



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 24, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8301074, 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: SUN 3
Farm Name: SUN LUMBER CO.
API Well Number: 47-8301074
Permit Type: Plugging
Date Issued: 04/24/2014

Promoting a healthy environment.

4708301074

WW-4B
Rev. 2/01

1) Date March 10, 2014
2) Operator's Well No. Sun #3
3) API Well No. 47-083 - 01074

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 785.3806m 2520 Ft Watershed Buckhannon River
District Middle Fork 05 County Randolph 83 Quadrangle Pickens 546

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 9) Plugging Contractor
Name Bill Hatfield Name To Be Determined
Address P.O. Box 522 Address _____
Buckhannon, WV 26201

- 10) Work Order: The work order for the manner of plugging this well is as follows:
- Pull tubing. Check TD. Load hole with Gel. Set cement plugs from 3308' to 3190'; 2570' to 2470'; ~~1620' to 1488'~~ 1690' to 1780'
- Sever 4 1/2" at free point. Set cement plug from 50' below sever to 50' above.
- Set cement plug from 474' to surface.
- Install monument.

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

RECEIVED
Office of Oil and Gas

Work order approved by inspector Bill Hatfield

MAR 17 2014
Date 3/12/2014
WV Department of
Environmental Protection

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

4708301074

Well Operator's Report of Well Work

Farm name: SUN LUMBER COMPANY Operator Well No.: SUN 3

LOCATION: Elevation: 2520.00 Quadrangle: PICKENS

District: MIDDLE FORK County: RANDOLPH
Latitude: 1710 Feet South of 38 Deg. 42Min. 30 Sec.
Longitude 4950 Feet West of 80 Deg. 7 Min. 30 Sec.

Company: SENECA-UPSHUR PETROLEUM C
P.O. BOX 2048
BUCKHANNON, WV

Agent: JOSEPH HAGER

Inspector: PHILLIP TRACY
Permit Issued: 08/21/88
Well work Commenced: 10/03/88
Well work Completed: 10/07/88

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig

Total Depth (feet) 3673'
Fresh water depths (ft) 120'

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casings & Tubing Size	Used in Drillings	Left in Well	Cement Fill Up (Cu. Ft.)
8 5/8	464	464	115 sacks to Surf.
4 1/2		3385	215 sacks
2 3/8		3258	

OPEN FLOW DATA

Producing formation Fifth Sand Pay zone depth (ft) _____
Gas: Initial open flow 30 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 146 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 410 Psis (surface pressure) after 24 Hours

Second producing formation Benson Pay zone depth (ft) 3290
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ Psis (surface pressure) after _____ Hours

Co-mingled and tested with fifth sand.

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: SENECA-UPSHUR PETROLEUM CORP.

By: _____
Date: November 18, 1988

RAND. 01074

Date of Frac: 10/19/88

Fifth Sand 2000 CCF N₂, 200 BBL Water, 300 CWT 20/40 sand
 Benson 2936 CCF N₂, 200 BBL Water, 413 CWT 20/40 sand

Sand & Shale	0	-	810'
Big Lime	810	-	950'
Sand & Shale	950	-	1540'
Berea	1540	-	1550'
Sand & Shale	1550	-	1588'
Fifth Sand	1588	-	1610'
Sand & Shale	1610	-	3290'
Benson	3290	-	3298'
Sand & Shale	3298	-	3673'

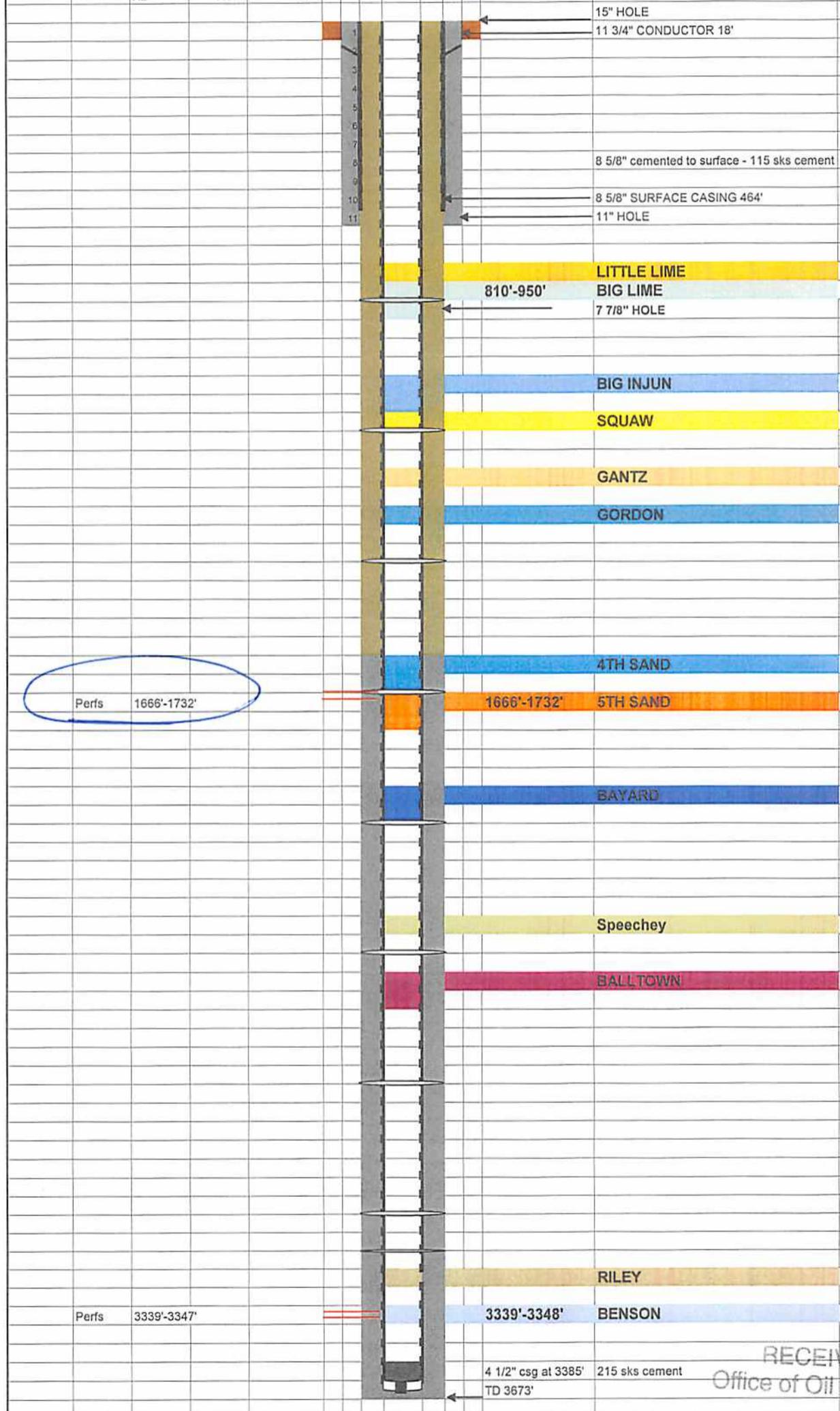
GAS CHECKS:

1404'	No Show
1715'	10/10 1"water
3484'	8/10 1"water

7546

Sun #3 - API 47-083-01074
CASING

Conductor	8 5/8" 20# casing		4 1/2" 10.50# casing	
	Run total	Talley	Run total	Talley
		KB	10.00	10.00



RECEIVED
Office of Oil and Gas

MAR 17 2014

WV Department of
Environmental Protection

4708301074

WW-4A
Revised 6-07

1) Date: 3/10/2014
2) Operator's Well Number
Sun #3

3) API Well No.: 47 - 083 - 01074

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:
(a) Name Weber WT Jr. Trustee
Address P.O. Box 270
Weston, WV 26452
(b) Name Sun Lumber Company
Address P.O. Box 590
Weston, WV 26452
(c) Name _____
Address _____
6) Inspector Bill Hatfield
Address P.O. Box 522
Buckhannon, WV 26201
Telephone 304-767-1828

5) (a) Coal Operator
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name Crystal Bailey
Address 6 Cain Drive
Cartersville, GA 30121
Name Ranaee Bailey
Address 206 Moyer Drive
Chapin SC 29036
(c) Coal Lessee with Declaration
Name _____
Address _____

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

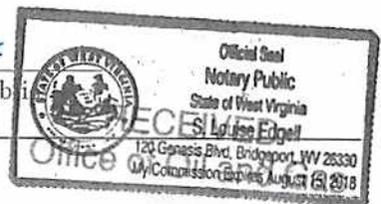
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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

Subscribed and sworn before me this 10th day of March, 2014
Lois Edgell Notary Public
My Commission Expires August 15, 2018



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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.

MAR 17 2014
WV Department of Environmental Protection

WW-4A
Revised 6-07

1) Date: 3/10/2014
 2) Operator's Well Number
 Sun #3
 3) API Well No.: 47 - 083 - 01074

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

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name _____ Address _____</p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Bill Hatfield</u> Address <u>P.O. Box 522</u> <u>Buckhannon, WV 26201</u> Telephone <u>304-767-1828</u></p>	<p>5) (a) Coal Operator</p> <p>Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Lola B. Warren</u> ✓ Address <u>1030 Ponderosa Drive</u> <u>Culloden, WV 25510</u></p> <p>Name <u>Iris Zirkle</u> ✓ Address <u>HC 61 Box 44</u> <u>Mabie, WV 26278</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address _____</p>
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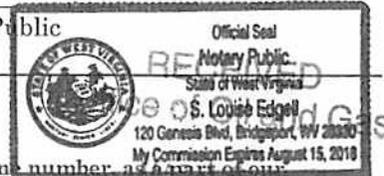
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Well Operator PDC Mountaineer, LLC
 By: Steven P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd
Bridgeport, WV 26330
 Telephone 304-842-3597

Subscribed and sworn before me this 10th day of March, 2014
S. Louis Edgell Notary Public
 My Commission Expires August 15, 2018



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4708301074

WW-4A
Revised 6-07

1) Date: 3/10/2014
2) Operator's Well Number
Sun #3
3) API Well No.: 47 - 083 - 01074

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>Beverly Simmons and Randall Simmons, etals</u> ✓
(c) Name _____	Address <u>209 Skylight Drive</u>
Address _____	<u>West Columbia, SC 29170</u> ✓
	Name <u>Mike Ross Inc.</u>
	Address <u>P.O. Box 219</u>
	<u>Coalton, WV 26257</u>
6) Inspector <u>Bill Hatfield</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 522</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-767-1828</u>	

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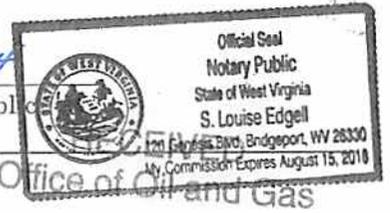
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 Its: Designated Agent
 Address 120 Genesis Blvd
Bridgeport, WV 26330
 Telephone 304-842-3597

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S. Louise Edgell Notary Public
 My Commission Expires August 15, 2018



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West Virginia Department of Environmental Protection

4708301074

WW-4A
Revised 6-07

1) Date: 3/10/2014
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Sun #3

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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 Action Holding Inc. ✓
(c) Name _____	Address 110 Sprint Drive
Address _____	Blountville, TN 37617
	Name Timothy M. Rader ✓
	Address 21 W 7th Street
	Newton Falls, OH 44444
6) Inspector	(c) Coal Lessee with Declaration
Address	Name _____
Telephone	Address _____

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

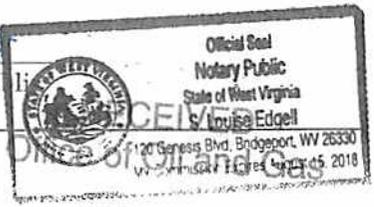
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Well Operator PDC Mountaineer, LLC
 By: Steven P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd
 Bridgeport, WV 26330
 Telephone 304-842-3597

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S. Dennis Edgell Notary Public
 My Commission Expires August 15, 2018



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MAR 17 2014
 Department of
 Environmental Protection

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 Buckhannon River Quadrangle Pickens

Elevation 785.3806 m County Randolph District Middle Fork

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

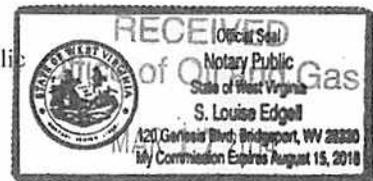
Company Official (Typed Name) Steven P. Johnson

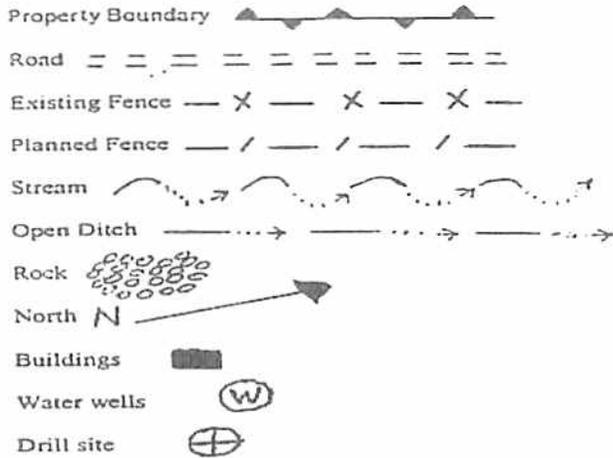
Company Official Title Designated Agent

Subscribed and sworn before me this 10th day of March, 2014

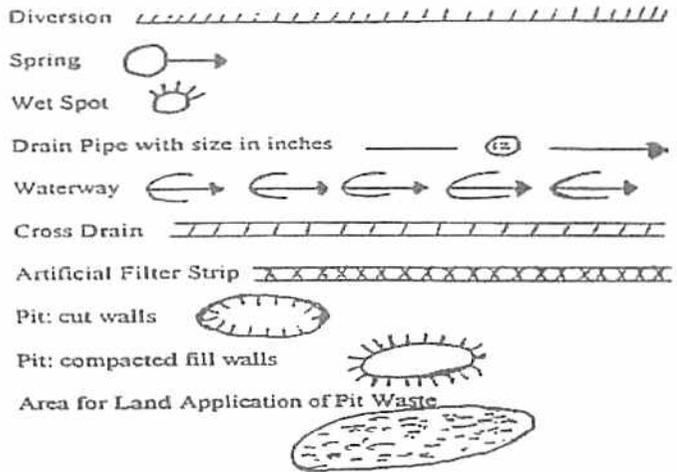
S. Louise Edgell Notary Public

My commission expires August 15, 2018





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.25 acres +/- Prevegetation pH _____

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

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

Mulch hay or straw 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: Bill Hatfield

Comments: _____

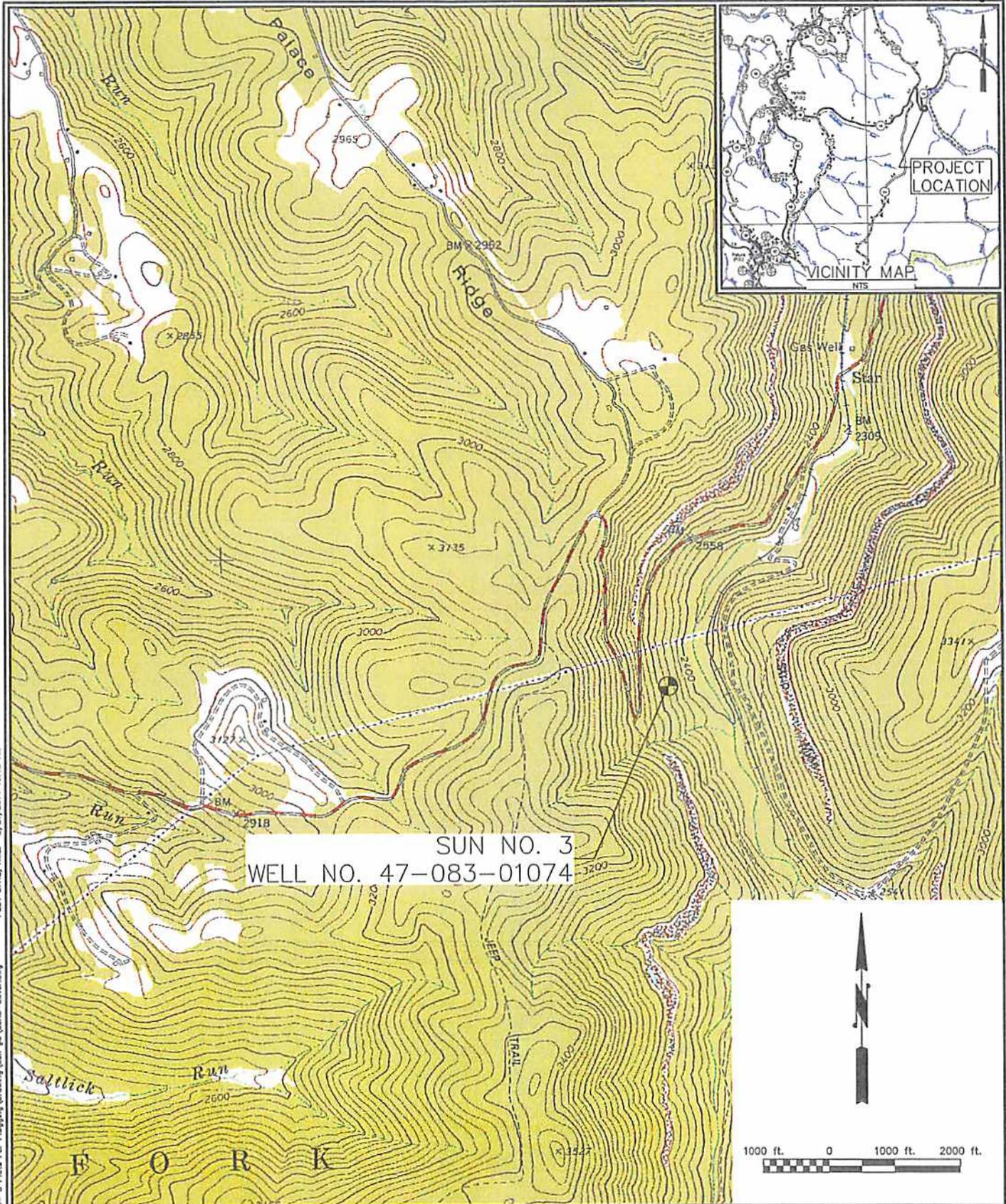
Title: oil & gas inspector

Date: 3/12/2014

Field Reviewed? () Yes () No

RECEIVED
Office of Oil and Gas

MAR 17 2014



SUN NO. 3
WELL NO. 47-083-01074

CAD FILE: R:\030-2384_PDC- 6 Plugs For Plugging\Drawing\Sun_ #3\Sun3-Cover.dwg PLOT DATE/TIME: 2/21/2014 10:18 AM



THRASHER
 THE THRASHER GROUP, INC.
 600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 25330
 PHONE: 304-624-8103
 FAX: 304-624-7831

PDC MOUNTAINEER, LLC
 WELL PLUGGING PLAN FOR
 SUN NO. 3
 RANDOLPH COUNTY, WV

RECEIVED
 Office of Oil and Gas
 SHEET NO. 1
 MAR 17 2014

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VICINITY MAP - PICKENS, WV 7.5' QUAD



PDC MOUNTAINEER

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

March 14, 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 47-083-01074 (Sun #3),
Middle Fork District, Randolph County, WV.

Dear Mr. Nottingham,

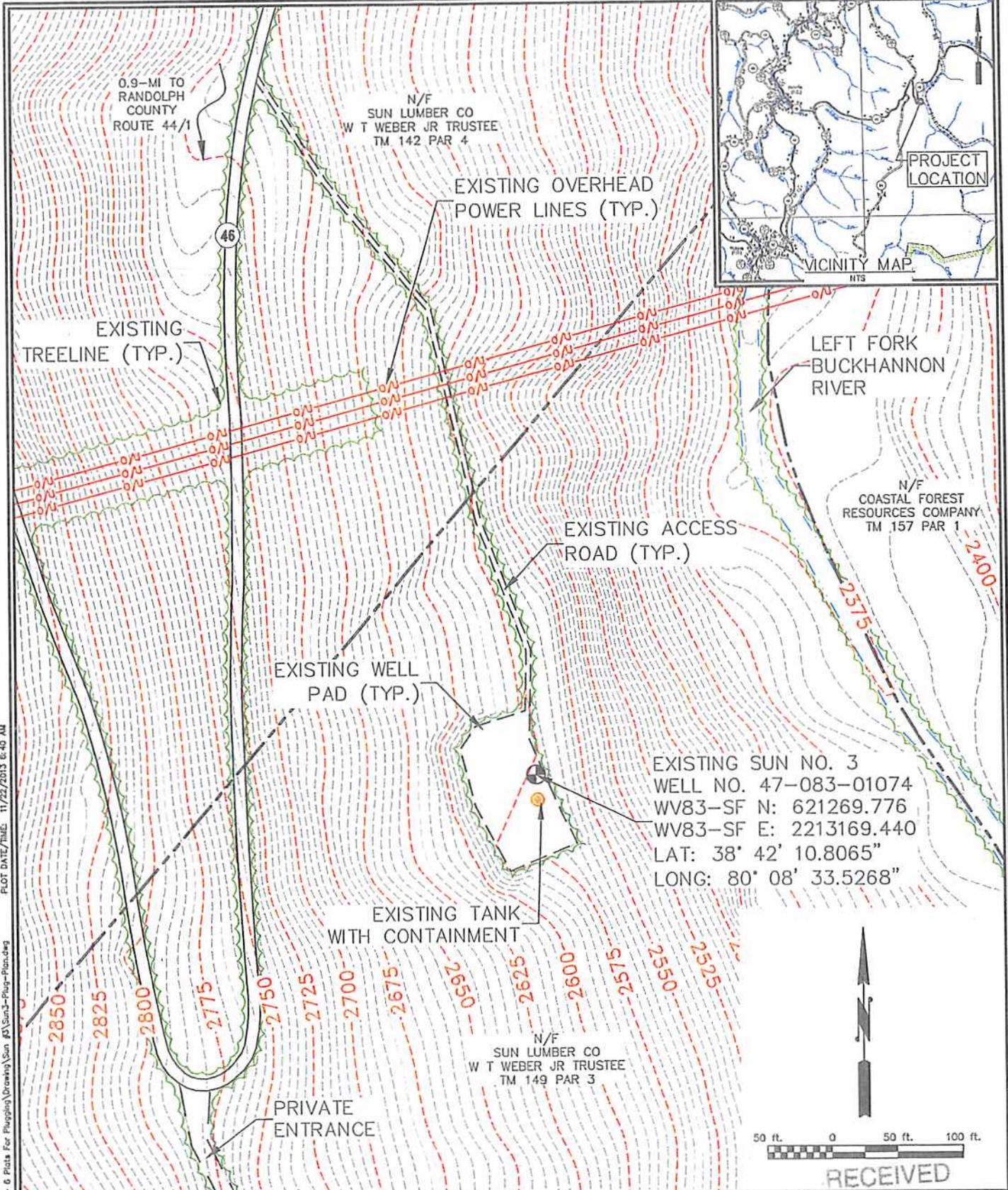
Please find subject application enclosed. At this time we do not anticipate using a pit for the project. If you have any questions or comments regarding this application feel free to contact me at 304-842-3597 x 6558.

Sincerely,

Steven P. Johnson
Senior Regional Landman / Agent

Enc.

RECEIVED
Office of Oil and Gas
MAR 17 2014
WV Department of
Environmental Protection



PLOT DATE/TIME: 11/22/2013 6:40 AM
CAD FILE: R:\030-2334 PDC- 6 Plots For Plugging\Drawing\Sun 03\Sun3-Plug-Plan.dwg



PDC MOUNTAINEER, LLOffice of O and Gas
WELL PLUGGING PLAN FOR
SUN NO. 3
RANDOLPH COUNTY, WV

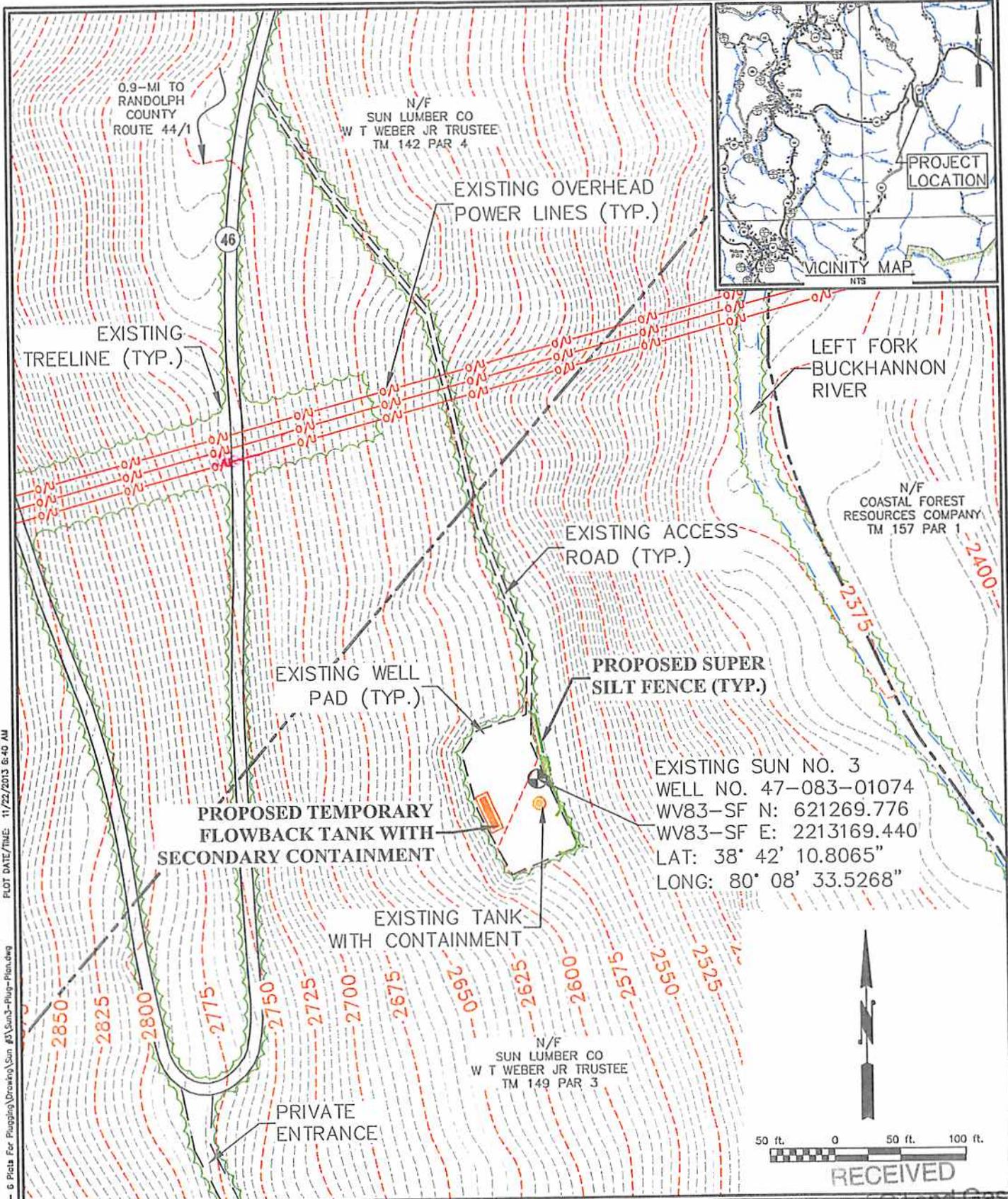
SHEET NO.
MAR 1 2014

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EXISTING CONDITIONS

WV Department of

Environmental Protection



PLOT DATE/TIME: 11/22/2013 6:40 AM

CAD FILE: R:\030-2334_PDC-6 Plugs For Plugging\Drawings\Sun #3\Sun3-Plug-Plan.dwg



THRASHER
 THE THRASHER GROUP, INC.
 600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330
 PHONE: 304-824-4103
 FAX: 304-824-7831

PDC MOUNTAINEER, LLC
 WELL PLUGGING PLAN FOR
 SUN NO. 3
 RANDOLPH COUNTY, WV

RECEIVED

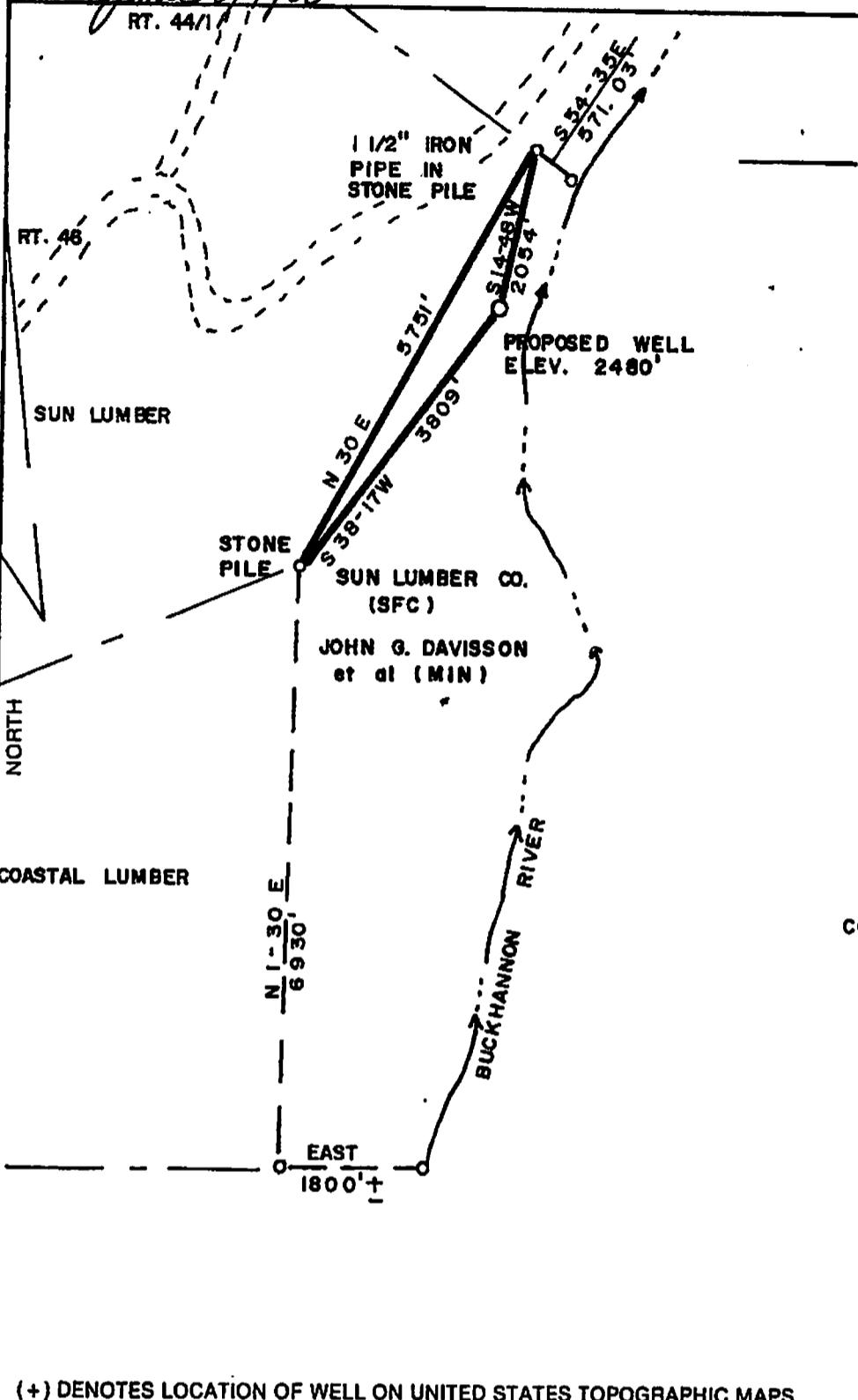
Office of Oil and Gas
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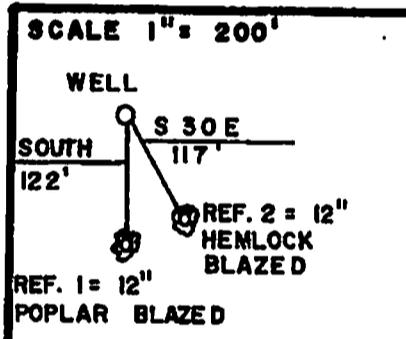
PROPOSED PLUGGING SITE PLAN
 Department of Environmental Protection

June 8/9/88

4708301074



LATITUDE 38° 42' 30"
LONGITUDE 80° 07' 30"
7 1/2' TOPO



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1' IN 200'
PROVEN SOURCE OF ELEVATION BM 2558, APPROX. 2000' NORTH OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.
(SIGNED) _____
R.P.E. _____ L.L.S. 624



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE JULY 26, 19 88
OPERATOR'S WELL NO. SUN 3
API WELL NO. 47-083-1074
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 2520' WATER SHED BUCKHANNON RIVER
DISTRICT MIDDLE FORK COUNTY RANDOLPH
QUADRANGLE PICKENS
SURFACE OWNER SUN LUMBER CO. ACREAGE 432
OIL & GAS ROYALTY OWNER JOHN G. DAVISSON et al LEASE ACREAGE 432

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
LEASE NO. _____
RECEIVED Office of Oil and Gas

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Alexander ESTIMATED DEPTH 5020'
WELL OPERATOR SENECA-UPSHUR PET. CO. DESIGNATED AGENT JOSEPH HAGER
ADDRESS P.O. BOX 2048 BUCKHANNON, W. VA. 26201 ADDRESS P.O. BOX 2048 BUCKHANNON, W. VA. 26201

COUNTY NAME
PERMIT

MAR 17 2014

WV Department of Environmental Protection

FORM IV-6 (8-78)
P.T. HALL

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 SEEDED 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 SEEDED 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-SEEDED 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 24-HOUR PERIOD. ANY REQUIRED 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: 304-842-3597 Jamie.Haga@pdce.com	THE THRASHER GROUP, INC. ROBERT R. MILNE, P.E. OFFICE: 304-624-4108 rmilne@thrashereng.com



PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
SUN NO. 3
RANDOLPH COUNTY, WV

RECEIVED
Office of Oil and Gas
MAR 17 2014

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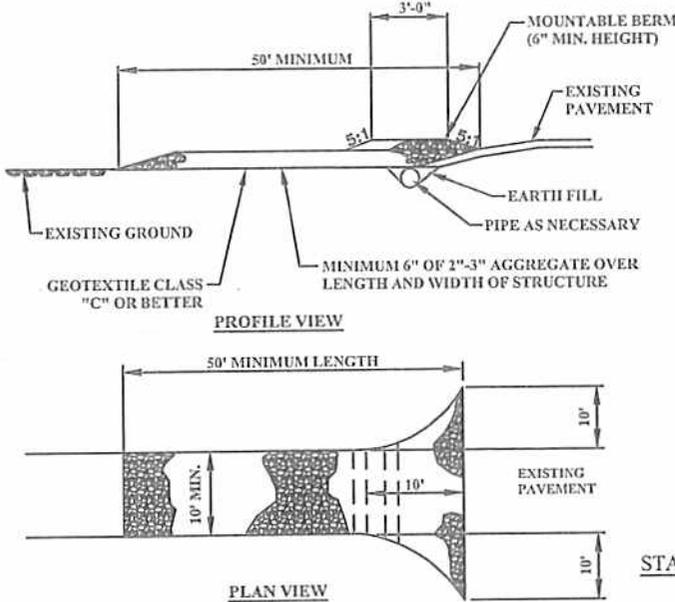
GENERAL NOTES

WV Department of Environmental Protection

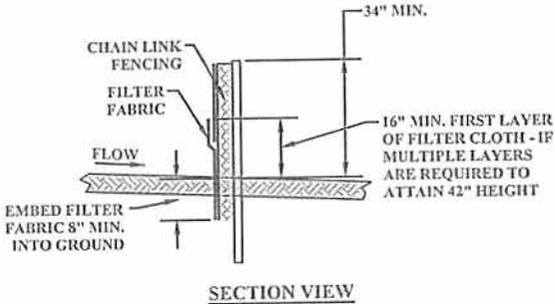
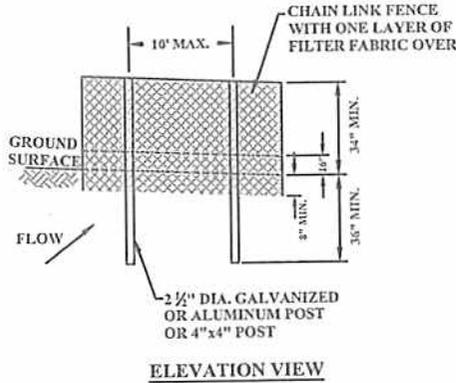
CAD FILE: R:000-2384-PDC-6-Plan For Plugging Drawings\Sun #3\sub-3-Details.dwg PLOT DATE/TIME: 11/22/2013 6:41 AM

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.



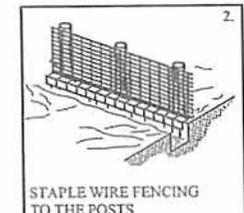
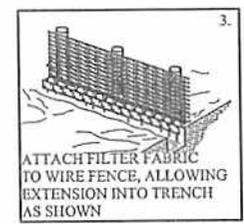
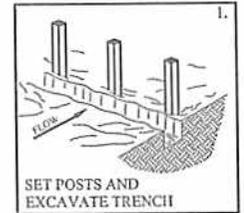
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



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.



RECEIVED
Office of ~~Construction~~ SUPER REINFORCED SILT FENCE DETAIL
NOT TO SCALE
MAR 17 2014

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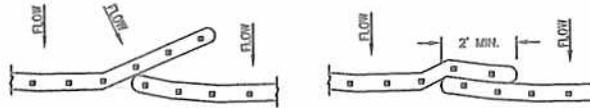
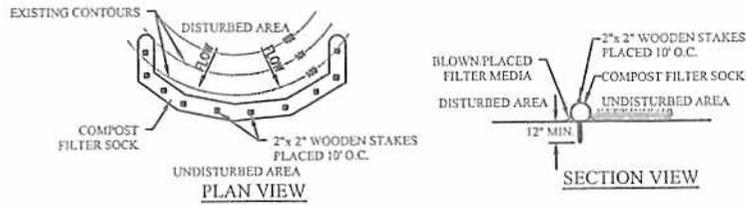


PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
SUN NO. 3
RANDOLPH COUNTY, WV

SHEET NO. 5
WV Department of Environmental Protection

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DETAILS



END-TO-END SOCK JOINING

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% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 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	12-IN (300-mm) Sediment Control	18-IN (450-mm) Sediment Control	24-IN (600-mm) Sediment Control	32-IN (800-mm) Sediment Control
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	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	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

CAD FILE: R:\030-2384 PDC-6 Plans For Pugging\Drawing\Sun #3\Sun-3-Details.dwg
 PLOT DATE/TIME: 11/27/2013 6:41 AM



PDC MOUNTAINEER



THE THRASHER GROUP, INC.
800 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330
PHONE: 304-624-4108
FAX: 304-624-7821

PDC MOUNTAINEER, LLC
WELL PLUGGING PLAN FOR
SUN NO. 3
RANDOLPH COUNTY, WV

SHEET NO.

6

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DETAILS

Nottingham, Justin E

From: Nottingham, Justin E
Sent: Tuesday, March 18, 2014 9:34 AM
To: Steve Johnson (steven.johnson@pdce.com); rachel.wyckoff@pdce.com
Cc: Hankins, Melanie S (Melanie.S.Hankins@wv.gov); Kearney, John J (John.J.Kearney@wv.gov)
Subject: Plugging Application for well # 47-083-01074
Attachments: OP-77 - Transfer Form.pdf; 47-8301074 app.pdf

The plugging application for well # 47-083-01074 has PDC Mountaineer, LLC as the Well Operator. In our database , this well has Seneca-Upshur Petroleum, LLC as the current operator. The well will need transferred with an OP-77 form and a \$50 fee or the application will need changed to show Seneca-Upshur Petroleum, LLC , as the operator. I have attached pdf copies of the plugging application and the OP-77 form . If you have any questions then feel free to contact me.

Thanks,
Justin

Fr:

Justin E. Nottingham

West Virginia Department of Environmental Protection

Office of Oil and Gas

Environmental Technician

601 57th Street, S.E.

Charleston, WV 25304

(304)-926-0499 (Ext. 1650)

(304)-926-0452 (fax)

Justin.E.Nottingham@wv.gov

