

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 07, 2013

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305746, 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 #139

Farm Name: JUNKINS, EARL & BELVA

API Well Number: 47-3305746

Permit Type: Secondary Recovery Well

Date Issued: 06/07/2013

WW-3B 10/07



1) Date		A	pril 15, 2	2013	
2) Operator's Well	No.	F	liram Ly	nch No.	139
3) API Well No.	47	0	033	114	
·	State		County		Permit
4) UIC Permit No		I	IIC2R03	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

WELL TYPE:		Liquid I	njection	X		Gas Injection (BC)	Waste Dis	poour_	
	Tar		1307'			Water	rshed	Wizard	ism Run		
LOCATION:	District	levation_	Tenmile	_	Coun				Quadrangle	Sa	lem 7.5'
70000	. 19.53 b -		7.4.4		49449794	8 8) DES	IGNATE	D AGENT:	Mike	Kirsch	(-
WELL OPERA		IG Energy 5260 Dupo			43443134	0,220			5260	Dupont	Road
			rg, WV 26	101		-			Parke	ersburg	WV 26101
OIL & GAS IN	- C		1.57			10) DR	ILLING	CONTRAC	TOR:		~
OIL & GAS II		Tristan Je		,.		20,		Name			
	Address I			_		_		Address			
			g, WV 263	02							
) PROPOSED V	WELL WOL	pk.	Drill	х		Drill Deeper		Redrill	Stin	nulate	X
) PROPOSED V	WELL WO	1012.			d Formati	on .	Perforate	New Form	ation		Convert
			Other F	hysica	1 Change	in Well (specify)					
) Geological tar	rget format	ion		Fifth S	and	Depth		3,165	Ft. (Top) to		3,172 Ft. (Botton
		_				ng well)	3225' TV	D 3300' TI	MD Ft.		
SOL SHEET STORY					II OI CAISTI		Ft.		Salt	1,400	Ft.
 Approximate 	water stra	ta depths:		Fresh			,	1		7.6445.2	
5) Approximate	coal seam	depths:			690		Ft.		-		
3) Is coal being	mined in tl	ne area?			Ye	s	X	No No			
and the state of t			t franchis	mi		1.9	250	psig.	Source		Estimated
	our pressur	e in targe	t formatic	11.		1,2	300	-			
7) Virgin reserv				ш.				psig.			
8) Estimated re	servoir fra	cture pres	sure:		NIC.	2,6	350	psig.	Bottom Hole Pr	essure	2,400 psi
8) Estimated res	servoir frac PROPOSEI	cture pres D INJECT	sure: TON OPE	RATIO		2,6 Volume per hour	550 25 BB	psig.	Bottom Hole Pr		
S) Estimated re-	servoir frac	cture pres	sure: TON OPE	RATIO	TO BE IN	2,6	25 BB JDING A	psig.			2,400 psi ed water, bacteric
8) Estimated res 9) MAXIMUM I 0) DETAILED I and other che	servoir frac PROPOSEI DENTIFIC emicals as	cture pres D INJECT CATION C needed to	sure: TION OPE OF MATEI maintain	RATIO RIALS water	TO BE IN quality an	2,6 Volume per hour JJECTED, INCLU	25 BB JDING A	psig.			
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9) MAXIMUM I 0) DETAILED I and other che 1) FILTERS (IF	servoir frac PROPOSEI DENTIFIC emicals as	cture pres D INJECT CATION C needed to	sure: FION OPE OF MATEI maintain Cartridge	RATIO RIALS water filters	TO BE IN quality an and/or co	2,6 Volume per hour JECTED, INCLU d improve oil rec	550 25 BB JDING A overy.	psig. L DDITIVES			
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MAXIMUM I MAXIMUM I DETAILED I and other che SPECIFICAT CASING AN ASING OR UBING TYPE	servoir frace PROPOSEI DENTIFICE DEN	CATHOD CATHOD CATHOD CATHOD PROGRA	Sure: CION OPE DF MATEI maintain Cartridge DIC PROTE AM FICATION Weight	RATIO RIALS water filters ECTIO	TO BE IN quality an and/or co	2,6 Volume per hour JECTED, INCLU d improve oil rec al bed filters THER CORROSI FOOTAGE IN For Drilling	25 BB JDING A overy. ON CON VTERVAL	psig. L DDITIVES	Fresh water,	produc	ed water, bacteric
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B) Estimated res D) MAXIMUM I D) DETAILED I and other che 1) FILTERS (IF 2) SPECIFICAT B) CASING AN CASING OR CUBING TYPE Conductor Fresh Water Coal Intermediate Production Cubing	PROPOSEI DENTIFIC emicals as : 'ANY) FION FOR D TUBING Size 7" 4 1/2" 2 3/8"	CATION Conceded to CATHOD RATHOD RATH	Sure: PION OPE OF MATEI maintain Cartridge OIC PROTE AM FICATION Weight 17# 10.5# 4.6#	RATIO RIALS water filters ECTIO	TO BE IN quality an and/or co. N AND O	Volume per hour IJECTED, INCLU d improve oil rec al bed filters THER CORROSI FOOTAGE IN For Drilling 750' 3300' 3000'	25 BB JDING A overy. ON CON NTERVAL Left 7	psig. L DDITIVES TROL LS in Well 50' 300'	CEMENT FIL OR SACKS (Co	LUP U. FT.)	PACKERS Kinds Tension Sizes 2.375" x 4.5" Depths Set 2900' Perforations

TAJOTARI3

Enviro

WW-3A 10/07



1) Date:		April 15, 2	2013	
2) Operator's We	ll No.	Hiram Ly	nch No	. 139
3) API Well No.	47	033	-	
	State	County		Permit
A) IIIC Pownit N		IIIC2R033	MAD	

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

5) 3	Surface Owner	r(s) To Be Served	7 (a) Coal Operator	
	(a) Name	Earl & Belva Junkins	Name	NA
	Address	RR 5, Box 1226	Address	
	_	Salem, WV 26426		
	(b) Name	David R. & Sandra E. Turner	7 (b) Coal Owner(s) With Declaration Of Record
	Address	PO Box 402	Name	NA
	_	Lumberport, WV 26386	Address	
	(c) Name	Kenneth C & Deborah A Gaskins		
	Address	49 Chandler Drive	Name	
		Shinnston, WV 26431	Address	
	.=	Shinnston, WV 26431		
6)	Inspector	Tristan Jenkins	7(c) Coal Lessee W	ith Declaration Of Record
	Address	P. O. Box 4274		Wolf Run Mining Co.
		Clarksburg, WV 26302		2708 Cranberry Square
	Telephone	552-3874		Morgantown, WV 26505
THE WHICH	REASON YO CH ARE SUM NOT REQUI notice that und ation and acco onmental Prote . Copies of this	ed for the first injection or waste disposal is DU RECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VERD TO TAKE ANY ACTION AT ALL. The Chapter 22-6 of the West Virginia Code, the undersigned impanying documents for a Well Work Permit with the Chief extion, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and wered by hand to the person(s) named above (or by publication the Chief.	WW-3(A) DESIGNA I well operator propose of of the Office of Oil are e attached Application I Reclamation Plan have	EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU es to file or has filed this Notice and and Gas, West Virginia Department of and depicted on the attached Form we been mailed by registered or
		The person signing this document shall make the	following certification	on:
		lty of law that I have personally examined and am	Well Operator	HG Energy, LLC
and th	at, based on m	ormation submitted in this document and all attachments by inquiry of those individuals immediately responsible by inquiry of the thing information is true, accurate	Address	P.O. Box 5519 Vienna, WV 26105
		ware that there are significant penalties for submitting	By:	Diane C. White
false in	nformation, inc	cluding the possibility of fine and imprisonment."	Its:	Accountant
Oil an	d Gas Privacy	Notice	Signature	Dianec White

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 depprivacyofficer@wv.gov have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at:

WW-2B1

Well No.	Hiram	Lynch	No.	139	
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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	e 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.

Susan Junkins RR 2, Box 119A Bristol, WV 26426 Gary & Ruth Ann Kennedy RR 2, Box 119

Bristol, WV 26426

RR2, Box 42 Bristol, WV 26426

John & Brenda Scotchie

Linda Smith Camden-Wyoning, DE 19934

Dennis McAvey RR2, Box 41 Bristol, WV 26426

Form WW-9 Rev. 10/94

	Page	3	of	3
API	Number 47-	033	31.	
Operator's Well No.	Hiram I	ynch l	No. 139	

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

Qual		y, LLC			OF	Code	49449	97948	
Watershed _	Wizardism	Run			Quadrangle	Sale	em 7.5'	596	
Elevation _	1307'	County	Harrison	33	District	Te	nmile	09	
Description of	anticipated Pit Waste:	Fluids encou	ntered in drilling s	hallow we	u				1
Do you anticip	pate more than 5,000 bbls	of water to comp	plete the proposed w	ell worl	Yes	No	X		
Will a synthet	ic liner be used in pit?	Yes	If so, what mil.?	101	Ait ZOMIL	-			
Proposed Disp	osal Method For Treated	Pit Wastes:							
_	X Land Applic		W. Taranan						
	Undergroun Reuse (at Al		Permit Number)
1			rm WW-9 for dispos	al location)		-)
_	Other	(Explain)
Drilling mediu	ım anticipated for this we	ll? Air, fresh wa	ter, oil based, etc.	Air, Fre	sh Water				
	If oilbased, what type? S	ynthetic, petrole		NA					
Additives to be		* *							
	disposal method? Leave in If left in pit and plan to s			0	I I N		- Service of the	14.000	_
	Landfill or offsite name/p		dium will be used?	Cement, Im	ie, sawdust _N	itive soil	, cement	, lime	_
applicable law I	ions of the permit are enf or regulation can lead to certify under penalty of la	orceable by law. enforcement act aw that I have p	Violations of any te ion. ersonally examined	rm or condi and am fan	iliar with the ir	al permit	and/or of	ther ed on	
applicable law I this application or obtaining the	tions of the permit are enf or regulation can lead to certify under penalty of land in form and all attachment the information, I believe to abmitting false information	orceable by law. enforcement act aw that I have p as thereto and th hat the informa	Violations of any terion. ersonally examined eat, based on my inquition is true, accurate possibility of fine or	and am fam airy of those and compl imprisonm	tion of the gener ulliar with the in e individuals im ete. I am aware ent.	ral permit formation mediately	and/or of n submitte responsi	ther ed on ble	
applicable law I this application for obtaining the penalties for su Company Off	tions of the permit are enf or regulation can lead to certify under penalty of land form and all attachment the information, I believe to ubmitting false information	orceable by law. enforcement act aw that I have p as thereto and th hat the informa	Violations of any terion. ersonally examined eat, based on my inquition is true, accurate possibility of fine or Diane C	and am fam airy of those and compl imprisonm	tion of the gener ulliar with the in e individuals im ete. I am aware ent.	ral permit formation mediately	and/or of n submitte responsi	ther ed on ble	
applicable law I this application for obtaining the penalties for su Company Off	tions of the permit are enf or regulation can lead to certify under penalty of land in form and all attachment the information, I believe to abmitting false information icial Signature icial (Typed Name)	orceable by law. enforcement act aw that I have p as thereto and th hat the informa	Violations of any terion. ersonally examined eat, based on my inquition is true, accurate possibility of fine or	and am fam airy of those and compl imprisonm	tion of the gener ulliar with the in e individuals im ete. I am aware ent.	ral permit formation mediately	and/or of n submitte responsi	ther ed on ble	
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applicable law I this application for obtaining the company Off Company Off Company Off Company Off Company Off	tions of the permit are enfor regulation can lead to certify under penalty of lands of the certify under penalty of lands of the control of the control of the certify and submitting false information in the certification of the certificatio	orceable by law. enforcement act aw that I have p is thereto and th hat the informa in, including the	Violations of any terion. ersonally examined at, based on my inquition is true, accurate possibility of fine or Diane C. White Accountant	and am fam airy of those and compl imprisonm	tion of the generalist with the interest of the general state of the gen	ral permit formation mediately	and/or of a submitter responsion are sign	ther ed on ble	3
applicable law I this application for obtaining the penalties for su Company Offi Company Offi Company Offi	tions of the permit are enfor regulation can lead to certify under penalty of lands of the certify under penalty of lands of the control of the control of the certify and submitting false information in the certification of the certificatio	orceable by law. enforcement act aw that I have p is thereto and th hat the informa in, including the	Violations of any terion. ersonally examined at, based on my inquition is true, accurate possibility of fine or Diane C. White Accountant	and am family of those and complete imprisonm	tion of the generalist with the interest of the general state of the gen	al permit formation mediately that there tary Pub	and/or of a submitter responsion are sign	ed on ble hificant	Se 13

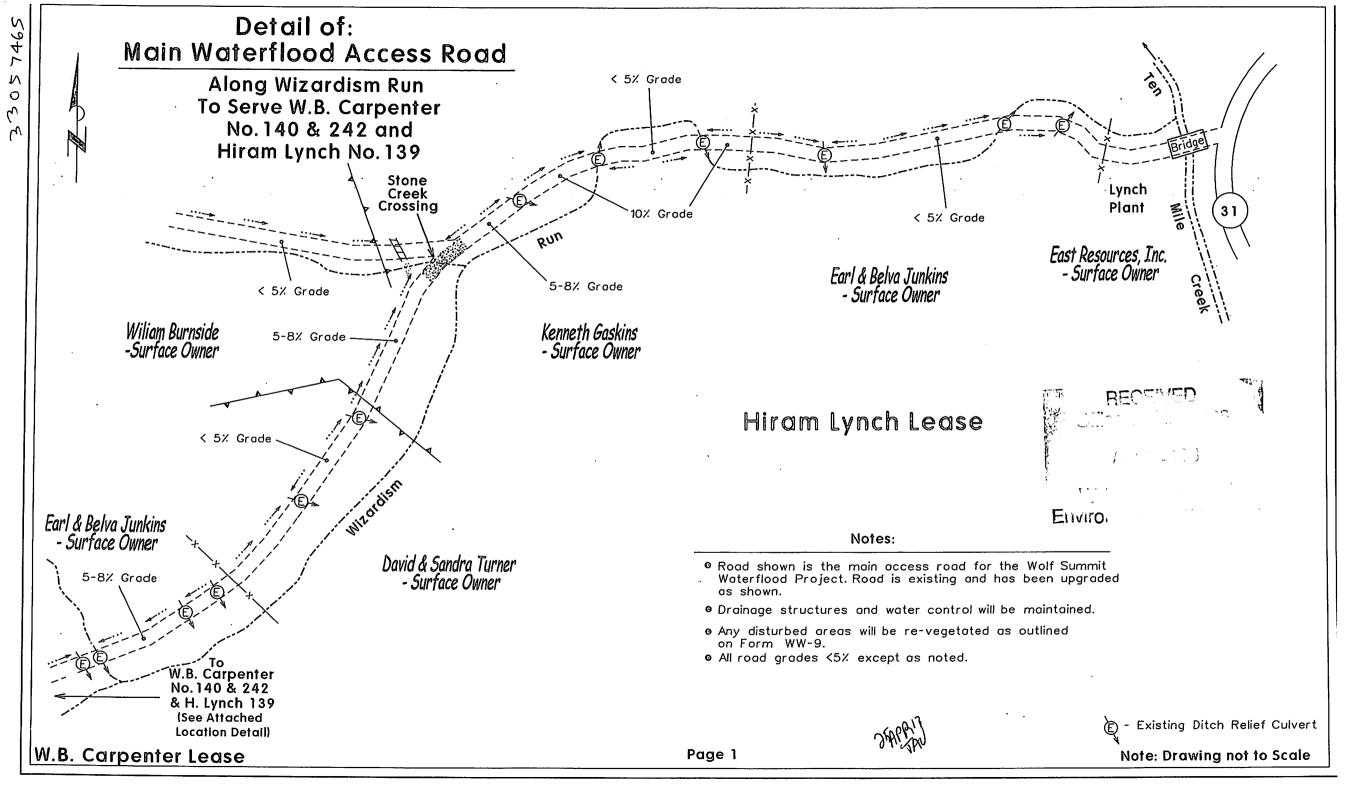
. WW9-Rack

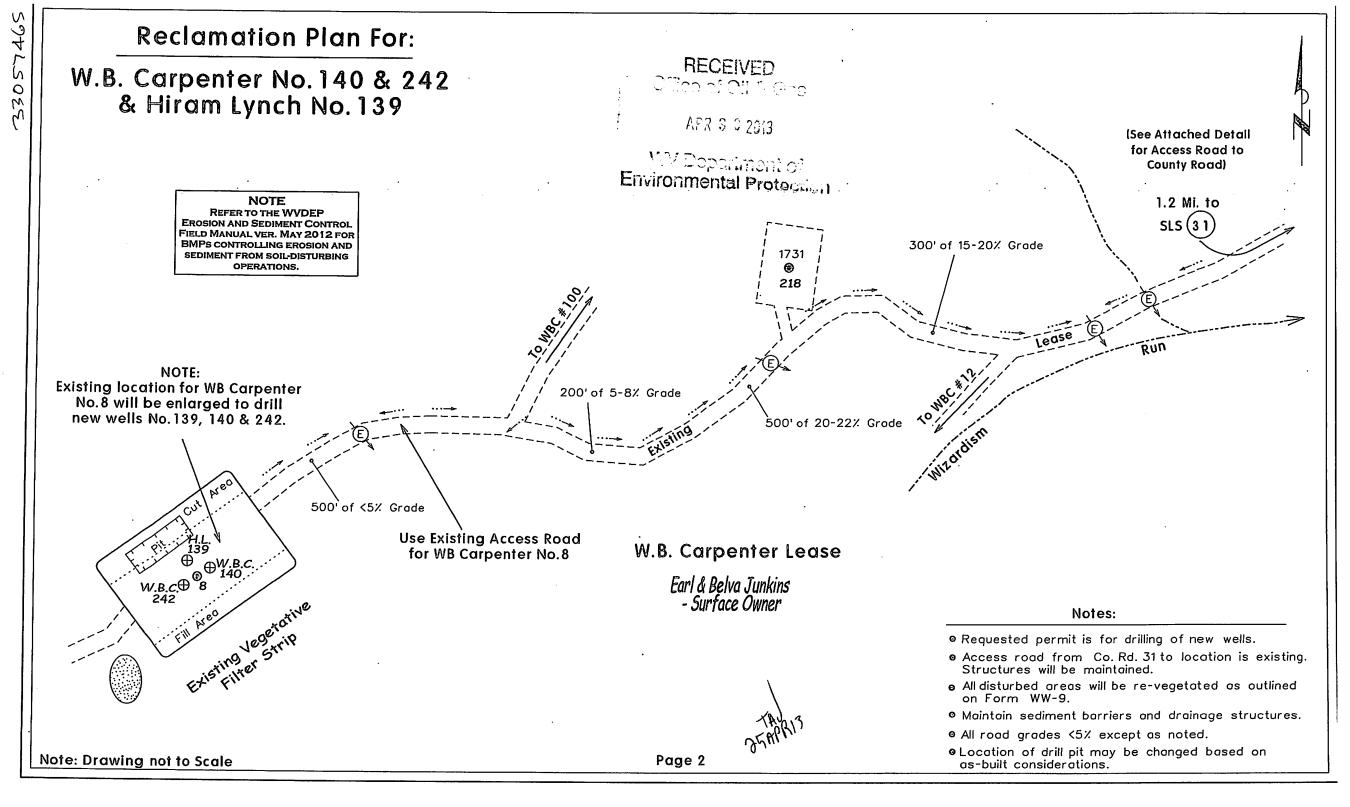
Property Boundary

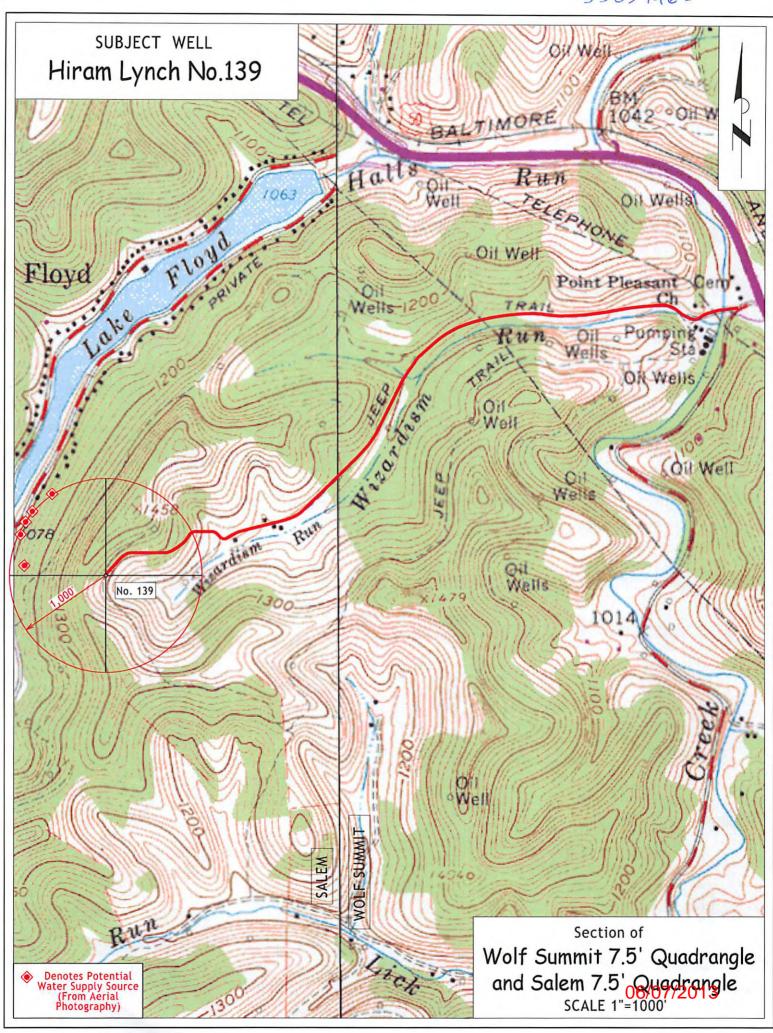
Legend

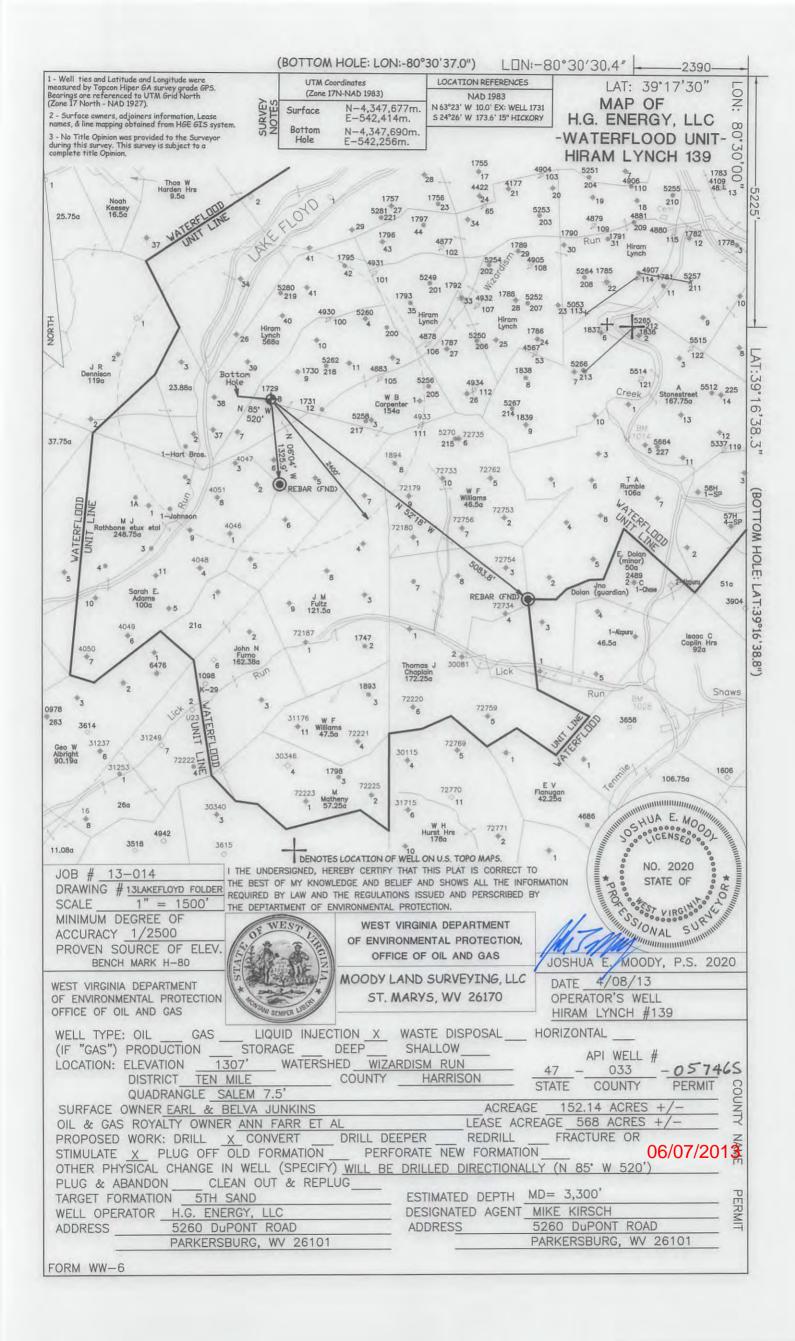
Diversion

Existing Fence	xx	Wet Spot	し ヴ l
Planned Fence	<u>-</u> //-	Drain Pipe	——(12)——>
Stream		Waterway	
Open Ditch		Cross Drain	77/1/1/1/1/1/
Rock	888888 888888	Filter Strip	XXXXXXXXXX
	·	Pit: Cut Walls	Cirrin
North	. N.		11111
· . Buildings		Pit: Compacted Fill Walls	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Water Wells	. ®	1	· Military
Drill Site	⊕	Area of Land Application of Pit Waste	
		. print waste	
	'Area	. 7	
Proposed Revegetation Treatme			vegetation pH
•	Area	ī	
	Approx.	1.0 Ac.	
Lime	2 Tons/Acre or Co	rrect to pH 6.5	•
-	er (10-20-20 or Equivalent) 500		bs. Minimum)
	• • •	· · · · · · · · · · · · · · · · · · ·	•
Mulch	Straw 2 Tons/Acr	re	
Mulch _	Straw 2 Tons/Acr		
-	SEED MIX		Area II (Road)
-			Area II (Road) Lbs/Ac.
Area I Seed Type Tall Fescue	SEED MIX (Location) Lbs/Ac, 40	Seed Type Tall Fescue	Lbs/Ac. 40
Area] Seed Type	SEED MIX I (Location) Lbs/Ac.	KTURES	Lbs/Ac.
Area I Seed Type Tall Fescue	SEED MIX (Location) Lbs/Ac. 40 5	Seed Type Tall Fescue	Lbs/Ac. 40
Seed Type Tall Fescue Ladino Clover	SEED MIX (Location) Lbs/Ac. 40 5	Seed Type Tall Fescue	Lbs/Ac. 40
Seed Type Tall Fescue Ladino Clover . Attach:	Lbs/Ac. 40 5	Seed Type Tall Fescue	Lbs/Ac. 40
Area I Seed Type Tall Fescue Ladino Clover Attach: Drawing(s) of road, location, pin	Lbs/Ac. 40 5 t and proposed area for land application	Seed Type Tall Fescue	Lbs/Ac. 40
Seed Type Tall Fescue Ladino Clover . Attach:	Lbs/Ac. 40 5 t and proposed area for land application	Seed Type Tall Fescue	Lbs/Ac. 40
Area Description of involved	Lbs/Ac. 40 5 t and proposed area for land application	Seed Type Tall Fescue	Lbs/Ac. 40
Area I Seed Type Tall Fescue Ladino Clover Attach: Drawing(s) of road, location, pin	Lbs/Ac. 40 5 t and proposed area for land application	Seed Type Tall Fescue	Lbs/Ac. 40
Seed Type Tall Fescue Ladino Clover Attach: Drawing(s) of road, location, pit Photocopied section of involved	Lbs/Ac. 40 5 t and proposed area for land application	Seed Type Tall Fescue	Lbs/Ac. 40
Seed Type Tall Fescue Ladino Clover Attach: Drawing(s) of road, location, pit Photocopied section of involved	Lbs/Ac. 40 5 t and proposed area for land application	Seed Type Tall Fescue	Ibs/Ac. 40 5
Area Seed Type Tall Fescue Ladino Clover Attach: Drawing(s) of road, location, pit Photocopied section of involved Plan approved by: Comments:	Lbs/Ac. 40 5 t and proposed area for land application 17.5' topographic sheet.	Seed Type Tall Fescue Ladino Clover	Ibs/Ac. 40 5 RECEIVED Date: 95AR/3
Area Seed Type Tall Fescue Ladino Clover Attach: Drawing(s) of road, location, pit Photocopied section of involved Plan approved by: Comments:	Lbs/Ac. 40 5 t and proposed area for land application 17.5' topographic sheet.	Seed Type Tall Fescue Ladino Clover	Ibs/Ac. 40 5 RECEIVED Date: 95AR/3









LDN:-80°30'30.4"

