

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

November 05, 2013

WELL WORK PERMIT

Rework-Secondary Recovery

This permit, API Well Number: 47-3304879, 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.

Chief

Operator's Well No: HIRAM LYNCH 109

Farm Name: JUNKINS, EARL & BELVA

API Well Number: 47-3304879

Permit Type: Rework-Secondary Recovery

Date Issued: 11/05/2013

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-3B 10/07



1) Date	441	S	September	16, 2	013
2) Operator's Wel	l No.	F	Iiram Lyn	ch No	o. 109
3) API Well No.	47	-	033		4879
-	State		County		Permit
4) UIC Permit No		τ	JIC2R0330	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

5)	WELL TYPE:		Liquid	d Injection	X	_	Gas Injection	on (not storag	ge)	Wast	e Disposal	l	
6)	LOCATION:		Elevation	1058			W	atershed	Wizai	rdism Run			
		District	t	Tenmile	00	Cou	ntyHai	rrison 37	3	Quadrangle	Wo	lf Summit	7.5' 647
7)	WELL OPER	ATOR:	HG Ener	gy, LLC		4944979	048 8) D	ESIGNATEI	AGENT	r: 1	Mike Kirso	ch	
				pont Road							5260 Dupo		+
			Parkersl	ourg, WV 2	26101					I	Parkersbu	rg, WV 26	5101
9)	OIL & GAS II	NSPECT	OR TO BE	NOTIFIE	D:		10)	DRILLING O	CONTRA	CTOR:			
			Sam Wa						Nam	e To Be Determ	ined Upon	Permit App	oroval
		Address	PO Box 2						Addres	ss			
			Buckhan	non, WV 2	26201								
11)	PROPOSED V	WELL W	ORK:	Drill	-		Drill Deep		Redri		Stimulate		
						old Format		Perforate I	New Form	nation		Convert	
				Other			in Well (specify						
12)	Geological tar	get forma	ation		Fifth	Sand	Dep	th	2,645	Ft. (Top) to		2,660	Ft. (Bottom)
13)	Estimated dep	pth of con	npleted we	ell (or actu	al dept	th of existi	ng well)		2760'	I	řt.		
14)	Approximate	water str	ata depth	s:	Fresh		200	Ft.		Salt_	1,70	00	Ft.
15)	Approximate of	coal seam	depths:				315	Ft.					< DW
16)	Is coal being n	nined in t	the area?			Ye	es	X	No				50W
17)	Virgin reservo	oir pressu	re in targe	et formation	on:		60		psig.	Source		Estimate	ed ed
18)	Estimated res	ervoir fra	acture pres	ssure:			1200		psig.	•			
19)	MAXIMUM P.	ROPOSE	D INJEC	TION OPE	CRATIC	ONS:	Volume per hou	ır 25 bbl/hr		Bottom Hole	Pressure	24	100 psi
20)	DETAILED II	DENTIFI	CATION	от мате	RIALS		JECTED, INC		— DITIVES	and the same of the			
20)	and other cher	micals as	needed to	maintain	water	quality an	d improve oil re	ecovery.	DIIIVE	rresn wa	ter, produ	cea water	, bactericides
21)	FILTERS (IF	ANY)		Cartridge	filters	and/or co	al bed filters						
22)			CATHOL				THER CORRO	SION CONTI	ROT.				
	DI L'OII IOIII	10111 01	01111101	orormor	LOTTO	TVIII O	THER COLIC	DION CONTI	ЦОП			_	
23)	CASING AND	TUBING	G PROGR	AM									
CYG.	ING OR		CDECH	FICATION	TC		EOOTA CE	INTERVALS		CEMENT I	TIT TID	DA	OZZZDO
	ING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left in	Well	OR SACKS		10.10.00	CKERS
	uctor	5.50	Circus	1,018.11		0000	101 21111119		,,,,,,	THE STATE OF THE S	OE I	Kinds	
	n Water	7"	LS	17#	X		386'	386'		Use Existing	Oil al	Tension)
Coal						E B				Casing		Sizes	
Inter	mediate									001	0 770	2.375" X	4.5"
Prod	uction	4 1/2"	ST&C	10.5#	X		2738'	2738	8'	Use Existing	5	Depths S	Set
Tubii	ng	2 3/8"	J-55	4.6#	X		2545'	2548	5'	Casing - 150	sks	2445'of	
Liner	's											Perforati	ions
										HVIIOEHH	Gillain	Top :	Bottom
	1												
- 0	APPLICANTS	OPERA'	TING RIG	HTS were	acquir	red from	Hiram J	. Lynch et ux					
24)			-	**								1000	V
24)	by Deed		Lease Harrison	X		ther Contr y Clerk's C		Dated	Janua Book	ry 19, 1899	t Page	of record	in the

3704879 RS

API# 47 33 4879

State of West Virginia Division of Environmental Protection Section of Oil and Gas

COPY

Well Operator's Report of Well Work

	Farm name:	JUNKINS, E	EARL & BELVA	One	erator Wel	Mo. IIID	111777	
	LOCATION:	Elevation:	1,053'		idrangle:		AM LYNCH 1	09
		District: Latitude: Longitude:	TEN MILE 2,525 Feet south of 9,150 Feet west of	Cou 39		RRISON Min 30	JMMIT 7.5' Sec. Sec.	
	Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing/ tubing	Used in	Left	Cement Fill Up
	Agent:	PHILIP S. ON			Size	Drilling	in Well	Cu. Ft.
	Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	TIM BENNE mmenced: upleted:						
	permission gran Rotary X Total Depth (fee Fresh water dept	ted on: Cable 2	Rig 810' NA		7"	386'	386'	95 sks
	Salt water depths	s (ft)	1700		4 1/2"	2737.8'	2737.8'	150 sks
Z	Gas: Static roc Second p Gas: F T Static roc OTE: ON BACK OF	ATA Ing formation Initial open flow Final open flow Fime of open ek pressure roducing forma nitial open flow Final open flow	# MC flow between initial and psig tion MC	CF/d CF/d final g (surf.) F/d CF/d final g (surf.)	Dil: Initial Final of tests ace pressu Pa Dil: Initial of Final of tests ace pressu rests	ay zone depropen flow pen flow re) afri	Hours th (ft) Hours ter	Bbl/d Bbl/d Hours Bbl/d Bbl/d Bbl/d
G.	R STIMULATING, EOLOGICAL RECO	PHYSICAL CHAI ORD OF ALL FOR	NGE, ETC. 2) THE WELL LO RMATIONS, INCLUDING CO.	G WHI AL ENC	OF PERFOR CH IS A SY COUNTERE	ATED INTER STEMATIC I D BY THE W	RVALS, FRACTU DETAILED ELLBORE.	JRING
			For: EAST RESO By: Date:	OURC	ES, INC.	Rgh 4	Geldn	

Treatment:

Treated perforations (2646'-2659') w/ 500 gals.15% HCl.

			a 1 100-1-
Well Log:	0	140	Sand and Shale
	140	160	Sand
	160	294	Shale
	294	305	Sand
	305	618	Shale
	618	640	Sand
	640	752	Shale
	752	772	Sand
	772	821	Shale
	821	836	Sand
	836	844	Shale
	844	862	Sand
	862	927	Shale
	927	953	Sand
	953	1022	Shale
	1022	1096	Sand
Mr	1096	1114	Shale
<u></u>	1114	1126	Sand
• '	1126	1286	Shale
	1286	1312	Sand
	1312	1324	Shale
	1324	1342	Sand
	1342	1596	Shale
	1596	1612	Sand
	1612	1628	Shale
	1628	1644	Sand
	1644	1678	Shale
	1678	1750	Big Lime
	1750	1810	Big Injun
	1810	2232	Shale
	2232	2250	Sand
	2250	2338	Shale
	2338	2347	Sand
(** 	2347	2384	Shale
.: *	2384	2436	Sand
•	2436	2446	Shale
	2446	2480	Sand
	2480	2645	Shale
	2645	2660	Fifth Sand
	2660	2810	Shale
	2810		TD
•			

WW-3A 10/07



1) Date:		September	September 16, 2013					
2) Operator's We	ell No.	Hiram Ly	nch No	. 109				
3) API Well No.	47	033	÷	4879				
	State	County		Permit				
4) UIC Permit N	o.	UIC2R033	301AP					

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

5) Surface Owner(s) To Be Served	7 (a) Coal Operat	or
(a) Name Earl & Belva Junkins	Name	NA
Address RR 5, Box 1226	Address	****
Salem, WV 26426		
(b) Name	7 (b) Coal Owner	(s) With Declaration Of Record
Address	Name	NA
	Address	
(c) Name		
Address	Name	NA
	Address	
	<u> </u>	
6) Inspector Sam Ward	7(c) Coal Lessee	With Declaration Of Record
Address PO Box 2327		Wolf Run Mining
Buckhannon, WV 26201	_	2708 Cranberry Square
Telephone 389-7583	-	Morgantown, WV 26505
The date proposed for the first injection or waste disposal is THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU VHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM VEHICLE OF THE THE THAT AND A STRUCTIONS."		
ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.		
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned application and accompanying documents for a Well Work Permit with the Chie Chvironmental Protection, with respect to a well at the location described on the VW-6. Copies of this Notice, the Application, the plat, and the Construction and certified mail or delivered by hand to the person(s) named above (or by publicational or delivery to the Chief.	ef of the Office of Oil e attached Application I Reclamation Plan I	and Gas, West Virginia Department of on and depicted on the attached Form nave been mailed by registered or
The person signing this document shall make the	following certifica	tion:
I certify under penalty of law that I have personally examined and am amiliar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible or obtaining the information, I believe that the information is true, accurate	Well Operator Address	HG Energy, LLC 5260 Dupont Road Class Parkersburg, WV 26101
nd complete. I am aware that there are significant penalties for submitting	By:	Diane C. White
alse information, including the possibility of fine and imprisonment."	Its:	Accountant
		VVV Department of
	Signatura	Environmental Protection

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 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

WW-2B1

Well No. H	iram Lync	h No.	109
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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:

X Contractor Name	Sturm Environmental Services	
Well operator's	private laboratory	
Well Operator	HG Energy, LLC	
Address	5260 Dupont Road	
	Parkersburg, WV 26101	
Telephone	304-420-1119	

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 underlining 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.

No known Water Supply Sources are located within 2000' of proposed well.

RECEIVED
Office of Oil and Gas

OCT 072013

WV Department of Environmental Protection

Form WW-9.	- 3.	-	 - 4	 - :	100	1.			٠,	Page	3	of		.3	
Rev. 10/94								API	Num	ber 47-	033	-		4879	
					Ope	rator's	Well	No.		Hiram I	ynch !	No. 109)		

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

_	HG Ene	ergy, LLC		0	P Code	494497948
Watershed		ism Run		Quadrangle	Wolf St	ımmit 7.5'
Elevation	1058'	County	Harrison	District		nmile
Description of a	anticipated Pit Waste:	: Fluids encount	ered in stimulating	existing well.		
Do you anticipa	te more than 5,000 b	bls of water to comple	te the proposed well w	ork Yes	No	X
Will a synthetic	liner be used in pit?	Yes	If so, what mil.?	20 Mil.	1	
Proposed Dispo	sal Method For Treat	ed Pit Wastes:			-	-1
2	X Land App					SDCO
	Undergro	ound Injection (UIC P	ermit Number			10/2/2013)
_	The state of the s	t API Number		Aut -)
_	Off Site I Other	Disposal (Supply Forn (Explain	n WW-9 for disposal lo	cation)		
				107)
		well? Air, fresh wate ? Synthetic, petroleur		NA		
Additives to be		soap, KCI	n, etc.		797	
	the second second	e in pit, landfill, remo	oved offsite, etc.			
- I	f left in pit and plan t	to solidify, what medi	um will be used? Cem	ent, lime, sawdust	Native	soil, cement, lime
- I	andfill or offsite nam	ne/permit number?	Walter Company	_		
applicable law o				rtment of Environmen r condition of the gene		
I c this application for obtaining the	r regulation can lead ertify under penalty o form and all attachm e information, I believ	to enforcement action of law that I have persents thereto and that we that the information	ı. sonally examined and , based on my inquiry	r condition of the gene am familiar with the i of those individuals im I complete. I am aware	ral permit nformation imediately	and/or other submitted on responsible
I c this application for obtaining the	r regulation can lead ertify under penalty of form and all attachm e information, I believ omitting false informa	to enforcement action of law that I have per ents thereto and that we that the information ation, including the position,	n. sonally examined and , based on my inquiry n is true, accurate and	r condition of the gene am familiar with the i of those individuals im I complete. I am aware risonment.	ral permit nformation imediately	and/or other submitted on responsible
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2.	W	MY_BACK	
		·· Legend	•
		- -	
Property Boundar	y A A	Diversion	
. Roa	d =========	Spring	○ →
Existing Fenc	c —x——x——x—	Wet Spot	\tag{\tau}
Planned Fenc	e//_	Drain Pipe	
Stream	m -7 -7	Waterway	\leftrightarrow \leftrightarrow \leftarrow
Open Dite	h>	Cross Drain	
Roc	0.00000	Filter Strip	XXXXXXXXX
en en en en	D-0 U	Pit: Cut Walls	
. Nor	h N	,	
). Buildings	· ,	Pit: Compacted Fill Walls	
Water Wells	\sim		7777
Drill Site		Area of Land Application	(2) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Dill Sin	· U	of Pit Waste	
		Ārea I	
Proposed Revegetation Trea			vegetation pH
		Aréa П ох. 0.2 Ac.	
	Appro	0.2 110.	
Lim	2 Tons/Acre o	r Correct to pH 6.5	
er e c	lizer (10-20-20 or Equivalent)	500 Lbs./Acre (500)	lbs. Minimum)
Mul	ch Straw 2 Tons	s/Acre	
•	SEED I	MIXTURES	
			Area II (Road)
	ea I (Location) Lbs/Ac.	Seed Type	Lbs/Ac.
Seed Type Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	. 5
Attach:	n, pit and proposed area for land applica	ation	
Photocopied section of invo	olved 7.5' topographic sheet.		
Plan approved by:	S & D Wondell		
Comments:			
. 1 1	<mark>સુંદેશ ત્રિકેશ તાલુકો કે કુજ્યાં મુખ્ય લા</mark> તા કું કુંકા (૧૯૦૬) ન તે કર્યું. ભાગમાં કે તે મ્યું કુંકામાં ઉપયોગ (૧૯૭૧ રાષ્ટ્ર કુંકાર (૧૯૬૬)	949443 A. C.	
Title:	11 4 Gas Taspectol		Date: 10/2/2013
		(14)	No
Field Reviewed?	() Yes		110
	≱ing sententysk est et in som kommunikation in de skale Est et sylvet i de skilete som kommunikation i de skileter som kommunikation i de skileter som kommunikation i Est et skileter i de skileter som kommunikation i de skileter som kommunikation i de skileter som kommunikatio		

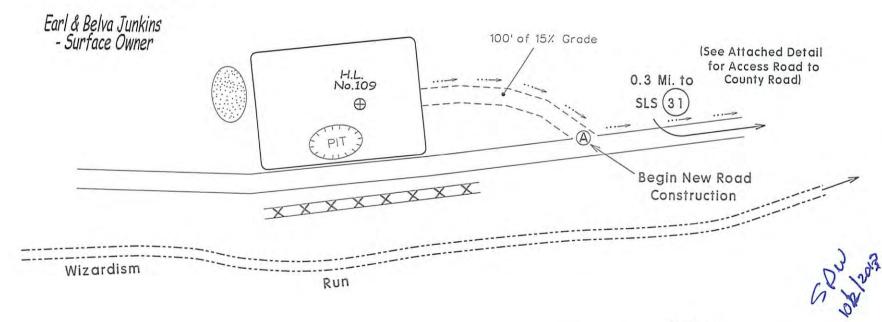


Reclamation Plan For:

Hiram Lynch No. 109

(47-033-4879) Frac Permit 9/3/2013 NOTE:
WELL LOCATION WAS BUILT AND RECLAIMED UNDER
DRILLING PERMIT NO.47-033-4879: 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.

Hiram Lynch Lease



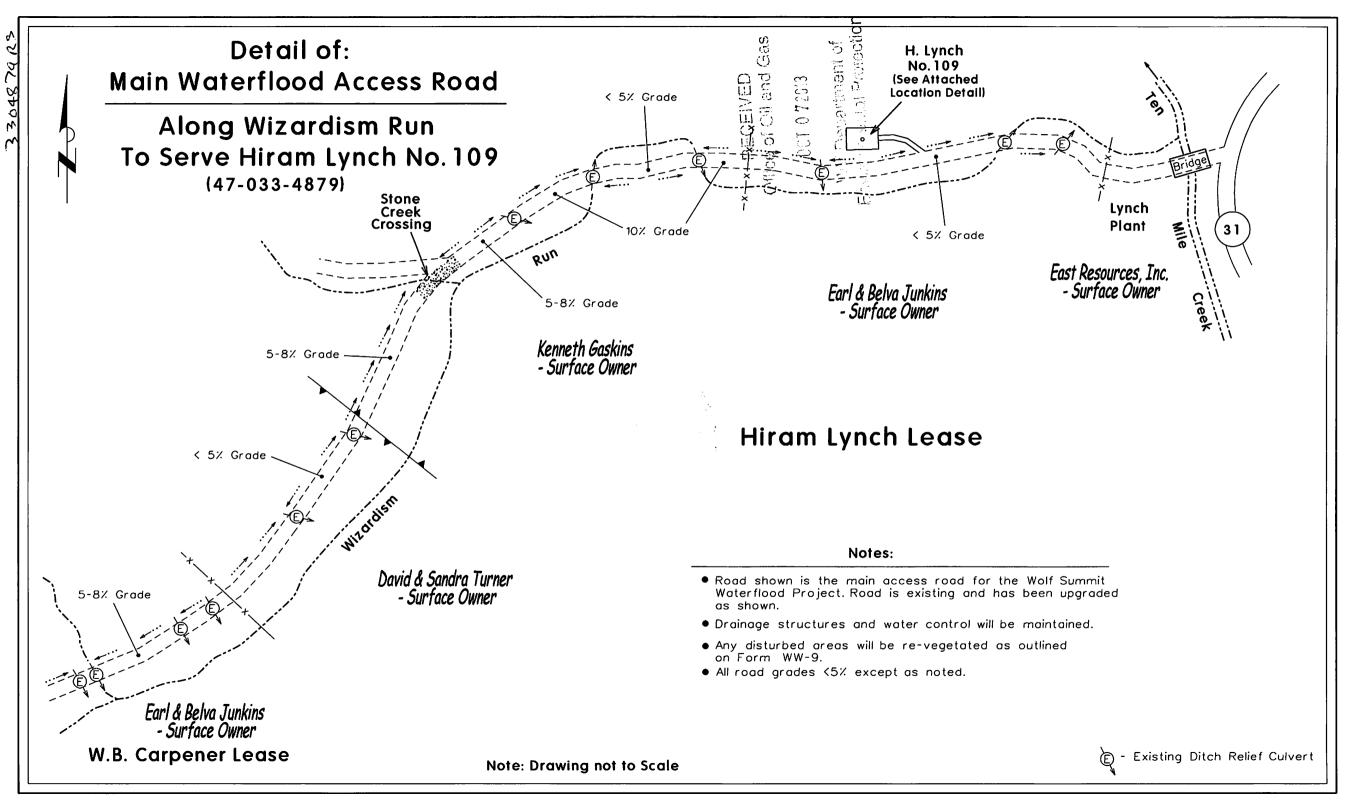
NOTE

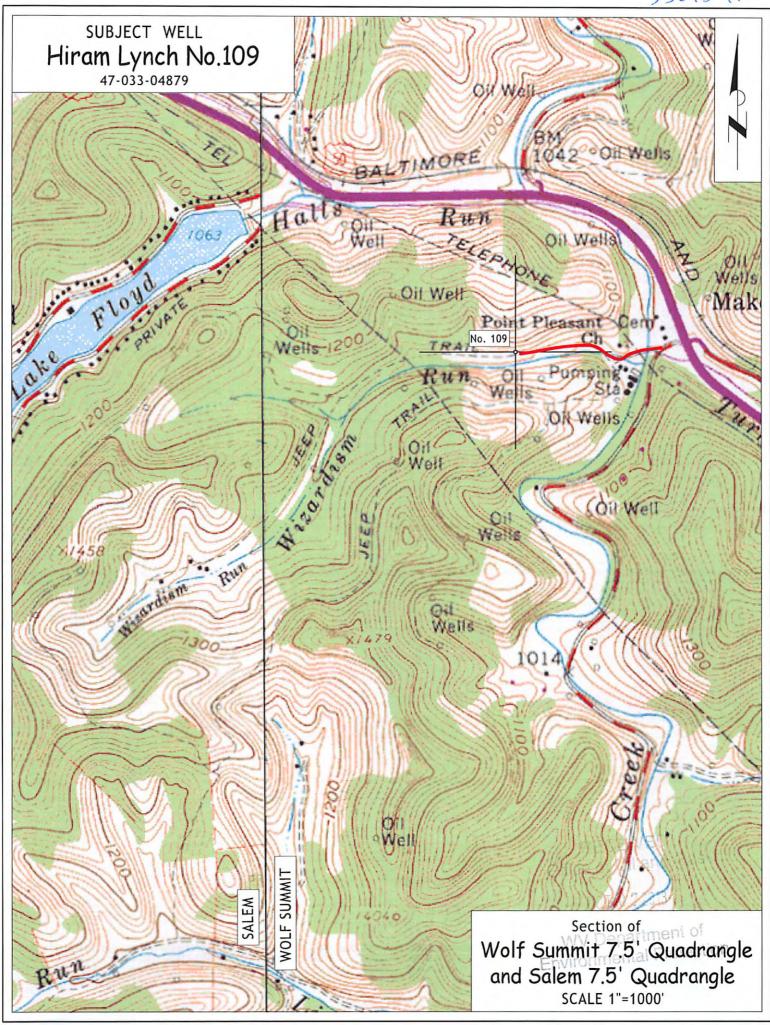
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPS CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

Note: Drawing not to Scale

Notes:

- Requested permit is for drilling of new wells.
- Access road from Co. Rd. 31 to Pt. (4) 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.
- All road grades <5% except as noted.
- Location of drill pit may be changed based on as-built considerations.





S-VI MOOT



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax



September 16, 2013

Mr. Jeff McLaughlin Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

Hiram Lynch No. 109 (47-033-4879) RE:

Tenmile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, Mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above-captioned liquid injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane C. White

Enclosures

cc:

Earl & Belva Junkins - Certified

Wolf Run Mining - Certified

Sam Ward - Inspector

Diane Cultite

RECEIVED Office of Chi and Gas

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WV Department of Environment inclection