

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: 47-10301708, 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 105

Farm Name: DALLISON LUMBER, INC.

API Well Number: 47-10301708 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	June 14, 2013				
2) Operator's Well	No.	I	. S. Hoyt	105	
3) API Well No.	I Well No. 47 -			-	1708
4) UIC Permit No.	State	т	County JIC2R103	0447	Permit
4) OIC Permit No.			JICZK103	U4AP	

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

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oduced water, bactericides
PACKERS
FT.)
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Tension
Sizes
2.375" X 4.5"
Depths Set
2750'
Perforations
Top Bottom
of record in the

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

Well Operator's Report of Well Work

		wen Operator	2 vehor	f OI ALCII	TTOLE		
rm name:	Dallison Lum	ber Co.	Ope	rator Well	No.: L.S. I	Hoyt #105	
CATION:	Elevation:	1,176.00	Qua	drangle:	Pine Grove	;	
	District: Latitude: Longitude:	Grant 7,050 Feet south of 6,650 Feet west of		nty: We Deg 37 Deg 37	tzel Min 30 Min 0	Sec.	
ompany:	P.O. BOX 55	PRODUCTS COMPAN 19 V 26105-5519	Y	Casing & Tubing		Left in Well	Cement Fill Up Cu. Ft.
zent:	PHILIP S. Of			Size			
spector: ermit Issued:	Randal Mick	8/20/96					
Tell work Con Tell work Con Terbal plugging	npleted:	11/20/96 12/16/96		8-5/8"	1078'	1078'	460 Sacks
ermission gran otary X otal Depth (fe	nted on: Cable	Rig 3208'		4 1/2"	3154.05'	3154.05'	275 Sacks
esh water dep	oths (ft)	NA				Office of Oil &	Cas_
alt water dept	hs (ft)	NA	•			Parmitting	
coal being moal Depths (fo	ined in area (Y/t):	NA				APR 0 9 20	nt of
PEN FLOW	DATA	*Well was drilled as a	waterflo	ood injection	on well. No	open-flow data w	vas obtained
Gas:	cing formation Initial open florinal open florinal open floring of operock pressure		MCF/c MCF/c and fin	i Fir	Pay zone of tial open flow nal open flow ressure)	w	3,055' * Bbl/d * Bbl/d Hours
Gas: Static	rock pressure	low ow on flow between initial	_psig (i Fin nal tests surface pr		W Hours after	Hours
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JU	JN 2 6 2013	Date	»: <u> </u>	13)	117/48		07/19/2013
							0111012010

Office of Oil and Gas
ant. of Environmental Protection

10301708F

Treatment:

Perforated Gordon sand with 16 holes from 3089'-3093' K.B. Fractured with 300 gals 15% HCL and 220 bbls gelled water and 10,600 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

o,	952 Sand and Shale
952	1016 sand
1016	1196 Ş <u>hale</u>
1196	1232 sand
1232	1546 Shale
1546	1556 sand
1556	1700 Shale
1700	1758 sand
1758	2122 Shale
2122	2198 sand
2198	2342 Big Lime
2342	2492 Big Injun
2492	3043 Shale
3043	3055 Gordon Stray
3055	3072 Gordon
3072	3158 Shale

Received

JUN 2 6 2013

Office of Oil and Gas
WV Dept. of Environmental Protection



1) Date:		June 14, 2	2013		
2) Operator's We	L. S. Hoyt	105			
3) API Well No. 47		103	41	1708	
	State	County		Permit	
A CANAL TO THE STATE OF THE STA		THEODRES			

4) UIC Permit No.

UIC2R10304AP

Check# 2257

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

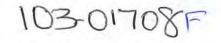
5) Surface Owner(s) To Be Served 7 (a) Coal Operator Dallison Lumber, Inc. Name Name HC 79, Box 50 Address Address Jacksonburg, WV 26377 Name 7 (b) Coal Owner(s) With Declaration Of Record Name NA Address Address (c) Name NA Address Name Address Derek Haught 7(c) Coal Lessee With Declaration Of Record Inspector PO Box 85 CONSOL Address Smithville, WV 26178 6126 Energy Road 206-7613 Moundsville, WV 26041 Telephone TO THE PERSON(S) NAMED ABOVE: You should have received this form and the following documents: (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form WW-6; and (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road. The date proposed for the first injection or waste disposal is THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WW-3(A) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief. The person signing this document shall make the following certification: Well Operator HG Energy, LLC "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments Address 5260 Dupont Road and that, based on my inquiry of those individuals immediately responsible Parkersburg, WV 26101 for obtaining the information, I believe that the information is true, accurate By: Diane C. White and complete. I am aware that there are significant penalties for submitting Its: Accountant false information, including the possibility of fine and imprisonment."

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, please contact DEP's Chief Privacy Officer at:

depprivacyofficer@ww.gov

Signature



CONSOL Energy Inc.

Ohio Valley Operations 6126 Energy Road Moundsville, WV 26041

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

mail: EricShereda@consolenergy.com

web: www.consolenergy.com

J. ERIC SHEREDA Manager Engineering

July 2, 2013

E CONSOLENERGY.

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

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 105
INSTRUCTIONS TO CO.	AL OPERATOR, OWNER, OR LESSEE
any objection you wish to make or are require	named on page WW2-A. You are hereby notified that d to make by Code 22-6-15, 16 or 17, must be filed with feen (15) days after the receipt of this application by
	WAIVER
location has examined this proposed well local location, the well location has been added to the work proposed to be done at this location, proposed well location and the work proposed well location has been added to the work proposed well location and the work proposed well location has been added to the work proposed well location has been added to the work proposed well location has been added to the work proposed well location has been added to the work proposed well location has been added to the work proposed well location has been added to the work proposed to be done at this location, proposed well location has been added to the work proposed to be done at this location, proposed well location has been added to the work proposed to be done at this location.	Code and the governing regulations. approves and authorizes the well work represented by G Energy LLC performs this work on the well located at
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, ETC.
Date	Company RESERVE COAL PROPERTIES Name COMPANY
Signature	By J. Eric Shereda
	Its Manager - Engineering
	Ohio Valley Operations
	Jan 7-2-2013
	Signature Date

Received

AMT 8 MIT

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

	Page	3	of	3
API Nu	mber 47-	103	4	1708
Operator's Well No.	L.S.	Hoyt	105	

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 Energ				(494497	
Watershed	Betsy Run	1			Quadrangle	Pine	Grove 7.5'	548
Elevation	1176'	County	Wetzel	103	District		Grant	04
Description of ant	ticipated Pit Waste:	Fluids encour	ntered in stimula	ting exist	ing well.			
Oo you anticipate	more than 5,000 bbls	of water to comp	lete the proposed v	well work	Yes	No	X	
Vill a synthetic li	iner be used in pit?	Yes	If so, what mil.	? 20	Mil.			
Proposed Disposa	l Method For Treated	Pit Wastes:				11		
	X Land Applie							
-		nd Injection (UIC	Permit Number					
	Reuse (at A	The state of the s						
-			rm WW-9 for dispo	sal location	1)			
	Other	(Explain			-			
	anticipated for this we				NA .			
	oilbased, what type? S		um, etc.					
Additives to be us			2 00 11					
	osal method? Leave i			<u> </u>		Y		
	eft in pit and plan to s	somany, what med	num will be used?		me sawdinst	Native so	oil, sawdust.	lime
I cer	tify that I understand	permit number? I and agree to the of Oil and Gas of	terms and conditi	ons of the (GENERAL WAT	ER POLI	LUTION PER	MIT estand
I cer ssued on August I that the provisions applicable law or r I cer his application for or obtaining the in	tify that I understand	l and agree to the of Oil and Gas of forceable by law. enforcement actions that I have pets thereto and that the informations are the sum of th	terms and condition the West Virginia is Violations of any to on. ersonally examined at, based on my indication is true, accurate	ons of the (Departmen erm or cond and am fa quiry of tho te and comp	GENERAL WAT t of Environment dition of the gen miliar with the se individuals in plete. I am awar	ER POLI ntal Prote eral perm informati nmediate	LUTION PER ction. I under nit and/or other on submitted ly responsible	MIT stand on
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JUN 2 6 2013



07/19/2013

WW9-Back

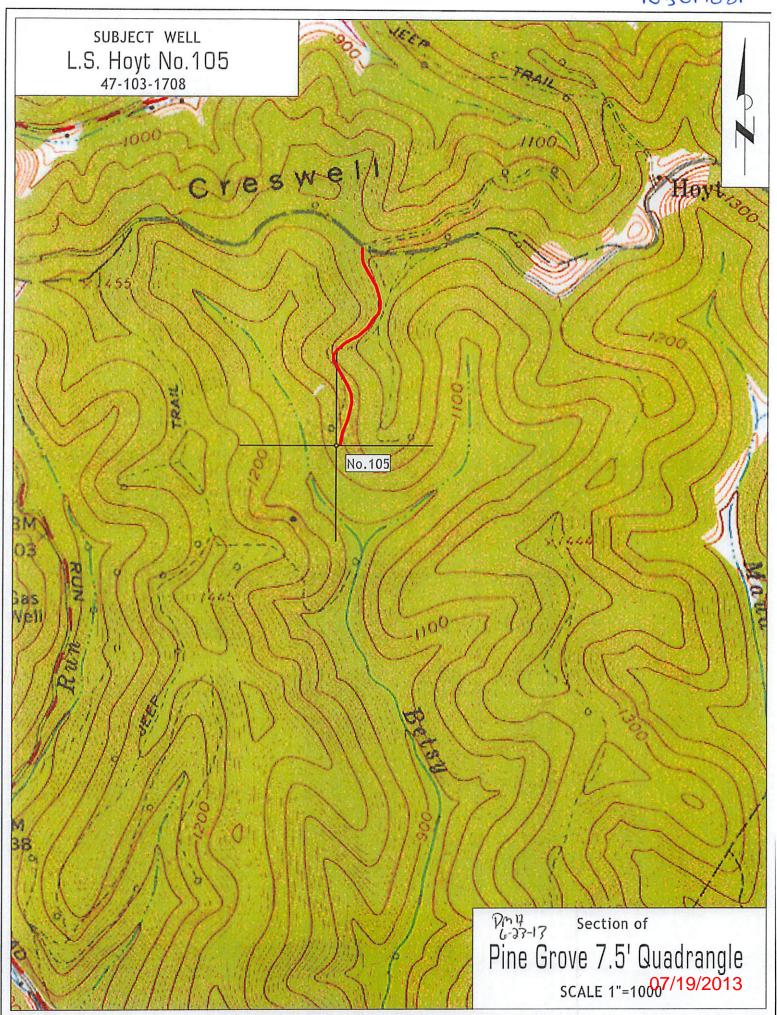
Legend

Property Boundary	AWAWA	Diversion	1111111111
Road		Spring	<u></u>
Existing Fence	_xx	Wet Spot	ひ
Planned Fence	—/——/—	Drain Pipe	
. Stream		Waterway	\leftarrow
Open Ditch	>>	Cross Drain	
Rock	38885.5 38885.5	Filter Strip	XXXXXXXXX
		Pit: Cut Walls	Circuis
North	N	Pit: Compacted	, miles
Buîldings.		Fill Walls	·
Water Wells	W	Area of Land	
Drill Site	\oplus	Application of Pit Waste	E TELLET
<u> </u>	Area	Ĭ	
Proposed Revegetation Treatm	•	_	evegetation pH
3	Area	П	·
	Approx.	0.1 Ac.	
Lime	2 Tons/Acre or Cor	rect to pH 6.5	
	zer (10-20-20 or Equivalent) 500		lbs. Minimum)
Mulch			
	SEED MIX	TTIDES	•
	אנגון עפופנט	.TOIGE	
Area	I (Location)		Area II (Road) Lbs/Ac.
Seed Type	Lbs/Ac.	Seed Type Tall Fescue	40
Tall Fescue	<u>40</u> 5	Ladino Clover	5
Ladino Clover		Dating Civing	
Attach:	•		
Drawing(s) of road, location,	pit and proposed area for land application		
Photocopied section of involve	ed 7.5. topographic sneer.		
D1	1/		
Plan approved by:	<i>p</i> ¬		
COMMICISCO			
Title: 0	1 + Ges Inspector		Date: 6-23-13
Field Reviewed?	() Yes	(1	[™] Receive
CO. T. Company	OFFICIAL SEA	}	UGCGIAC
	1964 YHATOH		
**************************************	STATE OF WEST VI		JUN 2 6 2013
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Office of Oil and Gas
WV Dept. a Environment 10790199/2013

Note: Drawing not to Scale

Reclamation Plan For: L.S. Hoyt No. 105 Road 47-103-1708 58 150' of 15% Grade. Notes: 350' of <5% Grade Requested permit is for workover of existing well. 2327 • Access road from Co. Rd. 58 to well location is Ø 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. 106 Dallison Lumber, Inc. - Surface 800' of 10-15% Grade 900' of 15-20% Grade Dallison Lumber, Inc. - Surface 100' of 25% Grade To LSH No.205 ~5% Grade Stoned Creek Crossing REFER TO THE WVDEP **EROSION AND SEDIMENT CONTROL** DMY FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND 6-23-13 SEDIMENT FROM SOIL-DISTURBING OPERATIONS. 07/19/2013



800

ONGITUDE

- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

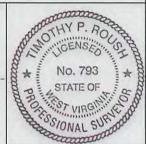
FILE NO ._ MAP NO.___ 1" = 1000" SCALE -MINIMUM DEGREE OF ACCURACY Sub-Meter

PROVEN SOURCE OF ELEVATION WVDEP Records

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



June 5, 2013 DATE_ L.S. Hoyt No. 105 FARM_ API WELL NO.

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X W

(IF "GAS") PRODUCTION ___ STORAGE_ LIQUID INJECTION X WASTE DISPOSAL _ DEEP___ SHALLOW_ 1,176' WATERSHED Betsy Run LOCATION: ELEVATION ___ Wetzel Grant DISTRICT_ COUNTY_ Pine Grove 7.5' QUADRANGLE_ ACREAGE ____ 2099.3 Ac. SURFACE OWNER_ Dallison Lumber, Inc.

OIL & GAS ROYALTY OWNER The Hoyt Foundation

___ LEASE ACREAGE_

2,100 Ac. 07/19/2013

LEASE NO. ____52265-50 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL _ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION __ PERFORATE NEW OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG_ TARGET FORMATION __Gordon

WELL OPERATOR HG Energy, LLC **ADDRESS**

5260 Dupont Road Parkersburg, WV 26101

3,208 _ ESTIMATED DEPTH__ DESIGNATED AGENT Mike Kirsch ADDRESS

5260 Dupont Road Parkersburg, WV 26101

 \geq FORM

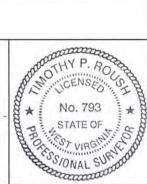
LATITUDE 39° 37' 30" **PLAT NOTES** AREA MAP 1"-8000 The drawing shown hereon is from the original drilling permit plat dated 7/30/96. This plat has been updated to show current surface ownership and as-drilled Latitude & Longitude. .S. Hoyt 1002 1001 N41° 22" Latitude & Longitude shown was measured by DGPS -Sub-Meter Mapping Grade (NAD 1927) 20° 11'E 800 N18" 58"W ONGITUDE PROPERTY TIES For Well No.105 L S Hoyt 0995 105 ÷68 67 Mary Jane Clark 56 1680 32 29 **UTM Coordinates** NAD 1983 (m.) N - 4,384,041 m. E - 530,180 m. ф₆

- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

ELEVATION WVDEP Records

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.





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. 105

API WELL NO.

<u>47 - 103 - 01708</u>

WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DIS (IF "GAS") PRODUCTION STORAGE DEEP LOCATION: ELEVATION 1,176' WATERSHED Betsy	_ SHALLOW	
DISTRICT Grant COUNT		
QUADRANGLE Pine Grove 7.5' SURFACE OWNER Dallison Lumber, Inc. OIL & GAS ROYALTY OWNER The Hoyt Foundation		2,100 Ac. 07/19/2013
LEASE NO52265-50	ELNOT NONENCE	
PROPOSED WORK: DRILL CONVERT DRILL DEEPER STIMULATE X PLUG OFF OLD FORMATIO FORMATION OTHER PHYSICAL CHANGE	N PERFORATE NEW	

PLUG	AND	ARANDON	CLEAN	OUT	AND	REPLUG	

TARGET FORMATION __Gordon

WELL OPERATOR HG Energy, LLC

ADDRESS 5260 Dupont Road Parkersburg, WV 26101

DESIGNATED AGENT Mike Kirsch

ADDRESS 5260 Dupont Road Parkersburg, WV 26101

FORM IV-6