



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

April 25, 2014

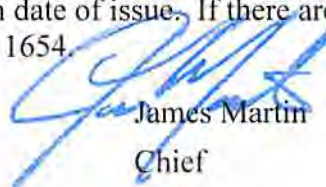
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2102106, 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: RALSTON A-1
Farm Name: MORRIS, I.L.
API Well Number: 47-2102106
Permit Type: Plugging
Date Issued: 04/25/2014

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.

1) Date March 12, 2014
 2) Operator's Well No. Ralston A. #1
 3) API Well No. 47-021 - 002106

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 297.77m 1010 FT Watershed Robinson Run of Leading Creek
 District DeKalb OV County Gilmer 11 Quadrangle Glenville 7.5' 372

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 Bryan Harris 9) Plugging Contractor Name To Be Determined
 Address P.O. Box 157 Address _____
Volga, WV 26238

10) Work Order: The work order for the manner of plugging this well is as follows:
 Check TD. Load hole with Gel.
 Set cement plug from 2041' to 1731'.
 Sever 4 1/2" casing at free point and pull. Set cement plug from 50' below point to 50' above.
 Set plug from 1428' to 1318'. Set plug from 1020' to 920'
 If possible, sever 10 3/4" casing at free point. Set cement plug from ^{232'} 200' to surface.
 Install monument.

Received

MAR 31 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

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

Work order approved by inspector Bryan O'Hara Date 3-12-14

Cable Tools
Storage

Quadrangle Glenville

Permit No. GIL-2106

WELL RECORD

Oil or Gas Well Gas
(MIND)

Company Kewanee Oil Company
Address P. O. Drawer "K", Brookville, Pa.
Farm Ralston "A" Acres 39.8
Location (waters) Richbottom Run
Well No. 1 Elev. 1010'
District DeKalb County Gilmer
The surface of tract is owned in fee by Kanawha
Union Bank Address Glenville, W. Va.
Mineral rights are owned by SEE ATTACHMENT
Address _____
Drilling commenced Sept. 28, 1970
Drilling completed Oct. 30, 1970
Date Shot - From - To _____
With - _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 40MCF Cu. Ft.
Rock Pressure - lbs. _____ hrs.
Oil - _____ bbls., 1st 24 hrs.
WELL ACIDIZED - _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			
12	18'		
10 3/4		182	Size of
8 1/2			
6 1/2 7"	828		Depth set
5 3/16			
3 4 1/2"		2099	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

10 3/4" 182 10-2-70
CASING CEMENTED 4 1/2" size 2099 No. Ft. 11-2-70 Date
Ready Cemented 10 3/4" W/ 50 sks
Dowell Cemented 4 1/2" W/ 115 sks

COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED Dowell W/ 65,000# Sand, 48,552 GW & 75,000 SCF N₂

RESULT AFTER TREATMENT 1,500 MCF 1,500,000

ROCK PRESSURE AFTER TREATMENT 750# after 18 hrs.

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	20			
Slate & Shells			20	25			
Red Rock			25	60	Water	40	
Slate & Shells			60	70			
Sand			70	83			
Slate & Shells			83	100			
Red Rock			100	118			
Slate & Shells			118	122	Water	120	
Red Rock			122	165			
Slate & Shells			165	315			
Sand			315	335			
Red Rock			335	345			
Slate & Shells			345	355			
Red Rock			355	385			
Slate & Shells			385	395			
Gritty Lime			395	430			
Slate & Shells			430	446			
Red Rock			446	480			
Slate & Shells			480	500			
Red Rock			500	515			
Slate & Shells			515	580			
Red Rock			580	606			
Slate & Shells			606	636			
Slate			636	641			
Slate & Shells			641	700			
Sand			700	734			
Slate & Shells			734	740			

RECEIVED 04/25/2014

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells			786	830			
Lime			830	865			
Sand			865	880			
Slate & Shells			880	935			
Sand			935	955			
Slate & Shells			955	990			
Sand			990	1048			
Slate & Shells			1048	1057			
Sand			1057	1135			
Slate & Shells			1135	1240			
Sand			1240	1286			
Slate & Shells			1286	1346			
Sand			1346	1450	Gas	1418	
Slate & Shells			1450	1630			
Red Rock			1630	1634			
Sand		Hard	1634	1646			
Red Rock			1646	1651			
Slate			1651	1663			
Lime			1663	1678			
Slate			1678	1680			
Sand			1680	1686			
Slate			1686	1701			
B. Lime			1701	1782			
I. Sand			1782	1854	Gas	1823	
Slate & Shells			1854	1952			
W. Sand			1952	2046			
Slate & Shells			2046	2099			
Total Depth			2099				

Received

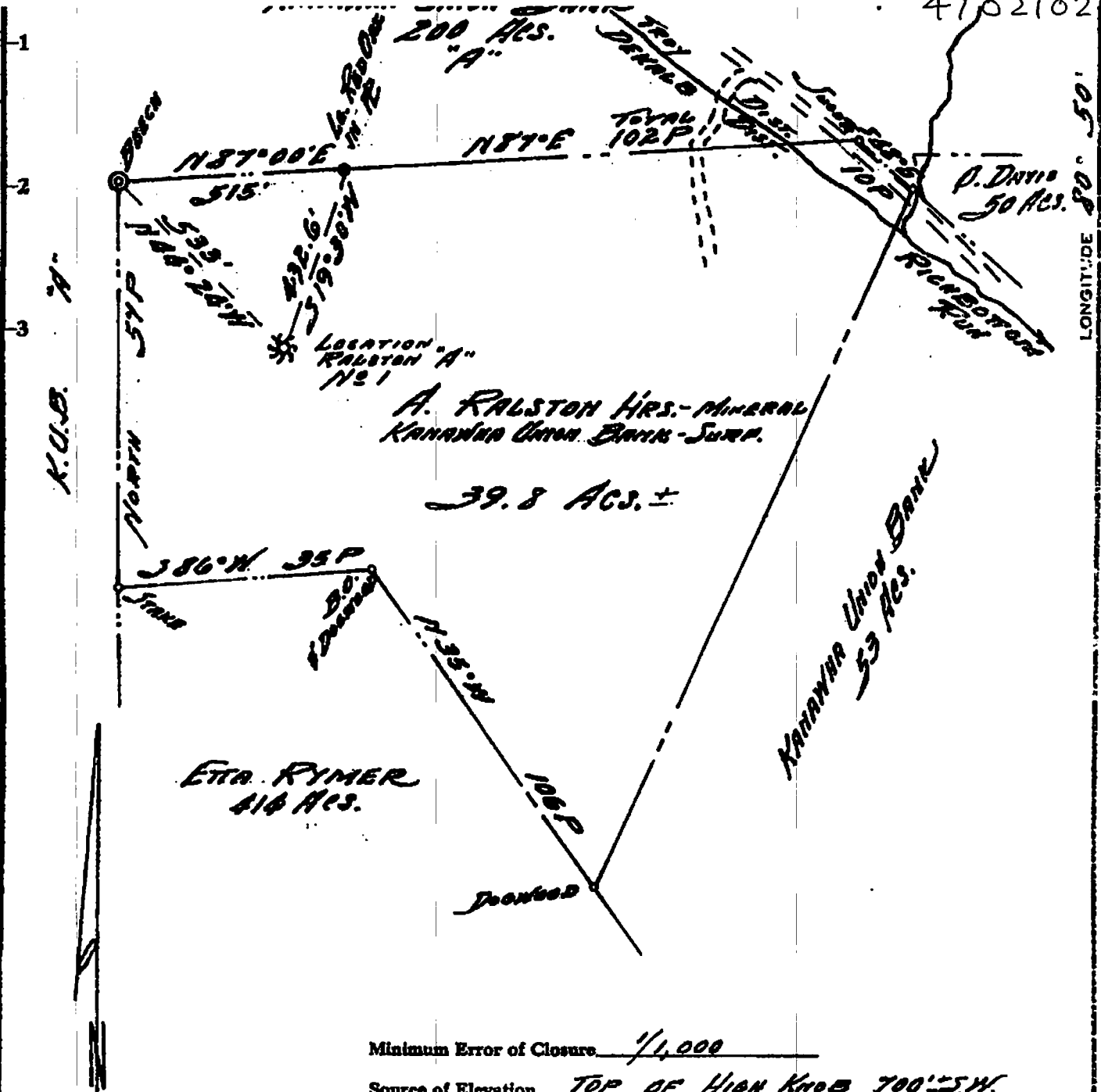
MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Date November 17, 1970

APPROVED Kewanee Oil Company Owner

By E. A. Broome
E. A. Broome (Title) Dist. Supt.



Minimum Error of Closure 1/1,000
 Source of Elevation TOP OF HIGH KNOB 700'± S.W. OF LOCATION = 1290 U.S.G.S.

- Fracture.....
- New Location...
- Drill Deeper.....
- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: Paul S. Dean
 Squares: N S E W

Map No.

Company KENAWA OIL CO.
 Add. DRUMER C, GLENVILLE, W. VA.
 Farm (Mtz) RALSTON, Sup. Kanawha Union Bank
 Tract "A" Acres 39.8± Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1010
 Quadrangle GLENVILLE
 County GILMER District DEKALB
 Engineer PAUL G. DEAN

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. Dib-2106

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being indicated by

WW-4A
Revised 6-07

1) Date: March 12, 2014
 2) Operator's Well Number
Ralston A. #1
 3) API Well No.: 47 - 021 - 002106

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>I.L. Morris</u>	Name _____
Address <u>P.O. Box 397</u>	Address _____
<u>Glenville, WV 26351</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Ralston Ambrose Heirs c/o Goldie Valentine</u>
	Address <u>P.O. Box 370367</u>
	<u>Las Vegas, NV 89137</u>
(c) Name _____	Name <u>Jewell & Anna Ralston c/o Richard Ralston</u>
Address _____	Address <u>4165 Old Salisbury Road</u>
	<u>North Wildesboro, NC 28659</u>
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 157</u>	Name _____
<u>Volga, WV 26238</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-1B, 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: Stevon P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd.
Bridgeport, WV 26330
 Telephone 304-842-3597

Received
 MAR 31 2014

Subscribed and sworn before me this 12th day of March, 2014
Rachel Wyckoff Notary Public
 My Commission Expires March 14, 2022

Office of Oil and Gas
 WV Dept. of Environmental Protection

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.

4702102106P

WW-4A
Revised 6-07

1) Date: March 12, 2014
2) Operator's Well Number
Raiston A. #1

3) API Well No.: 47 - 021 - 002106

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 _____	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name Linda Palmer ✓
(c) Name _____	Address 1117 Brood Road
Address _____	Milton, MA 02186
	Name Lenore Smith ✓
	Address 384 Blaine Ave.
	Marion, OH 43302
6) Inspector Bryan Harris	(c) Coal Lessee with Declaration
Address P.O. Box 157	Name _____
Volga, WV 26238	Address _____
Telephone _____	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

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Well Operator PDC Mountaineer, LLC
 By: Staron P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd.
 Bridgeport, WV 26330
 Telephone 304-842-3597

Received
 MAR 31 2014

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Rachel Wyckoff Notary Public
 My Commission Expires March 14, 2022

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04/25/2014

WW-4A
Revised 6-07

1) Date: March 12, 2014
2) Operator's Well Number
Ralston A. #1
3) API Well No.: 47 - 021 - 002106

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 _____	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Maxine Parker</u> ✓
(c) Name _____	Address <u>1617 Bay Crest Trl.</u>
Address _____	<u>Heath, TX 75032</u>
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 157</u>	Name _____
<u>Volga, WV 26238</u>	Address _____
Telephone _____	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

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Well Operator PDC Mountaineer, LLC
 By: Steven P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd.
Bridgeport, WV 26330
 Telephone 304-842-3597

Received
MAR 31 2014

Subscribed and sworn before me this 12th day of March, 2014
Rachel Wyckoff
My Commission Expires March 14, 2022
Notary Public

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4702102106P

REGISTERED MAIL
\$06.05
ELECTRONIC MAIL
FIRST CLASS PERMIT NO. 1000
BIRMINGHAM, AL

PLEASE STICKER LETTER OR ENVELOPE TO THE FRONT OF THE RETURN ADDRESS. VALUE IS DETERMINED BY WEIGHT.

CERTIFIED MAIL



9171 9690 0935 0057 2440 41

Ralston A. I. P: A Notice



PDC MOUNTAINEER

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

TO: I.L. Morris
P.O. Box 397
Glennville, WV 26351 ✓

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

4702102106P

POSTAGE & FEE PAID
\$06.05
ZIP CODE 26010



Ralston A.I. P&A Notice



PDC MOUNTAINEER

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

TO: Ralston Ambrose Heirs
c/o Goldie Valentine
P.O. Box 370367
Las Vegas, NV 89137

Received

MAR 31 2014


Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

4702102106^f

POSTAGE
\$06.05
ZIP 28659

PLEASE STICK TO TOP OF ENVELOPE TO THE RIGHT
OF THE POSTAGE LABEL. DO NOT WRITE TO LINE.
CERTIFIED MAIL
9171 9690 0935 0057 2440 27

Ralston A. I PkA Notice
**PDC MOUNTAINEER**
Steve Johnson
120 Genesis Boulevard
P.O. Box 26
Bridgeport, West Virginia 26330

TO: ✓
Jewell & Anna Ralston
c/o Richard Ralston
4165 old Salisbury Rd.
North Wilkesboro, NC 28659

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

4702102106P

REGISTERED MAIL
\$06.05
US POSTAGE
ZIP 25360
94112001224



Ralston A P&A Notice



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

PDC MOUNTAINEER

TO: Linda Palmer
1117 Brood Rd
Milton, MA 02186 ✓

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

POSTAGE WILL BE PAID BY ADDRESSEE
FIRST CLASS PERMIT NO. 1000
COLUMBUS, OH 43260-1000
\$06.05
ZIP+4 43030
SAT. 4/25/2014

4702102106 P



Releston Al PIA Notice

 **PDC MOUNTAINER**

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

TO: Lenore Smith
384 Blaine Ave.
Marion, OH 43302 ✓

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

4702102106P

USPS
US POSTAGE
\$06.05
Zip 26002

PLACE STICKER ABOVE OR TO THE RIGHT OF THE ADDRESS TO BE MAILED BY AIR
CERTIFIED MAIL™
9171 9690 0935 0041 3299 90

Relston Al PIA Notice



PDC MOUNTAINEER

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

TO: Maxine Parker
1617 Bay Crest Trl.
Heath, TX 75032

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

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 Robinson Run of Leading Creek Quadrangle Glenville 7.5'

Elevation 297.77m County Gilmer District DeKalb

Description of anticipated Pit Waste: NA - Flowback tank with secondary containment to be used.

Will a synthetic liner be used in the pit? NA

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- 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
- 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

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

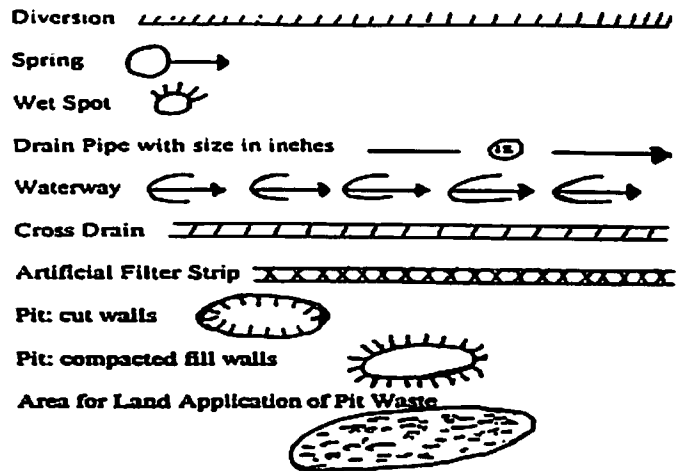
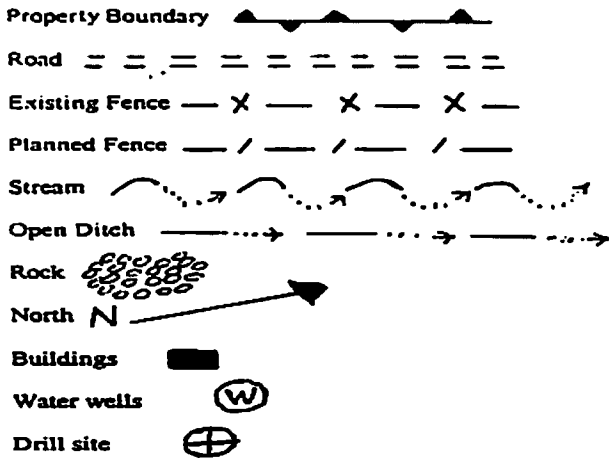
Subscribed and sworn before me this 12th day of March, 20 14

Rachel Wyckoff Notary Public

My commission expires March 14, 2022



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.25 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 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: Duane O'Hara

Comments: _____

Received

MAR 31 2014

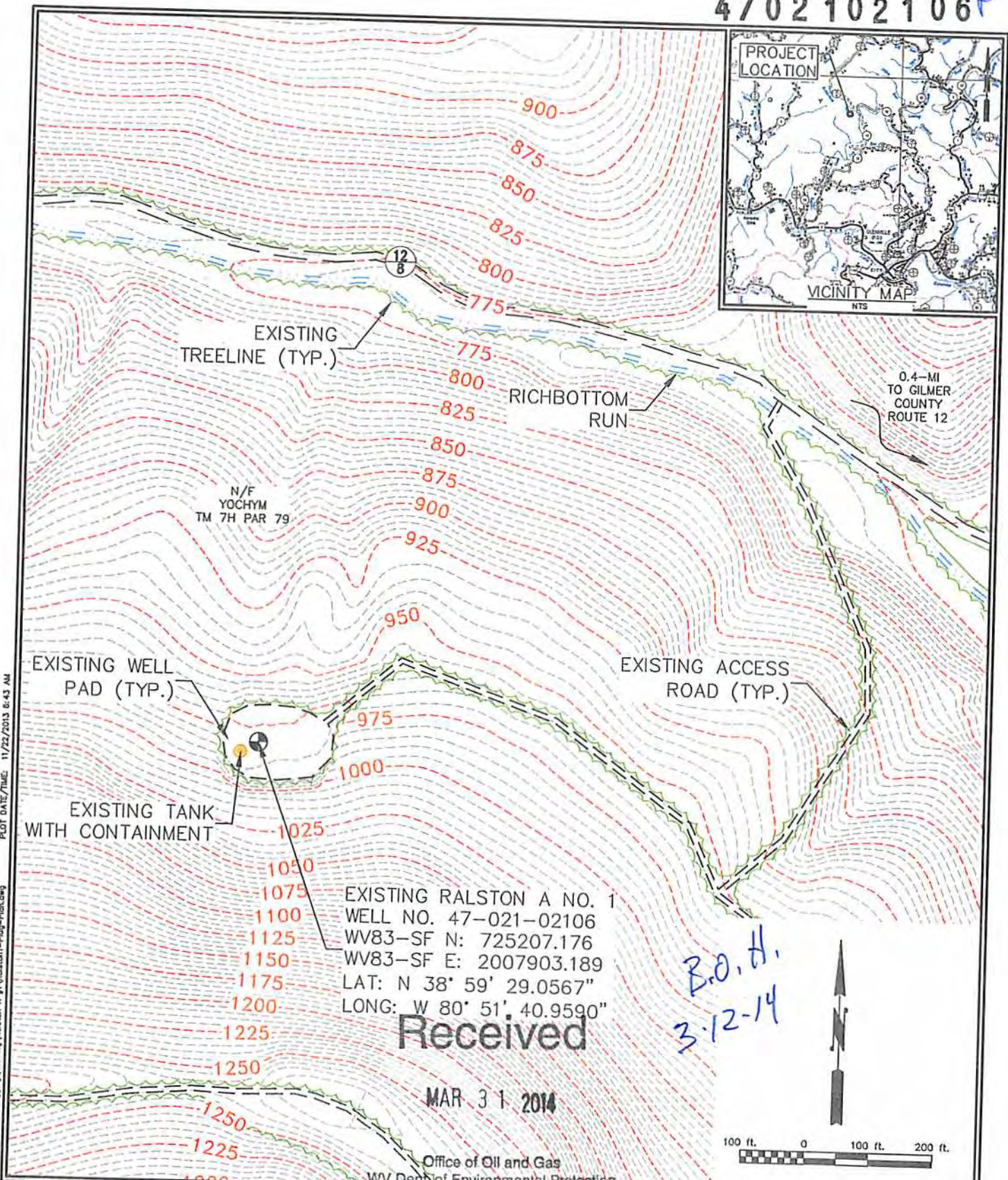
Title: Oil + Gas Inspector

Date: 3-12-14

Field Reviewed? () Yes () No

Office of Oil and Gas
 WV Dept. of Environmental Protection

4702102106P



EXISTING TREELINE (TYP.)

RICHBOTTOM RUN

0.4-MI TO GILMER COUNTY ROUTE 12

N/F YOCHYM TM 7H PAR 79

EXISTING WELL PAD (TYP.)

EXISTING ACCESS ROAD (TYP.)

EXISTING TANK WITH CONTAINMENT

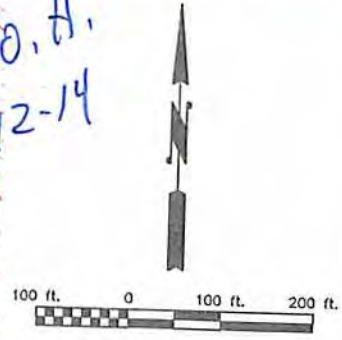
EXISTING RALSTON A NO. 1 WELL NO. 47-021-02106
WV83-SF N: 725207.176
WV83-SF E: 2007903.189
LAT: N 38° 59' 29.0567"
LONG: W 80° 51' 40.9590"

*B.O.H.
3-12-14*

Received

MAR 31 2014

Office of Oil and Gas
WV Dept of Environmental Protection



Plot Date/Time: 11/22/2013 6:43 AM
CAD FILE: R:\030-3384 PDC-6 Plots For Plugging\Choring\Relation A #1\Ralston1-Plug-Plan.dwg



PDC MOUNTAINEER

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330
PHONE: 304-624-4108
FAX: 304-624-7831

PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
RALSTON A NO. 1
GILMER COUNTY, WV

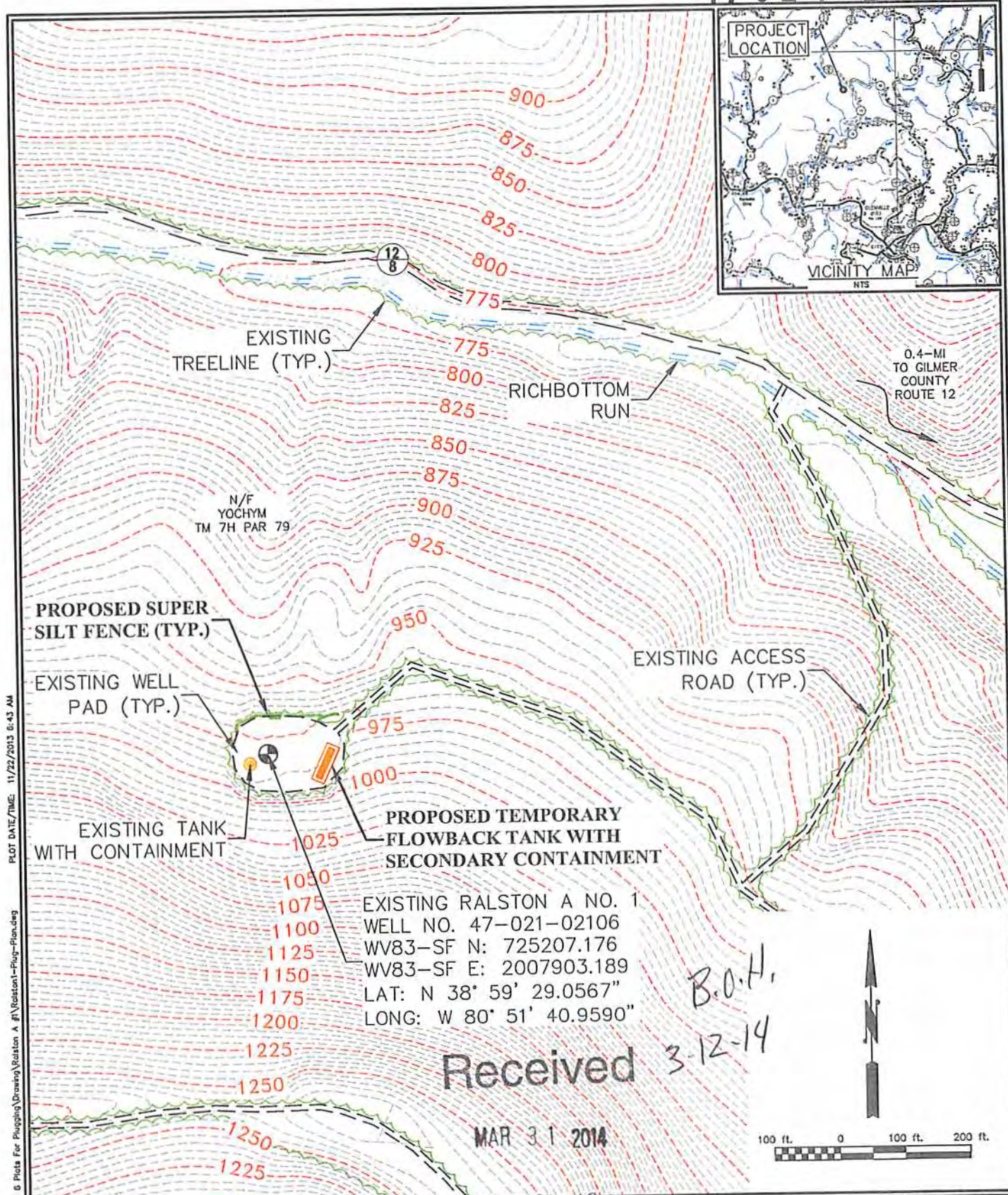
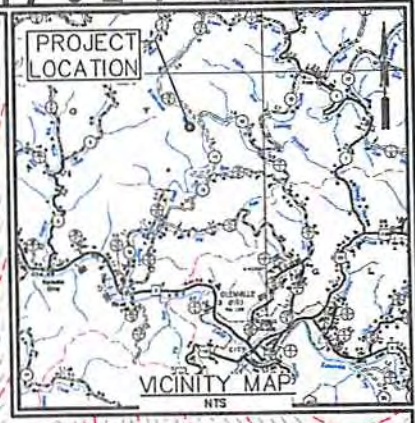
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2

EXISTING CONDITIONS

04/25/2014

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EXISTING TREELINE (TYP.)

RICHBOTTOM RUN

0.4-MI TO GILMER COUNTY ROUTE 12

N/F YOCHYM TM 7H PAR 79

PROPOSED SUPER SILT FENCE (TYP.)

EXISTING WELL PAD (TYP.)

EXISTING ACCESS ROAD (TYP.)

EXISTING TANK WITH CONTAINMENT

PROPOSED TEMPORARY FLOWBACK TANK WITH SECONDARY CONTAINMENT

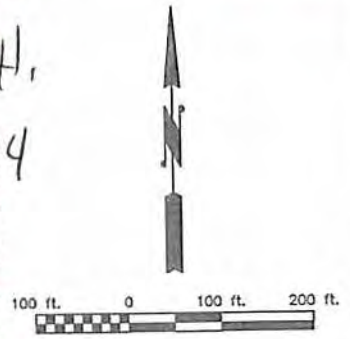
EXISTING RALSTON A NO. 1 WELL NO. 47-021-02106
WV83-SF N: 725207.176
WV83-SF E: 2007903.189
LAT: N 38° 59' 29.0567"
LONG: W 80° 51' 40.9590"

B.O.H.

3-12-14

Received

MAR 31 2014



PLOT DATE/TIME: 11/22/2013 8:43 AM
CAD FILE: R:\030-2384 PDC- 6 Plugs For Plugging\Drawings\Station A_1\Station1-Plug-Plan.dwg



PDC MOUNTAINEER



THE THRASHER GROUP, INC.
600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330
PHONE: 304-624-4108
FAX: 304-624-7831

Office of Oil and Gas
Department of Environmental Protection
PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
RALSTON A NO. 1
GILMER COUNTY, WV

SHEET NO.
3

PROPOSED PLUGGING SITE PLAN

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04/25/2014

EROSION AND SEDIMENT CONTROL NOTES

SEEDING AND MULCHING

1. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
2. WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
3. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED. SEEDBED PREPARATION: AREAS TO BE SEEDDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
4. SEEDBED PREPARATION: AREAS TO BE SEEDDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
5. SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER, IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.
6. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
7. TEMPORARY AND PERMANENT SEED MIXTURES SHALL BE FOSTER SUPPLY PREMIUM MEADOW MIX (OR APPROVED EQUAL).
8. SEED APPLICATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
9. MULCH SHALL BE APPLIED AT A RATE OF 3-4 TONS PER ACRE.
10. LIME APPLICATION RATES
 - 10.1. WHEN A SOIL TEST REQUIRES LIME APPLICATION OF MORE THAN 4 TONS PER ACRE, THE LIME MUST BE MIXED INTO THE TOP SIX (6) INCHES OF SOIL.
 - 10.2. MINIMUM 6 TONS PER ACRE AT 100% EFFECTIVE NEUTRALIZING VALUE (% ENV), UNLESS THE SOIL TEST DETERMINES A LESSER AMOUNT IS NEEDED. TO DETERMINE THE ACTUAL AMOUNT OF REGULAR LIME TO APPLY, DIVIDE THE AMOUNT CALLED FOR BY THE SOIL TEST BY THE % ENV FOR THE PRODUCT USED. FOR EXAMPLE, IF 6 TONS PER ACRE IS NEEDED AND THE % ENV FOR THE LIME USED IS 88%, DIVIDE 6 BY 0.88 RESULTING IN 6.8 TONS NEEDING TO BE APPLIED.
 - 10.3. FOR DOLOMITIC LIME, WHICH HAS A SIGNIFICANT AMOUNT OF MAGNESIUM IN IT, DIVIDE THE AMOUNT CALLED FOR BY THE SOIL TEST BY THE % CALCIUM CARBONATE EQUIVALENT (% CCE) LISTED FOR THE PRODUCT INSTEAD OF THE % ENV. THE % CCE MAY BE ABOVE 100% WHICH ACCOUNTS FOR THE FACT THAT MAGNESIUM HAS A GREATER EFFECT PER POUND THAN THE CALCIUM IN REGULAR LIME.
11. FERTILIZATION RATES
 - 11.1. IF TOP DRESSED APPLY 10-20-20 AT 600 POUNDS/ACRE
 - 11.2. IF INCORPORATED APPLY 10-20-20 AT 1,000 POUNDS/ACRE
 - 11.3. UNLESS THE SOIL TEST DETERMINES THAT THE RATE CAN BE LESS THAN THESE MINIMUMS.

CONSTRUCTION NOTES

1. CONTRACTOR SHALL INSTALL ALL REQUIRED SUPER SILT FENCE, SILT FENCE, AND/OR COMPOST FILTER SOCK BARRIERS AS SHOWN ON THE PLANS AND AS DIRECTED. ALL SUPER SILT FENCE, SILT FENCE, AND COMPOST FILTER SOCKS ARE TO BE INSTALLED PARALLEL TO THE EXISTING CONTOURS.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE WVDEP OFFICE OF OIL AND GAS "WV E&S CONTROL FIELD MANUAL".

MAINTENANCE AND INSPECTION NOTES

1. CONTRACTOR SHALL CLEAN OUT SEDIMENT BEHIND THE SUPER SILT FENCE, SILT FENCE, AND/OR COMPOST FILTER SOCKS ONCE IT IS ONE THIRD OF THE HEIGHT OF THE FENCE AND/OR SOCK. THE SEDIMENT SHALL BE INCORPORATED INTO THE FILL WITHIN THE DISTURBED AREA.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, AT MINIMUM, ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCHES PER HOUR. REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS OF THE VARIOUS WORK ITEMS ON THIS PROJECT.
2. THE BASE MAPPING FOR THIS PROJECT IS BASED ON DIGITAL USGS QUAD MAP CONTOURS. THE DATUM IS NAD83 WEST VIRGINIA STATE PLANES, SOUTH ZONE, US FOOT.
3. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE EXISTING UTILITY INFORMATION IS THE BEST AVAILABLE AND MAY NOT BE COMPLETELY ACCURATE OR REPRESENTATIVE OF ACTUAL CONDITIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR OWNER IN WRITING, OF ANY EXISTING DAMAGED UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE SHOULD BE ANTICIPATED.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND OTHER ACTIONS AS REQUIRED BY LOCAL AND STATE REGULATIONS OR REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR MODIFYING EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ORDER TO PREVENT EROSION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL", AVAILABLE AT: <http://www.dep.wv.gov/oil-and-gas/Documents/Erosion%20Manual%2004.pdf>
6. EVERY LOCATION WHERE SUPER SILT FENCE IS PROPOSED TO BE INSTALLED, THE CONTRACTOR MAY INSTALL COMPOST FILTER SOCK AS AN APPROVED EQUAL. THE COMPARABLE COMPOST FILTER SOCK SIZE SHALL BE DETERMINED IN THE FIELD (BASED UPON THE CHART PROVIDED IN DETAILS) AND SHALL BE BASED ON THE MAXIMUM SLOPE LENGTH ABOVE THE COMPOST FILTER SOCK. ADDITIONAL ROWS OF COMPOST FILTER SOCK MAY BE NECESSARY COMPARED TO THE SUPER SILT FENCE.

SEQUENCE OF WORK

1. INSTALL ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AND MAINTAIN FOR THE LIFE OF THE PROJECT OR UNTIL THERE IS 70% GROWTH ESTABLISHED OVER THE ENTIRE PROJECT AREA.
2. INSTALL PROPOSED TEMPORARY FLOWBACK TANK WITH SECONDARY CONTAINMENT.
3. BEGIN WELL PLUGGING OPERATIONS.
4. REMOVE UNNECESSARY EQUIPMENT.
5. COMPLETE WELL PLUGGING.
6. REMOVE TEMPORARY FLOWBACK TANK.
7. RESTORE SITE TO EXISTING CONDITIONS.
8. SEED AND MULCH ALL DISTURBED AREAS.
9. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER 70% GROWTH HAS BEEN ESTABLISHED OVER THE ENTIRE PROJECT AREA.
10. COMPLETE FINAL PROJECT CLEAN UP.

CONTACTS

MISS UTILITY 1-800-245-4848 http://www.wv811.com	NATIONAL RESPONSE CENTER FOR REPORTING CHEMICAL OR OIL SPILLS 1-800-424-8802
AMBULANCE, FIRE, LAW ENFORCEMENT 911	STATE EMERGENCY SPILL NOTIFICATION 1-800-642-3074
PDC MOUNTAINEER, LLC JAMIE HAGA OFFICE: 304-842-3397 Jamie.Haga@pdcee.com	THE THRASHER GROUP, INC. ROBERT R. MILNE, P.E. OFFICE: 304-624-4108 rmilne@thrashereng.com

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
RALSTON A NO. 1
GILMER COUNTY, WV

SHEET NO.

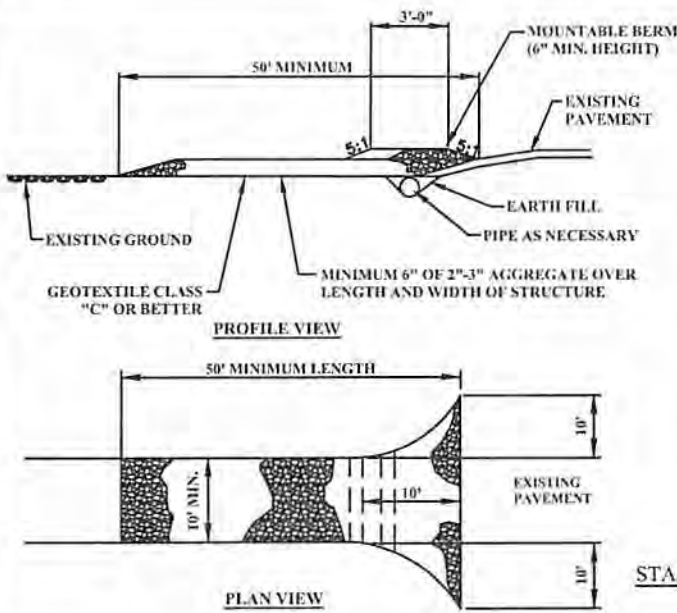
4

GENERAL NOTES

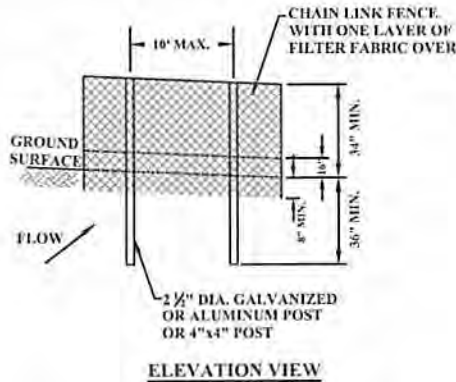
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NOTES:

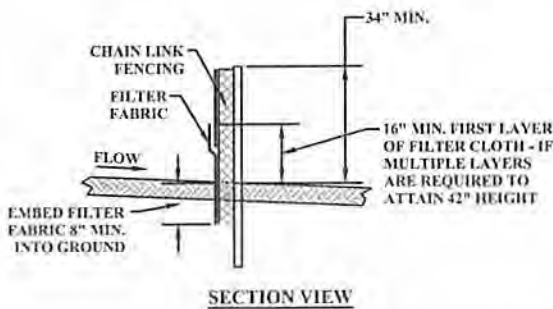
1. LENGTH - 50' MINIMUM (30' MINIMUM FOR SINGLE RESIDENCE LOT).
2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHER AGGREGATE (2" - 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE MUST BE SIZED ACCORDING TO THE DRAINAGE AND THE AMOUNT OF RUN OFF TO BE CONVEYED. A 6" DIAMETER MINIMUM WILL BE REQUIRED. WHEN THE STABILIZED CONSTRUCTION ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



ELEVATION VIEW

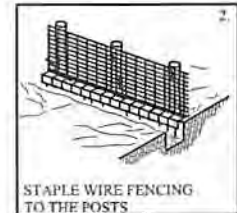
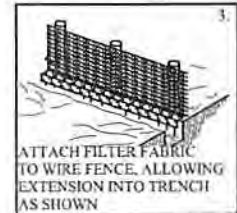
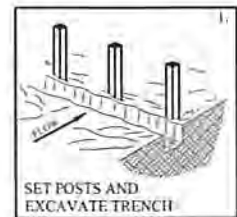


SECTION VIEW

SUPER (REINFORCED) SILT FENCE DETAIL
NOT TO SCALE

NOTES:

1. MAXIMUM 10' CENTER-TO-CENTER SPACING FOR POSTS.
2. FENCING SHALL BE 42" IN HEIGHT.
3. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID-SECTION.
5. FILTER CLOTH AND CHAIN LINK FENCE SHALL BE EMBEDDED 8" MINIMUM INTO THE GROUND.
6. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
7. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.
8. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
9. ANY SECTION OF FILTER FABRIC FENCE WHICH HAVE BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED.



BUILDING SUPER (REINFORCED) SILT FENCE DETAIL
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PDC MOUNTAINEER



THE THRASHER GROUP, INC.
1140 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26207
PHONE: 304-624-4100
FAX: 304-624-7331

PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
RALSTON A NO. 1
GILMER COUNTY, WV

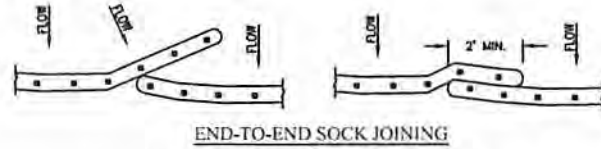
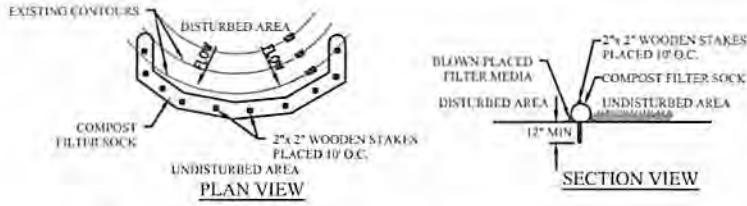
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DETAILS

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COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 35%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	3.0 dS MAXIMUM

COMPOST FILTER SOCK TO BE INSTALLED IN ACCORDANCE WITH FILTREXX MANUFACTURER SPECIFICATIONS, OR AN APPROVED EQUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY DIAMETER SOCK SHALL NOT EXCEED THAT SHOWN ON BELOW TABLE.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED AS DESCRIBED IN THE MAINTENANCE AND INSPECTION NOTES IN THE EROSION AND SEDIMENT CONTROL NOTES OF THESE PLANS. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1YR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, ALL STAKES SHALL BE REMOVED. DEGRADABLE FILTER SOCK MAY BE LEFT IN PLACE AND VEGETATED - THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING. THE MESH FROM ALL POLYPROPYLENE FILTER SOCKS SHALL BE REMOVED - THE MULCH SHALL BE SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING.

REPRODUCED FROM FILTREXX LOW IMPACT DESIGN MANUAL PAGE 324.

Slope Percent	Maximum Slope Length Above Sediment Control in Feet (Meters) *				
	8-IN (200-mm) Sediment Control 6.5-IN (160-mm) **	12-IN (300-mm) Sediment Control 9.5-IN (240-mm) **	18-IN (450-mm) Sediment Control 14.5-IN (360-mm) **	24-IN (600-mm) Sediment Control 19-IN (480-mm) **	32-IN (800-mm) Sediment Control 26-IN (650-mm) **
2 (or less)	600 (180)	750 (225)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	50 (15)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	50 (15)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

* Based on a failure point of 36-IN (0.9-m) super silt fence (wire reinforced) at 1000-FT (303-m) of slope, watershed width equivalent to receiving length of sediment control device, 1-IN/24-HR (25-mm/24-HR) rain event.

** Effective height of Sediment Control after installation and with constant head from runoff as determined by Ohio State University.

RESTRICTIONS

- (1) COMPOST FILTER SOCK WILL NOT BE PLACED IN ANY AREA OF CONCENTRATED FLOWS SUCH AS SWALES, DITCHES, CHANNELS, ETC.
- (2) COMPOST FILTER SOCK WILL NOT BE USED IN AREA WHERE ROCK OR ROCKY SOILS PREVENT THE FULL AND UNIFORM ANCHORING OF THE COMPOST FILTER SOCK.
- (3) COMPOST FILTER SOCK WILL NOT BE PLACED ACROSS THE ENTRANCES TO PIPES OR CULVERTS AND WILL NOT BE WRAPPED AROUND THE PRINCIPAL SPILLWAY STRUCTURES OF SEDIMENT TRAPS OR BASINS.

INSTALLATION

- (1) COMPOST FILTER SOCK WILL BE INSTALLED WITH LITTLE, IF ANY DISTURBANCE TO THE DOWNSLOPE SIDE OF THE COMPOST FILTER SOCK.

COMPOST FILTER SOCK
NOT TO SCALE

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PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
RALSTON A NO. 1
GILMER COUNTY, WV

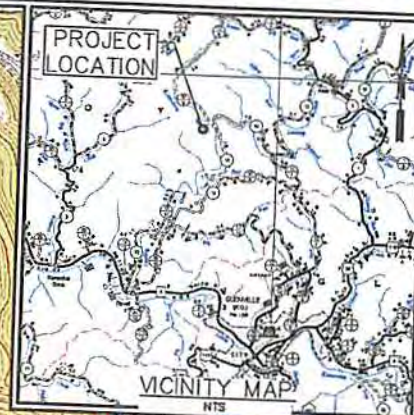
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DETAILS

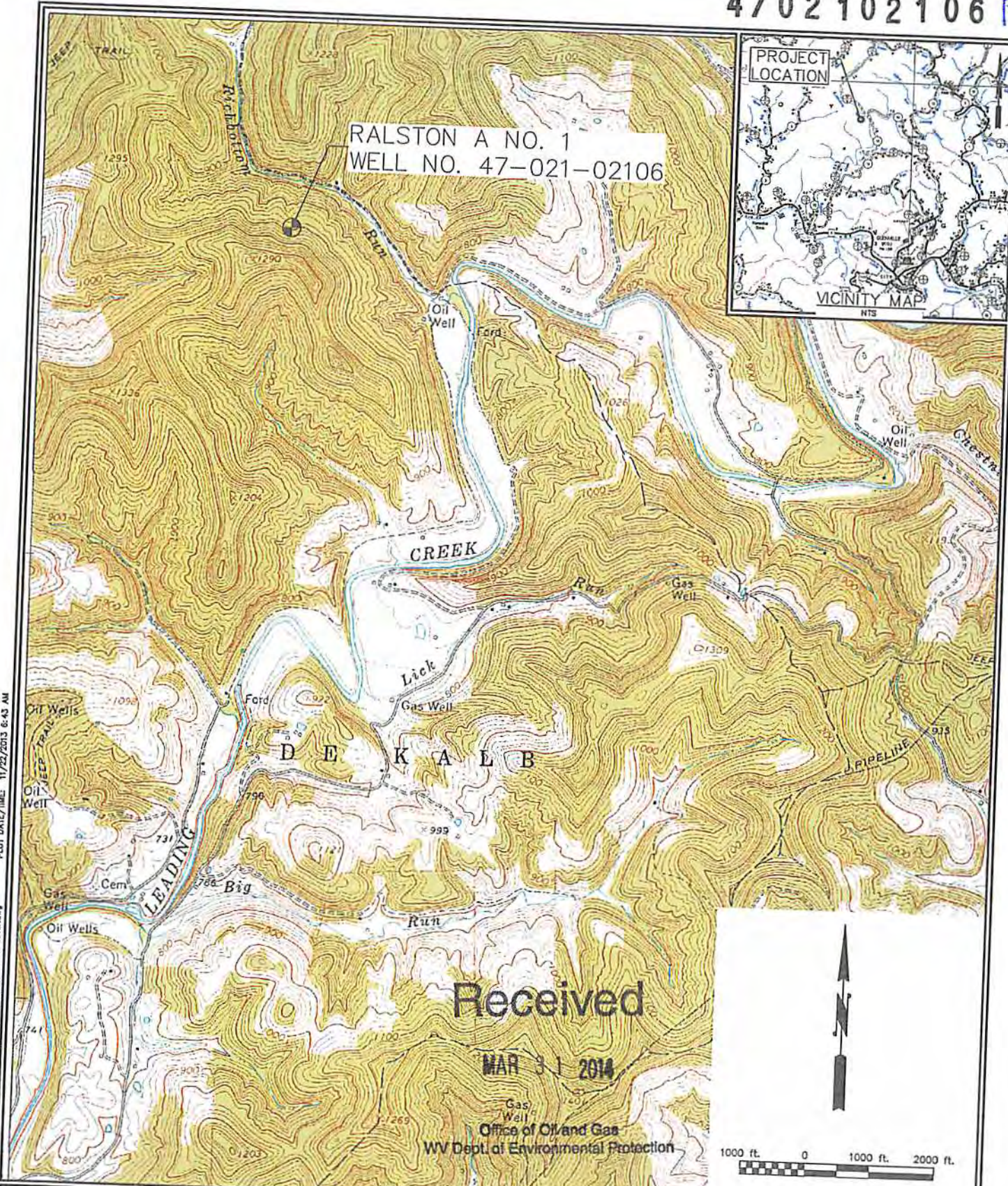
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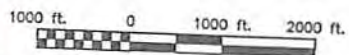
RALSTON A NO. 1
WELL NO. 47-021-02106



Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



CAD FILE: R:\030-2304-PDC-0 Plats For Plugging\Crossing\Ralston A #1\Ralston-Cover.dwg PLOT DATE/TIME: 11/22/2013 6:43 AM



THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330
PHONE: 304-634-4159
FAX: 304-624-7031

PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
RALSTON A NO. 1
GILMER COUNTY, WV

SHEET NO.
1

VICINITY MAP - GLENVILLE, WV 7.5' QUAD

04/25/2014

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4702102106^P

WW-7
8-30-06



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

API: 47-021-002106 WELL NO.: RALSTON, A. #1

FARM NAME: RALSTON

RESPONSIBLE PARTY NAME: PDC Mountaineer, LLC

COUNTY: GILMER DISTRICT: DeKALB

QUADRANGLE: GLENVILLE

SURFACE OWNER: I.L. MORRIS

ROYALTY OWNER: A. RALSTON

UTM GPS NORTHING: 4315831.884m

UTM GPS EASTING: 512005.021m GPS ELEVATION: 297.77m 977.0 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:

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 x; Post Processed Differential 0.02 m

Real-Time Differential 0.02 m

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.

[Signature]
Signature

PLS 903
Title

3/25/14
Date

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

4702102106^r



PDC MOUNTAINEER

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

March 28, 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 47-021-02106 (Ralston A. #1), DeKalb District, Gilmer County, WV.

Dear Mr. Nottingham,

Please find subject application enclosed. At this time we do not anticipate using a pit for the project. Also enclosed is a completed OP-77 form and \$50.00 fee transferring subject 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

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014