



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

September 08, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8510246, 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: J. E. GUM 3
Farm Name: YODER, NOAH & EMMA
API Well Number: 47-8510246
Permit Type: Vertical Well
Date Issued: 09/08/2015

Promoting a healthy environment.

09/11/2015

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.

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: J.E. Gum #3 3) Elevation: 1058'
- 4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow
- 5) Proposed Target Formation(s): Injun/Berea Proposed Target Depth: 2525'
6) Proposed Total Depth: 2525' Feet Formation at Proposed Total Depth: Shale
7) Approximate fresh water strata depths: 109' (Permit #9867)
8) Approximate salt water depths: 192.2' damp (Permit #9874)
9) Approximate coal seam depths: None (Permits 9867 and 9874)
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"			20'	20'	
Fresh Water	11 3/4"	A-500	32	300	300	CTS
Coal						
Intermediate	8 5/8"	A-500	20/23	1275'	1275'	CTS
Production	4 1/2"	WT65	10.5	2500	2500	120
Tubing						
Liners						

Packers: Kind
 Sizes
 Depths Set

Received
Office of Oil & Gas
AUG 19 2015

Drill
7-8-15

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Ritchie

Operator
Operator well number

Murvin & Meter Oil Co.
J. E. Gum #3

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

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

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

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON

Russell Beall by
Donna Beall - Bishop, POA Date 7/20/15
Signature
RUSSELL BEALL by
DONNA BEALL-BISHOP, POA
Print Name

FOR EXECUTION BY A CORPORATION, ETC.

Company Name _____
By _____
Its _____ Date _____
Signature _____ Date _____

OK# 34258
650.00

WW-2A
(Rev. 6-14)

1). Date: July 15, 2015
2.) Operator's Well Number J. E. Gum #3
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

4) Surface Owner(s) to be served:
(a) Name Noah Yoder & Emma Yoder ✓
Address 4208 SR 557
Millersburg OH 44654
(b) Name Dalen R. Schlabach ✓
Address 5521 Township Road 336
Millersburg OH 44654
(c) Name Russell & Marv Beall c/o ✓
Address Donna Beall Bishop. Rt 2
Box 196. Lewisburg WV 24901
6) Inspector David Cowan
Address Route 1 Box 202
Harrisville WV 26362
Telephone 304-389-3509
5) (a) Coal Operator
Name none
Address _____
(b) Coal Owner(s) with Declaration
Name none
Address _____
(c) Coal Lessee with Declaration
Name none
Address _____

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

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 ___ 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 Murvin & Meier Oil Co.
By: Katie M. Stackel
Its: Executive Vice-President
Address: P. O. Box 396
Olney IL 62450
Telephone: 618-395-4405
Email: katieb@murvinandmeier.com

Received
Office of Oil & Gas
AUG 19 2015

Subscribed and sworn before me this 15th day of July, 2015

Kellie Weems
11/30/16

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

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 depprivacyofficer@wv.gov

1). Date: July 15, 2015
2.) Operator's Well Number J. E. Gum #3
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**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Noah Yoder & Emma Yoder</u>	Name <u>none</u>
Address <u>4208 SR 557</u>	Address _____
<u>Millersburg OH 44654</u>	_____
(b) Name <u>Dalen R. Schlabach</u>	(b) Coal Owner(s) with Declaration
Address <u>5521 Township Road 336</u>	Name <u>none</u>
<u>Millersburg OH 44654</u>	Address _____
(c) Name <u>Russell & Marv Beall c/o</u>	Name _____
Address <u>Donna Beall Bishop. Rt 2</u>	Address _____
<u>Box 196. Lewisburg WV 24901</u>	_____
6) Inspector <u>David Cowan</u>	(c) Coal Lessee with Declaration
Address <u>Route 1 Box 202</u>	Name <u>none</u>
<u>Harrisville WV 26362</u>	Address _____
Telephone <u>304-389-3509</u>	_____

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

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

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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: Katie Black
 Its: Executive Vice-President
 Address: P. O. Box 396
Olney IL 62450
 Telephone: 618-395-4405
 Email: katieb@murvinandmeier.com

Received
Office of Oil & Gas
AUG 19 2015

Subscribed and sworn before me this 15th day of July, 2015

My Commission Expires 11/30/16
Oil and Gas Privacy Notice

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

09/11/2015

SURFACE OWNER WAIVER

County Ritchie Operator Murvin & Meier Oil Co.
Operator well number J. E. Gum #3

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Department of Environmental Protection
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Charleston, WV 25304
(304) 926-0450

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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Russell Beall by Donna Beall - Bishop, POA

Signature
RUSSELL BEALL by DONNA BEALL-BISHOP, POA

Print Name

Date 7/29/15

Company Name _____
By _____
Date _____
Signature _____
Date _____

WW-2A1
(Rev. 1/11)

Operator's Well Number J. E. Gum #3

**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
Paul S. Lawrence AIF et al	J. B. Westfall	1/8th	88 / 309
J. B. Westfall	Alah Rexroad	Heirship Affidavit	161 / 26
Alah and John Rexroad	Francis Cain	Assignment	210 / 6
Francis Cain	Murvin & Meier Oil Co.	Farmout	269 / 550

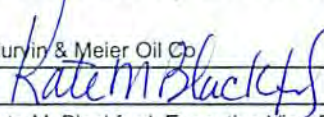
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

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

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

Well Operator:
By: Its:


 Received
 Office of Oil & Gas
 AUG 19 2015

Murvin & Meier Oil Co.
 Kate M. Blackford, Executive Vice-President

WW-2B1
(5-12)

Well No. J.E. Gum #3

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 Laboratories
Sampling Contractor Smith Land Surveying, Inc.

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.

There appears to be one +/- potable water source within 1500' therefore tests will be offered and samples taken as required.

Received
Office of Oil & Gas

AUG 19 2015

09/11/2015



SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: Murvin & Meier Oil Company
LEASE NAME AND NUMBER: Gum #3

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 1960' Owner/Occupant: Murvin & Meier Oil Company
 Address: 1102 North East St., P.O. Box 396, Olney, IL 62450 Ph: 618-395-4405
 Field Contact Date: 8/7/15 Sampled: Yes Date Sampled: 8/7/15 Source: Creek
 If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
 Comments: Lat. 39.026037
Lon. -80.015643
Murvin & Meier is not the land owner but has requested that the creek be sampled.

Site: 2 Spacing _____ Owner/Occupant: Russell G. & Mary Margaret Beull
 Address: 2443 Blue Crab Ct., Sanibel, FL 33957 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 45 Parcel 27
No response to certified letter as of 8/26/15.

Site: 3 Spacing _____ Owner/Occupant: Karl M. & Muddie M. Swinkoff
 Address: 1332 Williamstown Pike, Williamstown, WV 26187 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 45 Parcel 28
No response to certified letter as of 8/26/15.

Site: 4 Spacing _____ Owner/Occupant: Russell S. & Linda M. Bush
 Address: 3124 Bean Ridge Rd., Smithville, WV 26178 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 45 Parcel 29
No response to certified letter as of 8/26/15.

Site: 5 Spacing _____ Owner/Occupant: Dalen R. Schlabach
 Address: 5521 Township Rd. 336, Millersburg, OH 44654 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 45 Parcel 38, Tax Map 50, Parcel 2
No response to certified letter as of 8/26/15.

Site: 6 Spacing _____ Owner/Occupant: Noah L. & Emma Yoder
 Address: 1208 SR 557, Millersburg, OH 44654 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 50 Parcel 3 & 9
No response to certified letter as of 8/26/15.

Site: 7 Spacing _____ Owner/Occupant: Roger Donald & Young Joseph Cochran
 Address: Box 2665 Armstrong Rd., Summersville, W'V 26651 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 50 Parcel 9-4
No response to certified letter as of 8/26/15.

Site: 8 Spacing _____ Owner/Occupant: Billy Joe Jr. & Judy Lynn Johnson
 Address: 3158 Bean Ridge Rd., Smithville, W'V 26178 Ph: _____
 Field Contact Date: N/A Sampled: No Date Sampled: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 8/7/15 2nd N/A Certified (3rd) 8/10/15
 Comments: Tax Map 50 Parcel 11
No response to certified letter as of 8/26/15.

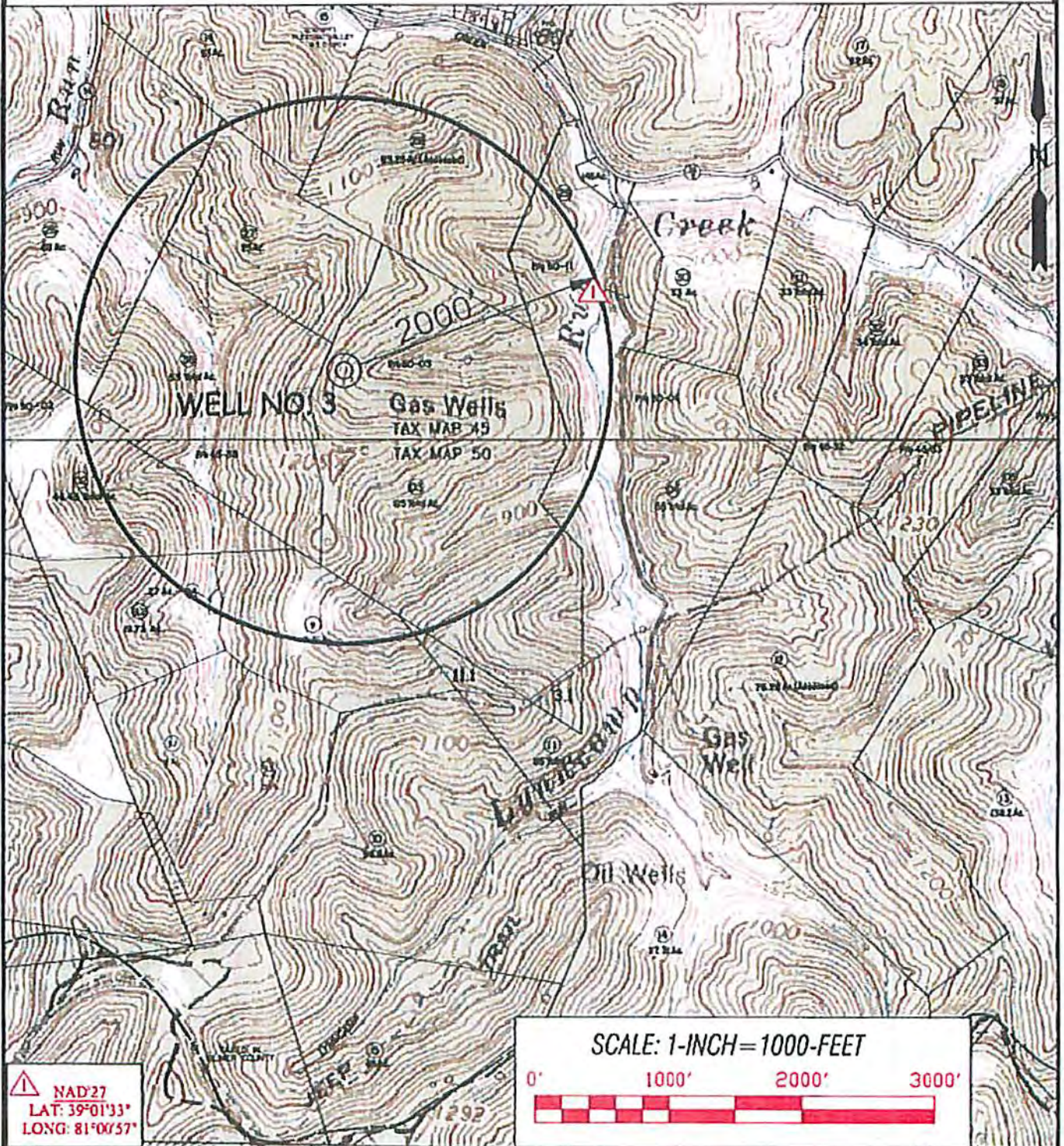
Site: _____ Spacing _____ Owner/Occupant: _____
 Address: _____ Ph: _____
 Field Contact Date: _____ Sampled: _____ Date Sampled: _____ Source: _____
 If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
 Comments: _____


Site: _____ 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: _____

WATER SAMPLES

page of

J.E. GUM LEASE WELL NO. 3




NAD27
 LAT: 39°01'33"
 LONG: 81°00'57"

SCALE: 1-INCH=1000-FEET



Professional Energy Consultants
 A SERVICE TO THE ENERGY INDUSTRY
 SLS
 Energy
 Consultants

TOPO SECTION OF:
 SMITHVILLE, WV 7.5' QUAD.

OPERATOR:
 MURVIN & MEIER OIL CO.
 P.O. BOX 398
 OLNEY, IL 62450

DRAWN BY	FILE NO.	DATE	CADD FILE
K.D.W.	7449	08-14-15	7449WS3.Dwg

COUNTY	DISTRICT	TAX MAP-PARCEL NO
RITCHIE	MURPHY	50-03



Reliance Laboratories, Inc.
 2044 Meadowbrook Road | P.O. Box 4557
 Bridgeport, WV 26330
 Phone: 304 842 5285 | Fax: 304 842 5351

Martinsburg Laboratory
 Ridgefield Business Center | 25 Crimson Circle
 Martinsburg, WV 25403
 Phone: 304 595 2084 | Fax: 304 595 2085

Certifications: WV Department of Health # 00354, 00443 | WV Department of Environmental Protection # 158, 181
 MD Department of Environment # 338, 337 | US Environmental Protection Agency # WV00042, WV00001

SMITH LAND SURVEYING, INC.
 P.O. BOX 150

Tuesday, August 25, 2015
 Page 2 of 2

GLENMILLE WV 26351-

Lab Number: 235148-2015-DW Sample ID: (7449) GUM #3

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MRL	MCL
Analyte Group: Inorganics							
E. coli (Chromogenic)	PRESENT		SM9223B-97	8/7/2015	13 05 MC		
Total Coliform (Chromogenic)	PRESENT		SM9223B-97	8/7/2015	13 05 MC		
pH	# 7.75	S.U.	SM4500H+B-00	8/11/2015	14 19 KV		
Total Alkalinity	37.7	mg CaCO3/l	SM2320B-97	8/11/2015	14 19 KV	2	
Total Chloride	31.3	mg/l	EPA 300.0 R2.1	8/12/2015	21 47 MC	0.15	[250]
Total Dissolved Solids	118	mg/l	SM2540C-97	8/11/2015	10 15 JL	10	[500]
Total Organic Carbon	1.42	mg/l	SM5310C-00	8/10/2015	9 29 MC	0.1	
Total Surfactant	ND	mg/l	SM5540C-00	8/7/2015	13 45 TM	0.2	[0.5]
Turbidity	14.9	N.T.U.	SM2130B-01	8/7/2015	15 30 JL	0.22	
Total Aluminum	0.18	mg/l	EPA 200.7 R4.4	8/12/2015	10 58 TH	0.04	[0.05]
Total Barium	0.12	mg/l	EPA 200.7 R4.4	8/12/2015	10 58 TH	0.05	2.0
Total Iron	0.31	mg/l	EPA 200.7 R4.4	8/12/2015	10 58 TH	0.01	[0.3]
Total Manganese	0.07	mg/l	EPA 200.7 R4.4	8/12/2015	10 58 TH	0.01	[0.05]

Remarks: #Holding time exceeded for this analysis

Date Sample Collected 8/7/2015 10:15
 Sample Submitted By: D.VC/EE
 Date Sample Received 8/7/2015 12:45
 Sample temp. upon receipt: 21.8 Deg C
 MDL - Minimum Detectable Limit
 MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
 MRL - Minimum Reporting Limit
 [MCL] = Maximum Contaminant Level, Non-Regulated

*Method Code: STANDARD METHODS ONLINE ED, US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND YEASTS, Rev. 83, US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994, TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED, USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 8th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 3 years.

NOTE: This sample does not meet standards set for Total Coliform and E. Coli by the State of West Virginia 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau for Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044
 NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reporting limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.
 NOTE: Sample temperature upon receipt exceeds 10 degrees C



WW-9
(2/15)

API Number 47 - 085 -
Operator's Well No. J. E. GUM #3

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Mucvin and Meier Oil Co OP Code 307980
Watershed (HUC 10) Lynncamp Run Quadrangle Smithville 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Drill Water formation cuttings, Frac Blow Back

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

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? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? 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? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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.

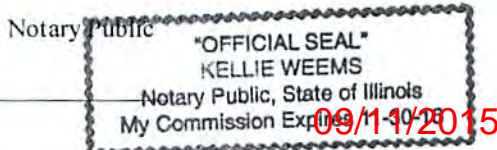
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 & Gas
AUG 19 2015

Subscribed and sworn before me this 15th day of July, 20 15

Kellie Weems



My commission expires 11/30/16

Proposed Revegetation Treatment: Acres Disturbed 1.75 +/- Prevegetation pH 6.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 1/3 TON lbs/acre

Mulch Hay/Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
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>			

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: David Wilson

Comments: Pruned & mulch all cut area no less than 2 ton per acre. maintain all O&S

Title: oil & gas inspector Date: 7-8-15

Field Reviewed? () Yes () No

Proposed Revegetation Treatment: Acres Disturbed 1.75 +/- Prevegetation pH 6.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 1/3 TON lbs/acre

Mulch HAY/STRAW 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre	Seed Type	lbs/acre
<u>KY-31</u>	<u>40</u>	<u>Orchard Grass</u>	<u>15</u>
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<u>Annual Rye</u>			

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Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

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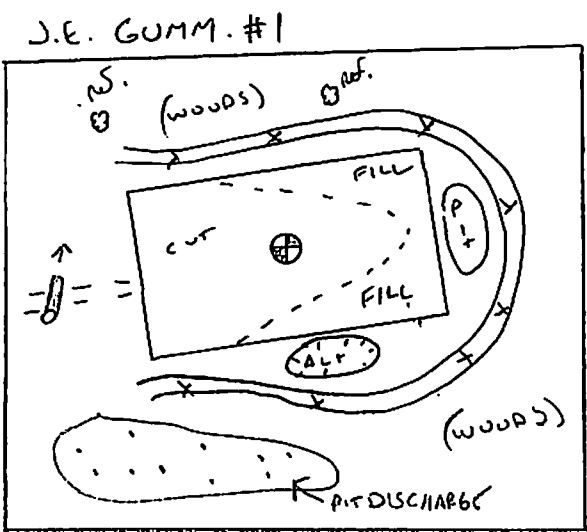
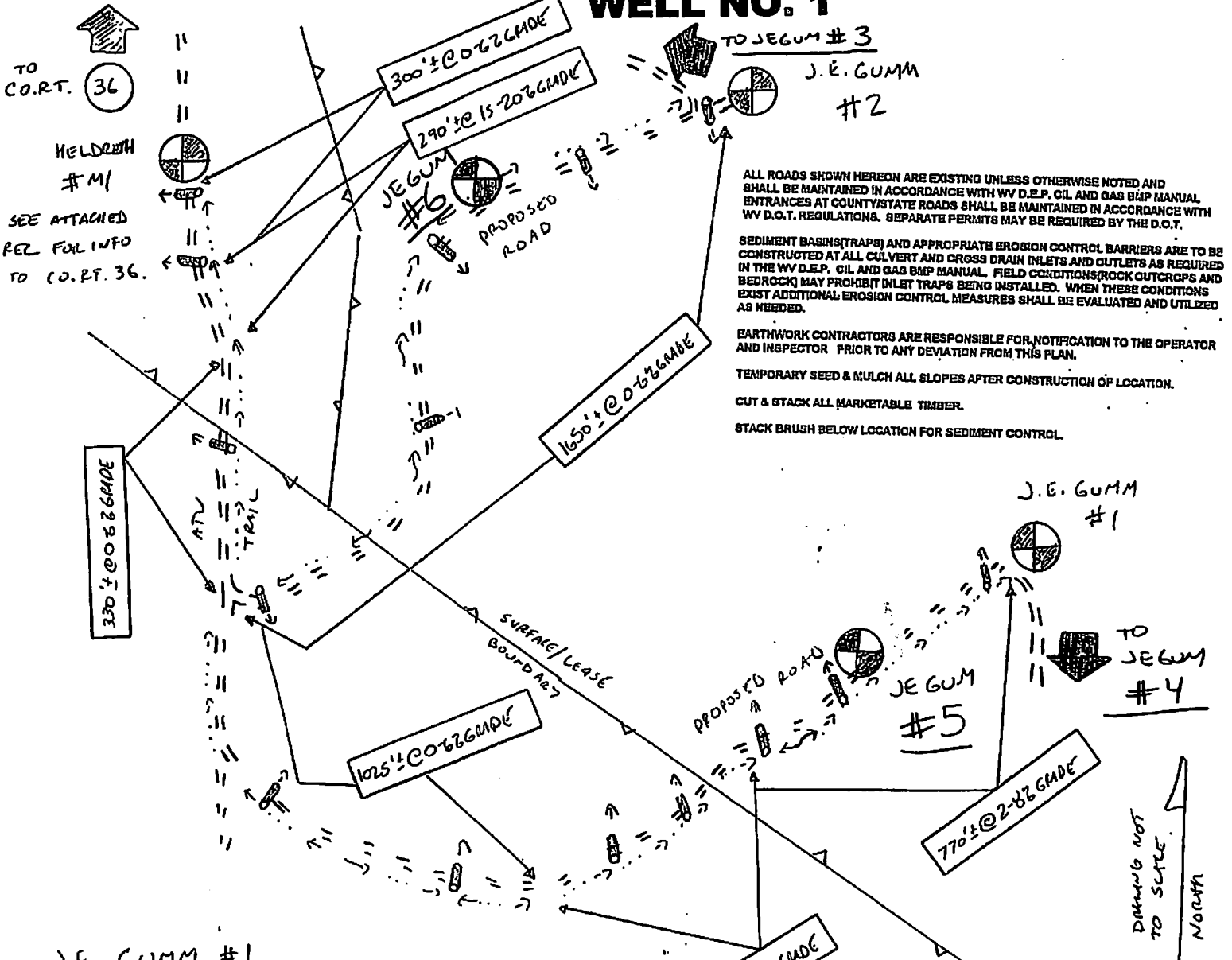
Plan Approved by: [Signature]

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

Title: oil gas inspector Date: 7-8-15

Field Reviewed? Yes No

WELL NO. 1



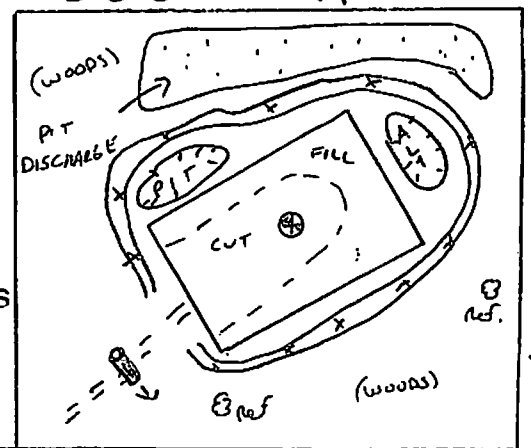
⊕ = CULVERT TO BE INSTALLED AT A

12

Received

Office of Oil & Gas

AUG 19 2015



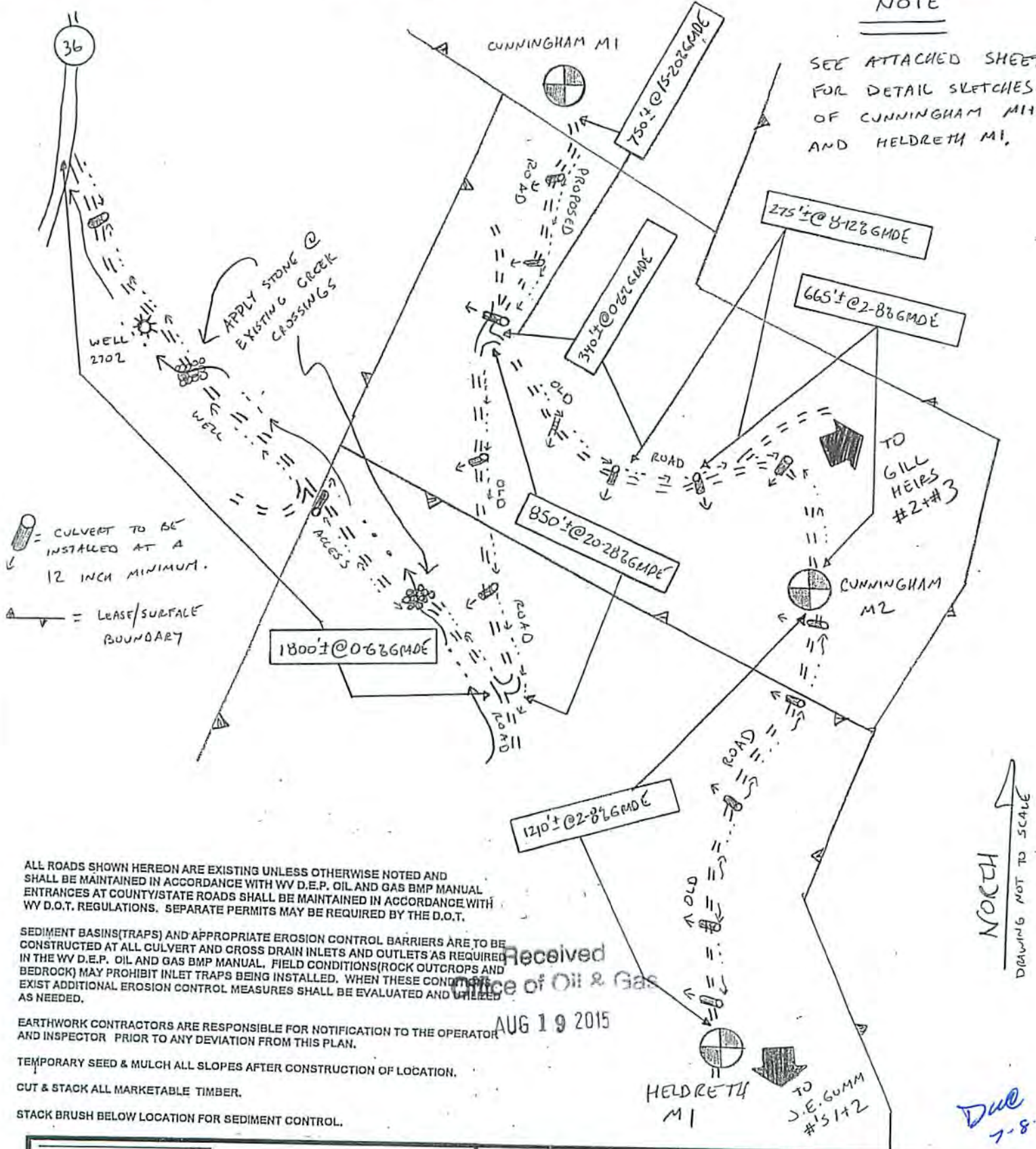
<p>SMITH LAND SURVEYING, INC.</p> <p>P.O. BOX 150, GLENVILLE, WV 26351</p>	<p>Phone (304) 462-5634 Fax 462-5656 email: sls@rtol.net</p>
	<p>REVISED BY C.P.M. 9/19/13</p> <p>DRAWN BY C.P.M. DATE 6/26/10 FILE 00/744/2015</p>

dm

J.E. GUM LEASE

NOTE

SEE ATTACHED SHEETS FOR DETAIL SKETCHES OF CUNNINGHAM M1M2 AND HELDRETH M1.



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 MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

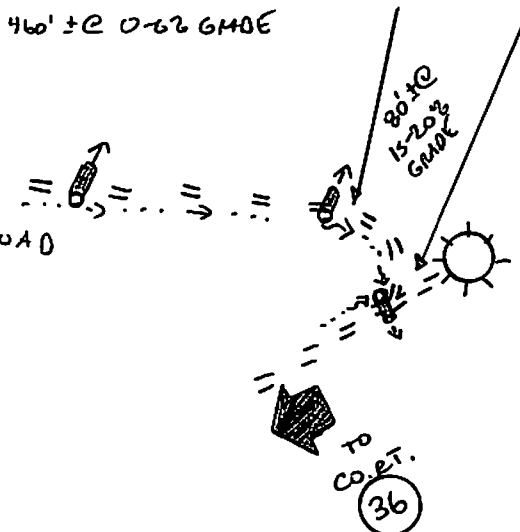
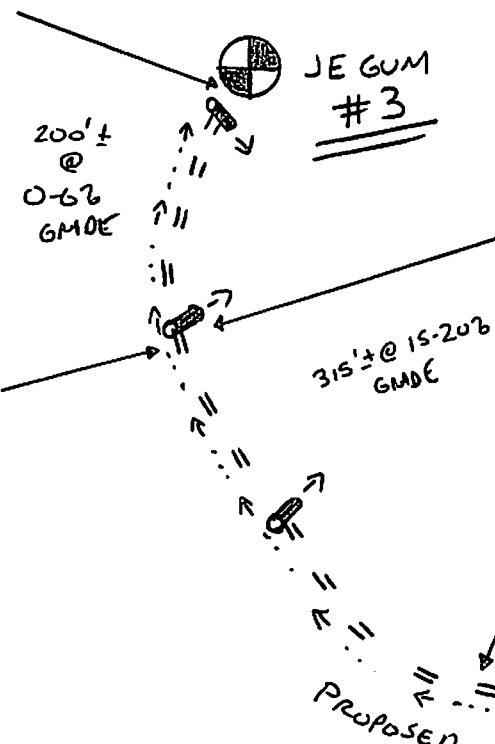
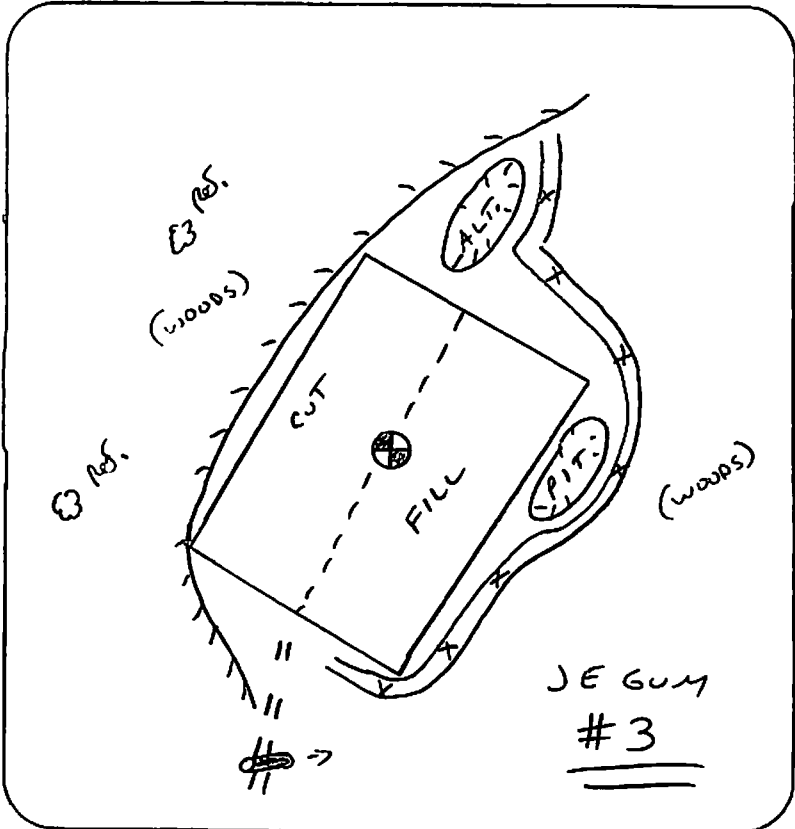
SLS SMITH LAND SURVEYING, INC.
 P.O. BOX 150, GLENVILLE, WV 26351

Phone (304) 462-5634 Fax 462-5656 email: sls@rtol.net
 REVISED BY C.P.M. DATE 6/26/10
 DRAWN BY C.P.M. DATE 3/17/10
 7440, 7441, 7320
 FILE NO. 1386

Duc 7-8-15

09/17/2015

J.E. GUM LEASE WELL NO. 3



⊗ = CULVERT TO BE INSTALLED AT A 12 INCH MINIMUM

SEE ATTACHED REC PLAN FOR INFO TO CO. AT 36

J.E. GUM #3

J.E. GUM #2

Received
Office of Oil & Gas
AUG 19 2015

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS EHP 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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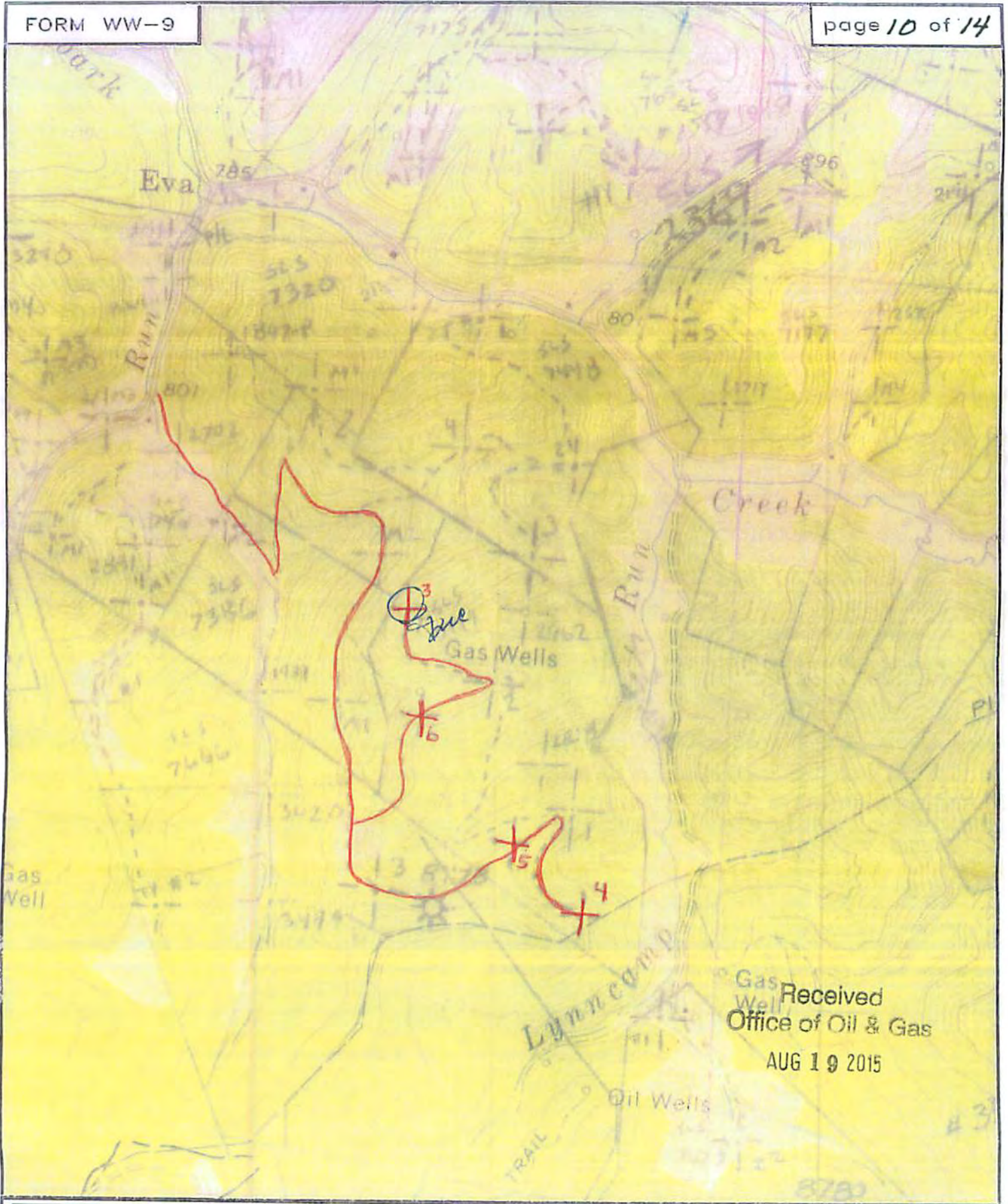
STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

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

Phone: (304) 462-5634 Fax: 462-5656 email: sis@slssurveys.com

DRAWN BY C.P.M. DATE 9/19/13 FILE NO. 7449

09/11/2015
gum



Received
Office of Oil & Gas
AUG 19 2015

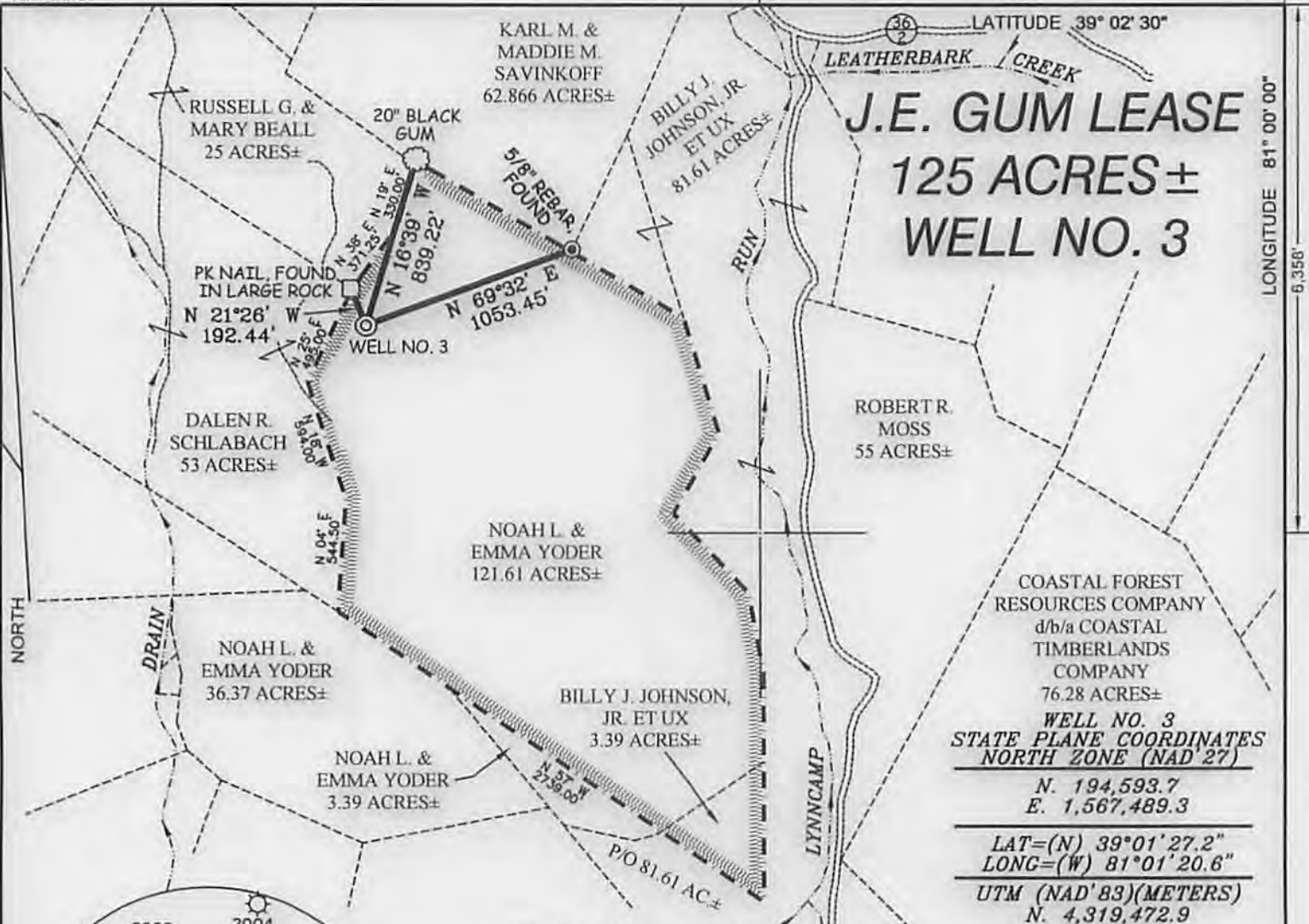


SMITH LAND SURVEYING
P.O BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF SMITHVILLE 7.5'

FILE NO. 7449 DATE 9/26/13 SCALE 1"=1,000'

09/11/2015



J.E. GUM LEASE 125 ACRES± WELL NO. 3

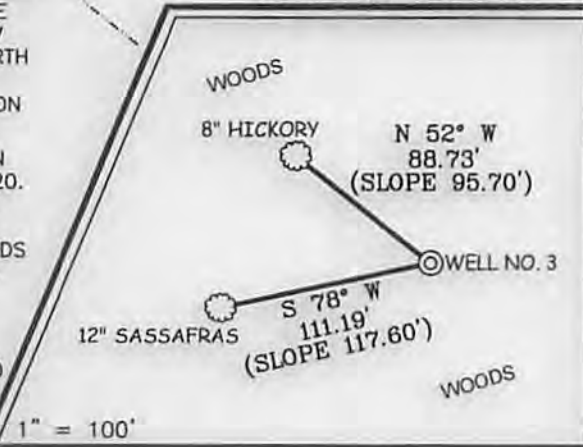
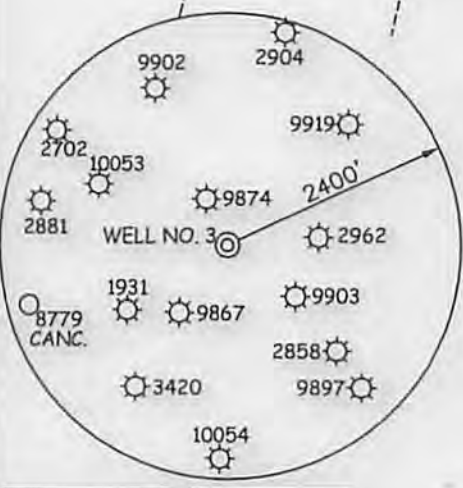
COASTAL FOREST RESOURCES COMPANY
d/b/a COASTAL TIMBERLANDS COMPANY
76.28 ACRES±
WELL NO. 3
STATE PLANE COORDINATES
NORTH ZONE (NAD 27)
N. 194,593.7
E. 1,567,489.3

LAT=(N) 39°01'27.2"
LONG=(W) 81°01'20.6"
UTM (NAD'83)(METERS)
N. 4,319,472.9
E. 498,077.6

REFERENCES

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 09/11/13.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 263 PAGE 20.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2014.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. PLAT CHANGED TO SHOW REVISED ESTIMATED DEPTH & TARGET FORMATION.



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 APRIL 11 20 14
UPDATED JUNE 15 20 15
OPERATORS WELL NO. J.E. GUM #3
API WELL NO. 47 - 085 - 10246
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7449P3R2 (475-62)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 800'

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 1,058' WATERSHED LYNNCAMP RUN
DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE 7.5'

SURFACE OWNER NOAH L. & EMMA YODER ACREAGE 121.61±
ROYALTY OWNER F. CAIN, ET AL LEASE ACREAGE 125± 09/11/2015

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 BEREA ESTIMATED DEPTH 2,600'

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

COUNTY NAME PERMIT