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**west virginia** department of environmental protection

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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

August 26, 2013

**WELL WORK PERMIT**

**Vertical Well**

This permit, API Well Number: 47-8510061, 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: COX M2A  
Farm Name: DIFILIPPO, DENNIS N. & DEBRA  
**API Well Number: 47-8510061**  
**Permit Type: Vertical Well**  
Date Issued: 08/26/2013

**Promoting a healthy environment.**

# PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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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 and Meier Oil Co. 307980 Ritchie Murphy Smithville 7.5  
Operator ID County District Quadrangle

2) Operator's Well Number: Cox M2A 3) Elevation: 1148'

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

5) Proposed Target Formation(s): Warren thru Rhinestreet Proposed Target Depth: 6370'

6) Proposed Total Depth: 6370 Feet Formation at Proposed Total Depth: L. Rhinestreet

7) Approximate fresh water strata depths: None (Permits 732 & 802) (50' Permit 9938)

8) Approximate salt water depths: None (Permits 732, 802, & 9938)

9) Approximate coal seam depths: None (Permits 732 & 802) 440-45', 506-08' (Permit 9938)

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"					
Fresh Water	11 3/4"	A500	32	545	545	CTS
Coal						
Intermediate	8 5/8"	A500	23	2025	2025	CTS
Production	4 1/2"	WT65	10.5	6320	6320	600
Tubing						
Liners						

Packers: Kind  
          Sizes  
          Depths Set

Received  
AUG 26 2013  
Dud  
8-23-13  
Office of Oil and Gas  
WV Dept. of Environmental Protection



WW-2A  
(Rev. 6-07)

1.) Date: August 19, 2013  
2.) Operator's Well Number Cox M2A  
State County Permit  
3.) API Well No.: 47- 085 - 10061

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

Check # 4173  
\$ 650.00

4) Surface Owner(s) to be served:  5) (a) Coal Operator  
(a) Name Dennis M & Debra L. DiFilippo Name \_\_\_\_\_  
Address 4924 MacCorkle Ave. SW Address \_\_\_\_\_  
Charleston, WV 25309-1216  
(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_  
6) Inspector Mr. David Cowan (c) Coal Lessee with Declaration  
Address Route 1 Box 202 Name \_\_\_\_\_  
Harrisville, WV 26362 Address \_\_\_\_\_  
Telephone 304-389-3509

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

OR

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 9 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 MURVIN & MEIER OIL CO.  
By: Kate M. Blackford  
Its: Kate M. Blackford, Executive Vice-President  
Address P. O. Box 396  
Olney IL 62450  
Telephone 618-395-4405

Received  
AUG 26 2013  
Office of Oil and Gas  
WV Dept. of Environmental Protection

Subscribed and sworn before me this 19<sup>th</sup> day of August, 2013

Kellie Weems

Notary Public OFFICIAL SEAL"  
KELLIE WEEMS  
Notary Public, State of Illinois  
My Commission Expires 11-30-16

My Commission Expires 11/30/16

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](mailto:depprivacyofficer@wv.gov)





Form WW-9

Operator's Well No. Cox M2A

Proposed Revegetation Treatment: Acres Disturbed 2.69 +/- Prevegetation pH 6.0

Lime 3 Tons/acre or to correct to pH 6.5

*Pre seed & mulch all cut area  
no less than 2 ton per acre*

Fertilizer (10-20-20 or equivalent) 1/3 ton lbs/acre (500 lbs minimum)

Mulch 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: Maintain all CVS.

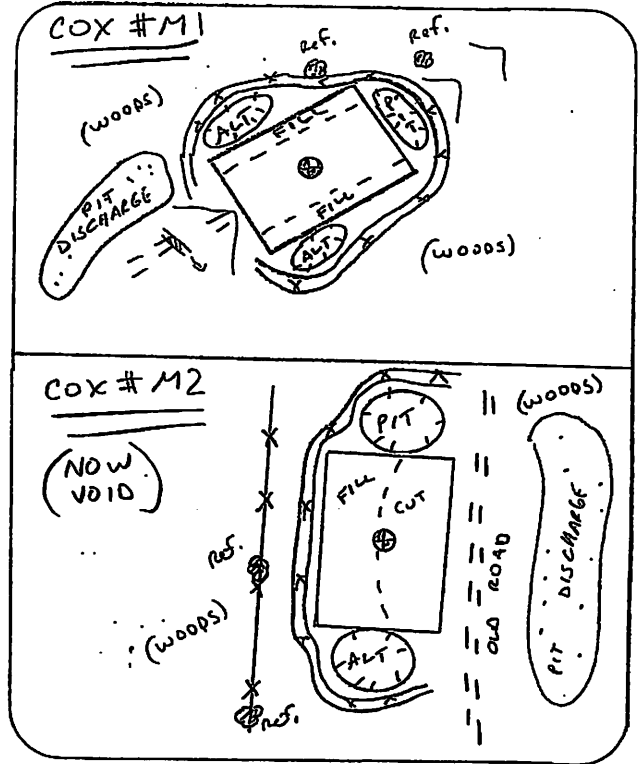
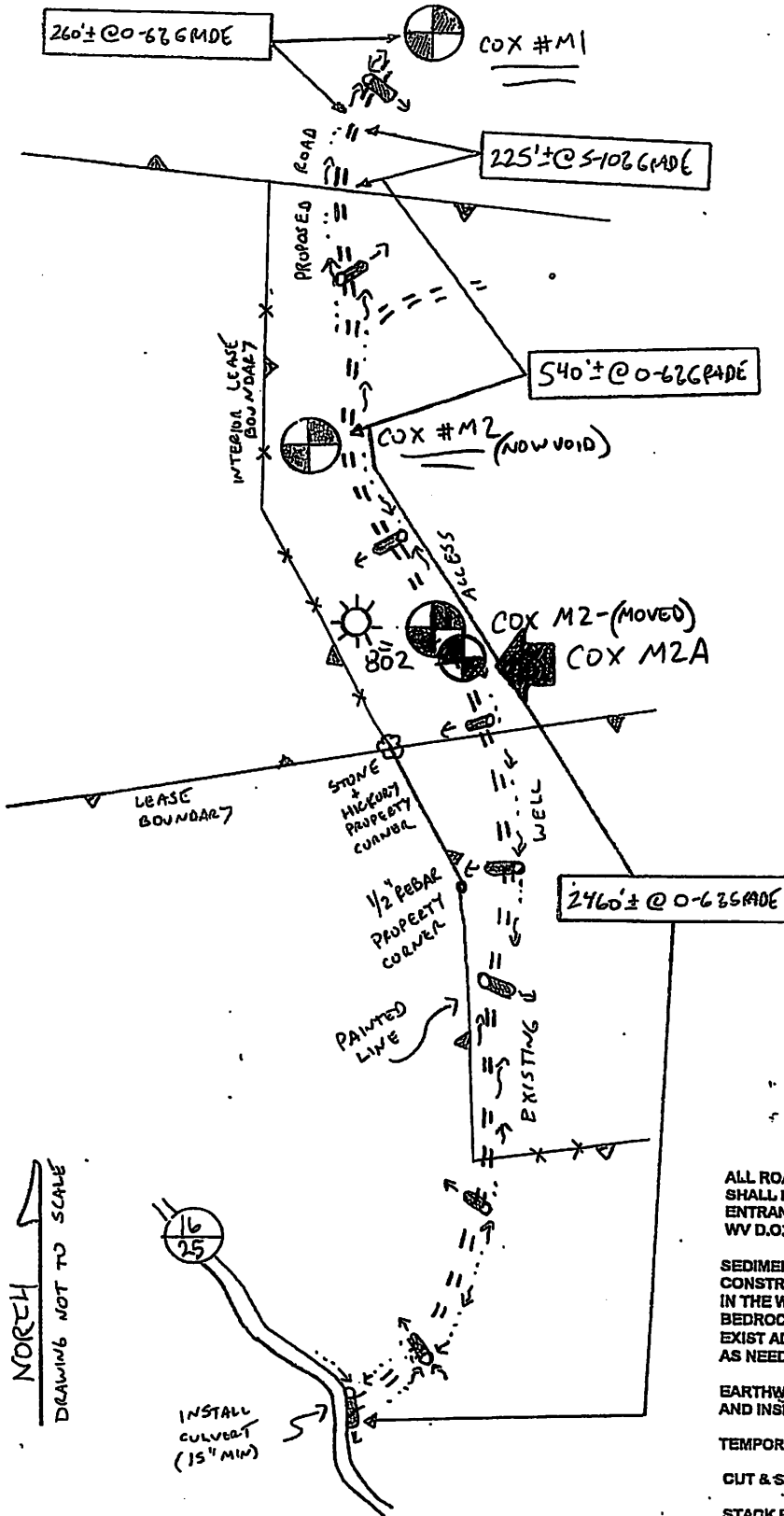
Title: oil & gas inspector

Date: 8-23-13

Field Reviewed?  Yes  No

**Received**  
AUG 26 2013  
Office of Oil and Gas  
WV Dept. of Environmental Protection

# Cox Lease



= CULVERT TO BE INSTALLED AT A 12" MINIMUM, UNLESS NOTED OTHERWISE.

SEE ATTACHED SHEET FOR  
DETAIL SKETCH OF COX M2 (MOVED)  
AND COX M2A

*guel*

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. REGULATIONS. 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 (ROOTS, LOGS 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.

CUT & STACK ALL MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

**Recorded**  
2.6 2008  
AUG 26 2008

Office of Oil and Gas  
Office of Environmental Protection

**SLS** SMITH LAND SURVEYING, INC.  
P.O. BOX 150, GLENVILLE, WV 26031

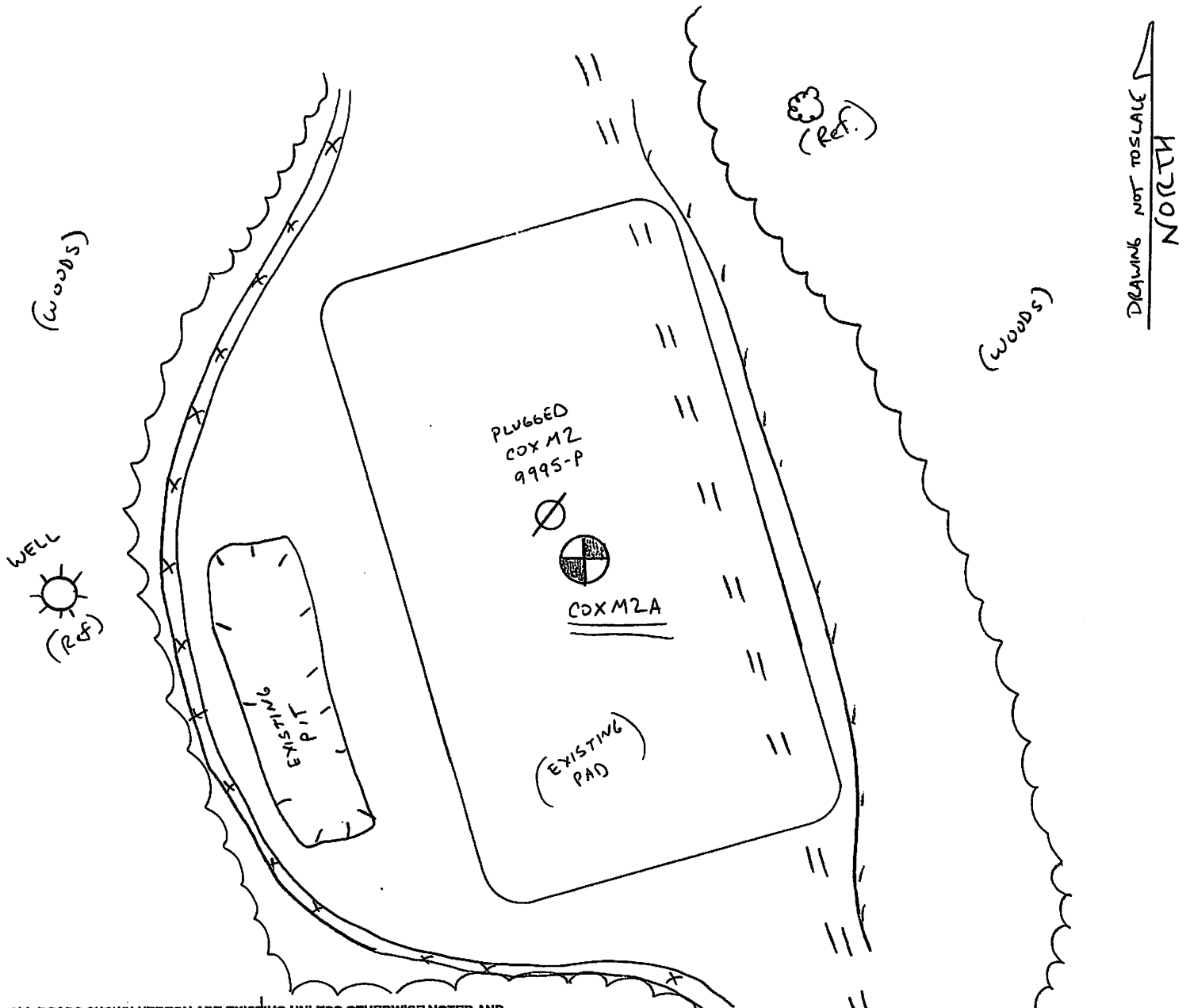
Phone (304) 462-5634 Fax 462-5656 email: sls@rtol.net  
REVISED BY C.P.M. DATE 12/22/11 01/15/13  
DRAWN BY C.P.M. DATE 4/11/10 FILE NO. 7398

NORTH  
DRAWING NOT TO SCALE

# COX LEASE WELL NO. M2A

Form WW-9

page 6 of 9



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. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

TO  
CO. RT.  
16/25

SEE ATTACHED  
REC PLAN  
INFO TO CO. RT.  
**Received**  
16/25

*and* AUG 26 2013  
West Virginia Department of Environmental Protection

**SLS** SMITH LAND SURVEYING, INC.

P.O. BOX 150 GLENVILLE, WV. 26351

Phone: (304) 462-5634 Fax: 462-5656 email: [sls@slssurveyors.com](mailto:sls@slssurveyors.com)

DRAWN BY C.P.M. DATE 8/15/13 FILE NO. 7393







# COX LEASE 25 of 132 ACRES± WELL NO. M2A

LATITUDE 39°02'30"

LONGITUDE 81°02'30"



**COX M2A WELL TIES**

LINE	BEARING	DISTANCE
L1	N 67°05' W	347.67'
L2	S 80°32' W	185.70'
L3	S 13°12' W	287.17'

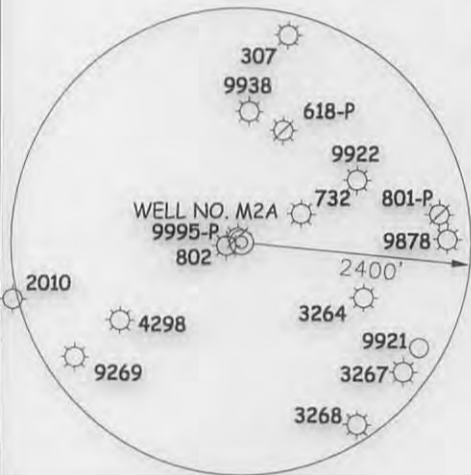
**WELL NO. M2A STATE PLANE COORDINATES (NAD 27)**

(N) 196,677  
(E) 1,560,725

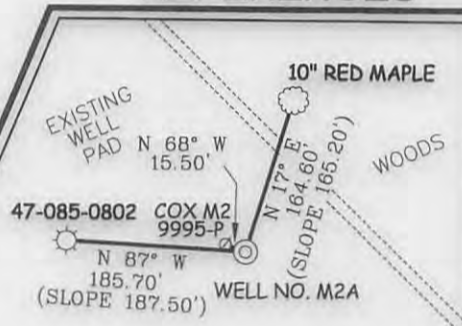
WELL NO. M2A LAT/LONG COORDINATES(NAD27)	WELL NO. M2A UTM COORDINATES(NAD 83)
(N) 39°01'46.6" (W) 81°02'46.7"	(N) 4,320,073 (E) 496,006

**NOTES ON SURVEY**

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 08-13-13.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 05/09/1940 AS PREPARED BY B.F. RINEHART FOR A.P.I. NO. 47-085-0802.
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).



**REFERENCES**



WAIVER TO OBTAINED REGARDING BEING LESS THAN 400' FROM WELL 47-085-0802.  
1" = 200'



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 AUGUST 15, 20 13  
OPERATORS WELL NO. COX M2A  
API WELL NO. 47 - 085 - 10061  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7398PM2A (475-43)  
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  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,148' WATERSHED LEATHERBARK CREEK  
DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE 7.5'

SURFACE OWNER DENNIS N. & DEBRA L. DIFILIPPO ACREAGE 117.72±  
ROYALTY OWNER W.E. COX, ET AL LEASE ACREAGE 25 of 132±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION RHINESTREET  
ESTIMATED DEPTH 6,000'

WELL OPERATOR MURVIN & MEIER OIL COMPANY 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