

#### 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

June 04, 2013

#### WELL WORK PERMIT Vertical Well

This permit, API Well Number: 47-8510050, 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.

Chief

ames Martin

Operator's Well No: KIRBY ET AL #2

Farm Name: KIRBY, MARGARET ,.ET AL

API Well Number: 47-8510050
Permit Type: Vertical Well
Date Issued: 06/04/2013

WW - 2B (Rev. 8/10)

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

35 03 612
1) Well Operator Murvin and Meier D: 1 Co 307980 Ritchie Murphy Smithville 7.5  Operator ID County District Quadrangle
2) Operator's Well Number: K, s by et al 2 3) Elevation: 1/38
4) Well Type: (a) Oil or Gasx
(b) If Gas: Production _x / Underground Storage
Deep/ Shallow
5) Proposed Target Formation(s): Warren thru Rhinestreet* Proposed Target Depth: 6 Proposed Total Depth: 6 Feet Formation at Proposed Total Depth: Rhinestreet*  7) Approximate fresh water strata depths: 80  8) Approximate salt water depths: 1960
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. Il and Complete New Well

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

TYPE S	SPECIFIC	CATIONS		FOOTAGE	INTERVAL	S CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	113/4	A500	32	300	300	CTS
Coal				777		
Intermediate	8%	A500	23	2025	2025	CT5
Production	4//2	WT 65	9.5	6350	6350	550
Tubing						المصانحما
Liners					H	eceivea

Packers:

Kind

Sizes

Depths Set

MAY 2013

Office of Oil and Gas
WV Dept- of Environmental Protection 013

Check #4141

<b>WW-2A</b> (Rev. 6-07)		1). Date:	May 9	2013
(Nev. 0-07)		2.) Operator's	s Well Number	111 -11
		2 2 6 2 3 mer.	State	County Permit
		3.) API Well I		085 -
	STATE OF	WEST VIRGINIA		
DEDART	MENT OF ENVIRONMENTA			OIL AND CAR Check
DELAKTI	NOTICE AND APPLICATION	그 사람이 나는 하셨다. 그렇지만 맛없지 않는 것이 그렇게 하셨다.		AND A STATE OF THE
4) Surface Owner(s	s) to be served: /5	) (a) Coal Operator		
(a) Name	Margaret Kirby	Name	No	ne
Address 89	145/N. Calhoun	Address		
B	a Springs WV. 26137			
(b) Name	777,	(b) Coal Owner(	s) with Declara	ation
Address		Name	Transfer har definition	
		Address		
1 <del></del>		3,000		
(c) Name		Name		
Address		Address		
6) Inspector M	c. David Cowan	(c) Coal Lessee	with Declaration	าท
Address R	1 Box 202	Name	Non	
Ü,	acrisville WV 26362	Address	,,,,,	9
Telephone 30	4-389-3509	W. 400-40 (A)A-A-		
	TO THE PERSONS NAME	D ABOVE TAKE	NOTICE THAT	•
Included is the lea	ase or leases or other continuing co			
OR				33
	ormation required by Chapter 22, A			
I certify that a	s required under Chapter 22-6 of	the West Virginia C	<u>ode</u> I have serv	ed copies of this notice and
application, a location	plat, and accompanying document		_ on the above	named parties by:
	Personal Service (Affidavit attache Certified Mail (Postmarked postal			
	Publication (Notice of Publication			
	i apilication (Notice of Lapilication)	attacricu)		

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.

BARBARA

NOTARY

STATE O

Comm.

Subscribed and swore be imprisonment. Well Operator By: BARBARA A. HILL Its: NOTARY PUBLIC Address STATE OF OHIO Comm. Expires Telephone ibed and swbre before me this

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 DER's Chief Privacy Officer at depprivacyofficer@wv.gov ntention

WW-2A1 (Rev. 1/11)

Operator's Well Number

Kirby etal 2

# 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,	Less	ee, et	c.		Royalty	Book/Page
Margaret Kirby	Musun	nano	Mei	er D	:/ Co	7/16	254/853
Ernest Wagener			"				254/862
Leota H. Cunningham			"			13/336	254/844
Ester McGray Bell	,,	,,	"	"	"		254/835
/							

#### 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

Received

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: Musun and Miles O: | Co.

By: Gay L. Hill

Its: Vice President

Well No. Kirby et al #2

### 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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

Certified Laboratory Name Reliance Labs
Contractor Name Smith Land Surveying, Inc. – Environmental Division

Well Operator
Address
P.O. Box 396
Olney, IL 62450

Telephone
618 305 4405

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 please indicate such.

Received

NOTE: There appears to be 2± no potable water sources within 1,000', therefore tests will be offered and samples taken as required.

MAY 1 5 2013

Office of Oil and Gas
WV Dept. of Environmental Protection



P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

<b>OPERATOR:</b>	Murvin & Meier Oil	Company		
LEASE NAME	AND NUMBER: _	Kirby # 2	 	

#### **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.

\*Please note that the following information is subject to change upon field inspection.

#### INDIVIDUAL CONTACTED OR NOTIFIED

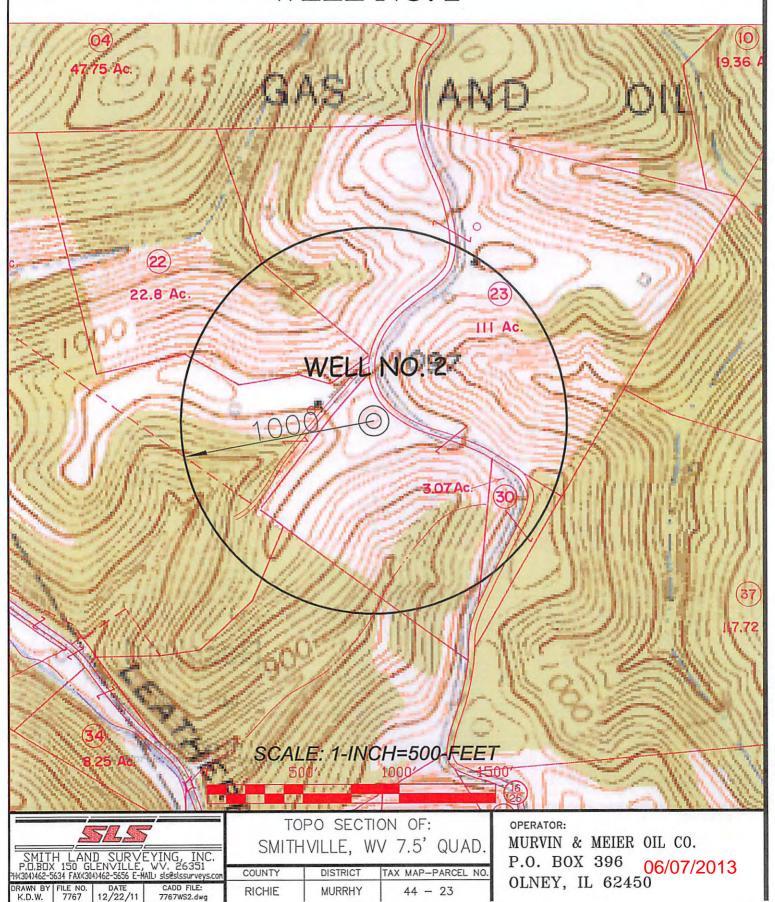
Owner/Occupant:	Lawrence L. & Sandra K. Lenhart		
Address: PO Box	169, Arthurdale, WV. 26520	Letter/Notice Date:	
Comments: Par # 2	1.1		
Owner/Occupant:	Margare Kirby		
Address: 8945 N. C	alhoun HWY, Big Springs, WV. 26137	Letter/Notice Date:	
Comments: Par # 2.			
Owner/Occupant:			
Address:		Letter/Notice Date:	
O			
Address:		Letter/Notice Date:	
Comments:			
Owner/Occupant:			
		Letter/Notice Date:	
Comments:			

MAY 1 5 2013

WATER SAMPLES

### KIRBY ET AL LEASE WELL NO. 2

page of



WW-9 Rev. 5/10

API Number 47 - 08	5		, ,	
Operator's Well No. 16	irby	e	tal	2

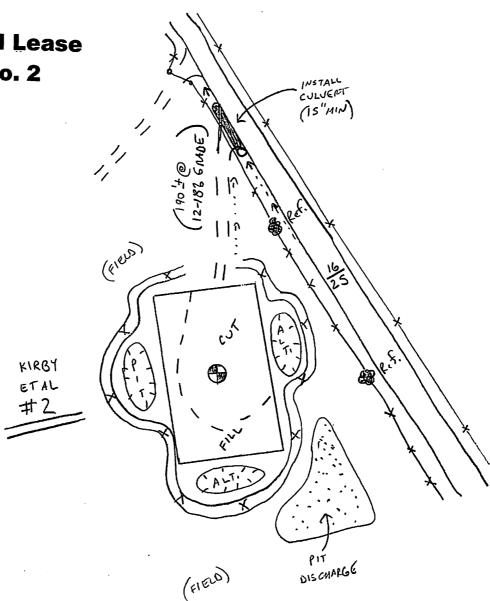
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

GENERA	AL PERMIT FOR OIL AND GAS PI	Γ WASTE DISCHARGE
Operator Name Murvin and		
		Smithville 7.5
Elevation //38	County Ritchie	ck, Various Formation Cuttings
Description of anticipated Pit Waste:	rill Fluid, Frac Floo Ba	ck, Various Formation Cuttings
Do you anticipate using more than 5,000		
Will a synthetic liner be used in the pit?	If so, what mil.	20 MIL
Proposed Disposal Method For Treated F		
Land Applicat		
Underground Reuse (at AP	Injection (UIC Permit Number	
Off Site Dispo	osal (Supply form WW-9 for disposal	location)
Other (Explai	in	
Drilling medium anticipated for this well	2 Air freshwater oil based etc	Air
-If oil based, what type? Synthe	etic, petroleum, etc.	
Additives to be used? 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?	
on August 1, 2005, by the Office of Oil provisions of the permit are enforceable or regulation can lead to enforcement act I certify under penalty of law application form and all attachments the the information, I believe that the infor submitting false information, including the Company Official Signature	and Gas of the West Virginia Departs by law. Violations of any term or co- cion. that I have personally examined ar- reto and that, based on my inquiry of rmation is true, accurate, and comple- the possibility of fine or imprisonment	
Company Official (Typed Name)		.2
Company Official Title	ce President	Receive
Subscribed and sworn before me this	9th day of Mary	, 20 1 3 MAY 1 5 2013
Barba	ia A- Hill	Morary Rublid Dept of Bright ARBARA A. HIL
My commission expires		STATE OF OHIO
Form WW-9		STATE OF OHIO Comm. Expires October 31, 201

į	LEGEND
Property Boundary	Diversion ecoestic state of the
Rond = = = = = = = = = = = = = = = = = = =	Spring -
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (E)
Stream 7	Waterway C+ C+C+C+C
Open Ditch	Cross Drain
Rock #35	Artificial Filter Strip XXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site 🕀	
Proposed Revegetation Treatment: Acres Disturbed	+/- Prevegetation pH 6.0
	•
Lime 3 Tons/acre or to correct to pH	6.5
Fertilizer (10-20-20 or equivalent) // 3 70% los	/acre (500 lbs minimum)
Mulch Hay 2. Tons/a	acre
Seed	d Mixtures
A man T	Area II
Area I Seed Type lbs/acre	Seed Type lbs/acre
	Orchard Grass 15
KY-31 40	Cremora (Srast
Alsike Clover 5	Alarke Clover 5
Annual Rye 15	
HINNKAL DYE 14	
Attach: Drawing(s) of road, location,pit and proposed area for land app	olication.
•	
Photocopied section of involved 7.5' topographic sheet.	
	. * :
Plan Approvéd by: And Influe	
The case of I	A
Comments: Treseed & Much all C	infasen use profix EYS
Tille A Sealer De Year	Date:
THE. Was the supported	
Field Reviewed? (1) Yes (	) No

### Kirby et al Lease Well No. 2



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WY D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WY 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.

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.

Receive

Office of Oil and Gas C Protection



P.O.BOX 150 GLENVILLE, WV. 26351

DRAWN BY C.f. M.

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

FILE NO. 7767 00/07/2013

