 3/8" at free point. Set plug at cut with C1A cement. *MINIMUM 100' CIA PLUG*
 - Set plug with C1A cement from 1868' to 1709'. *(GAS SIBU)*
 - Remove 6 5/8" at free point. Set plug with C1A cement at cut and 1431' and 1331'.
 - Set 100' cement plug with C1A cement at elevation.
 - Remove 10" at free point. Perforate at 228' and 350' if cannot be removed.
 - Set plug with C1A cement from 400' to surface. Install monument with a
minimum of 6" diameter with a minimum of 10' below surface in well bore, also with a minimum of 30" above surface and filled with concrete not cement.

★ ALL CIA PLUGS MUST BE A MINIMUM OF 100'. ★ GEL SPACERS PLACE BETWEEN ALL CIA PLUGS.

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

Work order approved by inspector *Sam Ward* Date 7/6/2016
Office of Oil and Gas

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07/08/2016

JUL 07 2016

47 03 30 42 89 F

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LOWMEYER WELL

NO. 9

Drilling Commenced: May 24, 1911
Drilling Completed: July 30, 1911

May 24	Red Rock	10	6	Red Rock	50	1130	
	Conductor	12		Slate	10	1140	
	Lime	4	14	Lime	14	1154	
	Slate	20	34	7	Red Rock	6	1160
	Lime	16	50	Lime	22	1182	
	Slate	23	73	Sand	28	1210	
	Lime	20	93	Lime	20	1230	
25	Red Rock	12	105	8	Slate	7	1237
	Lime	15	120	Red Rock	17	1254	
	Slate	12	132	Slate	11	1265	
	Lime	20	152	Little Lime	25	1290	
	Slate	28	180	9	Slate	18	1308
	10" Casing		188	10	Big Lime	62	1370
	Lime	12	192		Small showing of gas		1431
	Slate	23	215		Big Injun	114	1424
26	Lime	8	221		Shut down 8 days for 6-5/8" gas		
	Slate	5	226	21	Slate & Shells	60	1544
	Coal (Water)	2	228		Gritty Lime	35	1579
	Lime	18	246	22	Slate	10	1589
	Slate	24	270		Gritty Lime	36	1625
	Lime	12	282	23	Slate & Shells	15	1640
	Red Rock	18	300		Lime	20	1660
	Lime	20	320	24	Slate & Shells	40	1700
	Sand	30	350	26	Lime	15	1715
	ater 8 bailers per hr.			27	Slate & Shells	45	1760
27	Pulled 10" Casing & rined.				Lime	28	1788
29	Slate	9	359	28	Slate	15	1803
	10" Casing		361		Berea Grit	12	1815
	Lime	20	379		Showing of gas		1809
	Slate	7	386		Slate	10	1825
	Lime	34	420	29	Lime	13	1838
30	Sand	35	455		Slate & Shells	17	1855
	Lime	95	550	30	Fifty Foot	40	1895
	Slate	5	555		Gas (Small)		1868
31	Lime	69	624		Lime	3	1898
	Slate	13	637	July 1	Thirty Foot	44	1942
	Sand	43	680		Slate	18	1960
June 1	Slate	28	708	3	Sand	18	1978
	Lime	40	748	3	Slate	14	1992
	Slate & Shells	22	770		Sand & Shells	4	1996
	1st Silt Sand	62	832	4	Red Rock	3	1999
2	Slate	18	850		Sand	18	2017
	2nd Silt Sand	72	922		Slate	5	2022
3	Slate & Shells	33	960	5	Sand	20	2042
	Lime	56	1016		Slate	8	2050
5	Slate	25	1041		Sand	14	2064
	Lime	39	1080		Red Rock		2067

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LOWDES WELL NO. 9 - Cont'd.

5	Sand	8	2075
6	Slate		2082
	Sand	25	2107
7	Shells & Slate	10	2117
	5-9/16" Casing		2122
8	Sand	30	2147
	Red Rock	7	2154
10	Sand	48	2202
11	Slate	10	2212
	Sand	15	2234
	Showing of gas		2222
12	Slate	52	2286
13	Top 5th Sand		2286
	1st Bit (Broken sand)		2295
	Showing of gas		2291
	2nd Bit (2nd Pay sand)		
	3rd Bit (Sand)		
	4th Bit (Sand-no pay)		
	5th Bit (Sand)		
	6th Bit (Slate)		
	Total Depth		2326

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

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Received

MAY - 1 2014

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WV Dept. of Environmental Protection

36

07/08/2016

WW-4A
Revised 6-07

1) Date: 7/7/2016
2) Operator's Well Number Lowndes 9

3) API Well No.: 47 - 033 - 04289P

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

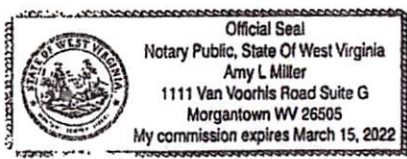
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>William G Cather</u>	Name _____
Address <u>800 Davisson Run Road</u>	Address _____
<u>Clarksburg, WV 26301</u>	
(b) Name <u>Diana Goff Cather Trust, "C"</u>	(b) Coal Owner(s) with Declaration
Address <u>800 Davisson Run Road</u>	Name <u>Diana Goff Cather Trust, "C"</u> ✓
<u>Clarksburg, WV 26301</u>	Address <u>800 Davisson Run Road</u>
	<u>Clarksburg, WV 26301</u>
(c) Name _____	Name _____
Address _____	Address _____
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 _____	

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 Mountaineer Keystone, LLC
 By: Nathan Skeen
 Its: Designated Agent
 Address 6031 Wallace Road EXT., Suite 300
Wexford, PA 15090
 Telephone 724-940-1202

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Office of Oil and Gas

JUL 08 2016

WV Department of Environmental Protection

Subscribed and sworn before me this 7th day of July, 2016
Amy L Miller Notary Public
My Commission Expires 3-15-2022

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.

SURFACE OWNER WAIVER

Operator's Well
Number

Lowndes #9

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

William G. Gattow Date 7/7/16
Signature of Oil and Gas

Name _____
By _____
Its _____ Date _____

JUL 08 2016

Signature

Date 07/08/2016

SURFACE OWNER WAIVER

Operator's Well
Number

Lowndes #9

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FOR EXECUTION BY A NATURAL PERSON
ETC.

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Office of Oil and Gas

FOR EXECUTION BY A CORPORATION,
^{Trust}
DIANA GOFF COTHELL TRUST

William Goff Cotter

Signature
JUL 08 2016

Date

Name
By
Its

Trustee

Date *7/7/16*

Signature

Date **07/08/2016**

WW-4B

API No. 47-033-04289PFarm Name Lowndes (Goff)Well No. Lowndes #9

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____ / owner ____ / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 7-7-16

Diana Goff Coffey Trust ✓

By: William Goff Coffey

Its Trustee

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07/08/2016

WW-9
(5/16)

API Number 47 - 033 - 04289P
Operator's Well No. Lowndes #9

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Mountaineer Keystone, LLC. OP Code 494494839

Watershed (HUC 10) Davisson Run Quadrangle Wolf Summit 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 (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No land pit, portable pit is used.)

*SDW
7/6/2016*

Will closed loop system be used? If so, describe: No

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. Portable pit is used for any plugging fluids.

-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 April 1, 2016, 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 *Nathan Skeen*

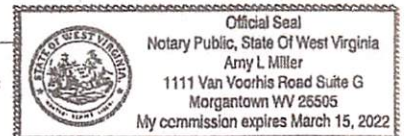
Company Official (Typed Name) Nathan Skeen

Company Official Title Designated Agent

Subscribed and sworn before me this 10th day of June, 2016

Amy L Miller Notary Public

My commission expires 3-11-16



WV Department of Environmental Protection

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Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		Fescue	40
		Ladino Clover	5
		Rye Grass	16

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Reclaim & Reseed ASAP

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WV Department of
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Title: Oil and Gas Inspector Date: 7/6/2016

Field Reviewed? () Yes (X) No

Form WW-9

page of

LOWNDES #9 47-033-04289

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH NY D E P OIL AND GAS BHP MINERAL ENTRAPMENTS REGULATIONS. ROAD SHALL BE MAINTAINED IN ACCORDANCE WITH NY D O T REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D O T.

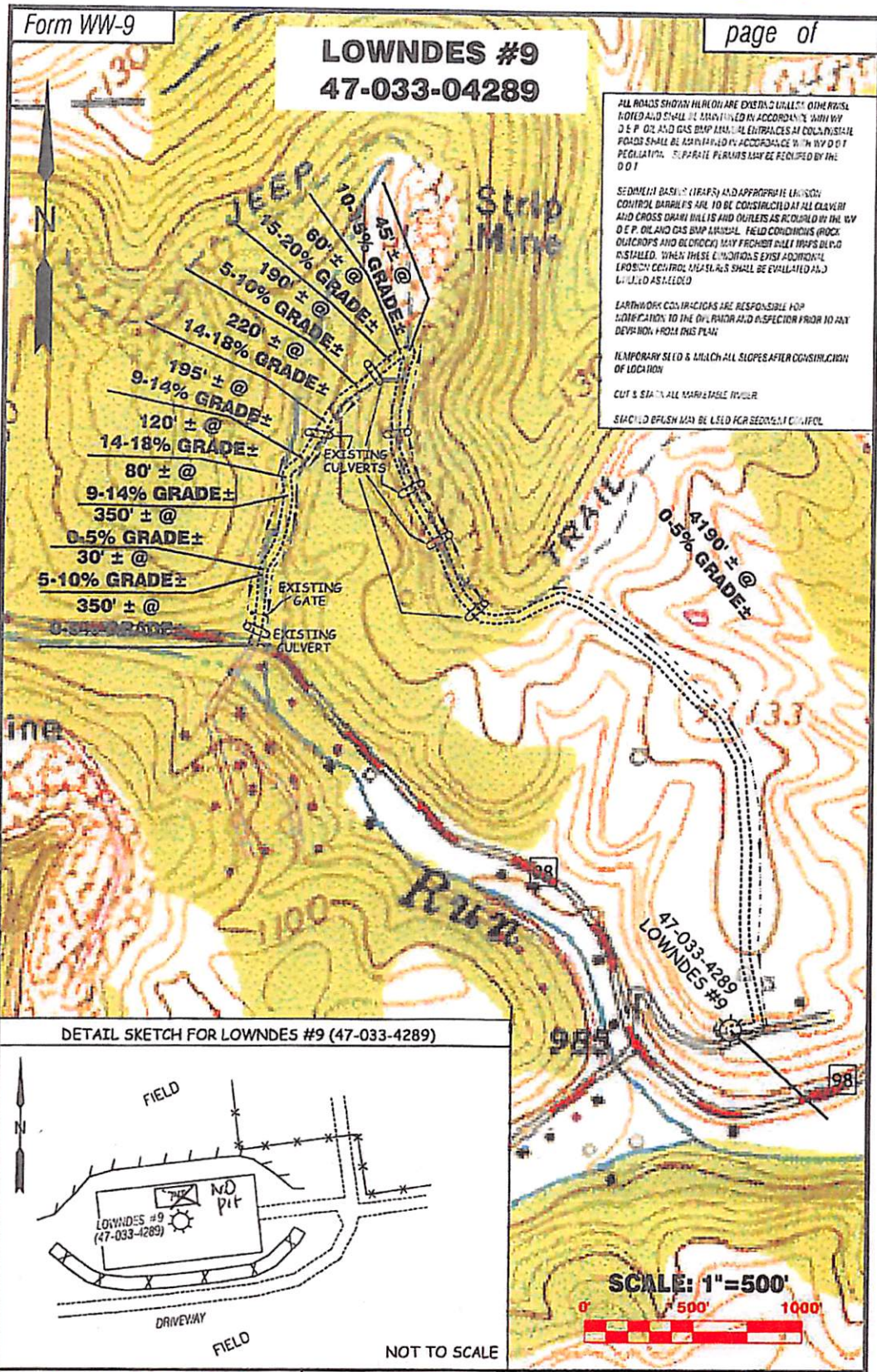
SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CREEPER AND CROSS DRAIN BULLS AND OUTLETS AS REQUIRED BY THE NY D E P OIL AND GAS BHP MINERAL. FIELD CONDITIONS (ROCK OUTCROPS AND BLOCCOCK) MAY PREVENT FULL TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS FEASIBLE.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE DISTRICT AND INSPECTION PRIOR TO ANY DEVIATION FROM THIS PLAN.

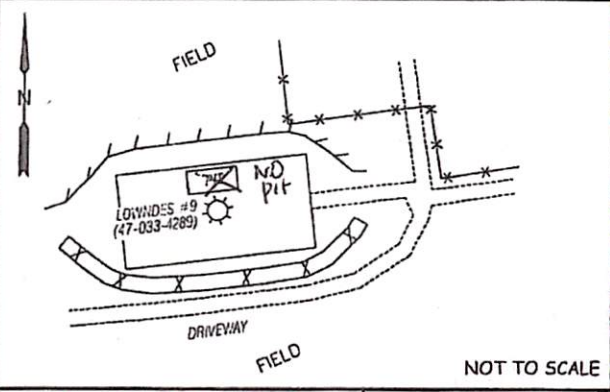
TEMPORARY SEED & MULCH ALL SLOPES AFTER COMPLETION OF LOCATION.

CUT & SLOPE SHALL MAINTAINABLE INVOLE.

SHOULDER BUSH MAY BE USED FOR SEDIMENT CONTROL.



DETAIL SKETCH FOR LOWNDES #9 (47-033-4289)



WV Department of
Environmental Protection

JUL 07 2016

REC'D
Office of Oil and Gas

Professional Energy Consultants
A Division of S&P Energy Services, Inc.

SUMMIT WOLF
SLS
Energy Services, Inc.

Professional Energy Consultants
A Division of S&P Energy Services, Inc.

DRAWN BY K.D.W.	FILE NO. 8194	DATE 07-23-14	CADD FILE: 8194REC9R.DWG
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TOPO SECTION OF USGS
WOLF SUMMIT 7.5' QUADRANGLE



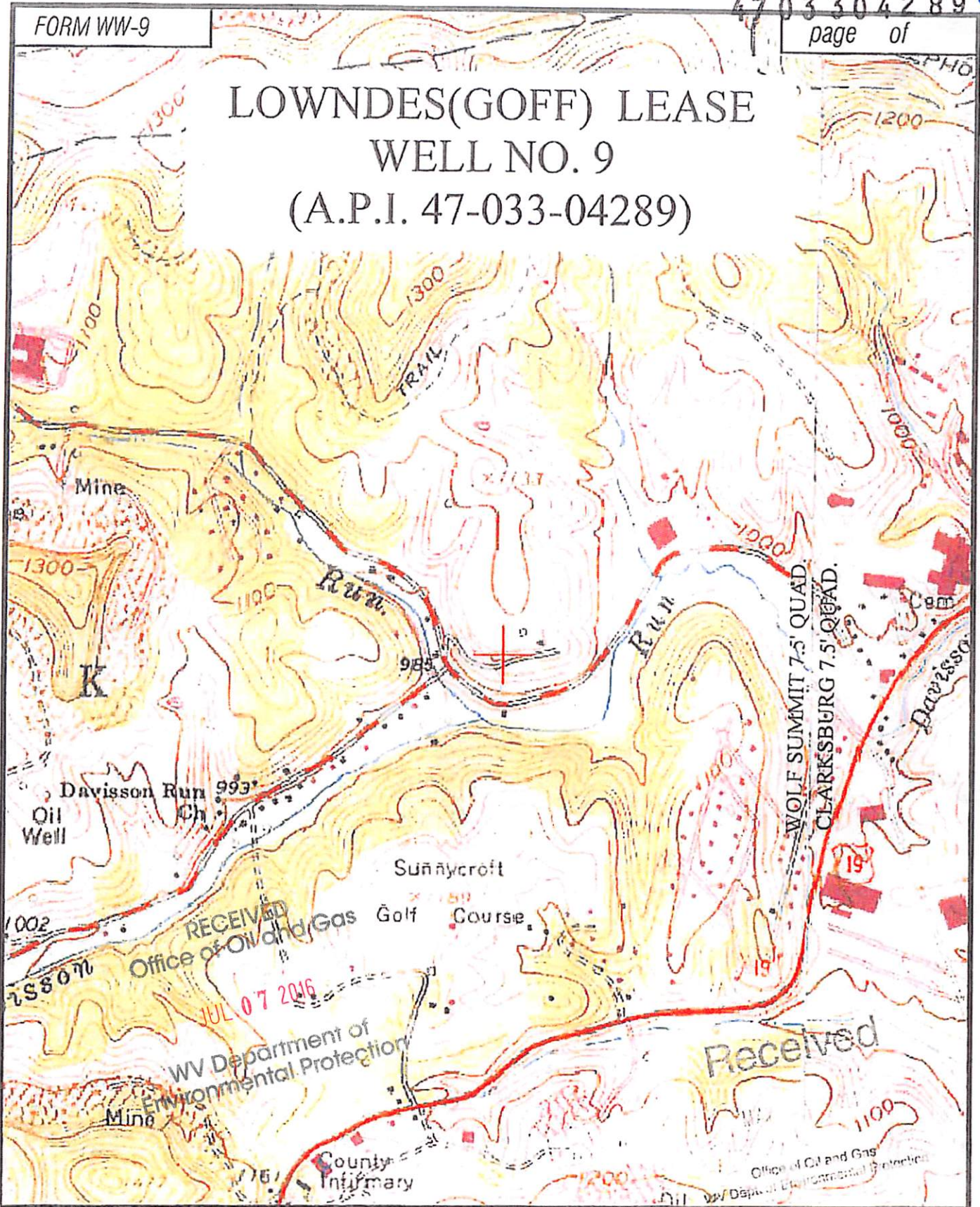
PDC MOUNTAINEER

07/08/2016

4703304289 P
page of

FORM WW-9

LOWNDES(GOFF) LEASE WELL NO. 9 (A.P.I. 47-033-04289)



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Office of Oil and Gas
JUL 07 2016
WV Department of
Environmental Protection

Received

Office of Oil and Gas
WV Department of Environmental Protection

Professional Energy Consultants
LAND SURVEYING AND SURVEYS

Surveying
Engineering
Environmental

1000 1st St
Summers, WV 26041
304.271.1111

WV State Survey License
No. 10000
Professional Seal

TOPO SECTIONS OF: WOLF SUMMIT & CLARKSBURG 7.5'

FILE NO. 8194 DATE: 03/11/14 SCALE: 1"=1,000'

07/08/2016

3304289P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-04289P WELL NO.: Lowndes # 9
FARM NAME: Lowndes (Goff)
RESPONSIBLE PARTY NAME: PDC Mountaineer, LLC
COUNTY: Harrison DISTRICT: Clark
QUADRANGLE: Wolfe Summit 7.5'
SURFACE OWNER: William G. Cather
ROYALTY OWNER: Laura Goff Davis et al
UTM GPS NORTHING: 4346866
UTM GPS EASTING: 553160 GPS ELEVATION: 327 m (1072')

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.

Amy Miller Signature Regulatory Compliance Specialist Title 10-16-16 Date

WV Department of
Environmental Protection

JUL 07 2016

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07/08/2016