



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 21, 2014

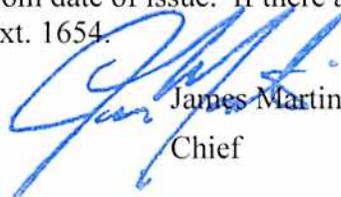
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-100584, 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: 2-S-273-CH
Farm Name: ZACAVICH, FRANK
API Well Number: 47-100584
Permit Type: Plugging
Date Issued: 07/21/2014

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

100584P

WW-4B
Rev. 2/01

1) Date July 18, 2014
2) Operator's
Well No. McDonald #2
3) API Well No. 47-001 - 00584

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 ___ or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 377m (1238 ft) Watershed Simpson Creek
District Pleasant County Barbour Quadrangle Brownston 7.5'

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 Kenneth Greynolds
Address 613 Broad Run Road
Jane Lew, WV 26378
9) Plugging Contractor Name TBD
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:
TD-4644'; Coal-5', 755'-759' (U. Kitt.), 806'-811' (L. Kitt.), 861'-865' (Clarion).
4 1/2"@ 4586'; 8 5/8" string to 1090'; ~10" to 17'. Perforated 4501'-4506' and 4181'-4186'.
Elevation 1240'; Fresh Water 23'. Check TD. Set C1A cement plug 4506'-4080'. Remove 4 1/2" at free point.
Remove 4 1/2" at free point. Set C1A cement plug 1258'-1158'. Coalquest (Arch) Operations: Run e-log, Gyro.....
Remove 8 5/8" at free point. Set C1A cement plug 50' below to 50' above. Set C1A cement plug from 1065'-655' (Additional
cement may be used depending on Log and Coalquest request). Set C1A cement plug from 100' to surface. Install
monument with a minimum 6" diameter with minimum of 10' below surface in wellbore. Also with a
minimum 30" above surface and filled with concrete not cement. All plugs will be 100' minimum in length.

★ SEE ADDENDUM.

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

Work order approved by inspector _____ Date _____



ADDENDUM TO WELL PLUGGING PROCEDURE

FOR API WELL # 47-001-00584

The 4 ½" casing appears to have been cemented with 175 sacks of cement. If this was Class A cement, then the likely TOC would be about 3700' and a casing cut could be made just above this depth. You would then be able to remove ~ 3700' of 4 ½" casing and set a 100' C1A cement plug across the cut (3750' to 3650'). Set a plug of 100' C1A cement from 1660' to 1560'. Set C1A cement plug from 1258' to 1158' (elevation). Make sure that all space between cement plugs is filled with gel. Gel by definition is fresh water with at least 6% bentonite (by weight) and no other additives.

✦ At this point make the well bore available to Coalquest (Arch) Operations for electric logging purposes.

When plugging operations start back check for freepoint of 8 5/8" casing. Please keep in mind that the Office of Oil & Gas has provided additional records to you that indicate that the 8 5/8" casing was cemented to surface. If this is the case, you would not be required by the OO & G to remove the 8 5/8" casing.

Run in the hole with a work string to add a cement plug from the top of the last plug (1158') to 655'. Wait 4 hours and check the TOC. Add more cement if needed. Gel hole to 100' and set C1A cement plug from 100' to surface. Install monument per WV State Code. (35-4-5.5b)

All plugs must be at least 100' in length and consist of Class A Cement with no more than 3% Calcium Chloride and no other additives.

All casing cuts must have a minimum of 100' Class A Cement plug set across the cut.

Gel consists of fresh water with a minimum of 6% bentonite (by weight) and no other additives.

The entire wellbore must be filled with either gel or cement plugs.

OK
gmm
7/20/14

2,4-0
N

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Philippi
Permit No. BAR-584

Rotary X Oil _____
Cable _____ Gas X in well
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Union Drilling, Inc.
Address Box 347, Buckhannon, W. Va., 26201
Farm Virginia C. McDonald Acres 177+
Location (waters) Simpson Creek
Well No. (2) # 273-OH Elev. 1240'
District Pleasant County Barbour
The surface of tract is owned in fee by Va. C. McDonald
% John A. Mosesso, Att'y at Law
Address Philippi, W. Va., 26416
Mineral rights are owned by (Same)
Address _____
Drilling Commenced April 29, 1972
Drilling Completed May 6, 1972
Initial open flow 20,000 cu. ft. _____ bbls.
Final production 1,200,000 cu. ft. per day _____ bbls.
Well open X 2 1/2 hrs. before test 1200# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	17'	17'	
9 5/8			
8 5/8	1090'	1090'	
7			
5 1/2			
4 1/2	4586'	4586'	
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
5/25/72 - Dowell Service - 2 Stage Job: (1) Benson: 30,870 Gal. Waterfrac
(2) Riley: 26,502 Gal. Waterfrac
80,000 Lbs. Sand

Coal was encountered at 5' and at 75 1/2' Feet 8 1/2" & 60" Inches
Fresh water 23' Feet _____ Salt Water _____ Feet _____
Producing Sand Riley & Benson Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	5		
Coal			5	12		
Sand & Shale			12	450		
Red Rock & Shale			450	478		
Sand & Shale			478	754		
Coal			754	759		
Sand & Shale			759	878		
Sand			878	1112		
Sand & Shale			1112	1280		
Red Rock & Shale			1280	1340		
Sand			1340	1435		
Red Rock, Sand & Shale			1435	1511		
Big Lima			1511	1633		
Injun Sand			1633	1664		
Red Rock, Sand & Shale			1664	2345		
Sand & Shale			2345	4115		
Riley Sand			4115	4130		
Shale			4130	4164		
Riley Sand			4164	4185		
Shale			4185	4485		
Benson Sand			4485	4506		
Sand & Shale			4506	4644		
					TOTAL DEPTH	

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Office of Oil and Gas
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WV Department of
Environmental Protection

100584P

DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Philippi

Permit No. BAR-584

Company Union Drilling, Inc.
Address Box 347, Buckhannon, W.Va., 26201
Farm Virginia C. McDonald Acres 177+
Location (waters) Simpson Creek
Well No. # 273-CH Elev. 1240'
District Pleasant County Barbour
The surface of tract is owned in fee by Va. C. McDonald
% John A. Mosesso, Att'y at Law
Address Philippi, W. Va., 26416
Mineral rights are owned by. (Same)
Address _____
Drilling Commenced April 29, 1972
Drilling Completed May 6, 1972
Initial open flow 20,000 cu. ft. _____ bbls.
Final production 1,200,000 ft. per day _____ bbls.
Well open X 24 hrs. before test 1200# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	17'	17'	
9 5/8			
8 5/8	1090'	1090'	
7			
5 1/2			
4 1/2	4586'	4586'	
3			
2			
Liners Used			

*Has n - Riley
30-40M -
Benson*

Attach copy of cementing record.
5/25/72 - Dowell Service - 2 Stage Job: (1) Benson: 30,870 Gal. Waterfrac
(2) Riley: 26,502 Gal. Waterfrac
80,000 Lbs. Sand

Coal was encountered at 5' and at 754' Feet 8 1/2" & 60" Inches
Fresh water 23' Feet _____ Salt Water _____ Feet _____
Producing Sand Riley & Benson Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water
Clay			0	5	
Coal			5	12	
Sand & Shale			12	450	
Red Rock & Shale			450	478	
Sand & Shale			478	754	
Coal			754	759	
Sand & Shale			759	878	
Sand			878	1142	
Sand & Shale			1142	1280	
Red Rock & Shale			1280	1340	
Sand			1340	1435	
Red Rock, Sand & Shale			1435	1541	
Big Lime			1541	1633	
Injun Sand			1633	1664	
Red Rock, Sand & Shale			1664	2345	
Sand & Shale			2345	4115	
Riley Sand			4115	4130	
Shale			4130	4164	
Riley Sand			4164	4185	
Shale			4185	4485	

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MAY 14 1974
WV Department of
Environmental Protection



Basin Surveys, Inc.

DENSITY LOG

FILING NO. PERMIT BAR-584	COMPANY UNION DRILLING, INC. WELL VIRGINIA C. McDONALD # 2 FIELD PLEASANT DISTRICT COUNTY BARBOUR STATE W. VA. LOCATION: SEC. _____ TWP. _____ RGE. _____
PERMANENT DATUM Ground Level ELEV. 1240' LOG MEASURED FROM K.B. 8' Above Perm. Datum DRILLING MEASURED FROM K.B.	
OTHER LOGS: ELEVATIONS: KB. 1248' DF. _____ GL. 1240'	
DATE 5-6-72	5-25-72
RUN NO. One	Two
TYPE LOG Gamma-Density	Temp.
DEPTH - DRILLER 4636'	4522'
DEPTH - LOGGER 4644'	4545'
BOTTOM LOGGED INTERVAL 4642'	4542'
TOP LOGGED INTERVAL 1400'	4000'
TYPE FLUID IN HOLE Dry	Water - Air
SALINITY PPM CL.	
DENSITY LB./GAL.	
LEVEL	
MAX. REC. TEMP. - DEG. F	
OPR. RIG TIME 2 hrs.	1 1/2 hrs.
RECORDED BY Thomason	Summers
WITNESSED BY Mr. Moore	Mr. Moore

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
	7 7/8"	1090'	4636'	8 5/8"		Surf.	1090'
				4 1/2"		Surf.	T.D.

THIS HEADING AND LOG CONFORM TO API STANDARD PRACTICE RP-33 (P)

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 Office of Oil and Gas
 MAY 20 2014
 WV Department of
 Environmental Protection

PROVIDED BY
0096

100584P

FORM 2155 8-67

BAC-584

WELL NO. **21275CH**

MAP NO. _____ SQUARES _____ ELEV. **1240**

OPER **Union Dry Co.** FARM **Virginia M. Donald**

MAG. DIST. **Pleasant** COUNTY **Barbour**

DATE **4-25-72** ABD. _____

COMM. **4-29-72** COMP. _____ T.D. _____

D.D. COMM. _____ D.D. COMP. _____ T.D. _____

DATE	REMARKS
Apr 25	13" 20' 8" Dip. Conn 119" 20' 29" Col 29" 29" Connect to surface
SPS CB 4024	4' 10" 7/8
Work hole	23
	Blaine 1545-1625 Wayne 1633-1665 Riley 4115-4130
Coal	5- 94" 755- 60"
Conty.	Union Dry Retain
Drillers	Heater - Elmer Carpenter
Inspected	5-3-72 Dick D. Justice at 2001 ft. 5-5-72 Dick D. Justice at 2001 ft.
	[Signature]

Union Drilling Co.
 2213 CH
 Pleasant County, Oklahoma
 4-29-72
 Total depth _____
 Depth of shot _____
 /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Ca. Ft. _____
 lbs. _____
 hrs. _____
 bbls. 1st 24 hrs. _____
 23 feet _____
 feet _____
 feet _____

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
18	20'		
16			Size of
8 3/8	1192'		
6 3/8			Depth set
5 3/8			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

19" 20' 2 3/8" conn
 200 lbs conn 3/8" CD
 256 lbs
 CASING CEMENTED 19" SIZE 1192' No. FT
 NAME OF SERVICE COMPANY *Ready*
 COAL WAS ENCOUNTERED AT 5 FEET 84 INCHES
 754 FEET 60 INCHES FEET INCHES
 FEET INCHES FEET INCHES

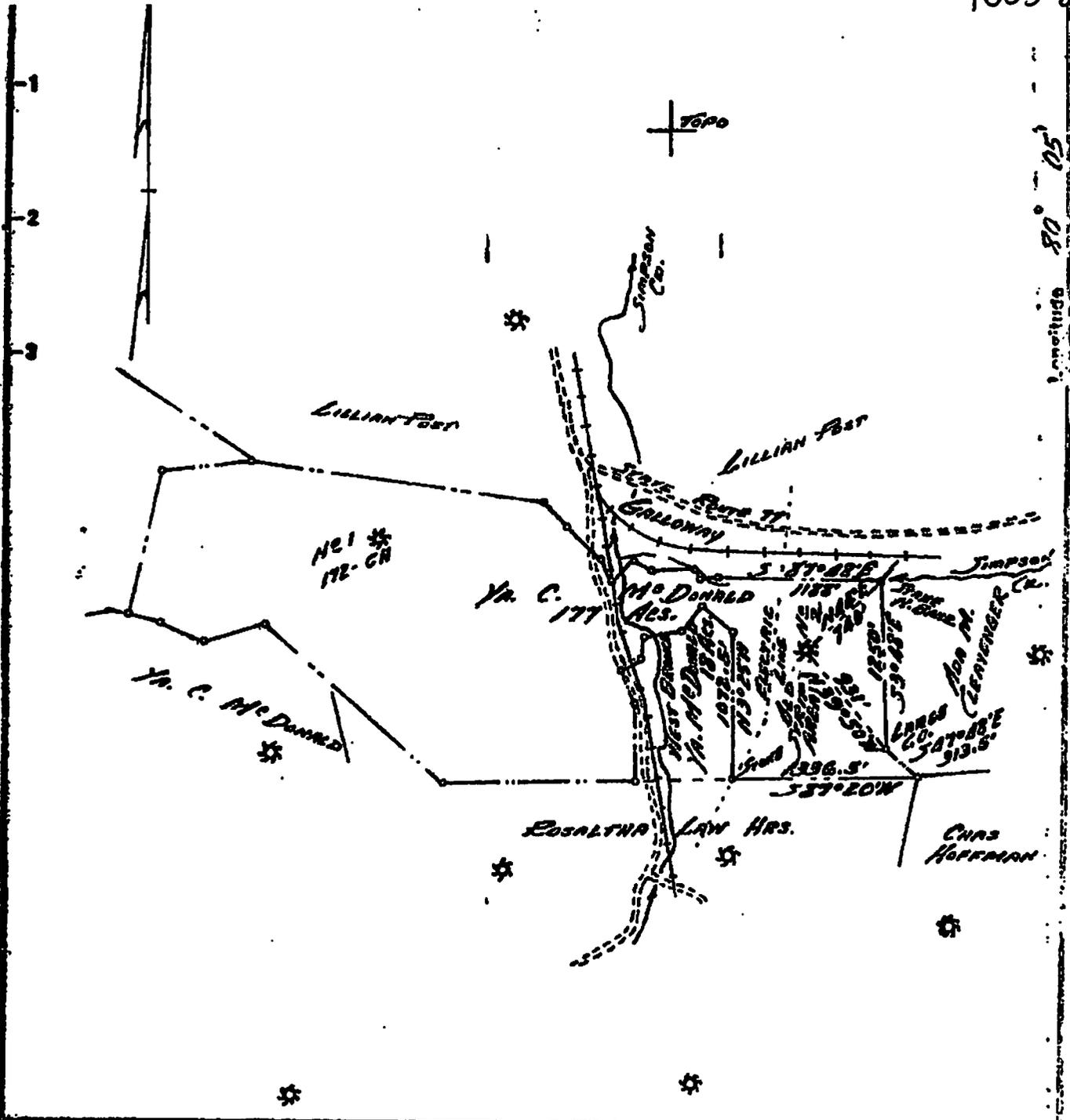
Heater - Elmer Carpenter
 Union Drilling Co. - Tulsa

Rusting at 4143 ft.
 + 4024 ft. 4/10 thru 3/8
 + 4143 ft. same

B. Line 1541-1633
 Union 1633-1664
 Pity 4115-

Paul P. [Signature]
 DISTRICT WELL INSPECTOR

-72



Fracture
 Before 6/5/29.....
 New Location
 Drill Deeper
 Redrill.....
 Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. *Paul G. Dean*
 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines, Regulations.
 PROVEN ELEVATION *1200' M.S.L.*

Company UNION DRILLING, INC.
 Address Box 367, BUCKNANNON, W.Va.
 Farm VIRGINIA C. McDONALD
 Tract 1 Acres 177.5 Lease No. _____
 Well (Farm) No. 2 Serial No. 273-CN
 Elevation (Spirit Level) 1200
 Quadrangle PHILIPPI
 County BARBOUR District PLEASANT
 Engineer PAUL G. DEAN

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES AND ENVIRONMENTAL PROTECTION
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Bea-584
 † Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

WW-4A
Revised 6-07

1) Date: April 28, 2014
2) Operator's Well Number
McDonald #2
3) API Well No.: 47 - 001 - 00584

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>Frank Zacavish</u>	Name <u>ICG, LLC</u>
Address <u>RR1, Box 391</u> <u>Flemington, WV 26347</u>	Address <u>300 Corporate Center Drive</u> <u>Scott Depot, WV 25560</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Coal Quest Development, LLC</u>
	Address <u>Attn: Lavina Conley</u>
	<u>300 Corporate Center Drive</u>
(c) Name <u>Beckwith Lumber Company (Road)</u>	Name <u>Scott Depot, WV 25560</u>
Address <u>U.S. Route 219</u>	Address _____
<u>Slatyfork, WV 26291</u>	
6) Inspector <u>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Rd</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</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.

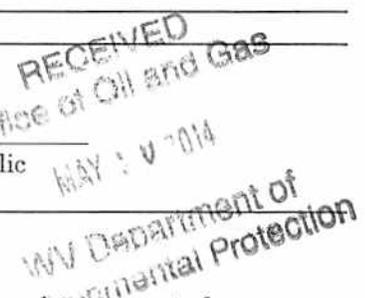
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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: Dereen P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd.
Bridgeport, WV 26330
 Telephone 304-842-3597



Subscribed and sworn before me this 13th day of May 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 depprivacyoffier@wv.gov.

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ZIP 26330
041L12202524

McDonald #2 P: A Notice



PDC MOUNTAINEER

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

TO:

Coal Quest Development, LLC
DBA, ICG, LLC ✓
Attn: Lavina Conley
300 Corporate Center Drive
Scott Depot, WV 25560

100584P

Received

MAY 20 2014

WV Dept. of Environmental Protection
Office of Oil and Gas

100584P

100584 P

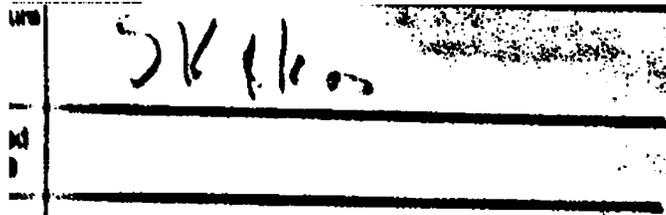


Date: May 15, 2014

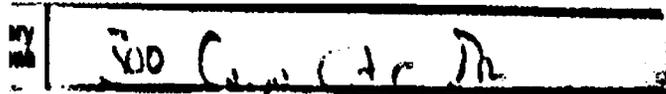
Scott Raines:

The following is in response to your May 15, 2014 request for delivery information on your Certified Mail™ item number 9171969009350057245376. The delivery record shows that this item was delivered on May 14, 2014 at 12:10 pm in SCOTT DEPOT, WV 25560. 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 20 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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05/13/2014

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ZIP 26330
041L12202524

McDonald #2 P&A Notice



PDC MOUNTAINEER

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

TO:

Frank Zaccavish
RR01 Box 391
Flemington, WV 26347

100584P

Received
MAY 20 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

100584P



Date: May 15, 2014

Scott Raines:

The following is in response to your May 15, 2014 request for delivery information on your Certified Mail™ item number 9171969009350057245369. The delivery record shows that this item was delivered on May 15, 2014 at 7:29 am in FLEMINGTON, WV 26347. The scanned image of the recipient information is provided below.

Signature of Recipient :

Delivery Section	
Signature	
Date	

Address of Recipient :

Address	Rt 1 Box 391
---------	--------------

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

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OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

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05/13/2014

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ZIP 26330
041L12202524

McDonald #2 P:A Notice



PDC MOUNTAINEER

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

TO: Beckwith Lumber Co.
U.S. Route 219
Slatyfork, WV 26291

1005849

WV Dept. of Environmental Protection
Office of Oil and Gas

MAY 20 2014

Received

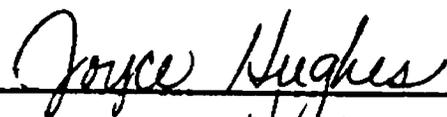
1005849

Date: May 15, 2014

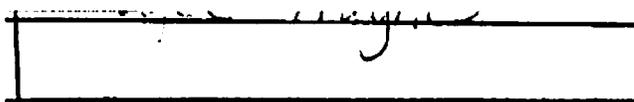
Scott Raines:

The following is in response to your May 15, 2014 request for delivery information on your Certified Mail™ item number 9171969009350057245352. The delivery record shows that this item was delivered on May 14, 2014 at 11:32 am in SLATYFORK, WV 26291. 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 20 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

100584P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 001 - 00584
Operator's Well No. McDonald #2

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 Simpson Creek Quadrangle Brownnton 7.5'

Elevation 377m (1238 ft) County Barbour District Pleasant

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
- Underground Injection (UIC Permit Number #2459, Noble County, OH)
- 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
- 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

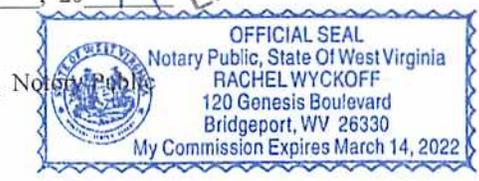
Company Official (Typed Name) Steven P. Johnson

Company Official Title Designated Agent

RECEIVED
Office of Oil and Gas
MAY 10 2014
WV Department of
Environmental Protection

Subscribed and sworn before me this 13th day of May, 2014

Rachel Wyckoff



My commission expires March 14, 2022

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diverston
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1.50 Prevegetation pH TBD
 Lime TBD 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, 2 tons/acre Tons/acre

Seed Mixtures

Area I		Area II	
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 for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: RECLAIM AND RESEED AS SOON AS REASONABLY POSSIBLE

Title: OIL & GAS INSPECTOR Date: 4-28-10

Field Reviewed? () Yes () No

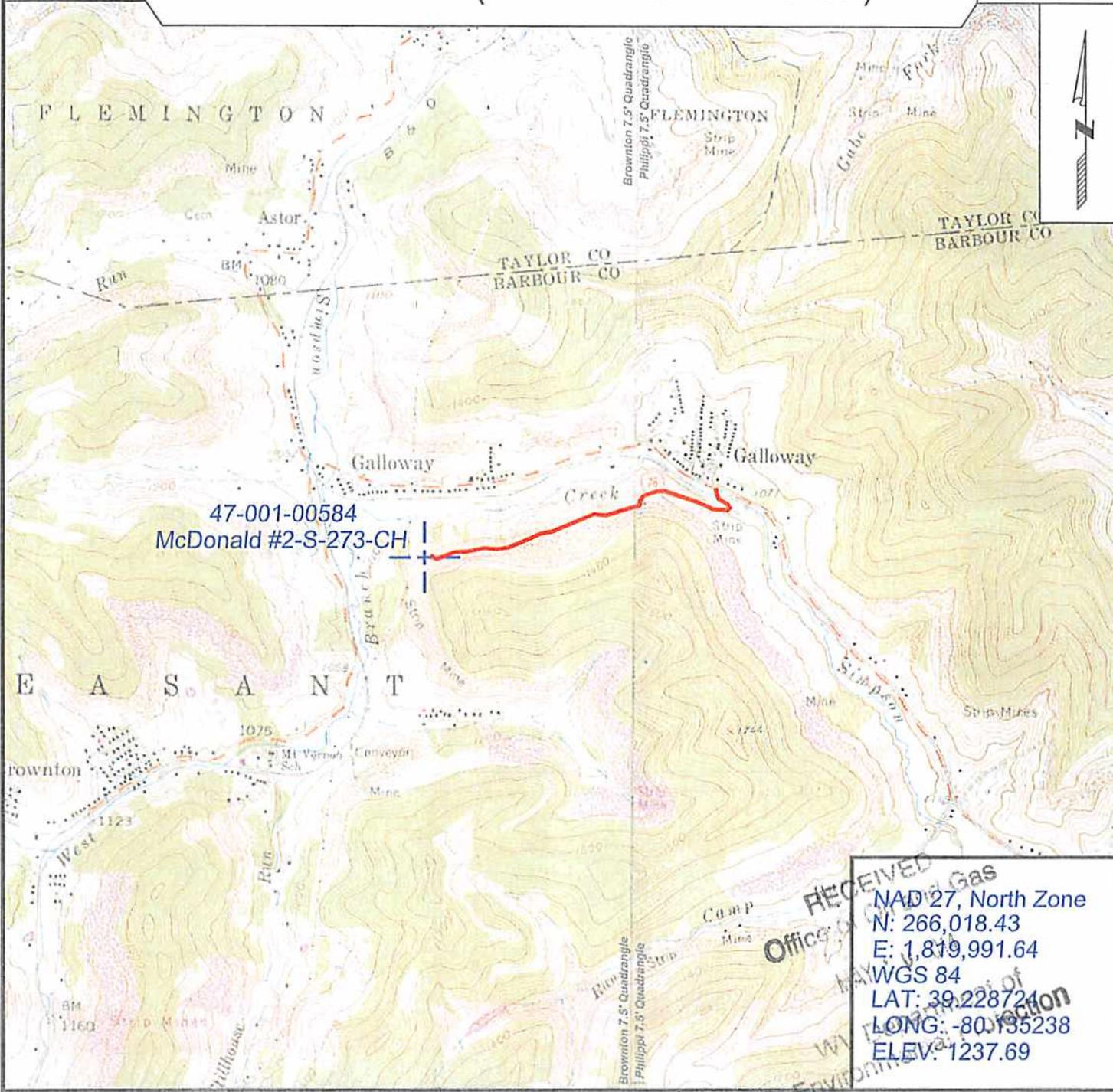
RECEIVED
 Office of Oil and Gas
 MAY 10 2010
 Department of Environmental Protection

100584f

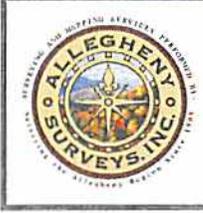
Topo Quad: Brownton 7.5' Scale: 1" = 2000'
 County: Barbour Date: April 25, 2014
 District: Pleasant Project No: 67-14 PDC

47-001-00584 (McDonald #2-S-273-CH)

Topo

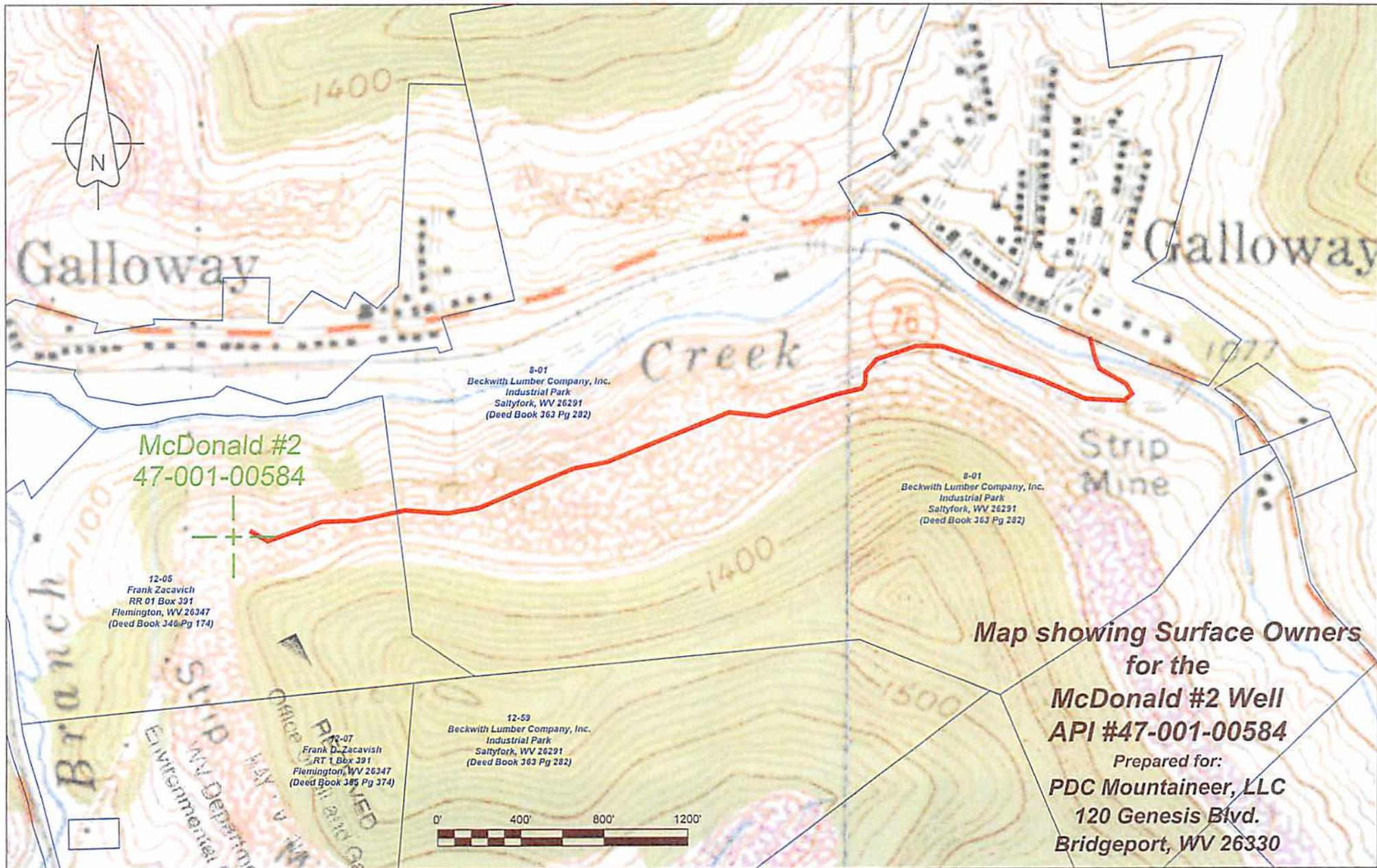


RECEIVED
 Office of the State Auditor
 NAD 83, North Zone
 N: 266,018.43
 E: 1,819,991.64
 WGS 84
 LAT: 39.228724
 LONG: -80.135238
 ELEV: 1237.69



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
PDC Mountaineer, LLC
 120 Genesis Blvd.
 Bridgeport, WV 26330



100584-P

WW-7
8-30-06

100584A
CK 30142
10000



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

API: 47-001-00584 WELL NO.: McDonald #2-S-273-CH

FARM NAME: Virginia C. McDonald

RESPONSIBLE PARTY NAME: PDC Mountaineer, LLC

COUNTY: Barbour DISTRICT: Pleasant

QUADRANGLE: Brownton 7.5'

SURFACE OWNER: Frank Zacavich

ROYALTY OWNER: Virginia C. McDonald, et al.

UTM GPS NORTHING: 4342515

UTM GPS EASTING: 574640 GPS ELEVATION: 377 m (1238 ft)

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
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.


Signature

PS # 2180
Title

4/28/14
Date

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Office of Oil and Gas
MAY 20 2014
WV Department of
Environmental Protection