

### 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

August 14, 2013

### WELL WORK PERMIT Vertical Well

This permit, API Well Number: 47-8510053, 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: HELDRETH M2

Farm Name: SCHLABACH, DALEN R.

API Well Number: 47-8510053
Permit Type: Vertical Well

Date Issued: 08/14/2013

### 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.

WW - 2B (Rev. 8/10)

Check # 4160 \$ 650.00

### STATE OF WEST VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

85 03 612
1) Well Operator Museum & Meier O.1 Co 307980 Ritchie Museum Smithville 7.  Operator ID County District Quadrangle
2) Operator's Well Number: Heldreth M2 3) Elevation: 836
4) Well Type: (a) Oil or Gas <del>X</del>
(b) If Gas: Production X / Underground Storage
Deep/ Shallow
5) Proposed Target Formation(s): Warren thru Phinostree Proposed Target Depth: 6010 6) Proposed Total Depth: 6010 Feet Formation at Proposed Total Depth: Phinostree Total Dep
9) Approximate coal seam depths:
10) Approximate void depths,(coal, Karst, other):
11) Does land contain coal seams tributary to active mine?
12) Describe proposed well work in detail  Dr. II and Complete New Well

### 13) <u>CASING AND TUBING PROGRAM</u>

TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	S CEMENT
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	16"			25	25'	
Fresh Water	113/	A500	32	300	300	CTS
Coal						
Intermediate	8%	A 500	23	1600	1400	CTS
Production	4/2	WT65Y	10.5	5940	5940	600
Tubing						
Liners						

Packers:

Kind

Sizes

Depths Set

Dul 3

\$65000

WW-2A (Rev. 6-07)

1). Date: 3 2013
2.) Operator's Well Number Heldreth M2
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

1) Confere Conser(a) to be consedu	5) (a) Carl Onerster
4) Surface Owner(s) to be served: (a) Name Dalen B. Sch	5) (a) Coal Operator Name
Address 5521 Townshi	p Rd. 206 Address
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name
/ lddi ess	Address
P	
(c) Name	Name
Address	Address
- 1 (W. 1994) W. M. M. H.	
6) Inspector Mr. David (	(c) Coal Lessee with Declaration
Address Route I Box	202 Name
Harrisville WV	/ 26362 Address
Telephone 304 - 389 - 3	509
TO THE PE	RSONS NAMED ABOVE TAKE NOTICE THAT:
	er continuing contract or contracts by which I hold the right to extract oil and gas
<u>OR</u>	
	by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
	Chapter 22-6 of the West Virginia Code I have served copies of this notice and nying documents pages 1 through // on the above named parties by:
Personal Service (	
	stmarked postal receipt attached)
	e of Publication attached)
	pter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit
issued under this application.	
	at I have personally examined and am familiar with the information submitted on
	s, and that based on my inquiry of those individuals immediately responsible for ne information is true, accurate and complete.
	cant penalties for submitting false information, including the possibility of fine and
imprisonment.	
	Vell Operator Musyin and Mejer Oil Co
ARIAL SALL	
BARBARA A. HILL Its	
NOTARY PUBLIC AC	
STATE OF OHIO	Olney Illinois 62450
Comm. Expires Te	3 day of 144 . 2013
0010001101792040	- dang
E OF OHIGHIN Salvara	A-Well Notary Public
My Odmmission 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 <a href="mailto:depprivacyofficer@wv.qov">depprivacyofficer@wv.qov</a>

Operator's Well Number Heldreth m2

### 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
Bessie A. Beall etal	Russell G. Beall	1/8	87/147
Russell G. Beall Beall  Bishop Dil = Gas	Beall/Bishop Dilz Gas Mussin and Meier Dil	Lo. Farmos	224/524 it 248/288

### 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.

Its:

WW-2B	ĺ
(5-12)	

Well No.	Heldreth	No.	M2

## 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 Sampling Contractor		Reliance Laboratory Smith Land Surveying, Inc. – Environmental Division
Well Operator		fleier Oil Company
Address	P.O. Box 3	
	Olney, IL	62450
Telephone	618-395-4	405

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', therefore tests will be offered and samples taken as required.

WW-9 Rev. 5/10

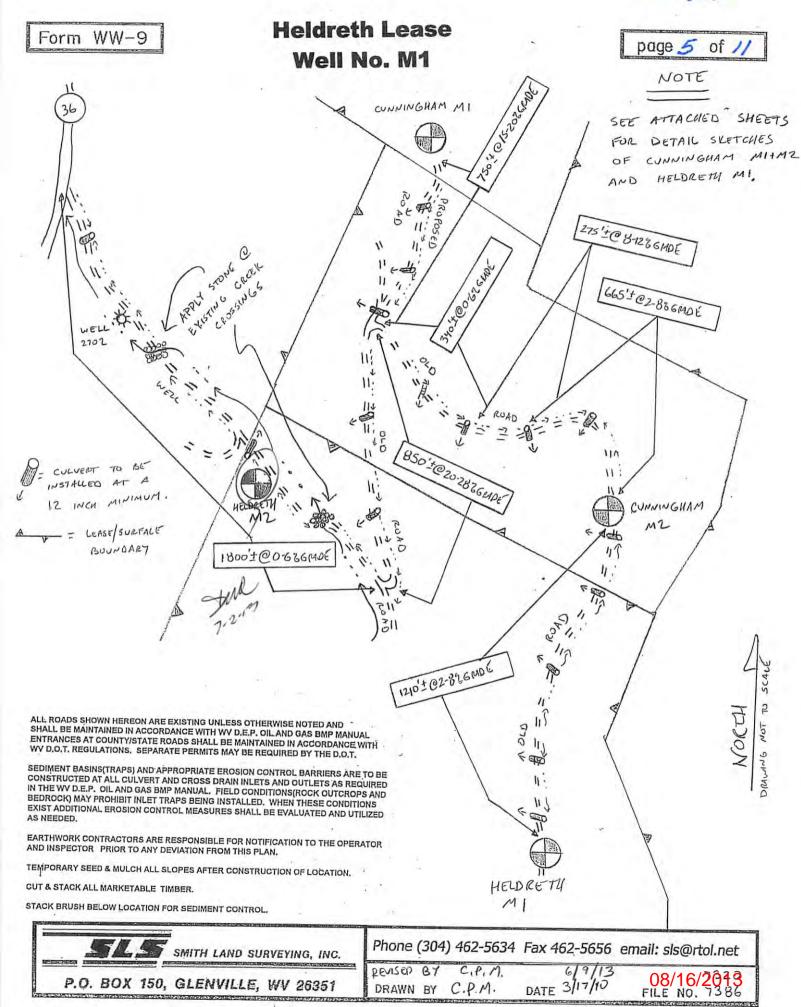
	Page	4	of 11
API Number 47 -	08	5 -	
Operator's Well N	o. He	dreth 1	No. M2

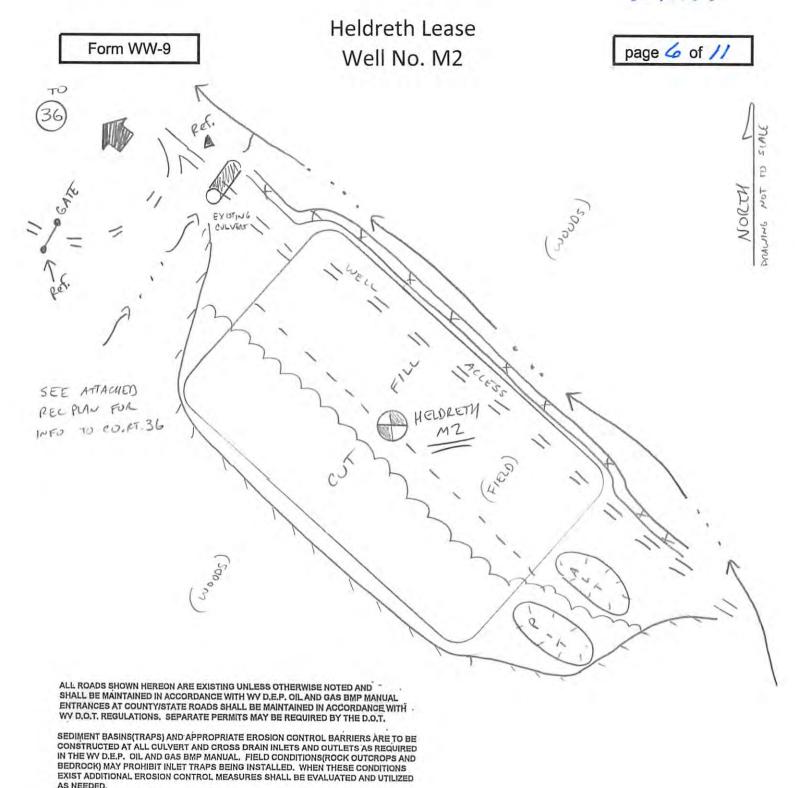
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

### CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

	OP Code _ 307980
Watershed Rocklick Run	Quadrangle Smithville 7.5'
Elevation 836' County Ritchie	District Murphy
Description of anticipated Pit Waste: <u>Drill water an</u>	nd various formation cuttings
Do you anticipate using more than 5,000 bbls of wa	ter to complete the proposed well work? Yes No _X
Will a synthetic liner be used in the pit? Yes	If so, what mil.? to mil 20 mil
Proposed Disposal Method For Treated Pit Wastes:  X Land Application Underground Injection ( Reuse (at API Number_ Off Site Disposal (Supp.	1 Children
-If oil based, what type? Synthetic, petroleum, etc.	hwater, oil based, etc. Air
Drill cuttings disposal method? Leave in pit, landfit -If left in pit and plan to solidify what med	II, removed offsite, etc. Leave in pit lium will be used? Cement, lime, sawdust
-Landfill or offsite name/permit number? _	
I certify that I understand and agree to the on August 1, 2005, by the Office of Oil and Gas of provisions of the permit are enforceable by law. I law or regulation can lead to enforcement action.  I certify under penalty of law that I hav application form and all attachments thereto and obtaining the information, I believe that the info penalties for submitting false information, including Company Official Signature  Company Official (Typed Name)	e terms and conditions of the GENERAL WATER POLLUTION PERMIT issued the West Virginia Department of Environmental Protection. I understand that the Violations of any term or condition of the general permit and/or other applicable e personally examined and am familiar with the information submitted on this d that, based on my inquiry of those individuals immediately responsible formation is true, accurate, and complete. I am aware that there are significant

		LEGEND			
Property Boundary		Diversion (1)		11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	r
Road = = = = =	_ = = = =	Spring O	•		
Existing Fence — X —		Wet Spot			
Planned Fence/	//	Drain Pipe with size	e in inches		ı
Stream	7	r Waterway	$\hookrightarrow$	$\leftrightarrow$	
Open Ditch —————			11.1.11		•
Rock 656886		Artificial Filter Stri	b <u>X X Y X X X</u>	*****	
North N		Pit: cut walls	Curr.		·.
Buildings		Pit: compacted fill	walls		
Water wells W		Area for Land App	lication of Pit Was	ite	
Drill site					
Fertilizer (10-20-20  Mulch HAY	or equivalent) 1/3	TON_lbs/acre (500 lbs mi_Tons/acre Seed Mixtures	nimum)		
, Ar	ea I		Ar	ea II	
Seed Type	lbs/acre	•	Seed Type	lbs/acre	
KY-31	40	ORCHAR	D GRASS	<u> 1-5</u>	
ALSIKE CLOVER	. 5	ALSIKE	CLOVER	5	
ANNUAL RYE	15				
		``		·	na.
Attach: Drawing(s) of road, location	,pit and proposed area f	or land application.			•
Photocopied section of invol	ved 7.5' topographic sh	eet.			
Plan Approved by:	Derfulau				
Title: ovano	a unseitor	Date:	7-2-13		
Field Reviewed? (	) Yes	( ) No		08/16/2013	



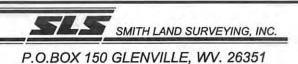


TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

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

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.



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

DRAWN BY C.P.M. DATE 6/9/13 FILE NO. 7386

