



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

October 21, 2013

WELL WORK PERMIT

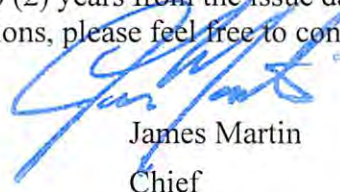
Vertical Well

This permit, API Well Number: 47-1706394, 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: BALLOUZ NO. 4
Farm Name: ROSS, GEORGE A.

API Well Number: 47-1706394

Permit Type: Vertical Well

Date Issued: 10/21/2013

Promoting a healthy environment.

10/25/2013

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.

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

- 1) Well Operator Murvin & Meier Oil Co. 307980 Doddridge N. Milton N. Milton 7.5'
Operator ID County District Quadrangle
- 2) Operator's Well Number: Ballonx #4 3) Elevation: 1222'
- 4) Well Type: (a) Oil or Gas
 (b) If Gas: Production / Underground Storage _____
 Deep _____ / Shallow
- 5) Proposed Target Formation(s): Maxon thru Weir Proposed Target Depth: 2600'
 6) Proposed Total Depth: 2600 Feet Formation at Proposed Total Depth: Weir
 7) Approximate fresh water strata depths: 50', 85', 145'
 8) Approximate salt water depths: 1600'
 9) Approximate coal seam depths: 346'-349', 900'-905'
 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

DCW
1-24-2013

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						
Fresh Water	11 3/4"	A-500	32	300	300	CTS
Coal						
Intermediate	8 5/8"	A-500	20	1200	1200	CTS
Production	4 1/2"	WT65Y	9.5	2550	2550	120
Tubing						
Liners						

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OCT 01 2013

Packers: Kind
 Sizes
 Depths Set

WV Department of
 Environmental Protection

1706394

WW-2A
(Rev. 6-07)

CK4181
65000

1.) Date: Sept. 27 2013
2.) Operator's Well Number Ballouz #4
State County Permit
3.) API Well No.: 47- 017 - 06394

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 George A. Ross ✓
Address Rt 1 Box 86
New Milton, WV 26411
(b) Name _____
Address _____
(c) Name "See Attached" ✓
Address _____
6) Inspector Mr. Douglas Newlon
Address 4060 Dutchman Road
Martinsburg, WV 26148
Telephone 304-932-8049
5) (a) Coal Operator Name _____
Address _____
(b) Coal Owner(s) with Declaration Name _____
Address _____
(c) Coal Lessee with Declaration Name _____
Address _____

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 18 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 Gay W. Hill
Vice President
Address PO Box 396
Olney Illinois 62450
Telephone 618-595-4405
Subscribed and sworn before me this 25 day of July, 2013

Barbara A. Hill Notary Public

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Office of Oil and Gas

My Commission Expires _____

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 deprivacyofficer@wv.gov

OCT 01 2013
Department of
Environmental Protection
10/25/2013

✓
SCHULTE JOSEPH ISADORE
4778 VADIS RD
ALUM BRIDGE WV 26321

✓
WEEKLEY CONNIE JO
ROUTE 1 BOX 4A
NEW MILTON WV 26411

✓
NICHOLSON ROSELENE
ROAD #1 10096 JOHNFORD SW
BEACH CITY OH 44608

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Environmental Protection
10/25/2013

**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
Helen S. Way	Clarence W. Mutschelknaus	1/8 th	193/99
Burt Barankovich Oil & Mineral Tr	Clarence W. Mutschelknaus	1/8 th	192/102
Clara Elizabeth Way	Clarence W. Mutschelknaus	1/8 th	193/97
Ronald Ross	Clarence W. Mutschelknaus	1/8 th	195/502
Thomas G. Ross and Barbara Ross	Clarence W. Mutschelknaus	1/8 th	193/83
Betsy R. and Rodney L. Tusing	Clarence W. Mutschelknaus	1/8 th	193/95
Margaret T. Ross	Clarence W. Mutschelknaus	1/8 th	192/356
J. Ross and Betty J. Ross	Clarence W. Mutschelknaus	1/8 th	193/81
Clarence W. and Mary Mutschelknaus	Clarence W. Mutschelknaus	1/8 th	199/422
Clarence W. Mutschelknaus	Murvin & Meier Oil Co. (Assignment)	1/8 th	214/681

**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.

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Office of Oil and Gas

Well Operator: Murvin & Meier Oil Co. OCT 01 2013
 By: Gayle S. Hill
 Its: Vice President WV Department of

Environmental Protection

10/25/2013

1706394

WW-2B1
(5-12)

Well No. Ballouz #4

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 Reliance Labs
Sampling Contractor Smith Land Surveying, Inc. - Environmental Division

Well Operator Murvin & Meier Oil Company
Address P.O. Box 396
Olney, IL 62450
Telephone 330-264-8847

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 1,000 feet of the proposed site. Tests will be offered and samples taken as required.

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Environmental Protection
10/25/2013



SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

OPERATOR: Murvin & Meier Oil Company

LEASE NAME AND NUMBER: Ballouz # 4

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: George A. Ross

Address: Route 1 Box 86, New Milton, WV. 26411 Letter/Notice Date: _____

Comments: Par # 7, Possible springs on this site.

Owner/Occupant: _____

Address: _____ Letter/Notice Date: _____

Comments: _____

Owner/Occupant: _____

Address: _____ Letter/Notice Date: _____

Comments: _____

Owner/Occupant: _____

Address: _____ Letter/Notice Date: _____

Comments: _____

Owner/Occupant: _____

Address: _____ Letter/Notice Date: _____

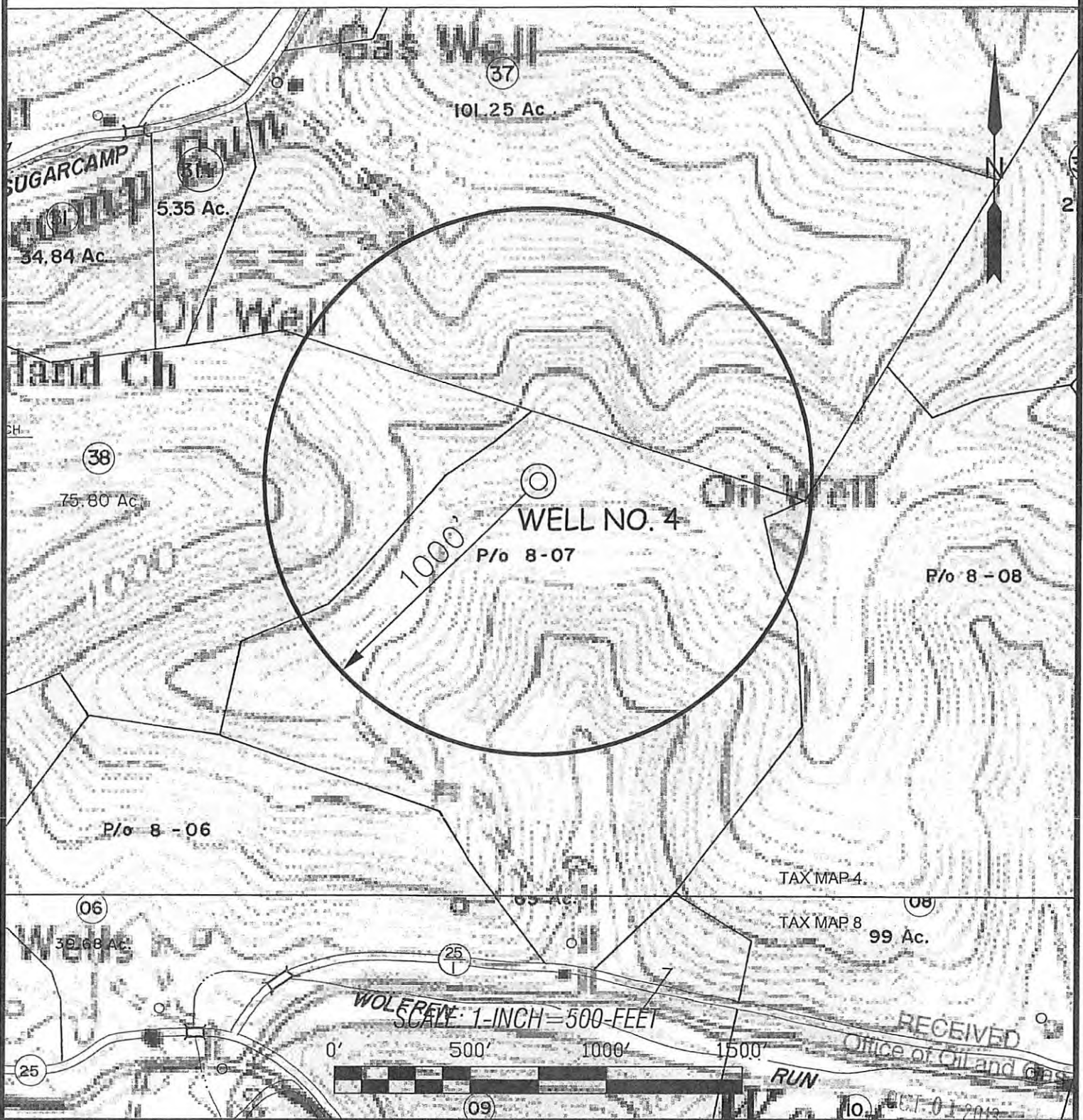
Comments: _____

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Environmental Protection

BALLOUZ LEASE WELL NO. 4



SLS
 SMITH LAND SURVEYING, INC.
 P.O. BOX 150 GLENVILLE, WV, 26351
 PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: sls@slssurveys.com

DRAWN BY C.J.P.	FILE NO. 5433	DATE 09/09/10	CADD FILE: 5433WS4.DWG
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TOPO SECTION OF:
 NEW MILTON, WV 7.5' QUAD.

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
NEW MILTON	DODDRIDGE	8-07

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

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10/25/2013

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) Wolfpen Run Quadrangle New Milton 7.5'

Elevation 1222' County Doddridge District New Milton

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 Frac water

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

DCN
1-24-2013

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.

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Office of Oil and Gas

Company Official Signature Gary L. Hill OCT 01 2013

Company Official (Typed Name) GARY L. HILL

Company Official Title Vice President

Subscribed and sworn before me this 25 day of July

Barbara A Hill



My commission expires _____

10/25/2013

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 1 +/- Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

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

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre
KY-31	40
ALSIKE CLOVER	5
ANNUAL RYE	15

Seed Type	Area II lbs/acre
ORCHARD GRASS	15
ALSIKE CLOVER	5

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

Photocopied section of involved 7.5' topographic sheet.

Received
 OCT - 1 2013
 Office of Oil and Gas
 WV Dept. of Environmental Protection

Plan Approved by: Douglas Newlon

Title: Oil & Gas Inspector

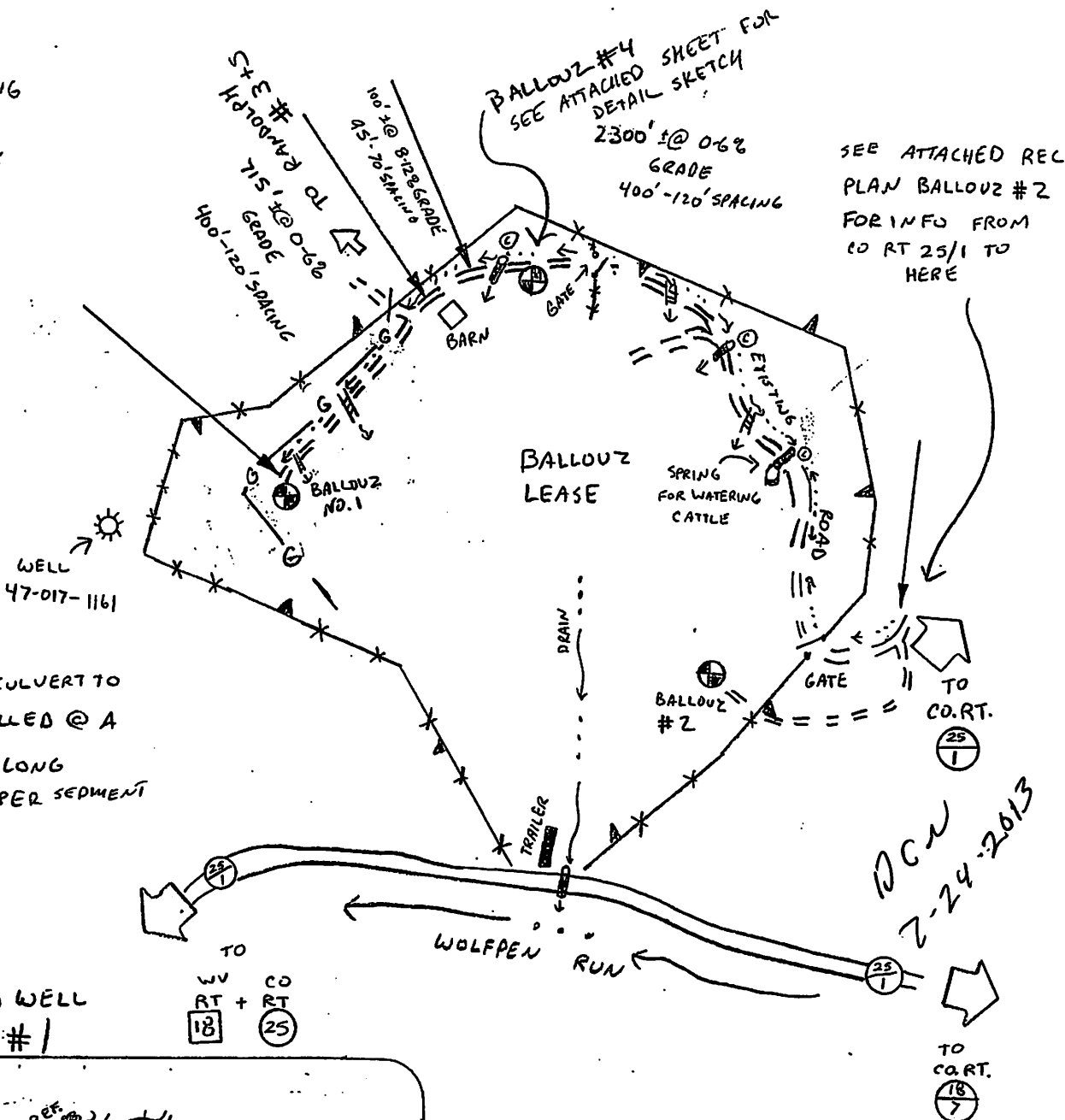
Date: 7-24-2013

Field Reviewed? Yes No

BALLOUZ LEASE WELL NO. 1

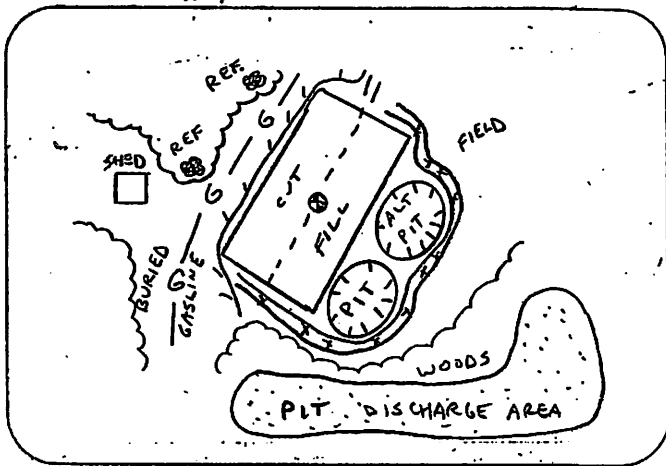
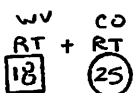


DRAWING
NOT
TO
SCALE



ⓐ DENOTES CULVERT TO BE INSTALLED @ A 12" MIN. ALONG WITH PROPER SEDIMENT CONTROL

PROPOSED WELL
BALLOUZ #1



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 (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.

CUT & STACK ALL TIMBER 6" AND ABOVE.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

RECEIVED

Office of Oil and Gas

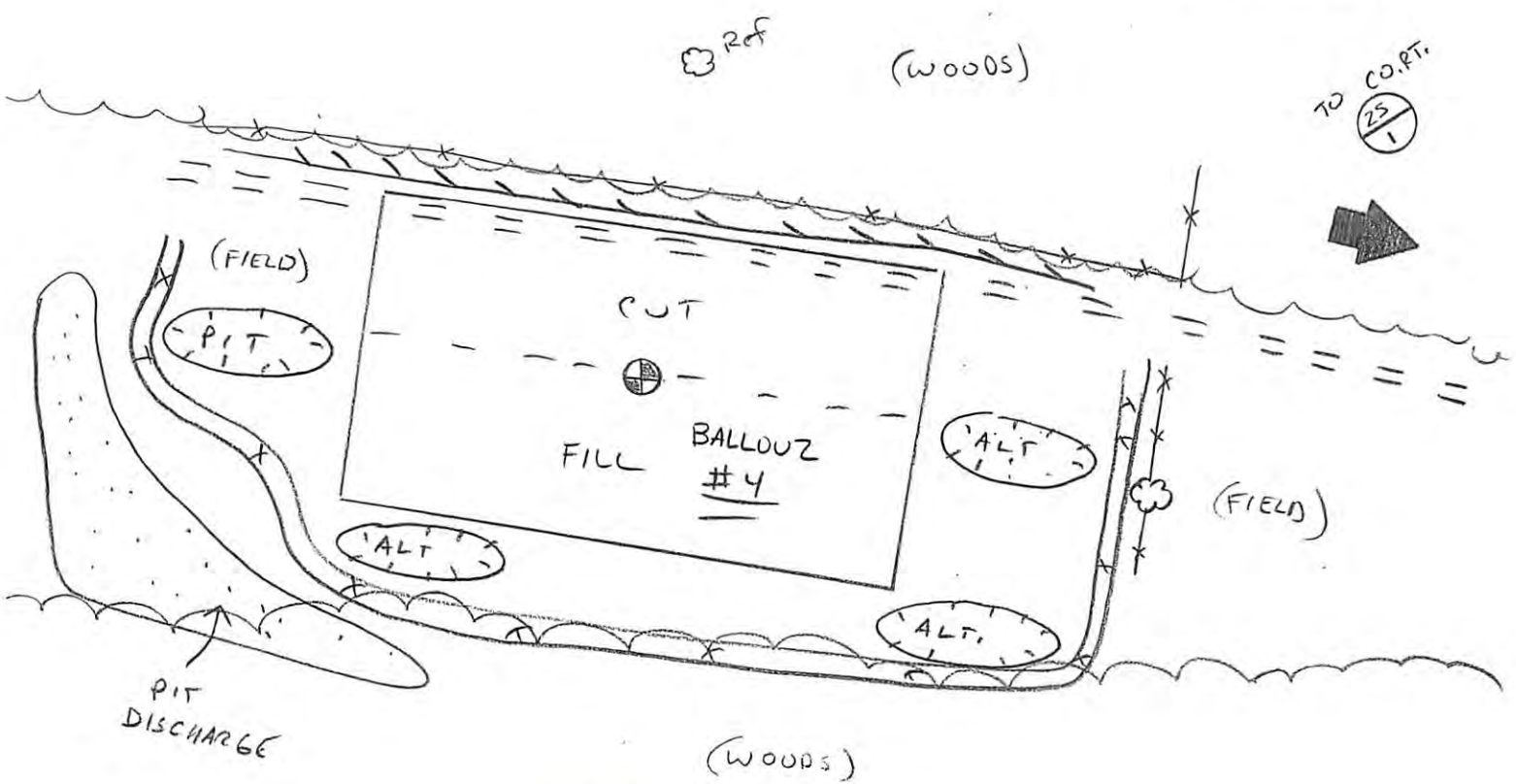
OCT 01 2013

SLS SMITH LAND SURVEYING, INC.
P.O. BOX 150, GLENVILLE, WV 26351

WV Department of Environmental Protection
Phone (304) 462-5656 or 462-5634
REVISED BY CPM : 12/22/05 9/4/10 7/11/13
DRAWN BY CPM DATE 2/11/04 FILE NO. 5433
10/25/2013

Ballouz Lease Well No. 4

SEE ATTACHED REL PLAN
BALLOUZ #1 FOR INFO
TO CO. RT. 25/1.



NO PIT ON FILL
gwm

*DCW
7-24-2013*

*NORTH
DRAWING NOT TO SCALE*

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.

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Office of Oil and Gas

OCT 01 2013

WV Department of
Environmental Protection

Phone (304) 462-5634 Fax 462-5656 email: sls@doep.wv.gov

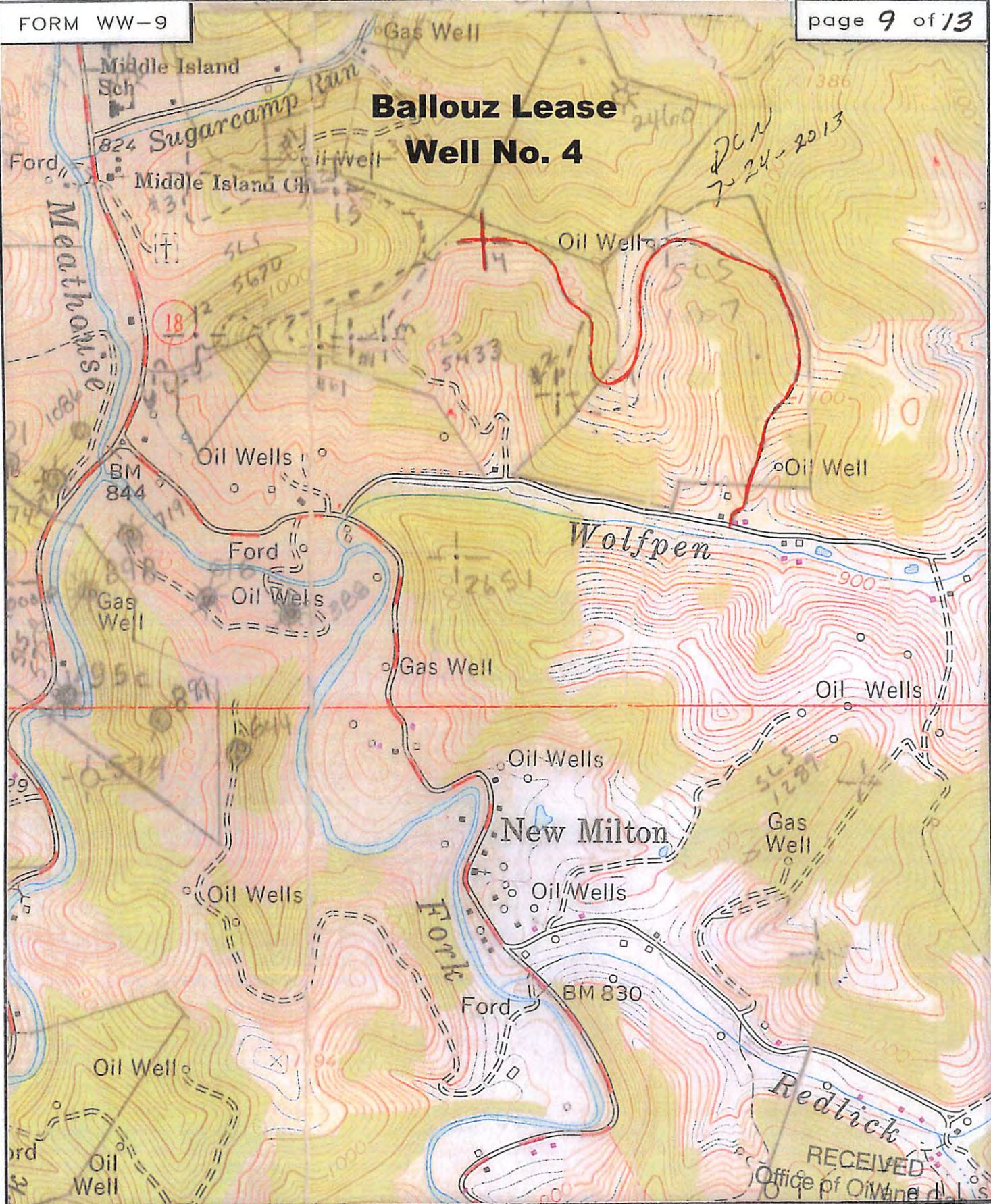
SLS SMITH LAND SURVEYING, INC.
 P.O. BOX 150, GLENNVILLE, WV 26351

DRAWN BY *C.P.M.* DATE *9/6/10* FILE NO. *5433*
7/11/13

10/25/2013

Ballouz Lease Well No. 4

*DCN
7-24-2013*



SMITH LAND SURVEYING
P.O. BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF

NEW MILTON *OCT 01 2013*

FILE NO. 5433

DATE 8/16/10 *WV Department of Environmental Protection*
7/11/13

10/25/2013

