



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

July 02, 2014

WELL WORK PERMIT

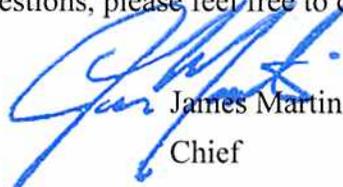
Vertical Well

This permit, API Well Number: 47-8510128, 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: K/S CUNNINGHAM #1
Farm Name: LENHART, SANDRA
API Well Number: 47-8510128
Permit Type: Vertical Well
Date Issued: 07/02/2014

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

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 with 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.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

8510128

June 30, 2014

WVDEP Office Oil & Gas
601 57th St SE
Charleston WV 25304
Att: Jeff McLaughlin

Re: Well API # 47-085-10128 - K/S Cunningham #1

The issue has been resolved provided that they go by the new map dated 5/29/14, except that the road will stay on Kirby's property until it reaches the hay field as I was told by Bob Limrick.

Thank you



Sandra Lenhart
Tel# 1-304-864-3834

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May 27, 2014

To: Chief, Office of Oil and Gas
Department of Environmental Protection

I am filing a complaint concerning where the oil company is proposing to put a road to the well site. According to the map which I have enclosed, the road will be going through my front yard and through the middle of my only hay field which will completely ruin it.

Thank you



Sandra K Lenhart

P.O Box 169

Arthurdale WV 26520

Tel# 304-864-3834

Received

MAY 28 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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 Martin & Meier Oil Co 3 612
Operator ID 307980 County Ritchie District Murphy Quadrangle Smithville 7.5'
- 2) Operator's Well Number: K/S Cunningham #1 3) Elevation: 1108
- 4) Well Type: (a) Oil or Gas
 (b) If Gas: Production / Underground Storage _____
 Deep _____ / Shallow
- 5) Proposed Target Formation(s): Warren thru Rhinestreet Proposed Target Depth: 6350
 6) Proposed Total Depth: 6350 Feet Formation at Proposed Total Depth: Shale
 7) Approximate fresh water strata depths: 70' (Permit #9815) 15' Permit #10050
 8) Approximate salt water depths: 2000' (Permit #10050)
- 9) Approximate coal seam depths: None
- 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'	
Coal						
Intermediate	8 5/8"	A-500	20/23	1425	1425	
Production	4 1/2"	WT-65	10.5	6350	6350	
Tubing						
Liners						

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CTS
WV Department of Environmental Protection
GDA

Packers: Kind _____
 Sizes _____
 Depths Set _____

DM
4-21-14

WW-2A
(Rev. 6-07)

1.) Date: 5/7/2014
2.) Operator's Well Number K/S Cunningham #1
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

3244600
6500

4) Surface Owner(s) to be served: 5) (a) Coal Operator
(a) Name Sandra K. Lenhart ✓ Name _____
Address PO Box 169 Address _____
Arthurdale, WV 26520
(b) Name Margaret Kirby et al ✓ (b) Coal Owner(s) with Declaration
Address 8945 N. Calhoun Highway Name _____
Big Springs, WV 26137 Address _____
(c) Name _____ Name _____
Address _____ Address _____
6) Inspector Mr. David Cowan (c) Coal Lessee with Declaration
Address 1597 Devil Hole Road Name _____
Harrisville WV 26362-7543 Address _____
Telephone 304-628-4016

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

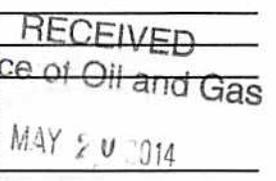
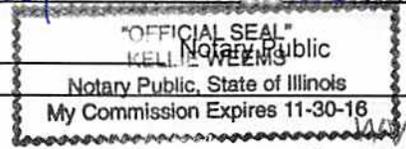
OR
X Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 12 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 Meigs Oil Company
By: Kate M. Blackford
Its: Kate M. Blackford, Exec. Vice-Pres.
Address PO Box 396
Olney Illinois 62450
Telephone 618-395-4405

Subscribed and sworn before me this 8th day of May, 2014 Office of Oil and Gas

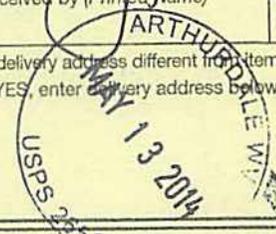
Kellie Weems
My Commission Expires 11/30/16



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

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>Sandra K. Lenhart</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>
<p>1. Article Addressed to:</p> <p><i>Ms. Sandra K. Lenhart P O Box 149 Arthur Dale, WV 26520</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 <i>20</i></p> <p><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 5219</p>
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>	



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>Brenda Radabaugh</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Brenda Radabaugh</i> C. Date of Delivery <i>5-12-14</i></p>
<p>1. Article Addressed to:</p> <p><i>Ms. Margaret Kirby et al 8945 N. Calhoun Highway Big Springs, WV 26137</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</p> <p><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 5202</p>
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>	

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U 2014

Director of
 Administration

Operator's Well Number K/S Cunningham #1

**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>V. A. Cunningham et al</i>	<i>Goodland Drilling Co.</i>	<i>1/8</i>	<i>94/511</i>
<i>Goodland Drilling Co. et al</i>	<i>Kiedarsch & Summers</i>		<i>222/751</i>
<i>Kiedarsch & Summers</i>	<i>Murvin & Meier Oil Co.</i>		<i>To Be Recorded</i> <i>271/628</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

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WV Department 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: *Murvin and Meier Oil Co.*
 By: *Kate M. Blackford*
 Its: *Kate M. Blackford, Exec. Vice-Pres.*

McLaughlin, Jeffrey W

From: Kate M. Blackford <katieb@murvinandmeier.com>
Sent: Wednesday, June 25, 2014 3:49 PM
To: McLaughlin, Jeffrey W
Subject: K/S Cunningham #1

Hi Jeff,

Sorry I missed your call.

The Assignment Agreement by and between Kiedaisch and Summers, Assignor, and Murvin & Meier Oil Co., Assignee, has been recorded in Book 271 at page 628 in the office of the Ritchie County Clerk.

If you do need a copy, just let me know.

thanks,
Kate

Kate M. Blackford
Murvin & Meier Oil Co.
1102 North East Street
P. O. Box 396
Olney, Illinois 62450

Phone: 618-395-4405 ext 1
Fax: 618-395-3207

WW-2B1
(5-12)

Well No. K/S Cunningham #1

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 Co.
Address P.O. Box 396
Olney, IL 62450
Telephone 618-395-4405

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.

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NOTE: There appears to be 4 +/- potable water sources within 1,500', therefore tests will be offered and samples taken as required.

MAY 10 2014
Department of
Environmental Protection

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: Murvin & Meier Oil Company
LEASE NAME AND NUMBER: K-S Cunningham #1

COMMENTS

The initial field and/or 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 2000' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

Site: 1 Spacing _____ Owner/Occupant: Anton Lushenko & Elaine Kennedy
 Address: 831 Collins Ave. Apt 1 Pittsburgh, PA 15206 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcels 20 and 28

Site: 2 Spacing _____ Owner/Occupant: Del Land LLC & Jeremy Dudrow
 Address: 152 Caesar Rd. Harpers Ferry, WV 25425 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcels 28.1 and 31

Site: 3 Spacing _____ Owner/Occupant: Norman Thompson
 Address: 160 Oak St. Washington, WV 26181 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcels 34 and 35

Site: *4 Spacing 2945' Owner/Occupant: Tony Burns
 Address: 50 Woodland Dr. Madison, WV 25130 Ph: _____
 Field Contact Date: 6/8/14 Sampled: Yes Date Sampled: 6/8/14 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcels 22 and 30
Northing: 39° 01' 32"
Easting: 81° 03' 25"

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JUN 25 2014

Site: *5 Spacing 1222' Owner/Occupant: Donnie & Holly Millican
 Address: 3192 Trotter Rd. Norton, OH 44203 Ph: (330)-592-5762
 Field Contact Date: 6/8/14 Sampled: Yes Date Sampled: 6/8/14 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 19
Northing: 39° 02' 04"
Easting: 81° 03' 50"

Site: *6 Spacing 830' Owner/Occupant: Donnie & Holly Millican
 Address: 3192 Trotter Rd. Norton, OH 44203 Ph: (330)-592-5762
 Field Contact Date: 6/8/14 Sampled: Yes Date Sampled: 6/8/14 Source: Spring
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 19
Northing: 39° 02' 02"
Easting: 81° 03' 46"

Site: 7 Spacing _____ Owner/Occupant: Clint Litton & C. A. Lewis Litton Gas Company
 Address: 1215 Quarrier St. Charleston, WV 26301 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 20.1

Site: 8 Spacing _____ Owner/Occupant: Sandra K Lenhart
 Address: P.O. Box 169 U-2 Rd. Arthurdale, WV 26520 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 21.1

Site: *9 Spacing 1975' Owner/Occupant: Margaret Kirby
 Address: 8945 N Calhoun Hwy Big Springs, WV 26137 Ph: (304)-477-3241
 Field Contact Date: 6/1/14 Sampled: Yes Date Sampled: 6/1/14 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 23
Northing: 39° 02' 08"
Easting: 81° 03' 46"

Site: 10 Spacing _____ Owner/Occupant: I.L. Morris
 Address: P.O. Box 397 Glenville, WV 26351 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who I.L. Morris Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 4
Letter of refusal signed 5/22/14

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JUN 25 2014

WV Department of
Environmental Protection

Site: 11 Spacing _____ Owner/Occupant: Tony M & Robin E Butts
 Address: 307 Wishbone Cir. Hedgesville, WV 25427 Ph: _____
 Field Contact Date: N/A Sampled: _____ Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 2

Site: 12 Spacing _____ Owner/Occupant: Hearwood Forestland Fund II Limited Partnership
 Address: 3001 Emerson Ave. Parkersburg, WV 26104 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 3
Letter of refusal signed 5/22/14

Site: 13 Spacing _____ Owner/Occupant: Robert Huff and Micheal Buehner
 Address: 16160 Boston Rd. Strongsville, OH 44136 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 5/21/14
 Comments: Tax Map 44, Parcel 4

Site: 14 Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Sampled: _____ Date Sampled: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

Site: 15 Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Sampled: _____ Date Sampled: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

Site: 16 Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Sampled: _____ Date Sampled: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____

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Office of Oil and Gas

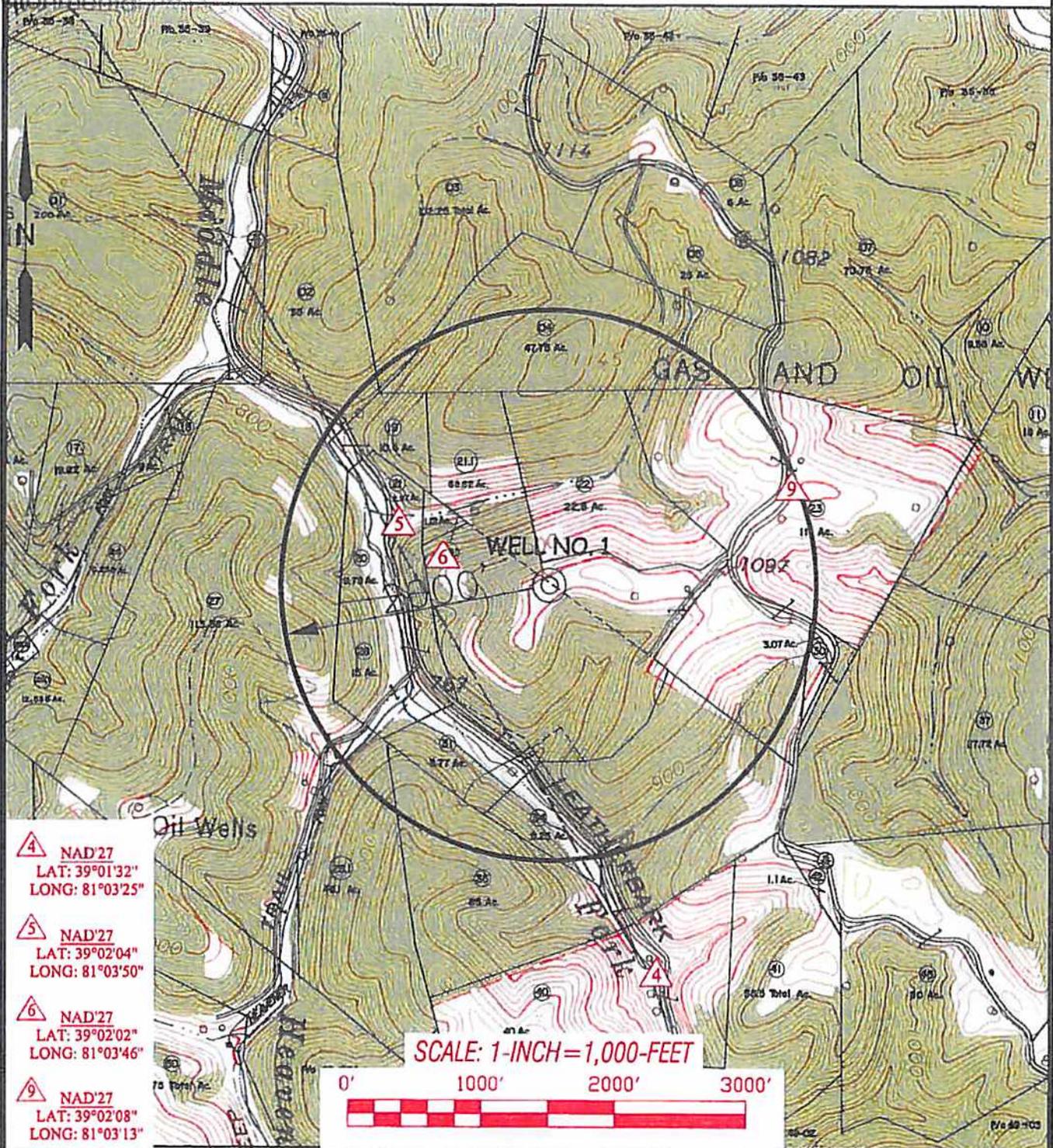
WATER SAMPLES

JUN 25 2014

K/S CUNNINGHAM LEASE WELL NO. 1

page of

WV Department of
Environmental Protection



- 4 NAD'27
LAT: 39°01'32"
LONG: 81°03'25"
- 5 NAD'27
LAT: 39°02'04"
LONG: 81°03'50"
- 6 NAD'27
LAT: 39°02'02"
LONG: 81°03'46"
- 9 NAD'27
LAT: 39°02'08"
LONG: 81°03'13"

SCALE: 1-INCH=1,000-FEET

Professional Energy Consultants
A DIVISION OF SMITHLAND SERVICES

BUCKETING PROJECT MGMT. ENVIRONMENTAL

1000 1st St. SW
Birmingham, AL 35203
(205) 942-8844
www.slsinc.com

3000 1st St. SW
Birmingham, AL 35207
(205) 942-8844

DRAWN BY: K.D.W. FILE NO: 8203 DATE: 06/20/14 CADD FILE: 8203WV1.DWG

TOPO SECTION OF:
SMITHVILLE, WV 7.5' QUAD.

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
MURPHY	RITCHIE	44-21.1

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

WW-9
(5/13)

Page 5 of 12
API Number 47 - 085 -
Operator's Well No. K/S Cunningham 1

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) Middle Fork of Leather Bark Creek Quadrangle Smithville 7.5'
Elevation 1108 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 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 _____)

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.

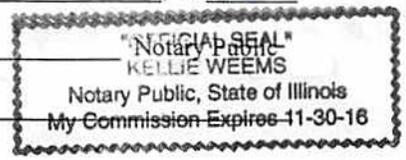
Company Official Signature Kate M. Blackford
Company Official (Typed Name) Kate M. Blackford
Company Official Title Exec. Vice-President

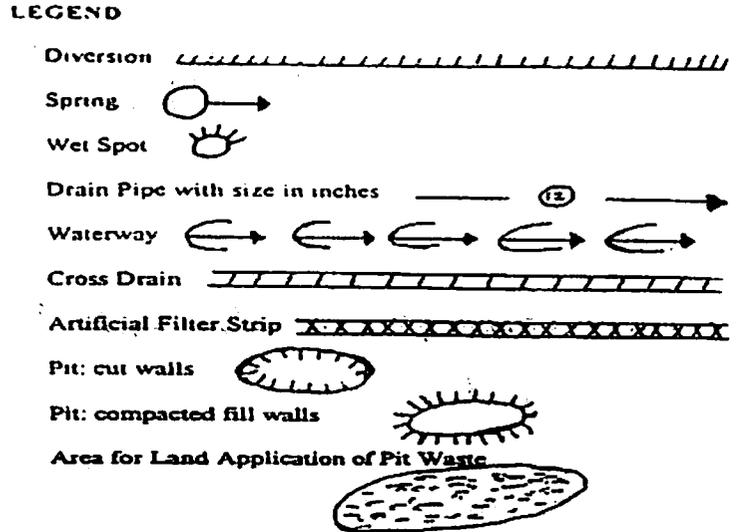
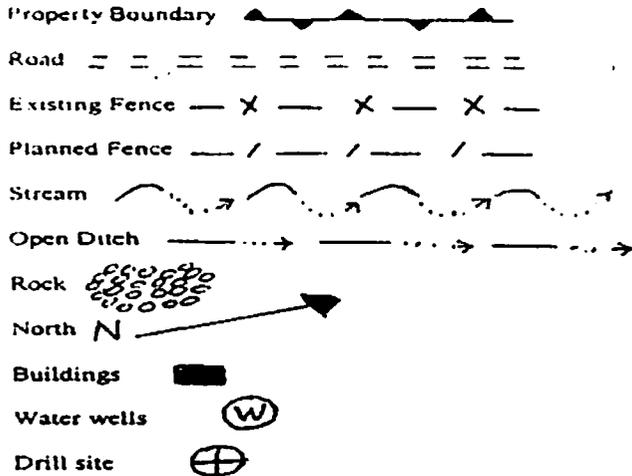
RECEIVED
Office of Oil and Gas
MAY 20 2014
WV Department of Environmental Protection

Subscribed and sworn before me this 8th day of May, 20 14

Kellie Weems

My commission expires 11/30/16





Proposed Revegetation Treatment: Acres Disturbed 1.9[±] Prevegetation pH 6.0

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/straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II 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.

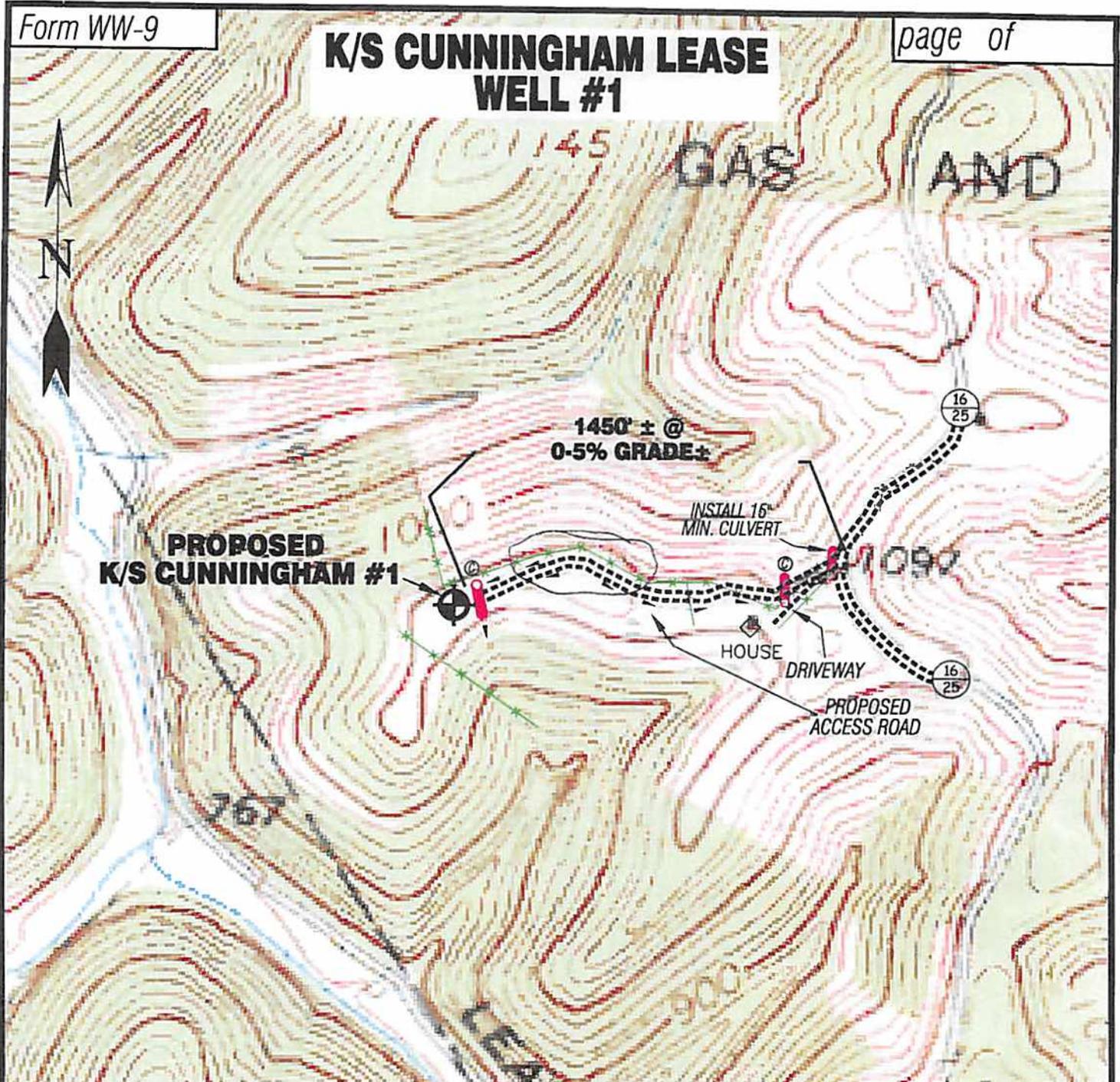
Plan Approved by: David W. Cunningham

Comments: prepare & mulch all out area maintain all pH 5 during operation

Title: air/gas inspector Date: 4-21-14

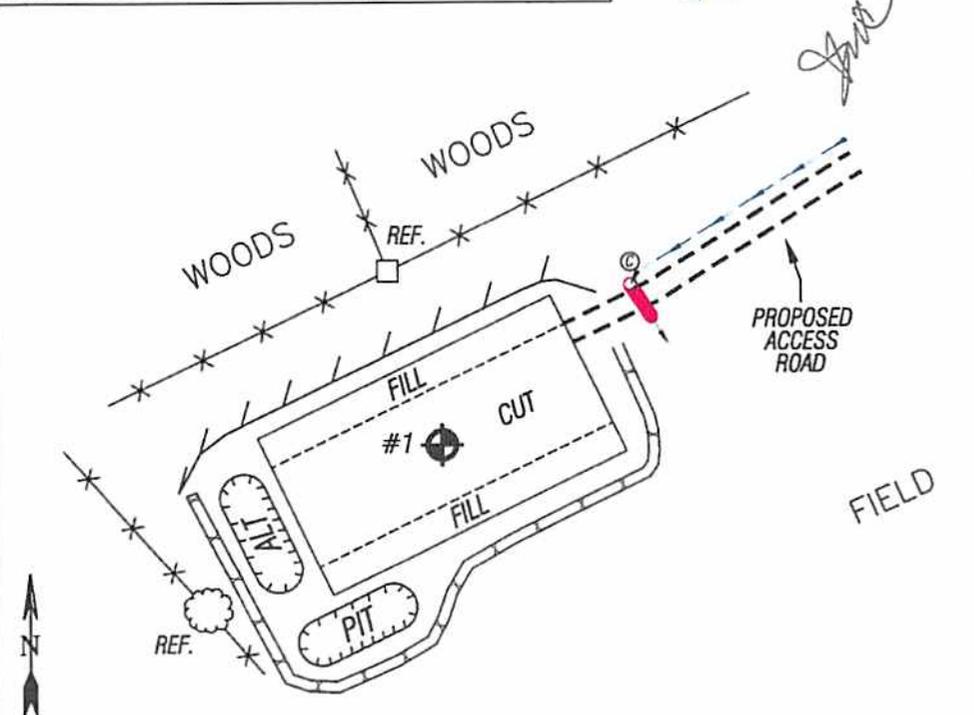
Field Reviewed? Yes No

K/S CUNNINGHAM LEASE WELL #1



Detail Sketch for Proposed Well K/S CUNNINGHAM #1

6/25/2014



SCALE: 1" = 500'



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.

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 12" MIN UNLESS OTHERWISE NOTED
- PROPOSED STREAM CROSSING
- APPROXIMATE LIMITS OF DISTURBANCE

Professional Energy Consultants
A DIVISION OF SMITHLAND SURVEYING, INC.

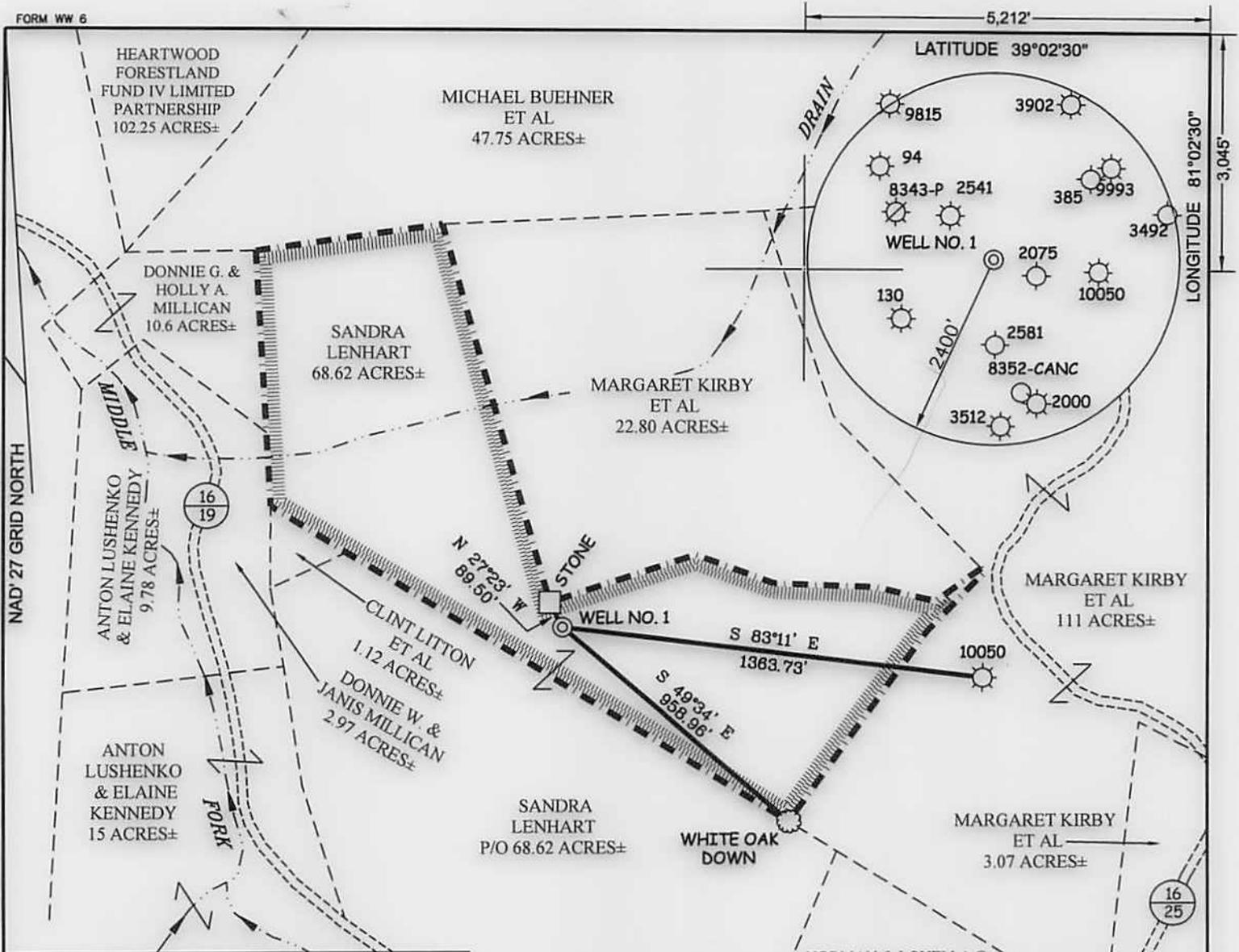
SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 482-5634
WWW.SLSURVEYS.COM

DRAWN BY: C.P.M. FILE NO.: 8203 DATE: 05-29-14 CADD FILE: 8203REC1R.dwg

Not To Scale

TOPO SECTION OF SMITHVILLE 7.5' USGS TOPO QUADRANGLE



**MURVIN & MEIER OIL CO.
K/S CUNNINGHAM LEASE
30 ACRES±
WELL NO. 1**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 198,090 E. 1,556,855
 NAD'27 GEO. LAT-(N) 39.03331 LONG-(W) 81.06001
 NAD'83 UTM (M) N. 4,320,484 E. 494,820

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 03-19-14.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM WELL PLAT 47-085-2075-P.
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



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 31, 20 14
 REVISED _____, 20 ____
 OPERATORS WELL NO. K/S CUNNINGHAM #1
 API WELL NO. 47 - 85 - 10/28
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8203P1 (497-39)
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS SUBMETER MAPPING GRADE SCALE 1" = 500'

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1,108' WATERSHED MIDDLE FORK OF LEATHER BARK CREEK
 DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE 7.5'

SURFACE OWNER SANDRA LENHART ACREAGE 68.62±
 ROYALTY OWNER KIEDAISCH & SUMMERS ETAL ACREAGE 30±
 PROPOSED WORK: LEASE NO. _____

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 6,400'

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

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 16, 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: K/S Cunningham #1, Ritchie County, West Virginia

Dear Justin:

Please find enclosed a New Well Application for the K/S Cunningham #1, 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

RECEIVED
Office of Oil and Gas

MAY 20 2014

WV Department of
Environmental Protection

Enclosures