

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

February 11, 2014

WELL WORK PERMIT

Rework-Secondary Recovery

This permit, API Well Number: 47-3304878, issued to HG ENERGY, LLC, 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: HIRAM LYNCH NO. 106

Farm Name: TURNER, DAVID & SANDRA

API Well Number: 47-3304878

Permit Type: Rework-Secondary Recovery

Date Issued: 02/11/2014

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-3B 10/07



-	1) Date		I	ecember 9	, 201	3 -
	2) Operator's Well	No.	I	Iiram Lyn	ch No	. 106
	3) API Well No.	47	-	033	-	4878
		State		County		Permit
	4) UIC Permit No.		τ	IIC2R0330	1AP	

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

) WELL 1	TYPE:	Liqui	The state of the s	_	_	Gas Injection			Wast				
) LOCAT	ION:	Elevation			<u> </u>		rshed		dism Run				
	Distric	t	Tenmile	00	Count	y Harris	on 33	>	Quadrangle	e Wo	lf Summit	7.5'	692
) WELL (OPERATOR:		rgy, LLC		494497948	8) DES	IGNATE	D AGENT		Mike Kirse	ch		
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		Parkers	burg, WV	26101		<u> </u>			, i.e.	Parkersbu	rg, WV 26	101	
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		s PO Box				=			To Be Determ	ined Upon	Permit App	roval	
	Addres		non, WV	26201		4		Address					
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1) PROPOS	SED WELL W	ORK:	Drill		Old Formation	Drill Deeper	Porforato	Redrill New Form		Stimulate	X Convert		
				-		Well (specify)	eriorate	new rorm	-		Convert	-	
e) Geologic	al target form	ation		Fifth		Depth		2,740	Ft. (Top) to		2,751	Et (Bot	ttom)
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5) Approxi	mate coal sear	n depths:		_	410) 1	řt.					12	12516
3) Is coal b	eing mined in	the area?			Yes	_	X	_ No				1	en DC
7) Virgin re	eservoir press	ure in targ	et formati	ion:		60		psig.	Source		Estimate	d ,	
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s) Estimate	ed reservoir in	acture bre	Course			1200		Land.					
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State of West Virginia Division of Environmental Protection Section of Oil and Gas

		Well Operator's	Report of W	ell Work		
Farm name:	TURNER, D	AVID & SANDRA	Operator W	ell No.: H	IRAM LYNCH 1	106
LOCATION:	Elevation:	1.118'	Quadrangle	: WOLF	SUMMIT 7.5'	
	District: Latitude: Longitude:	TEN MILE 4,325 Feet south of 11,725 Feet west of	39 Deg	27 Min	30 Sec. 30 Sec.	
Company:	P.O. BOX 5	OURCES, INC. 519 VV 26105-5519	Casi tubi Siz	ng		Cement Fill Up Cu. Ft.
Agent:	PHILIP S. C	NDRUSEK				
Inspector: Permit Issued: Well work Con Well work Con Verbal plugging	npleted:	08/02/07 02/12/08 04/16/07				
permission gran Rotary X Total Depth (fe	_ Cable et)	Rig	7'	450)' 450'	110 sks
Fresh water dep		NA NA	4 1/	2" 2870	2870.8'	150 sks
Salt water depti	ns (ft)	<u>NA</u>				
Is coal being m Coal Depths (ft		Y/N) NA N				
OPEN FLOW	DATA	* WATERFLOOD INJI	ECTOR			
Produc	cing formation				ne depth (ft)	2740'-2751' * Pb//d
Gas:	Initial open Final open f		MCF/d Oil: MCF/d	Initial open Final open 1		* Bbl/d * Bbl/d
	Time of or	pen flow between initial a			Hou	
Static	rock pressure	I	psig (surface	pressure)	after	Hours
Second	d producing fo	ormation			ne depth (ft)	
Gas:	Initial open	flow		Initial open		Bbl/d
	Final open f			Final open :	flow Hou	Bbl/d
Static	Time of og rock pressure	pen flow between initial a	and final test psig (surface	s pressure)	after	us Hours
NOTE: ON BACK	ζ OF THIS FOR NG. PHYSICAL	M, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELL L FORMATIONS, INCLUDING	DETAILS OF L	PERFORATE IS A SYSTE	D INTERVALS, FR	AN 8 2014 AN 8 2014 and Gas protection Office of Oil and Oil and Gas protection Office of Oil and Oil a
		For: EAST I	RESOURCES	, INC//		AN and Gas Protecti
		By:		//Cps	(Clo-	- Ce of Oil & menu
		Date:			41 408	Office Eury
					'n,	√002/14/2014

Treatment:

Treated perforations, 2740'-2750', w/ 500 gals 15% HCl.

Well Log:	0	174	Sand and Shale
	174	199	Sand
	199	215	Shale
	215	283	Sand
	· 283	418	Shale
	418	427	Sand
	427	550	Shale
	550	562	Sand
	562	1144	Shale
	1144	1208	Sand
	1208	1508	Shale
	1508	1530	Sand
	1530	1628	Shale
•	1628	1647	Sand
	1647	1693	Shale
	1693	1710	Sand
	1710	1726	Shale
	. 1726	1740	Sand ·
	1740	1780	Shale
	1780	1870	Big Lime
	1870	1916	Big Injun
	1916	2334	Shale
	2334	2345	Sand
	2345	2432	Shale
	2432	2450	Sand
	2450	2460	Shale
	2460	2529	Sand
	2529	2538	Shale
	2538	2570	Sand
	2570	2740	Shale
	2740	2751	Fifth Sand
	2751	2900	Shale
	2900		TD

Peccity 3d

Wy Dept of Environmental Protection

WW-3A 10/07

5) Surface Owner(s) To Be Served

Name

David & Sandra Turner



1) Date:		December	9, 2013	
2) Operator's We	ll No.	Hiram Ly	nch No.	106
3) API Well No.	47	033	=	4878
	State	County		Permit
4) UIC Permit N	0.	UIC2R033	301AP	

NA

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

7 (a) Coal Operator

Name

	P. O. Box 402	V		4.1.1		
Address_	Lumberport, WV 26386 26386	_		Address		
(L) N	Kenneth & Deborah Gaskins	1	7 (6)	Coal Owners	s) With Declaration Of Record	
(b) NameAddress	49 Chandler Drive		7 (0)	Name	NA	
Address_	Shinnston, WV 26431			Address	NA .	
(A) Massa	Earl & Belva Junkins	./		Address		
(c) Name _	515 Still House Road	V		Name	NA	
Address	Salem, WV 26426			Name	NA	
-				Address		
	Salem, WV 26426		=			
6) Inspector_	Sam Ward		7(c)	Coal Lessee W	With Declaration Of Record	1
Address	PO Box 2327			_	Wolf Run Mining	٧
	Buckhannon, WV 26201	_			2708 Cranberry Square	
Telephone	389-7583				Morgantown, WV 26505	
TO THE PERS	ON(S) NAMED ABOVE: You sh	ould have	rece	ived this fo	orm and the following docum	nents:
The date propose THE REASON YO WHICH ARE SUN ARE NOT REQUI Take notice that und Application and acco Environmental Prote WW-6. Copies of this	out the plan for erosion and sedimented for the first injection or waste dis DU RECEIVED THESE DOCUMENTS I MMARIZED IN THE "INSTRUCTIONS" RED TO TAKE ANY ACTION AT ALL. Her Chapter 22-6 of the West Virginia Code, the Impanying documents for a Well Work Permit ection, with respect to a well at the location des Notice, the Application, the plat, and the Covered by hand to the person(s) named above (of the Chief.	sposal is S THAT YOU ON FORM V The undersigned the with the Chie escribed on the instruction and	J HAV VW-3(well op f of the attach	NA E RIGHTS I A) DESIGNA perator propose Office of Oil a led Application nation Plan ha	REGARDING THE APPLICATION ATED TO YOU. HOWEVER YOU es to file or has filed this Notice and and Gas, West Virginia Department of a and depicted on the attached Form are been mailed by registered or	
	The person signing this document sha	all make the	followi	ing certificati	ion:	
'I certify under pena	lty of law that I have personally examined an	nd am	Well	Operator	HG Energy, LLC	
amiliar with the inf	ormation submitted in this document and all	attachments	Add	ress	5260 Dupont Road V	
	ny inquiry of those individuals immediately re				Parkersburg, WV 26101	as
	ormation, I believe that the information is tru		n		79: 0 W2:	
	ware that there are significant penalties for s		By:		Diane C. White	
alse information, in	cluding the possibility of fine and imprisonme	ent."	Its:		Accountant JAN U 8 ZU14	
Oil and Gas Privacy				ature	Diane Cushit	of oction
he Office of Oil and	Gas processes your personal information, su	ch as name, ad	dress a	and phone num	iber, as a part of our regulatory duties.	

Your personal information may be disclosed to other State agencies or third parties in the 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

02/14/2014

Form WW-9	•• .	. ••	• , •• •	٠٠ .	٠.	•••	••		••		٠٠.		Page	3		of .	·• · · ·	3	•
Rev. 10/94			•								API	Numb	er 47-	033	_		4	§78	
							Op	erato	r's W	ell ì	٧o	I	Iiram	Lynch	No.	106			_

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

Operator HG Energy, LLC OP Code 494497948 Watershed Wizardism Run Quadrangle Wolf Summit 7.5' Elevation 1115' County Harrison District Tenmile Description of anticipated Pit Waste: Fluids encountered in stimulating existing well. Do you anticipate more than 5,000 bbls of water to complete the proposed well work Yes No X Will a synthetic liner be used in pit? Yes Heo, what mil? 20 Mill. Froposed Disposal Method For Treated Pit Wastes: 12/2; X Land Application Underground Injection (UIC Permit Number Rauss (at API Number Off Site Disposal Gupply Form WW-9 for disposal location) Other (Explain) Drilling medium anticipated for this well? Air, freels water, oil based, etc. NA - Hoilbased, what type? Synthetic, petroleum, etc. - Hoilbased, what type? Synthetic, petroleum, etc. - Hedi untings disposal method? Leave in pit, landfull, removed offsite, etc. - Hedi in pit and plan to solidify, what medium will be used? Gement, lime, sawduct Native soil, cement, lime - Landfill or offsite name/permit number? I certify that I understand and agree to the terms and conditions of the GENERAL WAYEER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Envisonmental Protection. I understand that the provisions of the permit are enforcable by law. Violations of any term or condition of the general permit and/or other opplicable 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 from and all attachments thereto and thet, 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 penalty of fine of submitting false information, including the possibility of fine or imprisonment. Subscribed and sworn before me this G day of December 2013 Office of Oil and Graph Public Company Official Title Accountant								
Elevation 1118 County Harrison District Tennile Description of anticipated Pit Wastes: Fluids encountered in stimulating existing well. Do you anticipate more than 5,000 bbls of water to complete the proposed well work Yes No X Will a synthetic liner be used in pit? Yos If so, what mil.? 20 Mil. 12(2) X Land Application Underground Injection (UIC Permit Number 10 State API Number 10 Offsite Disposal Gouphy Form WW-9 for disposal location) Other (Explain 10 Other (Explain	Operator	HG Energy	, LLC		. (OP Code	494497948	
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Company Official Title Accountant Subscribed and sworn before me this G day of December 20/3 Office of Cill and Company Official Title Notary Public JAN 0 8 2014 NOTARY PUBLIC COMMENT FROM TINAL RETHELL HGENERGING FROM TINAL RETHELL HGENERGIN	Company O	fficial Signature		Diane Cl	White			
Subscribed and sworn before me this G day of December 2013 Office of Cill and C Notary Public JAN 0 8 2014 My commission expires OFFICIAL SEAL OFFICIAL SEA	Company O	fficial (Typed Name)	D.	iane C. White				
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My commission expires OFFICIAL SEAL OFFICIAL SEAL		·) /1	OZ Fe	US		lotary Publ	ic IAM A 9	2014
Form WW-9 NOTARY PUBLIC CONTINUE STATE-OF WEST, VIRGINIA FIOT TINAL RETHEL. HGERRY, LIC 5260 @unout Road	•	· · · //2	3 12 mi	\$	Vendorono		JAN 00	2017
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Parkersburg, West Virginia 2610 M. Commussion Expires Nov. 12, 2	Form WW-9					TINA L. HG En	RETHTEL. Brgy, LLC Broot-Road	
								00/4 4

Property Boundary

Road

Legend

Diversion

Spring

Existing Fence	xxx	Wet Spot	
Planned Fence	—/——/——/—	Drain Pipe ————————————————————————————————————	
Stream		Waterway (>> (>> (>>	
Open Ditch		Cross Drain	
	20000	Filter Strip	
Rock	000000	TITLE TO THE TOTAL TO THE TOTAL TOTA	
	- · · · · · · · · · · · · · · · · · · ·	Pit: Cut Walls	
North	N_	Pit: Compacted	
Buildings		Fill Walls	
Water Wells	W	Area of Land	
Drill Site	\oplus	Application of Pit Waste	
	i produktura i pro		J
	Aı	rea I	
Proposed Revegetation Treatment:	-		
		rea II	
	Approx.	. 0.2 Ac.	
Lime	2 Tons/Acre or C	Correct to pH 6.5	
	10-20-20 or Equivalent) 5	00 Lbs./Acre (500 lbs. Minimum)	
Mulch	Straw 2 Tons/A	Acre	
	SEED M	IXTURES	
Seed Type	Location)_ Lbs/Ac.	Seed Type Area II (Road) Lbs/Ac.	
Tall Fescue	40	Tall Fescue 40	
Ladino Clover	5	Ladino Clover 5	
-			noir
			and dial Projection
Attach:		JAM ON	anonial
Drawing(s) of road, location, pit an		n nego danif	n.
Photocopied section of involved 7.5	5' topographic sheet.	n Office of Child	
	1 0		
Plan approved by:	- D Warrall	Michael D. Daff	
Comments: Upg co	ale Ets as nece	essary per WU DEP EXS Manual	_
Title:	Gas Inspedor	Date: 12/23 /2013	
Field Reviewed? BOSIN 78.	-/		
JETHIJ	IQ (April) Yes	(X) No	
beefit?			

Reclamation Plan For:

Hiram Lynch No. 106

47-033-4878

Frac Permit 12/6/2013

NOTE

REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPS CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

0.9 Mi. to

(A)

SLS (31)

Begin New Road

Construction

(See Attached Detail for Access Road to County Road)

100' of 10% Grade

David & Sandra Turner - Surface Owner

106

4878

Hiram Lynch Lease

RECEIVED
Office of Oil and Gas

JAN 0 8 2014

WV Department of Environmental Protection

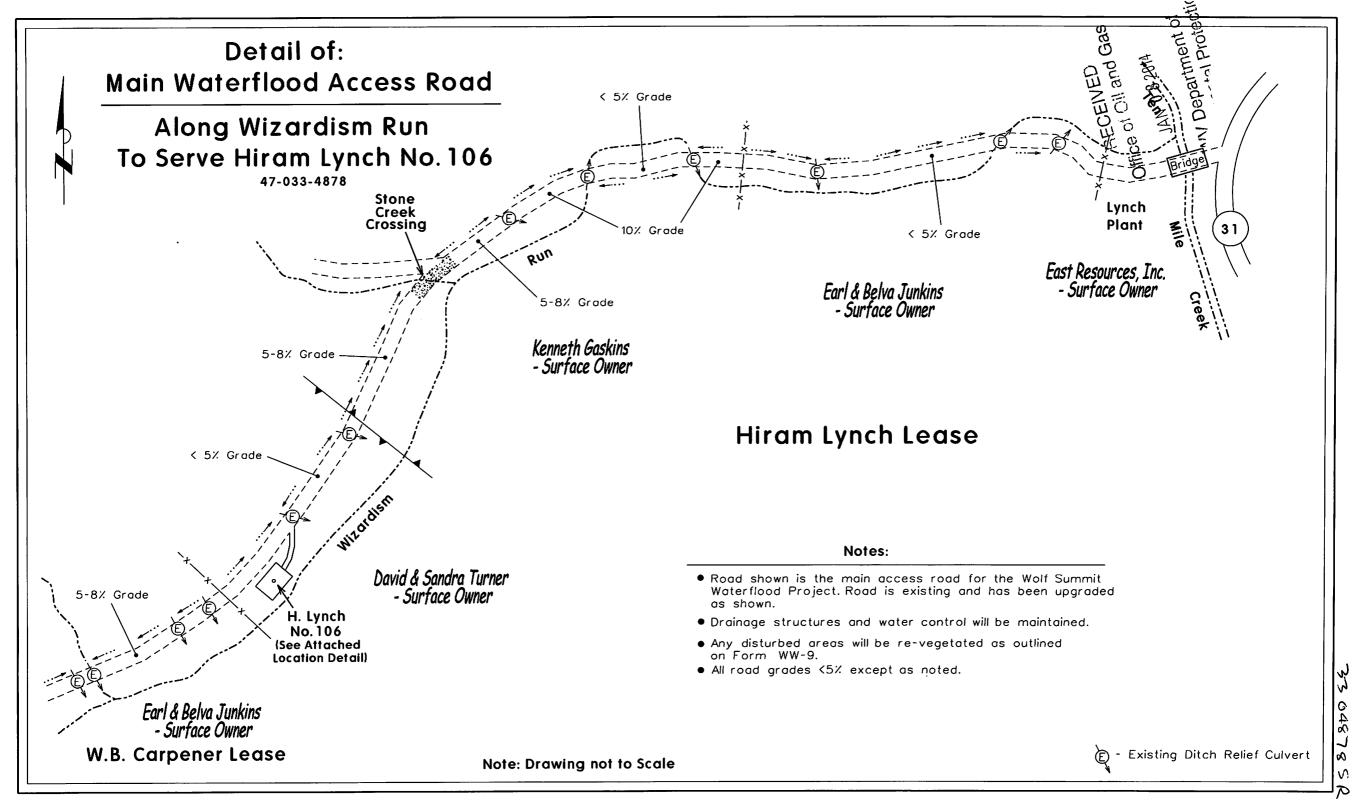
NOTE:

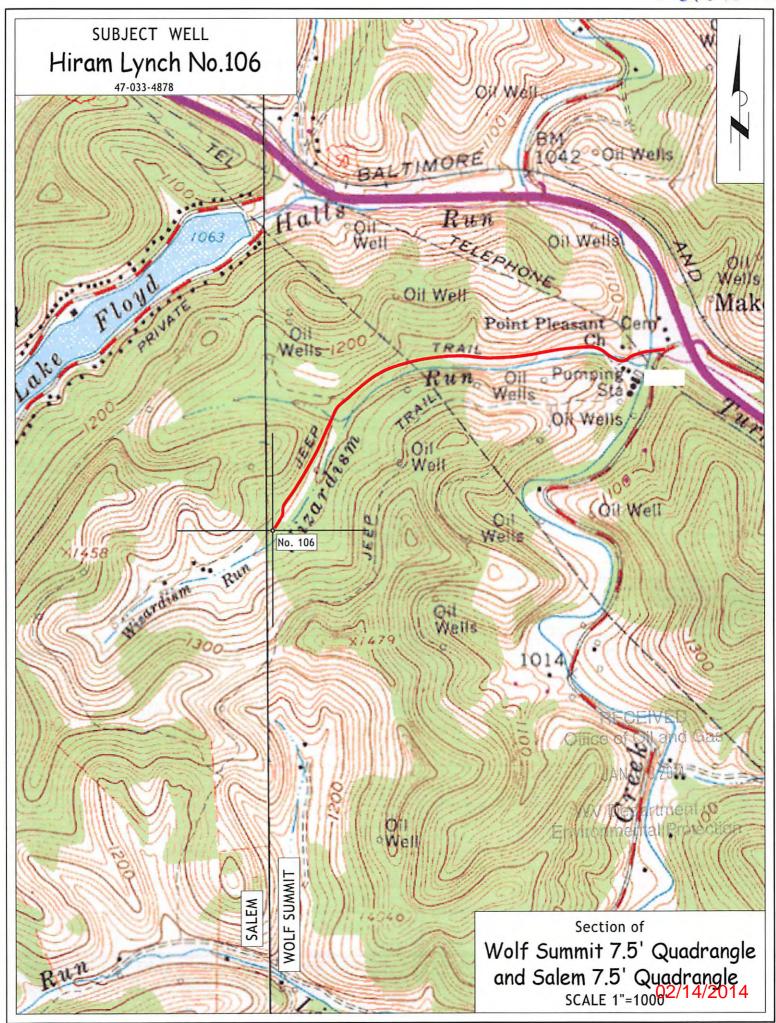
WELL LOCATION WAS BUILT AND RECLAIMED UNDER / DRILLING PERMIT NO.47-033-4878, ONLY MINIMAL EARTHWORK WILL BE REQUIRED FOR PROPOSED WELL WORK. ALL DISTURBED AREAS WILL BE RE-VEGETATED AS PER THE SEEDING PLAN ON FORM WW-9. A SMALL WORKOVER PIT WILL BE CONSTRUCTED TO CONTAIN ANY FLUIDS RECOVERED DURING PROPOSED WELL WORK.

Notes:

- Requested permit is for stimulation of existing well.
- Access road from Co. Rd. 31 to location is existing. Structures will be maintained.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.

Note: Drawing not to Scale





DESIGNATED AGENT

ADDRESS

5260 DuPont Road

Parkersburg, WV 26101

WELL OPERATOR

ADDRESS

5260 DuPont Road

Parkersburg, WV 26101