



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

June 02, 2014

WELL WORK PERMIT


Vertical Well

This permit, API Well Number: 47-8510120, issued to MURVIN & MEIER OIL CO., 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: NATHAN REED #2
Farm Name: DIFILIPPO, DENNIS N. & DEBRA
API Well Number: 47-8510120
Permit Type: Vertical Well
Date Issued: 06/02/2014

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.

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 Murvin & Meier Oil Co 55 3 612
307980 Ritchie Murphy Smithville 7.5'
Operator ID County District Quadrangle
- 2) Operator's Well Number: Nathan Reed #2 3) Elevation: 1175'
- 4) Well Type: (a) Oil X or Gas X
 (b) If Gas: Production X / Underground Storage _____
 Deep _____ / Shallow X
- 5) Proposed Target Formation(s): Warren thru Rhinestreet Proposed Target Depth: 6400
 6) Proposed Total Depth: 6400 Feet Formation at Proposed Total Depth: Shale
 7) Approximate fresh water strata depths: 185'
 8) Approximate salt water depths: None (Permit #3268)
 9) Approximate coal seam depths: None (Permit #3268)
 10) Approximate void depths,(coal, Karst, other): None
 11) Does land contain coal seams tributary to active mine? No
 12) Describe proposed well work in detail Drill and Complete New Well

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 | 16" | | 32 | 20' | 20' | |
| Fresh Water | 11 3/4" | A-500 | 32 | 300' | 300' | CTS |
| Coal | | | | | | |
| Intermediate | 8 5/8" | A-500 | 23 | 2075' | 2075' | CTS |
| Production | 4 1/2" | WT65Y | 10.5 | 6350 | 6350 | 550 |
| Tubing | | | | | | |
| Liners | | | | Received | | |

Packers: Kind _____
 Sizes _____
 Depths Set _____

MAY 14 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection

John
 3-14-14
 06/06/2014

WW-2A
(Rev. 6-07)

1.) Date: April 8, 2014
2.) Operator's Well Number Nathan Reed #2
State County Permit
3.) API Well No.: 47-085

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

ck# 32399
+ 650^{ee}

4) Surface Owner(s) to be served: (a) Name Dennis N. and Debra L. DiSilippo Address 4924 Mac Circle Ave. SW Charleston, WV 25309-1216
(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 Mr. David Cowan Address Route 1 Box 202 Harrisville, WV 26036 Telephone 304-389-3509

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

X 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 11 on the above named parties by:

- Personal Service (Affidavit attached)
- X 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.

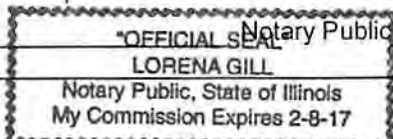
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Murphy Land Meier Oil Co.
By: Kate M. Shack
Its: Exec-Vice Pres.
Address PO Box 396 Olney Illinois 62450
Telephone 618-395-4405

Received

Subscribed and sworn before me this 8th day of April, 2014 MAY 14 2014

Lorena Gill
My Commission Expires 2/8/17
Oil and Gas Privacy Notice



Office of Oil and Gas
WV Dept. of Environmental Protection

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 THIS SECTION ON DELIVERY | |
|--|--|--|
| <ul style="list-style-type: none"> ■ 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. | <p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery 4.10.14</p> | |
| <p>1. Article Addressed to:</p> <p><i>Dennis N. and Debra L. DiFilippo</i> <i>4924 MacCorkle Ave SW</i> <i>Charleston, WV 25309-1216</i></p> | <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p> | |
| <p>2. Article Number (Transfer from service label)</p> | <p>7013 1090 0001 8665 5196</p> | |
| <p>PS Form 3811, July 2013 Domestic Return Receipt</p> | | |

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

06/06/2014

Operator's Well Number Nathan Reed #2

**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 |
|------------------------------------|-------------------------------------|------------|----------------|
| <i>Nathan Reed et ux</i> | <i>South Penn Oil Co</i> | <i>1/8</i> | <i>33/523</i> |
| <i>South Penn Oil Co.</i> | <i>Skyles Oil Corp</i> | | <i>87/197</i> |
| <i>Skyles Oil Corp</i> | <i>Bowser Gas and Oil Co.</i> | | <i>99/309</i> |
| <i>Bowser Gas and Oil Co.</i> | <i>Megan Oil & Gas Co, Inc.</i> | | <i>191/546</i> |
| <i>Megan Oil & Gas Co, Inc</i> | <i>Murkin & Meier Oil Co.</i> | | <i>254/147</i> |

**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

Received

MAY 14 2014

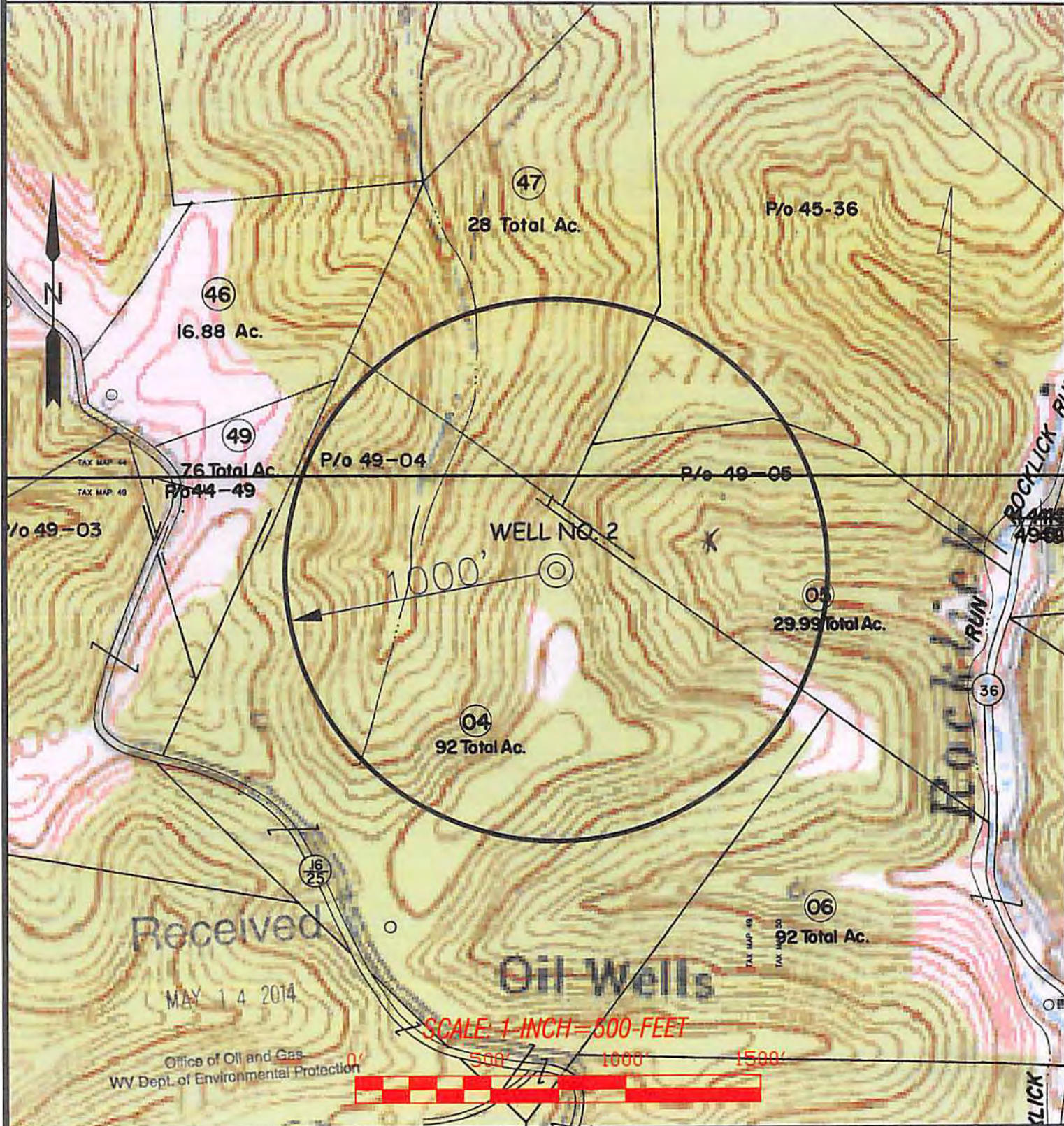
Office of Oil and Gas
WV Dept. of Environmental Protection

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:

Murkin & Meier Oil Co.
Kate W. Lacy
Exec. Vice-President

NATHAN REED LEASE WELL NO. 2



Professional Energy Consultants
A DIVISION OF SPECTRUM SERVICES

Surveyors
PROJECT MARK
SLS
Engineers
ENVIRONMENTAL

P.O. Box 100
Steinbock, WV 26031
(204) 423-3634

8009 Dixie Station Road
Steinbock, WV 26031
(204) 423-3634

DRAWN BY
K.G.M.

FILE NO.
7774

DATE
03/03/14

CADD FILE:
7774WS2.DWG

TOPO SECTION OF:
SMITHVILLE, WV 7.5' QUAD.

| DISTRICT | COUNTY | TAX MAP-PARCEL NO. |
|----------|---------|--------------------|
| MURPHY | RITCHIE | 49-4 |

OPERATOR:
MURVIN & MEIER OIL CO.
P.O. BOX 396
OLNEY, IL 62450 06/06/2014

WW-2B1
(5-12)

Well No. Nathan Reed #2

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

| | |
|---------------------------|--|
| Certified Laboratory Name | <u>Reliance Labs</u> |
| Sampling Contractor | <u>Smith Land Surveying, Inc. - Environmental Division</u> |

| | |
|---------------|-----------------------------------|
| Well Operator | <u>Murvin & Meier Oil Co.</u> |
| Address | <u>P.O. Box 396</u> |
| | <u>Olney, IL 62450</u> |
| Telephone | <u>618-395-4405</u> |

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

NOTE: There appears to be 1 potable water source within 1,500', therefore tests will be offered and samples taken as required.

Received

MAY 14 2014

06/06/2014
Office of Oil and Gas
WV Dept. of Environmental Protection



OPERATOR: Murvin & Mieir Oil Company
LEASE NAME AND NUMBER: Nathan Reed Lease Well No. 2

COMMENTS

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the proposed well site. The following landowners will be notified of the opportunity to request a water sample should it be necessary.
*Please note that the following information is subject to change upon field inspection.

INDIVIDUAL CONTACTED OR NOTIFIED

Owner/Occupant: Dennis N & Debra L Difilippo
Address: 4924 MacCorkle Ave. SW South Charleston, WV 26309 Letter/Notice Date: _____
Comments: Tax Map 49 Parcel 4

Owner/Occupant: John S Butcher & Thomas Adkins WILL SAMPLE
Address: 11 Bogus ALY. Logan, WV 25601 Letter/Notice Date: _____
Comments: Tax Map 49 Parcel 5

Owner/Occupant: Dennis N & Debra L Difilippo
Address: 4924 MacCorkle Ave. SW South Charleston, WV 26309 Letter/Notice Date: _____
Comments: Tax Map 45 Parcel 36

Owner/Occupant: Dennis N & Debra L Difilippo
Address: 4924 MacCorkle Ave. SW South Charleston, WV 26309 Letter/Notice Date: _____
Comments: Tax Map 44 Parcel 47

Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____

Received

MAY 14 2014

WW-9
(5/13)

API Number 47 - 085
Operator's Well No. Nathan Reed 2

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Murvin & Meier Oil Company OP Code 307980

Watershed (HUC 10) Roanoke River Trib. to Leatherback Creek Quadrangle Smithville 7.5'

Elevation 1175 County Ritchie District Murphy

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

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: Drill water and various formation cuttings

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 10 20ML

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 _____)

Will closed loop system be used? No

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

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

Additives to be used in drilling medium? Soap

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

-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 Kate M. Blackford

Company Official (Typed Name) Kate M. Blackford

Company Official Title Exec. Vice-President

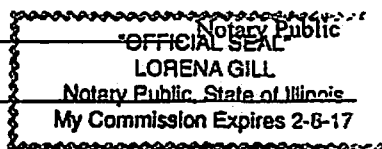
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MAY 14 2014

Subscribed and sworn before me this 8th day of April, 2014

Lorena Gill

My commission expires 2/8/17



Office of Oil and Gas
WV Dept. of Environmental Protection

06/06/2014

LEGEND

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

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

Proposed Revegetation Treatment: Acres Disturbed 2 1/2 Prevegetation pH 6.0
 Lime 3 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 1/2 TEN lbs/acre (500 lbs minimum)
 Mulch Straw/Hay 2 Tons/acre

Seed Mixtures

| Area I | | Area II | |
|----------------------|-----------|----------------------|-----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| <u>Ky - 31</u> | <u>40</u> | <u>Orchard Grass</u> | <u>15</u> |
| <u>Alsike Clover</u> | <u>5</u> | <u>Alsike Clover</u> | <u>5</u> |
| <u>Annual Rye</u> | <u>15</u> | | |

Attach:
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

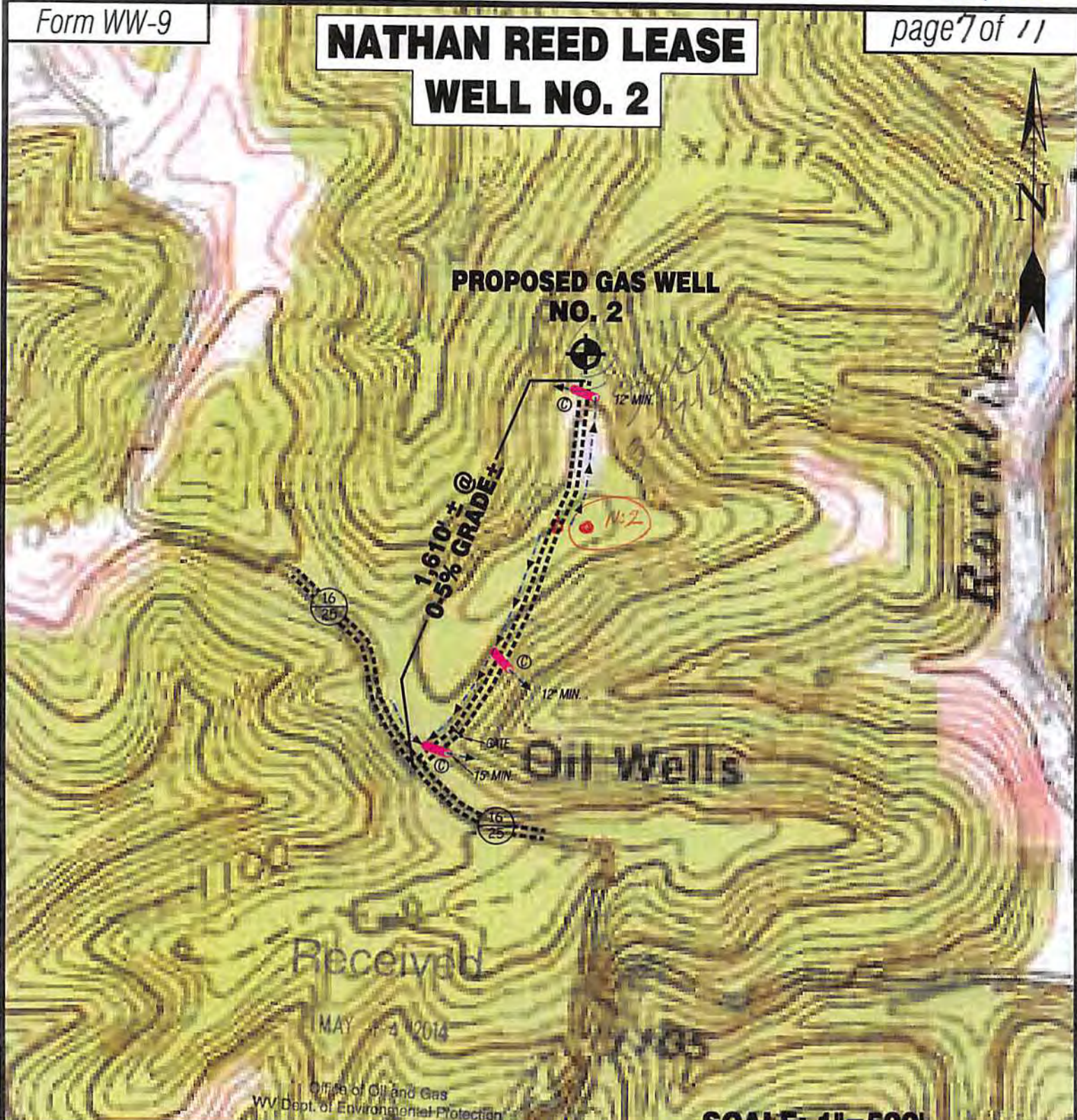
Plan Approved by: [Signature]

Comments: Preserve & mulch all cut area no less than 2 ton per acre maintain all pits during operation

Title: sub gas inspector Date: 3-27-14

Field Reviewed? Yes No

NATHAN REED LEASE WELL NO. 2



Received

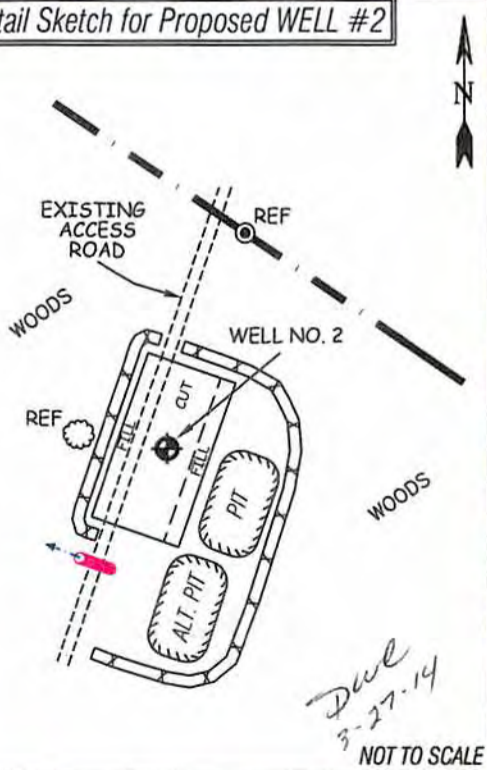
MAY 4 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

SCALE: 1"=500'



Detail Sketch for Proposed WELL #2



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION. **06/06/2014**

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES)

= EXISTING CULVERT = PROPOSED CULVERT (SIZE AS STATED)

= PROPOSED STREAM CROSSING



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

P.O. Box 150
Clarksburg, WV 26301
(304) 482-6634

5005 Dixie Bottom Road
Shady Side, OH 43087
(740) 671-9611

HONESTY. INTEGRITY. QUALITY

| | | | |
|--------------------|------------------|------------------|----------------------------|
| DRAWN BY K.G.M. | FILE NO. 7774 | DATE 02/28/14 | CADD FILE: 7774REC2.DWG |
|--------------------|------------------|------------------|----------------------------|

LATITUDE 39° 02' 30"
NOTES ON SURVEY

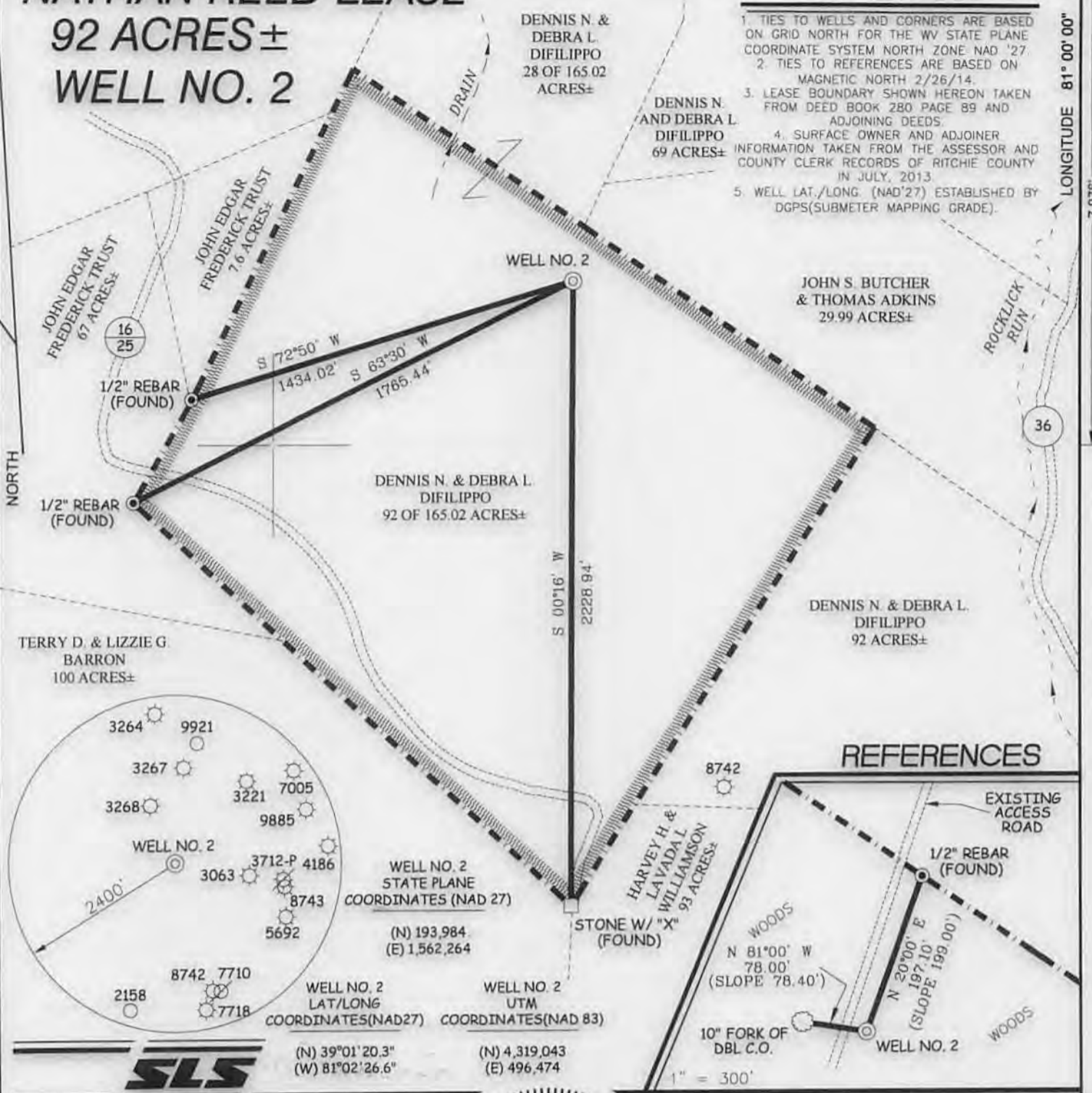
NATHAN REED LEASE

92 ACRES± WELL NO. 2

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 2/26/14.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 280 PAGE 89 AND ADJOINING DEEDS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2013.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

LONGITUDE 81° 00' 00"

NORTH

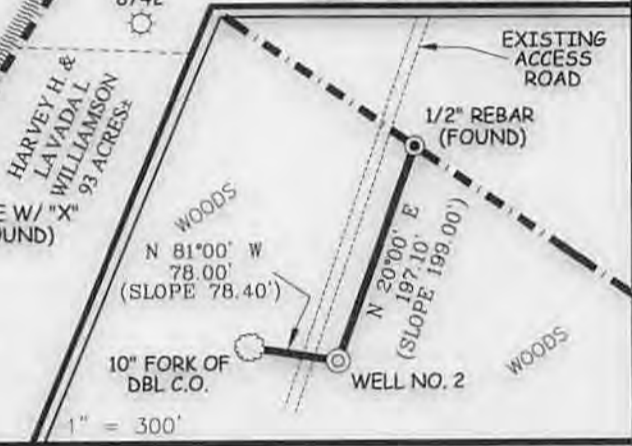


WELL NO. 2 STATE PLANE COORDINATES (NAD 27)
(N) 193,984. (E) 1,562,264

WELL NO. 2 LAT/LONG COORDINATES (NAD27)
(N) 39°01'20.3" (W) 81°02'26.6"

WELL NO. 2 UTM COORDINATES (NAD 83)
(N) 4,319,043 (E) 496,474

REFERENCES




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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 3, 20 14
OPERATORS WELL NO. NATHAN REED #2
API WELL NO. 47 - 85 - 10120
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7774P2(497-18)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



| | | | | | | |
|--|---|---|---|-----------------------------------|-------------------------------|---|
| WELL TYPE: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> | LIQUID INJECTION <input type="checkbox"/> | WASTE DISPOSAL <input type="checkbox"/> | IF "GAS" PRODUCTION <input checked="" type="checkbox"/> | STORAGE <input type="checkbox"/> | DEEP <input type="checkbox"/> | SHALLOW <input checked="" type="checkbox"/> |
| LOCATION: ELEVATION <u>1,175'</u> WATERSHED <u>ROCKLICK RUN & TRIBUTARY TO LEATHERBARK CREEK</u> | | | | | | |
| DISTRICT <u>MURPHY</u> | | COUNTY <u>RITCHIE</u> | | QUADRANGLE <u>SMITHVILLE 7.5'</u> | | |
| SURFACE OWNER <u>DENNIS N. & DEBRA L. DIFILIPPO</u> | | | ACREAGE <u>92 OF 165.02±</u> | | | |
| ROYALTY OWNER <u>NATHAN REED HEIRS OR ASSIGNS, ET AL</u> | | | LEASE ACREAGE <u>92±</u> | | <u>06/06/2014</u> | |
| PROPOSED WORK: DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/> OTHER <input type="checkbox"/> | | | | | | |
| PHYSICAL CHANGE IN WELL (SPECIFY) _____ | | | TARGET FORMATION <u>RHINESTREET</u> | | ESTIMATED DEPTH <u>6,300'</u> | |

WELL OPERATOR MURVIN & MEIER OIL CO. DESIGNATED AGENT P. NATHAN BOWLES, JR.
ADDRESS P.O. BOX 396 ADDRESS P.O. BOX 1237
OLNEY, IL 62450 CHARLESTON, WV 25325

COUNTY NAME PERMIT

8510120



J. B. MURVIN
1917-1996
D. W. MEIER

422 FRONT STREET
P.O. BOX 215
MARIETTA, OHIO 45750
PHONE: 740/374-5383
FAX: 740/374-3427

May 12, 2014

Attn: Justin E. Nottingham
State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

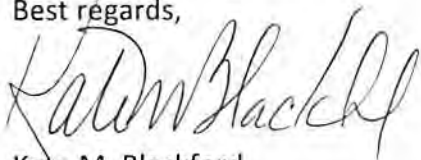
Re: Nathan Reed #2, Ritchie County, West Virginia

Dear Justin:

Please find enclosed a New Well Application for the Nathan Reed #2, together with our check in the amount of \$650.00.

Smith Land Surveying is in the process of drafting our water sample information in the format in which it is required and I will be forwarding to you in the near future.

Following your review, in the event you have any questions or require additional information, please contact me at 618-395-4405, or katieb@murvinandmeier.com.

Best regards,


Kate M. Blackford
Executive Vice-President

Enclosures

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection
06/06/2014