

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

July 16, 2013

WELL WORK PERMIT

Fracture

This permit, API Well Number: 47-10301716, 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: L. S. HOYT 108

Farm Name: DALLISON LUMBER, INC.

API Well Number: 47-10301716 Permit Type: Fracture

Date Issued: 07/16/2013

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.



WW-3B 10/07



1) Date		J	une 14, 20		
2) Operator's Well	No.	I	. S. Hoyt		
3) API Well No.	47	+	103	-	1716
	State		County		Permit
4) UIC Permit No.		J	JIC2R1030)4AP	

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

District Confect For Safet	5)	WELL TYPE:		Liquid	Injection	X		Gas Injection	(not stora	age)	- Waste Dis	sposal_		
WELL OPERATOR Higher Household Higher Househo	6)					of.	O Count			7 a White Co. II.		Pine	e Grove 7.5'	548
	7)				-	1		-			Mike	Kirsch		
Parkersburg, WV 26101	()	WELL OPERA	TOR:				494491940	- 6) DE.	DIGNATI	D AGENT				
OIL & GAS INSPECTOR TO BE NOTIFIED: Name Derk Haught Name Derk Haught Address Fo Bo Destrict Order Possible Name Possible Possible Name Possible Possible Name Possible Possible Possible Name Possible						6101		-						
Name	N.	OIL & CASINI	CDECTC		0.			- 10) DI	HILING	CONTRAC	TOR.			
Address PO Box 85	"	OIL & GAS IN				D.		10) D1	ULLING			Upon Pe	ermit Approva	1
PROPOSED WELL WORK:								-						
Plug Off Old Formation Other Physical Change in Well (specify) Perforate New Formation Convert						78								
Plug Off Old Formation Other Physical Change in Well (specify) Perforate New Formation Convert	11	DPODOSED W	ELL. WC	DBK.	Deill			— Drill Deener		Redril	l Stim	nulate	X	
Commercial Commercia	1)	THOTOSED W	EDD WC	JILIX.	44.0	Off O	ld Formatio		Perforate					
Settimated depth of completed well (or actual depth of existing well) 3497 Ft.														
Approximate water strata depths: Fresh	2)	Geological targ	et forma	ition		Gordo	n	Depth		3,436	Ft. (Top) to		3,445 Ft.	(Bottom)
1341-1350 Ft. 1341-1350	3)	Estimated dept	th of con	apleted we	ll (or actu	al dept	h of existing	well)		3497'	Ft.			
Stimated reservoir fracture pressure: 1200 psig.	(4)	Approximate w	ater str	ata depths	:	Fresh		NA	Ft.		Salt	NA	Ft.	
Stimated reservoir fracture pressure: 1200 psig.	15)	Approximate co	oal seam	depths:			1341-135	0	Ft.					NW.
MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl/hr Bottom Hole Pressure 2400 psi	(6)	Is coal being m	ined in t	he area?			Yes		X	No				6-2
MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl/hr DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES and other chemicals as needed to maintain water quality and improve oil recovery. PILITERS (IF ANY) Cartridge filters and/or coal bed filters SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP OR SACKS (CU. FT.) Conductor Conductor Fresh Water 8 5/8" L.S. 17# X 1438' 1438' Use Existing Tension Coal Intermediate Production 4 1/2" J-55 10.5# X 3497' 3497' Use Existing Depths Set Production 4 1/2" J-55 4.6# X 3200' 3200' Casing 3100' Ciners APPLICANTS OPERATING RIGHTS were acquired from LS Hoyt et al. Bottom Hole Pressure 2400 psi Fresh water, produced water, bactericide Fresh water, produced water, bacteric	17)	Virgin reservoi	r pressu	re in targe	et formati	on:		60		psig.	Source		Estimated	
DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES and other chemicals as needed to maintain water quality and improve oil recovery. Cartridge filters and/or coal bed filters SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP PACKERS CONDUCTOR COND	18)	Estimated rese	rvoir fra	cture pres	ssure:			1200		psig.				
DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES and other chemicals as needed to maintain water quality and improve oil recovery. Cartridge filters and/or coal bed filters SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP PACKERS CONDUCTOR COND	(9)	MAXIMIIM PE	OPOSE	DINJEC	TION OPE	RATIO	ONS: Vo	lume per hour	25 bbl/	hr	Bottom Hole Pre	essure	2400	psi
FILTERS (IF ANY) Cartridge filters and/or coal bed filters	20)	DETAILED ID	ENTIFI	CATION C	OF MATE	RIALS	TO BE INJ	ECTED, INCLU	JDING A	DDITIVES	Fresh water,	produc	ed water, ba	ctericide
SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL	21\								overy.					
CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP PACKERS FUBING TYPE Size Grade Weight New Used For Drilling Left in Well OR SACKS (CU. FT.) Conductor Size Grade Weight New Used For Drilling Left in Well OR SACKS (CU. FT.) Kinds Fresh Water 8 5/8" L.S. 17# X 1438' Use Existing Tension Coal Casing Sizes Intermediate Size Size Sizes Coal Casing Sizes Coal Casing Sizes Casing Sizes Coal Casing Si									ON CON	TROL				
CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP OR SACKS (CU. FT.)	22)	SPECIFICATION	ONFOR	CATHOL	MOTROT.	EOIIO	NANDOI	Thit Comicon	01, 001,	11101	•			
TUBING TYPE Size Grade Weight New Used For Drilling Left in Well OR SACKS (CU. FT.)	23)	CASING AND	TUBING	G PROGR	AM									
TUBING TYPE Size Grade Weight New Used For Drilling Left in Well OR SACKS (CU. FT.)	340	ING OR		CDECH	PICATION	IC		FOOTAGE IN	TERVAL	S	CEMENT FILI	UP	PACK	ERS
Conductor			Cino	_		200	Used							
Coal	22/12		Dize	Grade	Weight	11011	obcu ,	or Drining	34377				Kinds	
Coal	1	SALES OF PARTY AND ADDRESS OF THE PARTY AND AD	8 5/8"	L.S.	17#	X		1438'	14	138'	Use Existing		Tension	
Production	_		0.0.0								Casing		Sizes	
Production 4 H2 5-55 10.5 X 3200' 3200' Casing 3100'				177									41.00	5"
Liners Perforations Top Bottom APPLICANTS OPERATING RIGHTS were acquired from by Deed Lease X Other Contract Dated January 06, 1902 of record in the	Prod	uction	4 1/2"	J-55	10.5#	X		3497'	34	197'	The state of the s		The second second second	
APPLICANTS OPERATING RIGHTS were acquired from LS Hoyt et al. by Deed Lease X Other Contract Dated January 06, 1902 of record in the	ľubi	ng	2 3/8"	J-55	4.6#	X		3200'	33	200'	Casing		E 8 1 2 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
APPLICANTS OPERATING RIGHTS were acquired from LS Hoyt et al. by Deed Lease X Other Contract Dated January 06, 1902 of record in the	ine	rs											P ACCESS OF THE	
by Deed Lease X Other Contract Dated January 06, 1902 of record in the						6.5							Top Bot	tom
by Deed Lease X Other Contract Dated January 06, 1902 of record in the											Roca	11//	De	
by Deed Lease X Other Contract Dated January 06, 1902 of record in the						2. 7			Ų.		ICCC	IVO	74	
by Deed Lease A Other Contract Bareta States 275 2013 2020	24)	APPLICANTS	OPERA	TING RIG	HTS were	acqui	red from	LS Hoyt et	al.					
Wetgel County Clerk's Office in Lease Book 76 at Page US 300		by Deed		Lease	X	0	ther Contra	ct	Dated	Janua			1	the
Wetzer Outlity Office in Deade Door 10 at 2 age 10				Wetzel		Count	y Clerk's Of	fice in	Lease	Book	76 N at Pe	Age/UI	300	

2-Oct-96 API# 47 -103- 1716

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

Well Operator's Report of Well Work

			F	M						
arm name:	Dallison Lun	nber Company	2.40	Ope	rator Well	No.: L.S	S. Hoy	rt #108	•	
OCATION:	Elevation:	1,452.00	•	Qua	drangle:	Pine Gro	ve			
	District: Latitude: Longitude:	Center 4,900 Fee 5,150 Fee	et south of et west of		nty: Wet Deg 37 Deg 37	Min 3				
Company:	P.O. BOX 55	PRODUCTS CO 519 V 26105-5519	MPANY		Casing & Tubing	Used in		Left in Well	Cen Fill Cu.	Up
gent:	PHILIP S. O				Size	Diming		ni vi on	, ou.	X 6.
nspector:	Randal Mick				BIZE					
ermit Issued: Vell work Com		10/2/96 10/18/96					_			
Vell work Com Verbal plugging	pleted:	11/19/96			8-5/8"	1438'		1438'	600	Sacks
ermission gran otary X otal Depth (fee	_Cable et)	Rig 3625'	<u> </u>		4 1/2"	3496.90)'	3496.90'	275	Sacks
resh water deptalt water depth		NA NA						CECITION OF THE PERMITTE	温) & Gas :	
ant water depth	13 (11)						+			
coal being mir oal Depths (ft)		N) No 1341-1350) .					APR 09		
PEN FLOW D	ATA	*Well was drill						Environmental	Protection as obtain	71
D 4		Note: Well was		rection						
Gas:	ing formation Initial open flo		Gordon * A	CDIA		Pay zone	_	ı (tt)	3436-	3445 Bbl/d
Cas.	Final open flo			CF/d	Oil: Initia	open flov				Bbl/d
	•	n flow between			tests	opon no	*	Hours		
Static re	ock pressure				rface press	sure)	afte]	Hours
Second	producing for	nation				Pay zone	denth	((1)		
Gas:	Initial open flo		M	CF/d	Oil: Initia				j	Bbl/d
	Final open flo			CF/d		open flov	V			Bb1/d
Static ro	Time of oper ock pressure	n flow between			tests rface press		afte	Hours	7	Hours
	•			•	•	•		· · · · · · · · · · · · · · · · · · ·		110013
OTE: ON BACK R STIMULATING	OF THIS FORM,	PUT THE FOLLO MANGE, ETC. 2) TO CRMATIONS, IN	WING: 1) I THE WELL 1	DETAIL LOG W	S OF PERFO	ORATED I	NTER TIC D	VALS, FRAC ETAILED	TURING ·	
OLOGICAE RE	eord of all i	ORMATIONS, IN	CLUDING C	XVAL E	NCOUNTE	RED BY T	HR M	BLLBORE.		•
J	IUN 2 6 2013	For:		IL PR	ODUCTS(COMPA	NY			
^	ffice of Oil and Gas		By: Date:	7	12/22/	56			07/1	9/2013
WV Dept.	of Environmental Pr	rotection	•		1021	_k.Y-/				୰୵ ╧─┼∖

Treatment:

Perforations:

3439-3443 -4 holes/ft. (20 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 220 bbls.

Borate cross-linked gelled water and 13,600 lbs. of 20/40 sand.

Well Log:

Note: Well was drilled directionally N48W 378' to bottom hole location. All depths given below are measured depths.

. All de	pths given below are meas
Sand & Shale	0 - 260
Sand	260 - 306
Shale	306 - 450
Sand	450 - 498
Shale	498 - 563
Sand	563 - 612
Shale	612 - 726
Sand	726 - 738
Shale	738 - 813
-Sand	813 - 915
Sand & Shale	915 - 1116
Sand .	1116 - 1256
Sand & Shale	1256 - 1341
Pittsburg Coal	1341 - 1350
Sand & Shale	1350 - 1484
Sand	1484 - 1536
Shale .	1536 - 1848
"Sand	1848 - 1863
Shale	1863 - 2007
Sand	2007 - 2065
Shale ·	2065 - 2252
Sand	2252 - 2270
Shale	2270 - 2327
Sand	2327 - 2352
Shale .	23522500 .
Big Lime	····· · 2500 - · 2626 :
Big Injun	2626 - 2822
Shale	· 2822 - 340I
Gordon Stray	3401 - 3425
Shale	3425 - 3435
Gordon	-3435 - 3446
Shale	3446 3625

Received

วบพ. 2.6. 2013.

WW-3A 10/07

5) Surface Owner(s) To Be Served



1) Date:		June 14, 2	2013		
2) Operator's We	ll No.	L. S. Hoyt	108		
3) API Well No.	47	103		1716	
	State	County		Permit	
4) UIC Permit N	o.	UIC2R103	304AP		

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

(a) Name	Dallison Lumber, Inc.		Name	NA
Address	HC 79, Box 50		Address	
	Jacksonburg, WV 26377			
(b) Name		7 (b)	Coal Owner(s) With Declaration Of Record
Address			Name	NA
			Address	
Address			Name	NA
9-			Address	
6) Inspector	Derek Haught	7(c)	Coal Lessee W	Tith Declaration Of Record
Address	PO Box 85			CONSOL
	Smithville, WV 26178			6126 Energy Road
Telephone	206-7613			Moundsville, WV 26041
TO THE PERS	ON(S) NAMED ABOVE: You should have	rece	ived this fo	orm and the following documents:
(1) The Applica	ation for a Liquid Injection or Waste Disposal W	ell W	ork Permit o	on Form WW-3(B), which
	parties involved in the drilling or other work;			
	arveyor's map) showing the well location on For	m WW	V-6; and	
	uction and Reclamation Plan on Form WW-9 (u			k is only to plug a well),
	out the plan for erosion and sediment control ar			
The date propos	ed for the first injection or waste disposal is	1	NA	
	OU RECEIVED THESE DOCUMENTS IS THAT YO	U HAV	E RIGHTS R	EGARDING THE APPLICATION
	MMARIZED IN THE "INSTRUCTIONS" ON FORM			
	IRED TO TAKE ANY ACTION AT ALL.			
Take notice that un	der Chapter 22-6 of the West Virginia Code, the undersigned	d well o	perator propose	es to file or has filed this Notice and
	ompanying documents for a Well Work Permit with the Chie			
	ection, with respect to a well at the location described on the			성용하는 경기가 있는 경기를 보면 가는 경기가 있다면 있다면 하는 것이 되었다. 이 전 10 kg
WW-6. Copies of thi	s Notice, the Application, the plat, and the Construction and	l Reclar	nation Plan ha	ve been mailed by registered or
certified mail or del	ivered by hand to the person(s) named above (or by publicati	ion in co	ertain circumst	ances) on or before the day of the
mailing or delivery	to the Chief.			
	The person signing this document shall make the	followi	ing certificati	on:
"I certify under pen	alty of law that I have personally examined and am	Well	Operator	HG Energy, LLC
	formation submitted in this document and all attachments		ress	5260 Dupont Road
and that, based on r	ny inquiry of those individuals immediately responsible			Parkersburg, WV 26101
	ormation, I believe that the information is true, accurate			
	aware that there are significant penalties for submitting	By:		Diane C. White
false information, ir	cluding the possibility of fine and imprisonment."	Its:		Accountant
				44.4
		Sign	ature	Mina Cil Shito
Oil and Gas Privacy	Notice	~-B.		~ received
The Office of Oil and	Gas processes your personal information, such as name, ac	ldress a	and phone num	ber, 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



CONSOL Energy Inc.

Ohio Valley Operations 6126 Energy Road Moundsville, WV 26041

phone: 304/843-3529 fax: 304/843-3546

e-mail: EricShereda@consolenergy.com web: www.consolenergy.com

J. ERIC SHEREDA Manager Engineering

July 2, 2013

Mr. James Martin West Virginia Department of Environmental Protection 601 57th Street Office of Oil & Gas Charleston, West Virginia 25304

CONSOLENERGY.

RE: HG Energy LLC Proposed L.S. HOYT 104, L.S. HOYT 105, L.S. HOYT 106, and L.S. HOYT 108 Wells

Dear Mr. Martin,

RESERVE COAL PROPERTIES COMPANY does not object to the proposed well work for the above referenced wells. Attached are the signed coal waiver forms WW-2A approving the well work of the above referenced wells. If you have any questions or require additional information, please contact me at 304-843-3529.

Sincerely,

J./Eric Shereda

Manager Engineering

Received

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Office of Oil and Gas WV Dept. of Environmental Protection

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County: Wetzel		
Operator: HG Energy LLC	Operator's Well #: L.S. HOYT 108	
		filed with
	WAIVER	
The undersigned coal operator/ location has examined this proposed well location, the well location has been added to the work proposed to be done at this location, provapplicable requirements of the West Virginia Corresponding to the West Virginia Corresponding to the Work application, provided that HO the WV North NAD27 coordinates of North AD27	e mine map. The undersigned has no object ded, the well operator has complied with all de and the governing regulations. oproves and authorizes the well work represented by the control of the well work on the	ea of well ion to the resented by
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATI	ON, ETC.
Date Signature	Company RESERVE COAL Name COMPANY By J. Eric Shereda	PROPERTIES
3	Its Manager - Engineering	
	Ohio Valley Operations	
	A Gi Sll.	7-2-2013
	Signature	Date

Received

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Office of Oil and Gas WV Dept. of Environmental Protection Form WW-9 Rev. 10/94

	Page	3	of	3
API Nur	nber 47-	103	-	1716
Operator's Well No.	$L. \bar{S}$. Hoyt	108	

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

-		gy, LLC			OP Code	404	497948
Vatershed	Betsy Ru	ın		Quadrangl	e Pine	Grove 7	7.5'
llevation	1452'	County	Wetzel	Distric	t	Grant	Cente
escription of a	anticipated Pit Waste:	Fluids encou	ntered in stimulat	ing existing well.			
o you anticipa	te more than 5,000 bb	ls of water to comp	plete the proposed w	ell work Yes	No	X	
ill a synthetic	liner be used in pit?	Yes	If so, what mil.?	20 Mil.			
roposed Dispo	sal Method For Treate	d Pit Wastes:					
_	X Land App						
_		und Injection (UIC API Number	Permit Number				
-	THE RESERVE OF THE PARTY OF THE	SECTION AND PROPERTY OF A SECTION ASSESSMENT	rm WW-9 for disposa	al location)			,
	Other	(Explain	o aoa xaopou)
rilling mediun	n anticipated for this w	vell? Air, fresh wa	ter, oil based, etc.	NA			
	f oilbased, what type?		The state of the s			1	
dditives to be							
	sposal method? Leave				37		
	i leit in pit and plan to andfill or offsite name		dium will be used? (Cement, lime, sawdust	Native so	il, sawdı	ust, lime
sued on Augus at the provision oplicable law o	et 1, 2005, by the Office ons of the permit are e r regulation can lead t	e of Oil and Gas of nforceable by law. o enforcement act	the West Virginia D Violations of any ter ion.	ns of the GENERAL Water the grant of the grant of the grant or condition of the grant am familiar with the	ental Protec	ction. I ur it and/or	nderstand other
sued on Augus nat the provision plicable law o I c us application r obtaining the enalties for sub-	et 1, 2005, by the Office ons of the permit are e or regulation can lead t ertify under penalty of form and all attachme e information, I believe omitting false informat	e of Oil and Gas of inforceable by law. o enforcement act I law that I have p ints thereto and the e that the informa	the West Virginia D Violations of any ter ion. ersonally examined a at, based on my inqu tion is true, accurate possibility of fine or	epartment of Environment or condition of the go and am familiar with the airy of those individuals and complete. I am aw imprisonment.	ental Protect eneral perm de information immediate	etion. I un it and/or o on submit y respons	nderstand other tted on sible
sued on Augus that the provision plicable law o I c as application r obtaining the enalties for sub- company Office	et 1, 2005, by the Office ons of the permit are ear regulation can lead to ertify under penalty of form and all attachme information, I believe pomitting false informational cial Signature	e of Oil and Gas of inforceable by law. o enforcement act I law that I have p ints thereto and the e that the informa	the West Virginia D Violations of any ter- ion. ersonally examined a at, based on my inquition is true, accurate possibility of fine or	epartment of Environment or condition of the go and am familiar with the airy of those individuals and complete. I am aw imprisonment.	ental Protect eneral perm de information immediate	etion. I un it and/or o on submit y respons	nderstand other tted on sible
sued on Augus nat the provision plicable law o I c dis application r obtaining the enalties for sub- company Office company Office	et 1, 2005, by the Office ons of the permit are e or regulation can lead t ertify under penalty of form and all attachme e information, I believe omitting false informaticial Signature cial (Typed Name)	e of Oil and Gas of inforceable by law. o enforcement act I law that I have p ints thereto and the e that the informa	the West Virginia D Violations of any ter ion. ersonally examined a at, based on my inquition is true, accurate possibility of fine or Diane C. White	epartment of Environment or condition of the go and am familiar with the airy of those individuals and complete. I am aw imprisonment.	ental Protect eneral perm de information immediate	etion. I un it and/or o on submit y respons	nderstand other tted on sible
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Office of Oil and Gas WV Dept. of Environmental Protection

07/19/2013

WW9-Back

Legend

Property Boundary	AVAVA
Road	
Existing Fence	xxx
Piznned Fence	//
Stream	7 7 7
Open Ditch	>
Rock	88.00 m
North	N
Buildings	
Water Wells	│
Drill Site	\oplus

Diversion
Spring
Wet Spot
Drain Pipe
Waterway
Cross Drain
Filter Strip
Pit: Cut Walls
Pit: Compacted
Fill Walls
Area of Land
Application
of Pit Waste

Proposed Revegetation	ı Treatment: A	Acres Disturbed	Approx.	0.2 Ac.	Prevegetation p	1
			Area	ıII		
			Арргох.	0.1 Ac.		
	Lime	2	Tons/Acre or Co	prrect to pH	6.5	_
		0-20-20 or Equivale		0 Lbs/Ac	e (500 lbs. Minimun	1)
	Mulch		2 Tons/Ac			
	Maich	DEGA		•		
		•	SEED MI	XTURES		
		,			Area II (Road)
	Area I (I	ocation) Lbs/Ac		Seed T		Lbs/Ac.
Seed Type	•	108/AC	j.	Tall Fes	-	40
Tall Fescue		5		Ladino	Clover	5
Ladino Clove	<u>r </u>					
						
Sec. Special						
Attach:			1141-			•
Attach: Drawing(s) of road, 1	ocation, pit ar	d proposed area for	Liauq abbricario	n		
Photocopied section	of involved 7.	5, fobographic spee	ī.			
Plan approved b	//			•		
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Commen	is:		• • • • • • • • • • • • • • • • • • • •			
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		/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			(No D	k-23-13 Received
Field Reviewe	d?	() Yes			, _ , _ ,	leceived

Area I

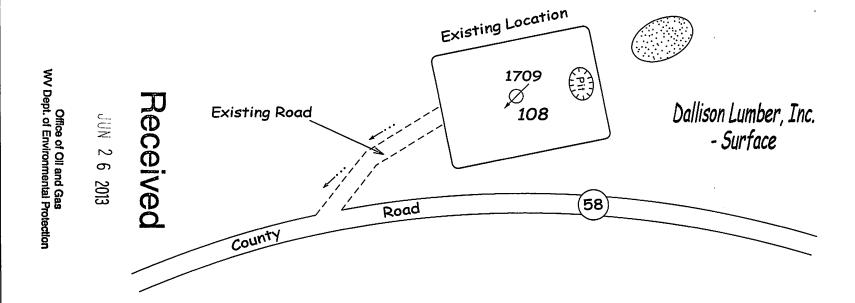
JUN 2 6 2013

Reclamation Plan For:

L.S. Hoyt No. 108

47-103-1716





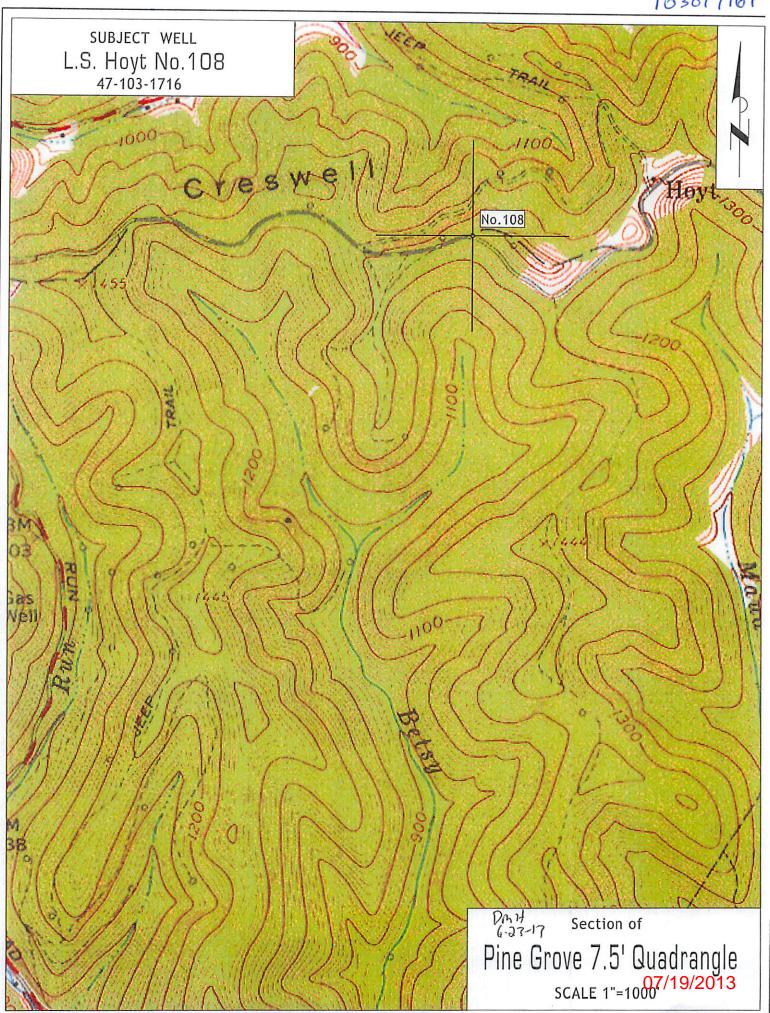
Notes:

- \bullet Requested permit is for workover of existing well.
- Access road from Co. Rd. 58 to well 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.
- All road grades <5% except as noted.
- Location of work-over pit may be changed based on as-built considerations.

174 6-23-17

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



,006

LATITUDE 39° 37' 30" PLAT NOTES AREA MAP 18 The drawing shown hereon is from the original drilling permit plat dated 8/30/96. L.S. Hoyt This plat has been updated 1002 to show current surface ownership and as-drilled Latitude & Longitude. N39° 00'E 0171 Latitude & Longitude shown was measured by DGPS -Sub-Meter Mapping Grade (NAD 1927) N18 58 W 800 ONGITUDE 82 L 5 Hoyt 166 700 1708 105 67 Mary Jane Clark 168a 103 **UTM Coordinates** NAD 1983 (m.) N - 4,384,709 m. E - 530,621 m.

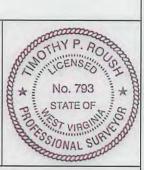
FILE NO ._ MAP NO.___ 1" = 1000 SCALE _ MINIMUM DEGREE OF ACCURACY Sub-Meter PROVEN SOURCE OF ELEVATION WVDEP Records

- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU-LATIONS ISSUED AND PRESCRIBED BY THE DEPART-MENT OF MINES.

(SIGNED) TIMOTHY P. ROUSH

PS 793



WEST VIRGINIA

Division of Environmental Protection Office of Oil and Gas 601 57th Street Charleston, West Virginia 25304



DATE_ June 5, 2013 FARM L.S. Hoyt No. 108

API WELL NO.

47 - 103

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPUSAL ____

(IF "GAS") PRODUCTION ___ STORAGE __ DEEP ___ SHALLOW _

LOCATION: ELEVATION ___ 1,452' WATERSHED ___ Little Fishing Creek DISTRICT___Center _ COUNTY___ Wetzel QUADRANGLE Pine Grove 7.5' _ ACREAGE __ 2099.3 Ac. SURFACE OWNER _____ Dallison Lumber, Inc.

LEASE ACREAGE 2,100 Ac. 07/19/2013 OIL & GAS ROYALTY OWNER The Hoyt Foundation 52265-50 LEASE NO. _

PROPOSED WORK: DRILL _ CONVERT __ DRILL DEEPER __ REDRILL _ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION __ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) .

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG TARGET FORMATION Gordon ESTIMATED DEPTH 3,625 WELL OPERATOR HG Energy, LLC

ADDRESS Parkersburg, WV 26101

HG Energy, LLC DESIGNATED AGENT Mike Kirsch
5260 Dupont Road ADDRESS 5260 Dupont Road
Parkersbura, WV 26101 Parkersburg, WV 26101

- 5,200' 10301716F Longitude - 80° 38' 36.5" |-LATITUDE 39° 371 30" **PLAT NOTES** Jesse 6 Shuman 100a The drawing shown hereon is from the original drilling permit plat dated 8/30/96. ·\$8 This plat has been updated to show current surface ownership and as-drilled Latitude & Longitude. ,006 1002 1001 1532 0110 37 Latitude & Longitude shown was measured by DGPS -Sub-Meter Mapping Grade (NAD 1927) 80° 75 \$5 LONGITUDE 0998 74 7.5 78 6 0993 Η фу John Rush φ₁ 1709 **9**66 995 700 105 Mary Jane Clark 168a 56 **UTM Coordinates** NAD 1983 (m.) N - 4,384,709 m. E - 530,621 m. ♦ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. I THE UNDERSIGNED, HEREBY CERTIFY THAT THY P. ROLL THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU-LATIONS ISSUED AND PRESCRIBED BY THE DEPART STATE OF STATE OF VIRGINITION OF VIRGINITI MENT OF MINES. SSIONAL SY TIMOTHY ROUSH PS 793 June 5, 2013 DATE_ FARM_ L.S. Hoyt No. 108 API WELL NO. Little Fishing Creek COUNTY_ Wetzel ACREAGE __ 2099.3 Ac. __ LEASE ACREAGE _____2,100 Ac.07/19/2013 52265-50 _ DRILL DEEPER ___ REDRILL_ FRACTURE OR

WEST VIRGINIA

PROVEN SOURCE OF

MAP NO. ____N __S_ SCALE ____1" = 1000'

MINIMUM DEGREE OF ACCURACY Sub-Meter

ELEVATION WVDEP Records

AREA MAP

1"-8000"

N18" 58'W

L S Hoyt

67

29

FILE NO ._

L.S. Hoyt

N39° 00'E

123 15

68

099

103

53

310

PROPERTY TIES For Well No.108

+3

82

Division of Environmental Protection Office of Oil and Gas 601 57th Street Charleston, West Virginia 25304

WELL TYPE: OIL . GAS_ LIQUID INJECTION X WASTE DISPOSAL (IF "GAS") PRODUCTION ___ STORAGE__ DEEP__ SHALLOW 1,452 LOCATION: ELEVATION __ __ WATERSHED__ DISTRICT Center QUADRANGLE Pine Grove 7.5

SURFACE OWNER ____ Dallison Lumber, Inc.

OIL & GAS ROYALTY OWNER The Hoyt Foundation LEASE NO. -

PROPOSED WORK: DRILL _ CONVERT_ STIMULATE X PLUG OFF OLD FORMATION __ PERFORATE NEW OTHER PHYSICAL CHANGE IN WELL (SPECIFY) .

PLUG AND ABANDON __ CLEAN OUT AND REPLUG_ TARGET FORMATION ___ Gordon __ ESTIMATED DEPTH_ WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch 5260 Dupont Road 5260 Dupont Road **ADDRESS ADDRESS** Parkersburg, WV 26101 Parkersburg, WV 26101