



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 01, 2014

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-10501362, issued to STANDARD OIL COMPANY, INC., 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 2009-1
Farm Name: HEARTWOOD FORESTLAND (N)
API Well Number: 47-10501362
Permit Type: Re-Work
Date Issued: 04/01/2014

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.

MAR 26 2014

WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Standard Oil Co. Inc Operator ID County Wirt District Bueno Spring Quadrangle Ammanish-1

2) Operator's Well Number: 1 3) Elevation: 955'

4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage
Deep / Shallow

5) Proposed Target Formation(s): Proposed Target Depth:
6) Proposed Total Depth: Feet Formation at Proposed Total Depth:
7) Approximate fresh water strata depths: 80' to 120'
8) Approximate salt water depths: 990' to 1450'

9) Approximate coal seam depths: NA

10) Approximate void depths, (coal, Karst, other): NA

11) Does land contain coal seams tributary to active mine? NO

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Perforate Maxon formation and frac with water and sand
Run tubing and rods put on pumpjack.

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Office of Oil and Gas
MAR 12 2014
WV Department of Environmental Protection

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8	H 40	36 Pds	60'	60'	
Fresh Water	9 5/8	H 40	26 Pds	200'	200'	CTS
Coal	NA					
intermediate	7	H 40	18 1/2	1100'	1100'	CTS
Production	4 1/2	J-55	10.5 Pds		3000 2122'	CTS
Tubing						
Liners						

Packers: Kind:
Sizes:
Depths Set

Joe Taylor
3-5-14

JOE TAYLOR
called on 3/31/14 to approve.

04/04/2014

10561362R ✓

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 05-08-2010
API #: 47-105-01362

Farm name: Heartwood Forestland Nutler Operator Well No.: 1

LOCATION: Elevation: 955' Quadrangle: Burning Springs 3

District: Burning Springs County: Wirt
Latitude: Feet South of 39 Deg. 00 Min. Sec.
Longitude: Feet West of 81 Deg. 15 Min. Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Standard Oil Company Inc 156 cairo wv	11 3/4"	35'	Pulled	N/A
Agent: Joe O'Ferrell	9 5/8 "	210'	210'	SKS
Inspector: Joe Taylor	7 "	1110'	1110'	185 sks
Date Permit Issued: 04-06-2010	4 1/2"	1899'	1899'	set on packer
Date Well Work Commenced: 04-19-2010	4 1/2" set on compression packer			
Date Well Work Completed: 04-24-2010	2 3/8"	1940'	1940'	tubing
Verbal Plugging: N/A	5/8" rods	1910'	1910'	rods
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft): 2055'				
Total Measured Depth (ft): 2055'				
Fresh Water Depth (ft.): 180				
Salt Water Depth (ft.): 197'				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) N/A				

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Office of Oil & Gas
JAN 21 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Big Injun Pay zone depth (ft) 55'
Gas: Initial open flow 35 MCF/d Oil: Initial open flow 4 Bbl/d
Final open flow 35 MCF/d Final open flow 5 Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 510 psig (surface pressure) after 72 Hours

Second producing formation N/A Pay zone depth (ft) _____
Gas: Initial open flow 30 MCF/d Oil: Initial open flow 1 Bbl/d
Final open flow 30 MCF/d Final open flow 1 Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 510 psig (surface pressure) after 72 Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

Joe Ferrell
Signature

1-7-2011
Date

04/04/2014
02/25/2011

Were core samples taken? Yes _____ No ^X

Were cuttings caught during drilling? Yes _____ No ^X

Were ^N/_{Y/N} Electrical, ^N/_{Y/N} Mechanical, ^N/_{Y/N} or Geophysical logs recorded on this well?

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Well came in Natural in the Maxon Sand and the Big Injun Sand

Formations Encountered:	MAXON SAND	Top Depth	1535'	1547'	Bottom Depth
Surface:	Big INJUN SAND		2055'	2110'	

0-20' Soil	1204-1218' Shale
20-150' Sand	1218-1305' Shale
150- 200' Red Rock	1305-1531' Oil Show Maxon
200- 266' Shale	1531-1547' Maxon Sand
266-294' Sand	1547-1922' Shale
294-310' Shale	1922- 1986' Line
301-425' Sand	1986-2055' Shale
425-451' Red Rock	2055-2110 Gas and Oil Show
451-600' Shale	2110-2250' Big Injun
600-610' Sand	2250' Total Depth
610-640' Shale	
640-820' Sand	
820-900' Shale	
1120-1180' Slate	
1180-1204' Slate	

WW-2A
(Rev. 6-07)

1.) Date: 2/25/2014
2.) Operator's Well Number 1109
State County Permit
3.) API Well No.: 47- 105 - 01362

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: (a) Name Forestland Group LLC Address 3001 EMERSON AVE. PARKERSBURG, WV. 26104
(b) Name Address
(c) Name Address
5) (a) Coal Operator Name Address
(b) Coal Owner(s) with Declaration Name Address
(c) Coal Lessee with Declaration Name Address
6) Inspector Joe Taylor Address 1478 Claylick Rd. Ripley WV. 25271 Telephone 304 380 7469

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.



Well Operator Standard Oil Company Inc
By: [Signature]
Its: President
Address 129 Clinton St. Parkersburg WV 26101
Telephone 304 489 2777

Subscribed and sworn before me this 28 day of FEB., 2014

September 21, 2021 John J. Danielski Notary Public
My Commission Expires SEPTEMBER 21, 2021

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

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

FORESTLAND GROUP LLC
 3001 EMERSON AV.
 PARKERSBURG WV.
 26104

2. Article Number
 (Transfer from service label)

7012 3050 0002 3575 0466

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Paula Under* Agent
 Addressee

B. Received by (Printed Name)

Paula Under

C. Date of Delivery

2-28

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Certified Mail® Priority Mail Express™
- Registered Return Receipt for Merchandise
- Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

Domestic Return Receipt

SURFACE OWNER WAIVER

County Wirt

Operator Standard Oil Company Inc
Operator well number 1109

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

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

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

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

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

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

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A / 3A, and attachments consisting of pages 1 through ___ including a work order on Form WW-2B / 3A, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date _____

Company Name _____
By _____

Date _____

Print Name

Received

FEB 14 2014

Signature

Date _____

WW-2A / 3A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County _____
Operator _____ Operator's Well Number 1109

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW-2A / 3A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

	Date		Company Name	n/a	
Signature			By		
			Its		Date
			Signature		Date

Received

FEB 14 2014

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Applied Mechanics Corp. P.O. Bx 415 Bridgport, WV 26310	Standard Oil Company Inc. 129 Clinton St. Parkersburg, WV 26101	1/8	227/565

RECEIVED
Office of Oil and Gas

MAR 26 2014

WV Department of
Environmental Protection

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Standard Oil Company Inc
Land Manager
Peter Mongeau *Peter Mongeau* FEB 14 2014

Received

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 Standard Oil Company Inc. OP Code _____

Watershed _____ Quadrangle Annamoriah-1

Elevation 955' County Wirt District Burning Springs

Description of anticipated Pit Waste: FRAC FLUID

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No x

Will a synthetic liner be used in the pit? YES If so, what mil.? 20 MIL

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust _____

-Landfill or offsite name/permit number? _____

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 Peter Mongeau

Company Official (Typed Name) Peter Mongeau

Company Official Title Land Manager

Received

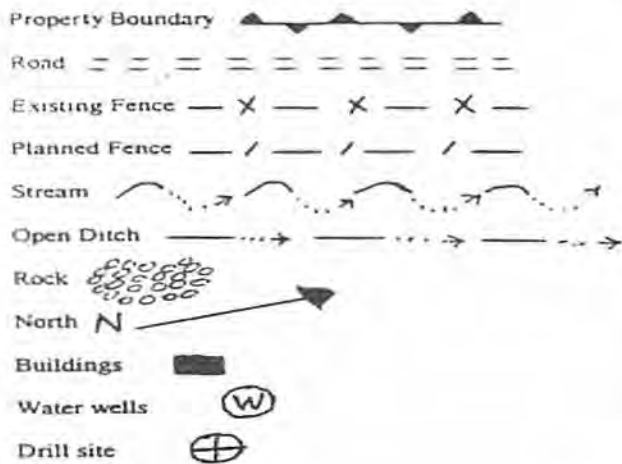
FEB 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

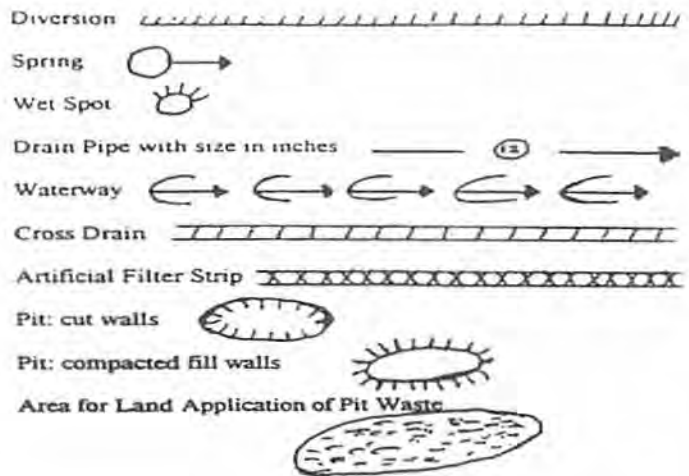
Subscribed and sworn before me this 11 day of FEB. 20 14

John J. Danielski
My commission expires September 21, 2021





LEGEND



Proposed Revegetation Treatment: Acres Disturbed +/-2 acres Prevegetation pH _____
 Lime 2 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch 1 ton Hay or straw Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall fescue		40
ladino clover		5
annual rye		15

Seed Type	Area II	lbs/acre
Tall fescue		40
ladino clover		5
annual rye		15

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: _____

Title: COG Inspector Date: 1-29-14
 Field Reviewed? (Wirt) Yes () No

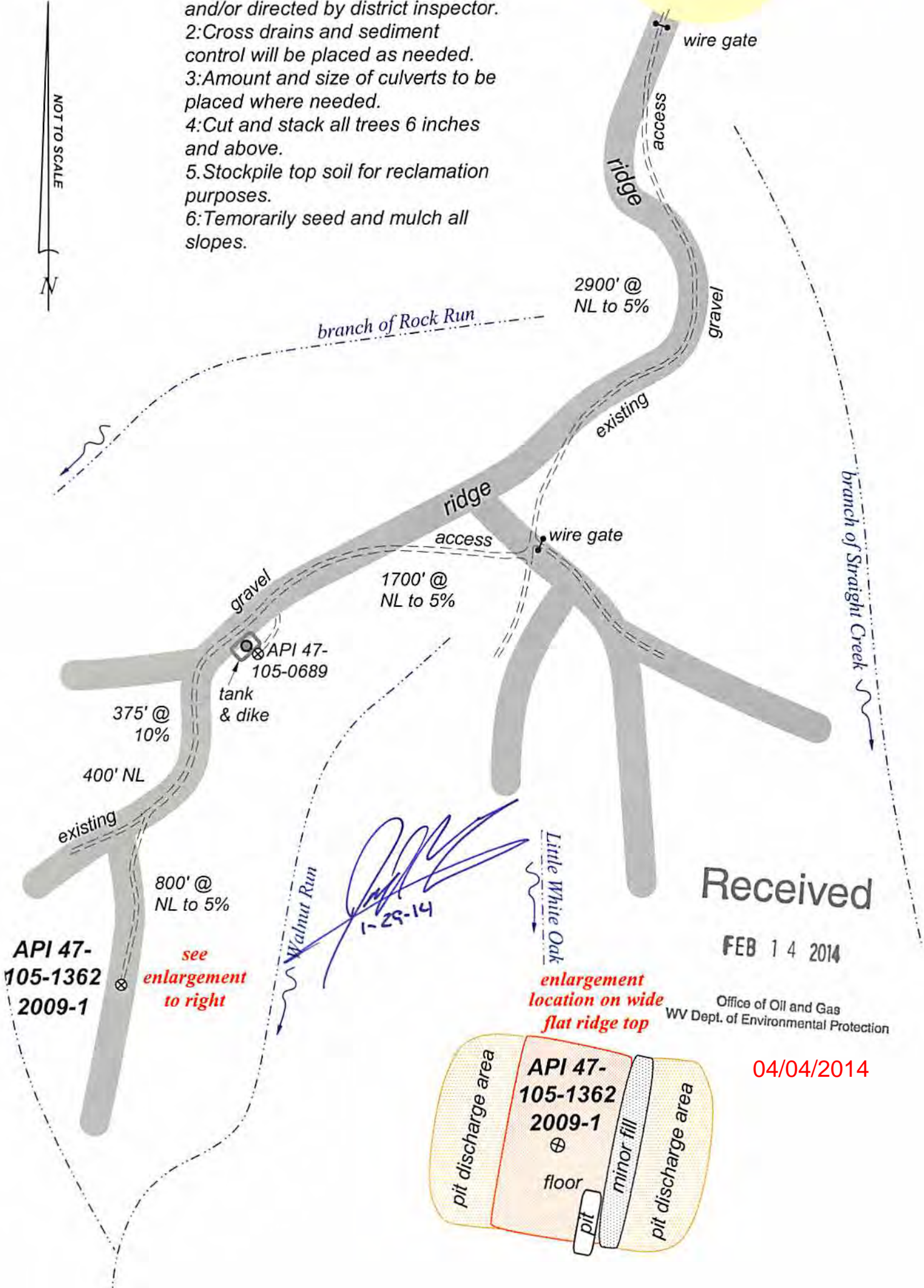
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Office of Oil and Gas
 WV Dept. of Environmental Protection
 04/04/2014

Standard Oil Company, Inc
Well:2009-1 API 47-105-1362
Thorn C. Roberts 50 acres of +1500 acre lease
Burning Springs District Wirt County
West Virginia

*see attached
rec. plan
Buckeye Oil
Piedmont-MJ3*

- 1:Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2:Cross drains and sediment control will be placed as needed.
- 3:Amount and size of culverts to be placed where needed.
- 4:Cut and stack all trees 6 inches and above.
- 5:Stockpile top soil for reclamation purposes.
- 6:Temporarily seed and mulch all slopes.



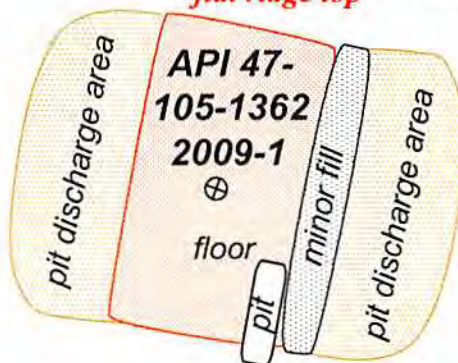
[Handwritten signature]
1-29-14

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Office of Oil and Gas
WV Dept. of Environmental Protection

04/04/2014



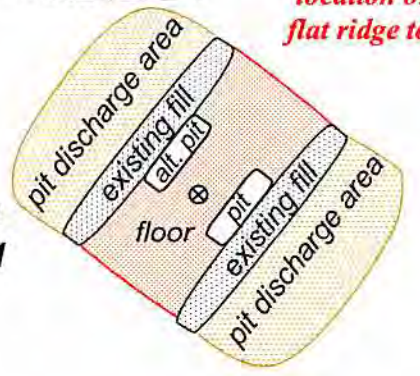
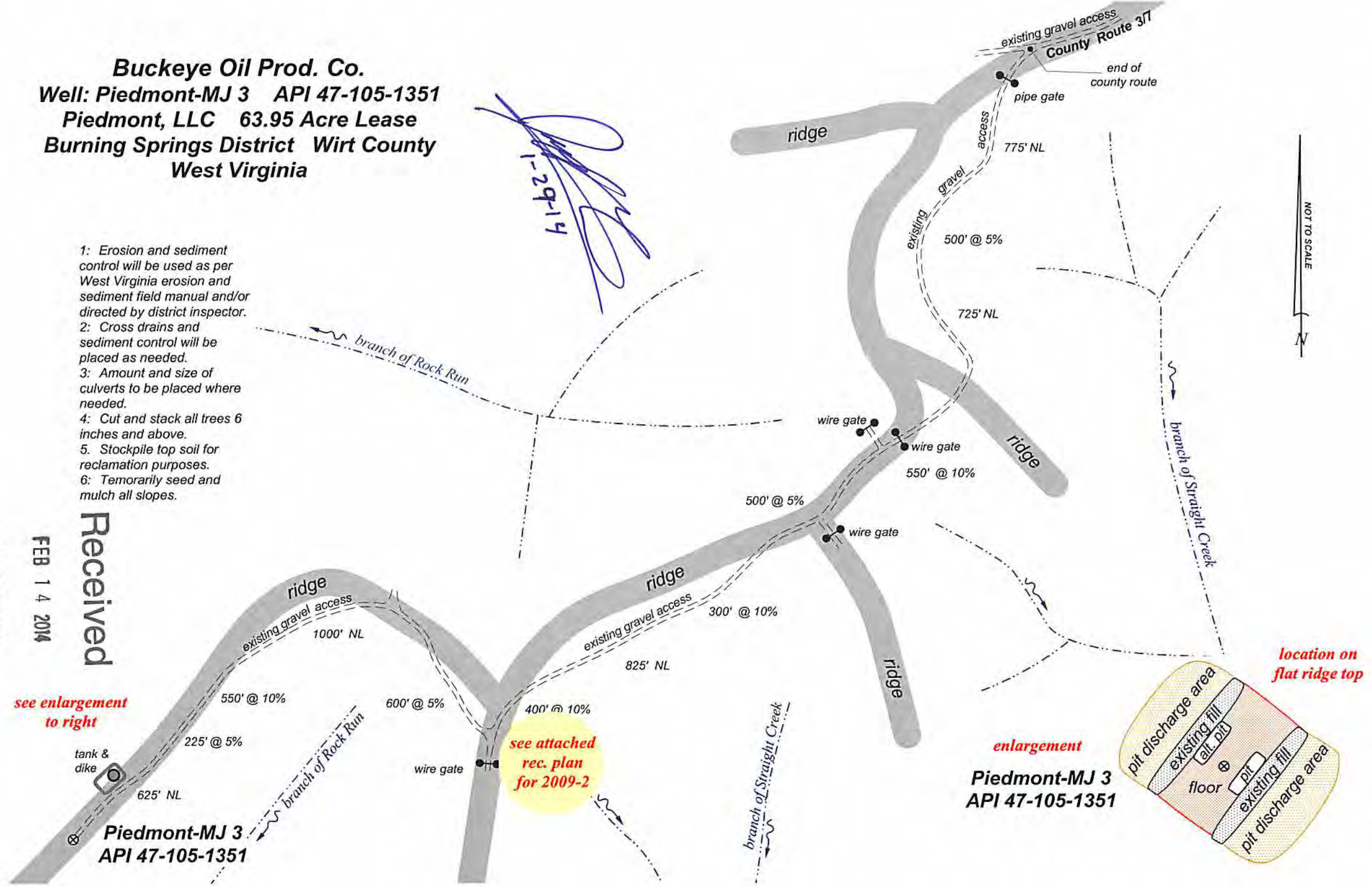
*see
enlargement
to right*

*enlargement
location on wide
flat ridge top*

Buckeye Oil Prod. Co.
Well: Piedmont-MJ 3 API 47-105-1351
Piedmont, LLC 63.95 Acre Lease
Burning Springs District Wirt County
West Virginia

- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches and above.
- 5: Stockpile top soil for reclamation purposes.
- 6: Temporarily seed and mulch all slopes.

1-29-14



enlargement
Piedmont-MJ 3
API 47-105-1351

location on flat ridge top

10501362R

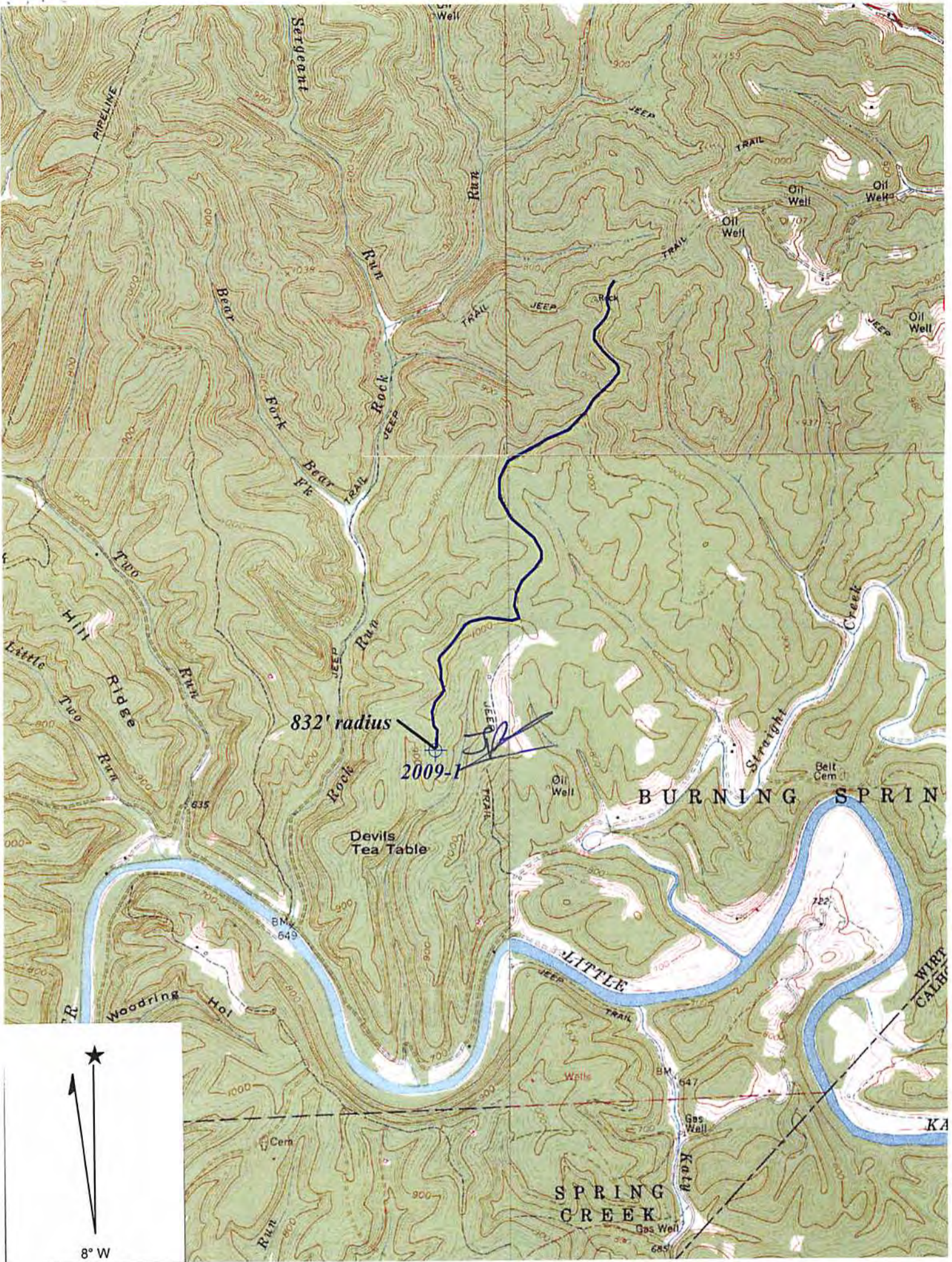
Office of Oil and Gas
 WV Dept. of Environmental Protection

FEB 14 2014

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see enlargement to right

Piedmont-MJ 3
API 47-105-1351



BURNING SPRINGS QUADRANGLE

SCALE 1" = 2000'

STANDARD OIL CO, INC.

WELL: 2009-1 API 47-105-1362
THORN C. ROBERTS 50 ACRES OF +1500 ACRE LEASE

BURNING SPRINGS DISTRICT WIRT COUNTY WEST VIRGINIA

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FEB 14 2014

04/04/2014

Office of Oil and Gas
WV Dept. of Environmental Protection

81° 15' 15.1" (81.25420)

1170'

LATITUDE 39° 00'

UTM NAD 83
17 S 0477984
431 5114

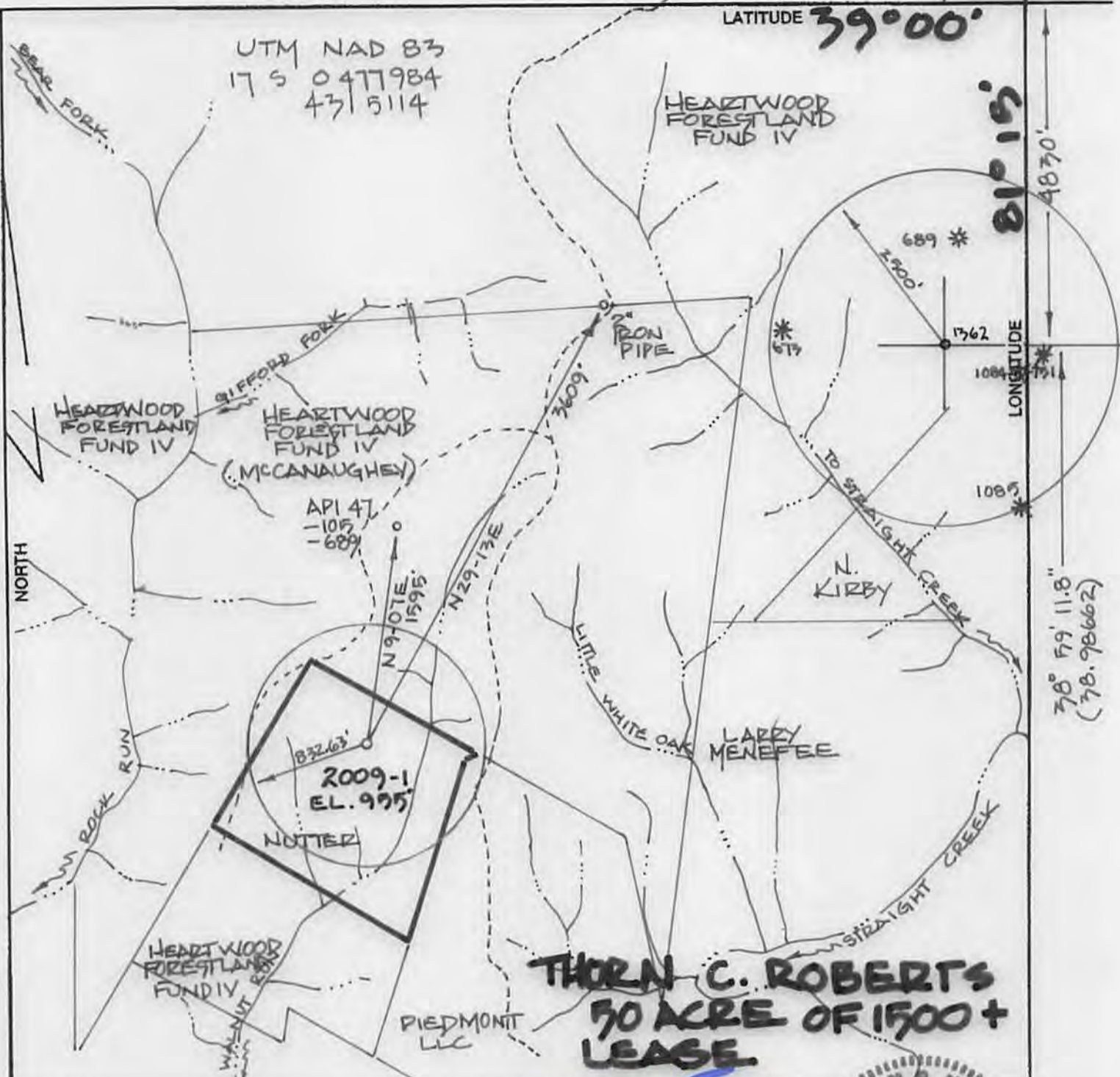
HEARTWOOD FORESTLAND FUND IV

81° 15'

4870'

LONGITUDE

78° 59' 11.8" (78.98662)



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION G.P.S.
OBSERVATION

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 ENERGY.
 (SIGNED) _____
 R.P.E. _____ P.S. 551



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS



DATE JUNE 3, 2013
 OPERATOR'S WELL NO. 2009-1
 API WELL NO. 47-105-1362R

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 955' WATER SHED WALNUT RUN & ROCK RUN
 DISTRICT BURNING SPRINGS COUNTY WIRT
 QUADRANGLE BURNING SPRINGS - 3
 SURFACE OWNER HEARTWOOD FORESTLAND (NUTTER) ACREAGE 46
 OIL & GAS ROYALT THORN C. ROBERTS LEASE AC. 50 OF 1500+
 PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

COUNTY NAME

PERMIT

04/04/2014

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION MAXON & BIG INJUN ESTIMATED DEPTH 1750' TO 1790'
 WELL OPERATOR STANDARD OIL CO. INC DESIGNATED AGENT JOE O. FERRELL
 ADDRESS 156 MAIN ST. CAIRO, WV 26337 ADDRESS 517 ELLIS AVENUE PARKERSBURG, WV 26101

FORM WV-6