

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 23, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8510121, 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.

Operator's Well No: GREGG HEIRS M2

Farm Name: HEARTWOOD FORESTLAND FU

API Well Number: 47-8510121 Permit Type: Vertical Well

Date Issued: 06/23/2014

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 within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
- 7. Well work activities shall not constitute a hazard to the safety of persons.

WW - 2B (Rev. 8/10)

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

		<u>vv</u>	ELL WORK PE	KIVITI APPLIC	SATION 85	5 3 612
) Well Operato	or Mu	(VIN 8	Mejes Dil	Co. 307 Oper	1980 Ritch rator ID County	District Quadrangle
) Operator's V	Vell Numb	oer:	Grego Hr.	5 M2	3) Elevation:	1083
) Well Type: (
			ction _x_ / Unc	derground Sto	rage	
		Deep		/ Shallow		
) Proposed To) Approximate) Approximate	otal Depth fresh wa salt wate	n: 24 Iter strata er depths	<u>50</u> Feet	Formation at Permit 12	Proposed Tota <i>9815)</i> <i>71, 2017, 98</i>	
) Approximate	coal sea	m depths	: None	(Permits	127, 20179	1815)
0) Approxima	te void de	pths,(coa	al, Karst, other):		none	
1) Door land	aantain a	anl scom	s tributary to ac	tivo mino?	1/	
1) Dues land	Contain C	Jai Scaill				
2) Describe p	roposed v	well work	in detail	Drill an	d Comple	te New Well
					/	
			Luste out		17.1	
3)			SING AND TU			
TYPE S	SPECIFIC	CATIONS		FOOTAGE	INTERVALS	S CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
	"					
Conductor	16		32	20'	20'	
* * * * * * * * * * * * * * * * * * *	16	A-500				CT3
Conductor Fresh Water Coal	3/11	A-SED	32 32	20' 300'	300	CT3
Fresh Water Coal	1134"		32	300'	300	
Fresh Water Coal Intermediate		A-500 A-500 WT25Y				CT3 CTS 250
Fresh Water Coal	113/4"	A-500	32 20/23#	300° 1200° 2400°	300° 1200° 2400°	CTS
Fresh Water Coal Intermediate Production	113/4"	A-500	32 20/23#	300'	300° 1200° 2400°	CTS

Sizes

Depths Set

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Office of Oil and Gas WV Dept. of Environmental Protection

WW-2A (Rev. 6-07)			1). Date:	4	17/2014	
(Nev. 0-01)			2.) Opera	ator's Well Num		3 Hrs M.
				Sta		Permit
			3.) API W	/ell No.: 47	085	
DEP		STATE OF NVIRONMENTA AND APPLICATION		ON, OFFICE		45 4323
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	ner(s) to be served. Hear waar 6 3001 Emers	restland Fund IV.	(a) Coal Oper Name Address	rator Nov	16	
(b) Name	PACKETSDUIG,	VYZGIVJ-ZJIJ	(b) Coal Ow	ner(s) with Dec	claration	
Address			Name	ner(s) with bet	olaration	
ridareco			Address			
	-		, iddi ooo			-
(c) Name			Name			
Address			Address			
6) Inspector	Mr. David	Cowan	(c) Coal Les	see with Decla	ration	
Address	Boute 1 Bo	x 202	Name	None		
2000		VV 26362	Address			
Telephone	304-389-					
in all over drive to		E PERSONS NAM				V EN TON COL
OR Included is to	ne lease or leases (or other continuing co	ontract or contrac	cts by which I no	id the right to extrac	of oil and gas
	he information requ	ired by Chapter 22,	Article 6, Section	8(d) of the Code	of West Virginia (s	see page 2)
I certify	that as required un	der Chapter 22-6 of	the West Virgin	ia Code I have	served copies of th	his notice and
application, a loc		ompanying documen		gh 9 on the ab	ove named parties	by:
-		vice (Affidavit attach I (Postmarked postal		V		
		Notice of Publication		,		
I have re		Chapter 22-6 and 3		agree to the ter	rms and conditions	of any permit
issued under this	s application.					
		w that I have persor				
		ments, and that base that the information is			luais immediately re	esponsible for
		ignificant penalties for			cluding the possibil	lity of fine and
imprisonment.	elveu		1 1	1 . 1 0	1.00	1
1700	42.	Well Operator	Musua de	94 Never	0,1/Co.	
17.17	A100	By: Its:	Execut	ve Vice-Pres	sident	
YAM	1 4 200	Address	DO Box	39%	SIUCHI	
		- Constant	MINEN II	110015 62	450	
Office	s of Oil and Gas	n Telephone	6181-39	5-4405		
Subscribed and	s of Oil and Gas sworn before me th	nis day of	April		2014	
	V .000	· 11) 00-01		Notary P	hahtirosoona	
My Commission	Expires	11 30/16		*OFFICIAL SEA		
Oil and Gas Privacy			N.	KULLIE WEEN		
		personal information, s		otary Public, State of Commission Expire		
Your personal infor with statutory or re	rmation may be disclos egulatory requirements	personal information, s sed to other State agenc , including Freedom of l out our use of your pers	ies or third parties in Information Act requ	n the normal cours uests. Our office wi	e of business or as ne Il appropriately secure	eded to comply your personal
miormation. If you	nave any questions ab	out our use or your pers	onai information, p	lease contact DEF	s Giller Frivacy Officer	at

depprivacyofficer@wv.gov

Agent Address Name) C. Date of Delive H (7) H ferent from item 1? Yes address below:
Priority Mail Express** Return Receipt for Merchandis Collect on Delivery
extra Fee)
į

Received

MAY 1 4 2014

Office of Oil and Gas WV Dept. of Environmental Protection Operator's Well Number

Bregg Hrs 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
Zedia O. Gregg etal	Clem S. Morris	1/8	78/204
Clem S. Merris	Beall Bishop DEB	Assigni	men / 224 / 524
Beall Bishop 026	Murvin = Meier Dil Co.	Farmout	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

Received

MAY 1 4 2014

Office of Oil and Gas
WV Dept. 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: Mury

Ву:

Its:

Muryin and Weigr 1991 Co.

Exec. Vice-President

WW-2B	1
(5-12)	

Well No.	Gregg Heirs 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.

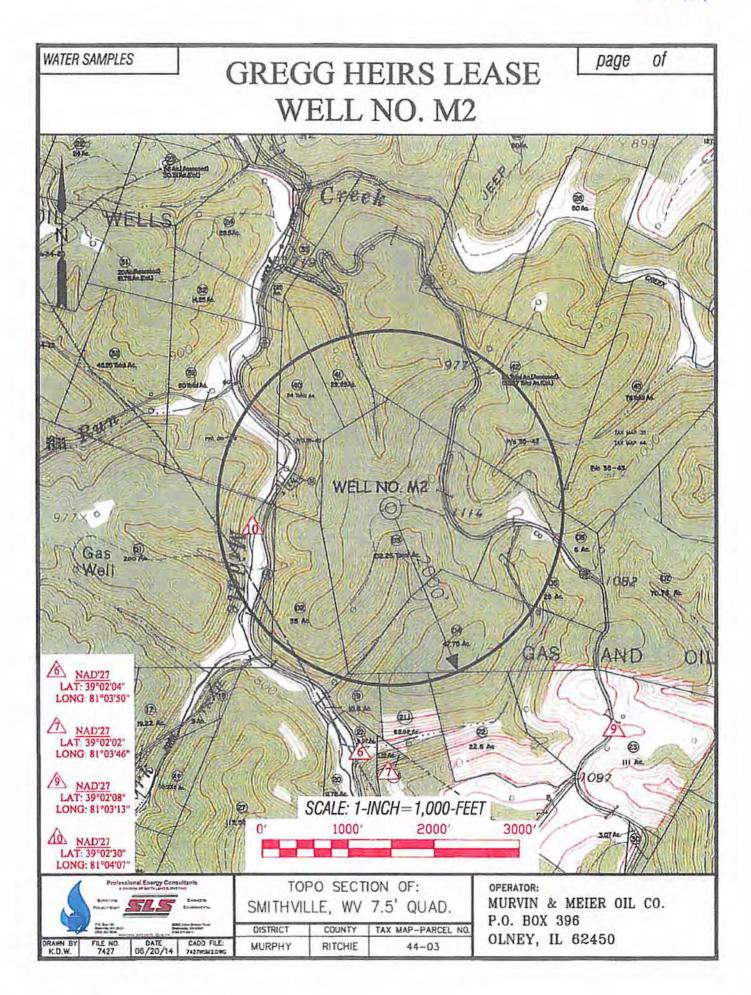
Certified Labora	atory Name	Reliance Labs	_
Sampling Contractor		Smith Land Surveying, Inc Environmental Division	-
Well Operator	Murvin & Meier	Oil Co.	
Address	P.O. Box 396		
	Olney, IL 62450		
Telephone	618-395-4405		

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.

NOTE: There appears to be no potable water sources within 1,500', therefore no tests will be required.

MUST GO OUT TO 2000' .

MAY 1 4 2014





OPERATOR: Murvin & Meier Oil Company

P.O. BOX 180, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

LEASE NAM	IE AND	NUMB	ER: Ures	Heirs M	-2						
			<u>C</u>	ОММЕ	NTS						
The initial ficultisted surface other purpose	e owner(s)	that we	re potentially	utilizing	groui	ndwater	(potable) for H	uman Co	nsump	tion or
		IND	IVIDUAL C	ONTA	CTED	OR N	OTIFIE	<u>.D</u>			
Site: /	Spacin	ıg	Owner/	Occupa	nt:	Heartwa	od Foresila	and Fund	11' Lunited F	artnersh	iD
Address:	_		Parkersburg.					h:			<i>r</i>
Field Contac	t Date:	N/A	_Sampled:_	No	Date	Sample	d: <i>N//</i>	/ Sc	ource:	Unki	nown
If No, declined	by who										5/21/14
Comments:				nd 42 Ta	х Мар	44, Parc	el 3				
	Letter of	refusal si	gned 5/29/14			_					
Site: 2	Spacin	g	Owner/	Occupa	nt:	Roberi	Huff and	l Miche	al Buelmei	r	
Address:		-	trongsville, Ol		_			h:			_
Field Contact						Sample	d: <i>N//</i>	So So	urce:	Unki	1011/1
If No, declined l									Certified	(3rd)	5/21/14
Comments:											
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Site: 3	Spacin	a	Owner/6	Occupai	nt:	l.eonar	d and Jo	lm Hals	tine		
	_		Iville. WV 261	-	··· —	Boomas		h:			
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If No, declined t										1 (3rd)	5/21/14
Comments:									_	· •- • <u>-</u>	
											
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Site: 4	Snacin	Ω	Owner/0	Occupat		Mika R	oss Inc				
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Field Contact			Sampled:		Date	Sampled			ntce.	Unkn	ดงเก
If No, declined t	_					•			Certified		
Comments:				Date.	·~_	. ****	_ = 110	,		, ,0.0/_	
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7427 Muryin&Meier water final GregHeirsM-2 pg1

Site: 5	Spacing	Owner/Occupa	nt: Tony A	d & Robin E But	<i>ls</i>	
		. Hedgesville, WV 25427		Ph;		
Field Contac	ct Date: N/A	Sampled: <i>No</i>	Date Sample	d: N/A So	urce: Unki	เดงเก
If No, declined	by who	Letter/Notice Date	: 1st <i>N/A</i>	2nd N/A	Certified (3rd)	
	Tax Map 44, Par		•		····	
•	 -					
				· · · · · · · · · · · · · · · · · · ·		
Site: *6	Spacing 3	010' Owner/Occupa	ant: <i>Donni</i>	e & Holly Millic	an	
Address:	3192 Trotter Rd.	Norton, OH 44203		Ph:	(330)-592-5762	
Field Conta	ct Date: 6/8/14	/_Sampled:Yes	Date Sample	d: 6/8/14 S	ource: Spi	ring
		Letter/Notice Date				
Comments:	Tax Map 44, Par	cel 19				-
	Northing: 39° 02	'04"				
	Easting: 81° 03'					
		780' Owner/Occupa				
Address:	3192 Trotter Rd.	Norton, OH 44203		Ph:	(330)-592-5762	·
Field Conta	ct Date: 6/8/1	/_Sampled:Yes	Date Sample	d: 6/8/14 S	ource: Wate	r IVell
If No, declined	d by who	Letter/Notice Date	e: 1st <u>/////</u>	2nd <i>N/A</i> _	Certified (3rd)	5/21/14
Comments:	Tax Map 44, Par	cel 19				
	Northing: 39° 02	'02"				
	Easting: 81° 03'	46"				
Cito: P	Spacing	Owner/Occupa	ont Canala	a K lanhaut		
Field Conta	ct Date: N/4	Rd. Arthurdale, WV 265	Data Camala		auroo: Unb	
		Sampled: <i>No</i>				
		Letter/Notice Date	9: 16! <i>IVA</i>	_ 280	Certified (3rd)_	3/21/14
Comments.	Tax Map 44, Par	cei z i. i			· · · · · · · · · · · · · · · · · · ·	
			<u> </u>			
Site: +9	Spacing 3	500' Owner/Occupa	ant: <i>Marga</i>	ıret Kirby		
Address:	8945 N Callioun	Hwy Blg Springs, WV 26	137	Ph:	(304)-477-3241	
Field Contain	ct Date: 6/1/14	Sampled: Yes	Date Sample	d: 6/1/14 S	ource: Water	r Well
		Letter/Notice Date				
Comments:	Tax Map 44, Par			-		
	Northing: 39° 02		-	-		
	Easting: 81° 03'					
Site: */0		0wner/Occupa		n And Meier Oil		
Address:		venue Chicago, IL 6061		Ph:	(312) 951-9129	
Field Contac		Sampled: Yes_	•	d: <u>6/18/14</u> Sc		eek
If No, declined		Letter/Notice Date		2nd <i>N/A</i>	Certified (3rd)_	<u> </u>
Comments:		er Oil Company is not the	e iandowner bul	nas requested ti	ie creek be sampl	ed.
	Northing: 39° 02					
	Easting: 81° 04'	07"				

WW-9 (5/13)

API Number 47 - 085 Operator's Well No. Gregg Hrs M2

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

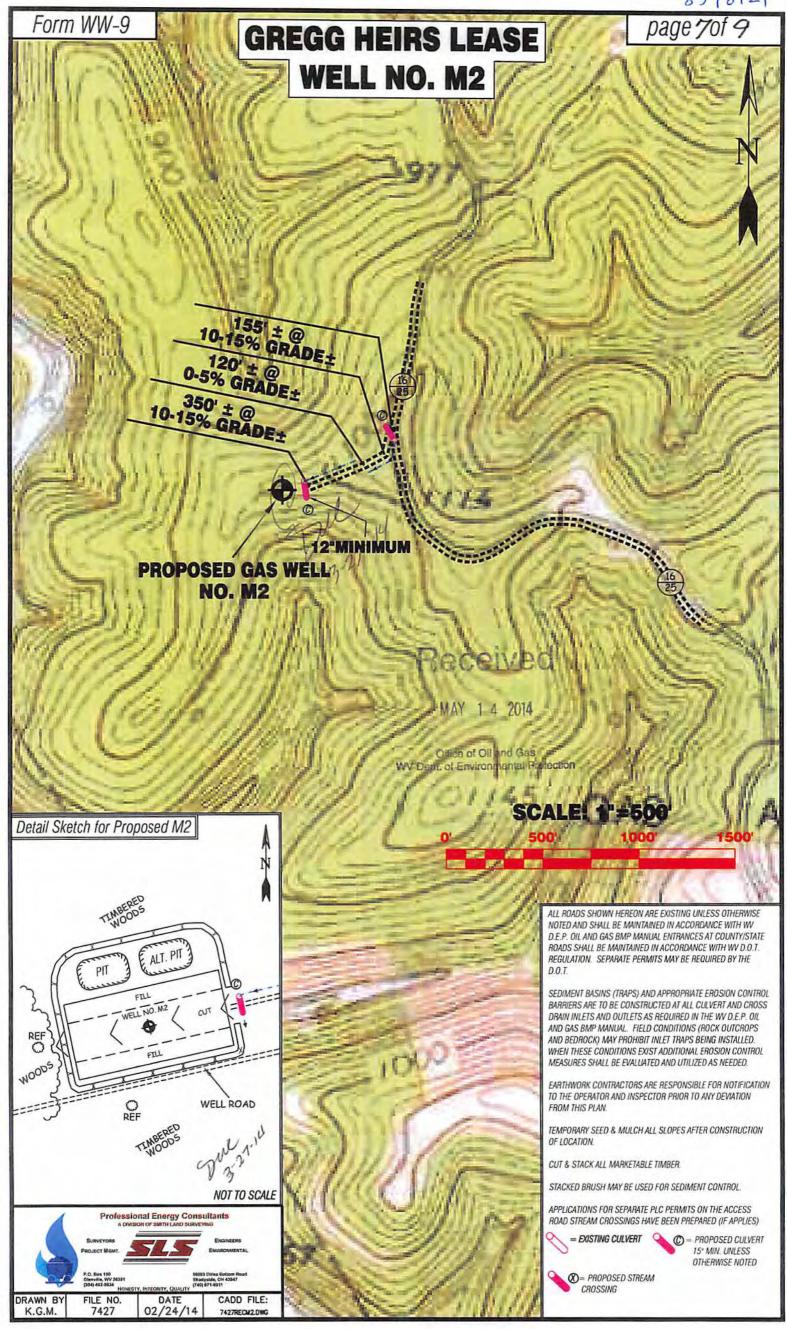
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

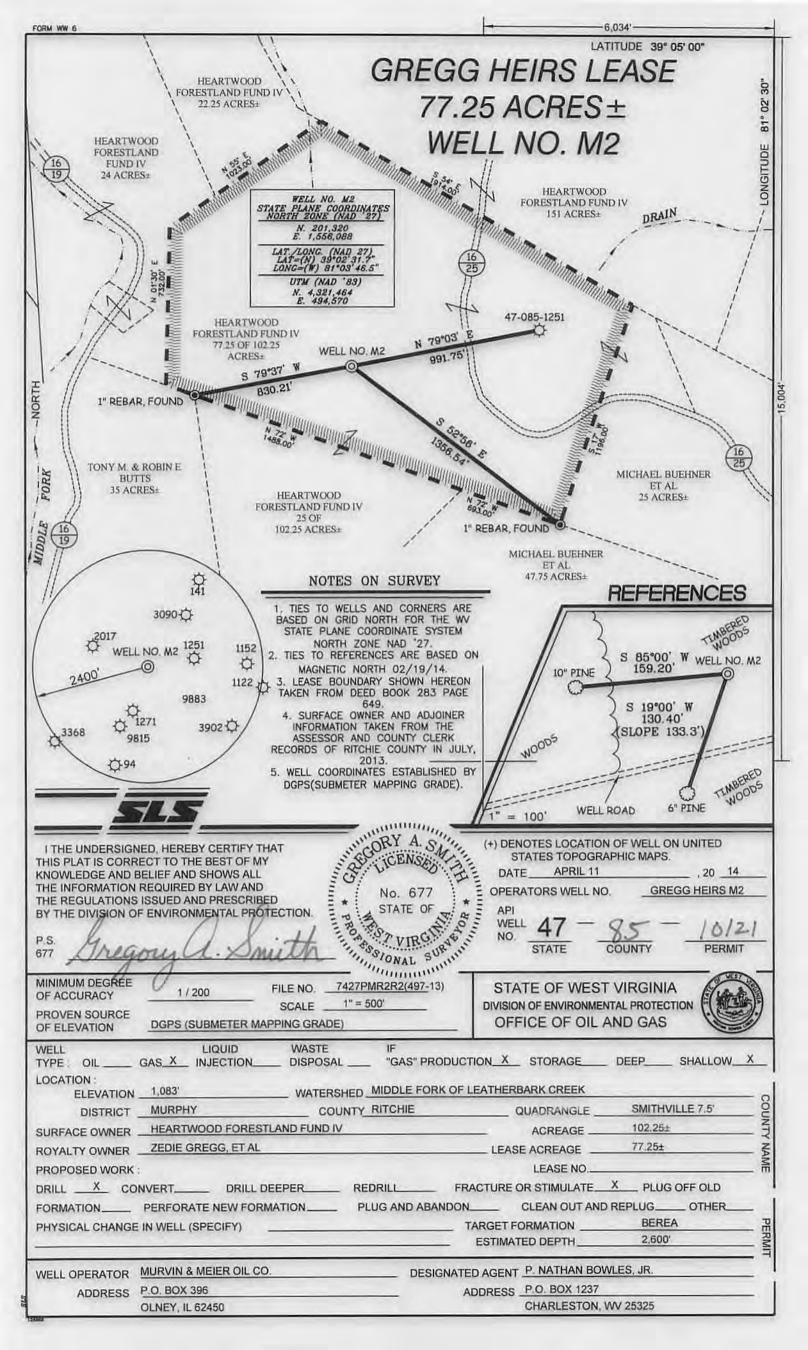
	k Meier Oil Company		OP Code307980	
Vatershed (HUC 10)M	ddle Fork of	Leatherback CreekQuadrang	gle _ Smithville 7.5'	
levation	983	County_Ritchie	District Murphy	
Oo you anticipate using r	more than 5,000 b	bls of water to complete the propos	ed well work? Yes	NoX
Vill a pit be used for dri	ll cuttings? Yes	No		
If so, please des	scribe anticipated p	pit waste: Drill water and various for	ormation cuttings	
Will a synthetic	liner be used in the	ne pit? Yes No	If so, what ml.?	20 MIL
Proposed Dispo	sal Method For To	reated Pit Wastes:		
	Reuse (at API) Off Site Dispose	on njection (UIC Permit Number Number al (Supply form WW-9 for disposa	l location)	Received
Will closed loop system	be used?	No		MAY 1 4 2014
Drilling medium anticip	ated for this well?	Air, freshwater, oil based, etc	Air	- Vertical Control of the Control of
If oil based w	hat type? Synthet	ic, petroleum, etc.	WV	Dept. of Environmental Protect
-II on based, w	Lat type: Synther	S-a-S		annomal Flotec
Additives to be used in c	drilling medium?_	Jours	1	.4
Drill cuttings disposal m	nethod? Leave in	Soa popit, landfill, removed offsite, etc	Leave in	PI/
	d plan to solidify	what medium will be used? (cemer	nt, lime, sawdust)	
-If left in pit an	in binness contains	Course interesting a course ordinately Cara and		
-If left in pit an -Landfill or off	fsite name/permit i	number?		
-If left in pit an -Landfill or off I certify that I is on August 1, 2005, by the provisions of the permilaw or regulation can left application form and a obtaining the informati	understand and ag he Office of Oil ar it are enforceable ad to enforcement r penalty of law t all attachments th ion, I believe that g false information ature ped Name)	ree to the terms and conditions of t nd Gas of the West Virginia Departs by law. Violations of any term or	the GENERAL WATER Properties of Environmental Proceedings of the general part of the general part of those individuals and complete. I am away imprisonment.	OLLUTION PERMIT issue stection. I understand that the ermit and/or other applicable information submitted on the immediately responsible fare that there are signification.

Operator's Well No. Graga Hrs 2

i.	LEGEND
Property Boundary	Diversion Control of the Control of
Road = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream	Waterway C+ C+ C+
Open Ditch	Cross Drain
Rock ESEBE	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells (W)	Area for Land Application of Pit Waste
Drill site	
Lime Tons/acre or to correct to pH Fertilizer (10-20-20 or equivalent) Tons/ac Mulch Tons/acre Seed	cre (500 lbs minimum)
Area I Seed Type lbs/acre	Area II
	Seed Type lbs/acre
<u>KY-31</u> 40	Orchard Grass 15
Alsike Clover 5	Alsike Clover 5
Annual Ryc 15	
Attach: Drawing(s) of road, location,pit and proposed area for land applic Photocopied section of involved 7.5' topographic sheet.	cation.
Plan Approved by: Daniel Management	
Comments: present of mulch all c	ent area no less the 2 for
per acu mandair all CVS	dusing operation
Title: oil dgas enspielor	Date: 3-27-K/
Field Reviewed? (//) Yes (

• • • •







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 12, 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: Gregg Heirs M2, Ritchie County, West Virginia

Dear Justin:

Please find enclosed a New Well Application for the Gregg Heirs M2, 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

MAY 1 4 2014

Enclosures

Office of Oil and Gas
WV Dept. of Environmental Protection