

#### 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 30, 2014

## WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-3304066, 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: E. A. DUNCAN 8

Farm Name: BALDINGER, JAMES E.

API Well Number: 47-3304066 Permit Type: Re-Work

Date Issued: 07/30/2014

### 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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **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 with 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.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Page	3	of	4	
			1.14	_

## STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Ope	rator: HO	G Energy, LLC					-
2) Operator's	s Well Number:	E. A. Du	ncan No. 8		3) Eleva	tion1187'	-
4) Well Typ	(a) Oil		Gas	-	ound Storage		
5) Proposed	Target Formati	ion(s):	Gordon				4
6) Proposed	Total Depth:	2,8	02ft.				enw
7) Approxin	nate fresh water	strata depths:		280'			5PW 6/16/2014
333	nate salt water o			1600'			6/16/20
9) Approxim	nate coal seam	depths:		300'			
	l contain coal se	eams tributary to	o active mine	? Yes		lo X_	
	Well Work:					2510') & Maxton Sand	ls (2320' to 2332')
11) 110[	11 011 (1 0111						
12)		CAS	ING AND T	UBING PROGRA	M		
TYPE	SF	PECIFICATION	NS	FOOTAGE I	NTERVALS	CEMENT	2
	Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)	
Conductor							5
Fresh Water	8 5/8"	R-3 ST & C	20#	400'	400	Use existing casing	40
Coal							_
Intermediate		-					=
Production	4 1/2"	J-55	10.5#	2730'	2730'	450 sks	-
Tubing							-
Liners							_
Packers: Kind Sizes Dept						Omce:	ECEIVED of Oil and Gas
Fee(s) Paid		For Offic Well Work P		Gas Use Only	lamation Fund		V 2 5 2014
Plat	WW-9	ww	7-2B	Bond	(Type)	Environme	pariment of

Office of Oil and Gas

WV Department of Environmental Project 14

#### PLUG BACK PROCEDURE FOR

#### **RE-WORK OF E.A. DUNCAN 8**

API: 47-033-04066

Addendum to line 11 of the Form WW-2B describing proposed Well Work:

In order to stimulate and produce the Gordon and Thirty Foot Sand, the Fifth Sand injection perforations must be plugged off. Therefore a cast iron bridge plug or similar retrievable plug must be set above the existing perforations from 2661' – 2681'.

Please make sure that the completion report that you are required to submit includes the (as built) well detail.

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

	We	11 Operator	's Report of W	Well Work		
Farm name:	BALDINGER,	JAMES E.	Operator	Well No.:	E.A. DUNC	AN #8
LOCATION:	Elevation:	1,187.00	Quadrangle: WC	OLF SUMMIT		
	Latitude:	12050 Feet	South of 39 West of 80	Deg. 20Min	. 0 Sec.	***
P. VIE	NZOIL PRODU O. BOX 5519 ENNA, WV 26	105-5519	Casing	Used in Drilling		Cement    Fill Up  Cu. Ft.
Agent: JAN	MES A. CREWS		Size		1	
Permit Issu	TIM BENNETT	09/19/94	8-5/8"	399.8'	399.8'	125 sks
Well work (	Commenced: Completed: gging granted on:	03/24/95	4-1/2"	2730.25'	2730.25	   450 sks
Rotary X Total Depth		Rig				<u> </u>
Salt water	depths (ft)	N/A_	-			
Is coal bei	ing mined in s (ft):296'	area (Y/N) -303'	<u>? N</u>			<u> </u>
OPEN FLOW I	DATA *Water	: Injection We	11			
Gas: 1	Final open f	flow * low * flow between	nd MCF/d Oil: In MCF/d Fi en initial and psig (surface	nitial open inal open f I final tes	flow * low * ts *	Bbl/d
Second	d producing	formation_	MCF/d Oil: In	Pay zone	depth (ft	)Bb1/d
Gas: 1	Initial open Final open f		MCF/d OII: II	inal open f	low	Bb1/d
	rime of open	flow between	en initial and	d final tes	ts	Hours
Statio	c rock Press	ure	_psig (surface	e pressure)	Office of	Hours
INTERVALS,	FRACTURING	OR STIMULA	THE FOLLOWING TING, PHYSICALED GEOLOGICALED WELLBORE.	AL CHANGE, AL RECORD	ETC. 2).	THE WELL

For: PENNZOIL PRODUCTS By: April 28, 1995 Timothy P. Roush

#### TREATMENT

Perforated Fifth sand from 2666'-2668' KB with 12 holes. Fractured with 300 gals. 15% HCL, 188 bbls. gelled water and 5000 lbs. 20/40 sand.

#### WELL LOG

Sand and Shale	0'- 296'
Coal (Pittsburgh Coal)	296'- 303'
Sand with Shale streaks	303'- 483'
Sahle w/sand streaks	483'- 783'
Sand	783'- 852'
Shale w/sand streaks	852'- 998'
Sand	998'-1115'
Shale w/sand streaks	1115'-1269'
Sand	1269'-1354'
Shale	1354'-1632'
Limetston (Little Lime)	1632'-1647'
Sahle	1647'-1682'
Limestone (Big Lime)	1682'-1741'
Sand (Big Injun)	1741'-1808'
Shale	1808'-2245'
Sand (Fifty foot)	2245'-2257'
Shale	2257'-2319'
Sand (Thirty foot)	2319'-2332'
Shale and Sand	2332'-2445'
Sand (Gordon)	2445'-2476'
Shale	2476'-2484'
Sand (Fourth)	24841-25081
Shale	2508'-2661'
Sand (Fifth)	2661'-2681'
Shale	2681'-2802'
T.D.	2802'

4
Copy

1)	Date:	June 12, 20	14		
2)	Operator's W	ell Number			
	E. A. Dur	ican No. 8			
3)	API Well No	47	-	033	 4066
		State		County	Permit

### STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	NOTICE AND APPLI	CATION FOR A WEI	LL WORK PERMIT
4) Surface	Owner(s) to be served:	5) (a)	Coal Operator:
(a) Name		Name	Patriot Coal Corporation
Address		Address	12312 Olive Boulevard
	Salem, WV 26426		St. Louis, Missouri 63141
(b) Nam	e	(b) Coal	Owner(s) with Declaration
Address		Name	NA
		Address	
(c) Nam			
Address		Name	
		Address _	
6) Inspecto	r Sam Ward	(c) Coal	Lessee with Declaration
Address	P. O. Box 2327	Name	NA
	Buckhannon, WV 26201	Address	
Telepho	ne (304) - 389-7583		
	TO THE PERSON(S) NAME	D ABOVE TAKE NO	OTICE THAT:
	Included is the lease or leases or o	other continuing contra	ct or contracts by which I hold
-		OR	of or own many of
X	Included is the information requir		cle 6, Section 8(d) of the Code
7	of West Virginia (see page 2)		A Secretary of the Secretary
Lee	ertify that as required under Chapter 2	22 of the West Virginia	a Code I have served copies
of	his notice and application, a location	plat, and accompanying	ng documents pages 1 through 4
	the above-named parties, by:		
	Personal Service (Affidavit attache	di	
- X	Certified Mail (Postmarked postal	receipt attached)	
	Publication (Notice of Publication	attached)	
-			· · · · · · · · · · · · · · · · · · ·
I ha	ive read and understand Chapter 22-0	6 and 38 CSR 11-18, at	nd I agree to the terms and conditions
of any perm	it issued under this application.		1 6 90 to to the first tendent
I co	ertify under penalty of law that I have	personally examined	and am familiar with the information submitted
on this appl	g the information, I believe that the in	that based on my inqu	iry of those individuals immediately responsible
I a	n aware that there are significant nen	alties for submitting fa	alse information, including the possibility of
fine and imp	prisonment.	anties for succintuing it	
y		Well Operator	HG Energy, LLC
WEST	OFFICIAL SEAL NOTARY PUBLIC		Description of Maria
18/3- 3	STATE OF WEST VIRGINIA	Ву:	Diane CWhite Diane C. White
(E)	TINAL PETHTEL	Its:	Accountant Office of Oil and C
1.	HG Energy, LLC 5260 Dupont Road	Address	5260 Dupont Road
Sugar	Parkersburg, West Virginia 26101 My Commission Expires Nov. 12, 2018		Parkersburg, WV 26101 2 5 3014
		Telephone	(304) 420-1119
0.1	1	· 0	DOM Emilian Dispartment of
Subscribed	and sworn before me this day	1 Hall	CO
	In L.	unes	Notary Public
My commis	ion expires 100.2 /	2,2018	08/01/2014
A STATE OF	7.00 13		





Form V	VW-2A(1)
(6/94)	

Operator's Well No.	E. A. Duncan No. 8
Option	

## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

- the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessce, etc.	Royalty	Book/Page
S. R. Harrison et al	South Penn Oil Company	1/8	112/210

Deed, Assignment and Bill of Sale dated July 3, 1963, from South Penn Oil Company to Pennzoil Company, Wetzel County, Book 5, Page

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drillingerations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

#### Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby ackowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator

RECEIVED
Office of Oil and Gas

Well Operator:	HG Energy, LLC	JUN 2 5 2014
By:	Diane C. White	Diane Cushite epartment of
lts:	Accountant	epartment of
		Environmental 07 Precion

Form WW-9 Rev. 10/94

	Page	3	of	3
API	Number 47-	033	(÷)	4066
Operator's Well No.	E. A. I	duncan	No. 8	

## 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 Energy, LLC			OP Code 494497948			
Watershed	Right Prong	of New Creek		Quadrangle	Wolf	Summit 7.5'	
Elevation	1187'	County	Harrison	District	Т	en Mile	
Description of a	anticipated Pit Waste:	Fluids encountered	ed while plugging back a	and stimulating shallo	w well.		
Will a synthetic	ate more than 5,000 bbls of c liner be used in pit? osal Method For Treated Pi X Land Applicati	Yes it Wastes:	proposed well work?  If so, what mil.?	Yes 20 Mil.	No_	5pw 6116120	14
-		njection (UIC Permit N	lumber			6/16/2	)
	Reuse (at API	Number					)
_		al (Supply Form WW-9	for disposal location)				
		Explain					)
	m anticipated for this well?  If oilbased, what type? Syr		ased, etc.	NA			
	isposal method? Leave in		ffsite, etc.	Leave in Pit			_
- 1	f left in pit and plan to sol andfill or offsite name/per	idify, what medium wil			Native soil	, cement, lime	
issued on Au that the prov applicable lav I	certify that I understar gust 1, 2005, by the Off isions of the permit are w or regulation can lead certify under penalty of	ice of Oil and Gas of e enforceable by law. I to enforcement act f law that I have per	the West Virginia D Violations of any ter ion. sonally examined an	epartment of Enviro m or condition of th d am familiar with	onmental ne genera the infor	l Protection. I Il permit and/o mation submit	underst or other cted on
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08/01/2014

No

Property Boundary	<b>A</b>
Road	
Existing Fence	_xx
Planned Fence	—/——/——/—
Stream	-7 -7
Open Ditch	>
Rock	<i>3</i>
North	N
Buildings	
Water Wells	@
Drill Site	• •

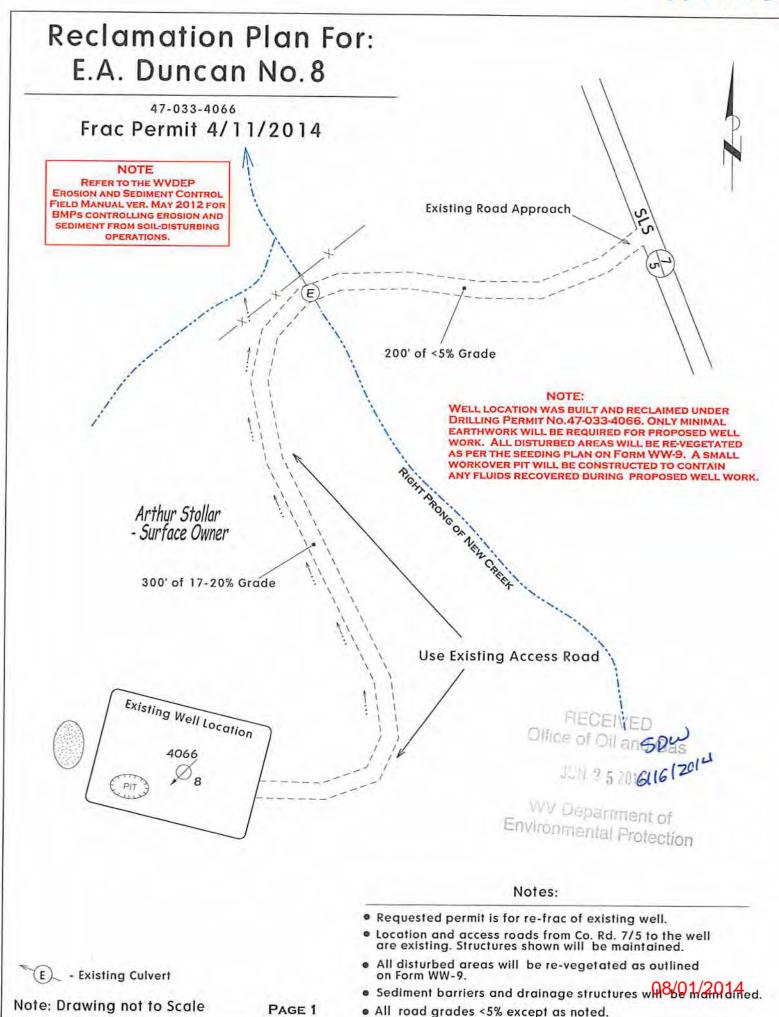
Title: O. 14 Gas Inspector

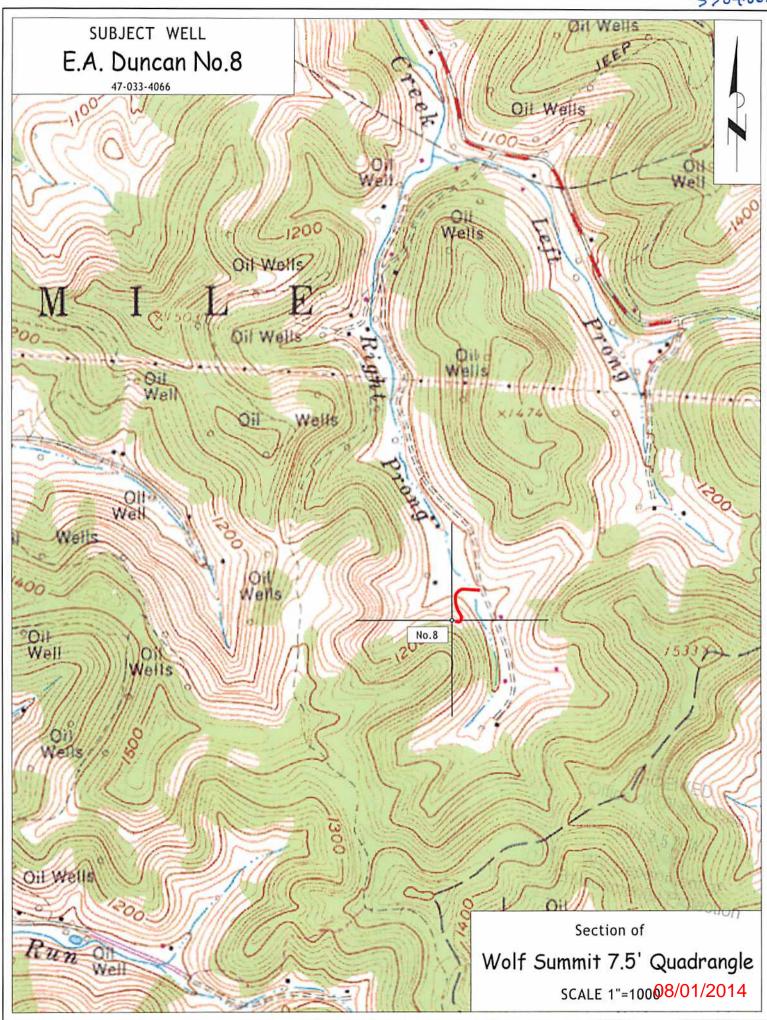
Field Reviewed?

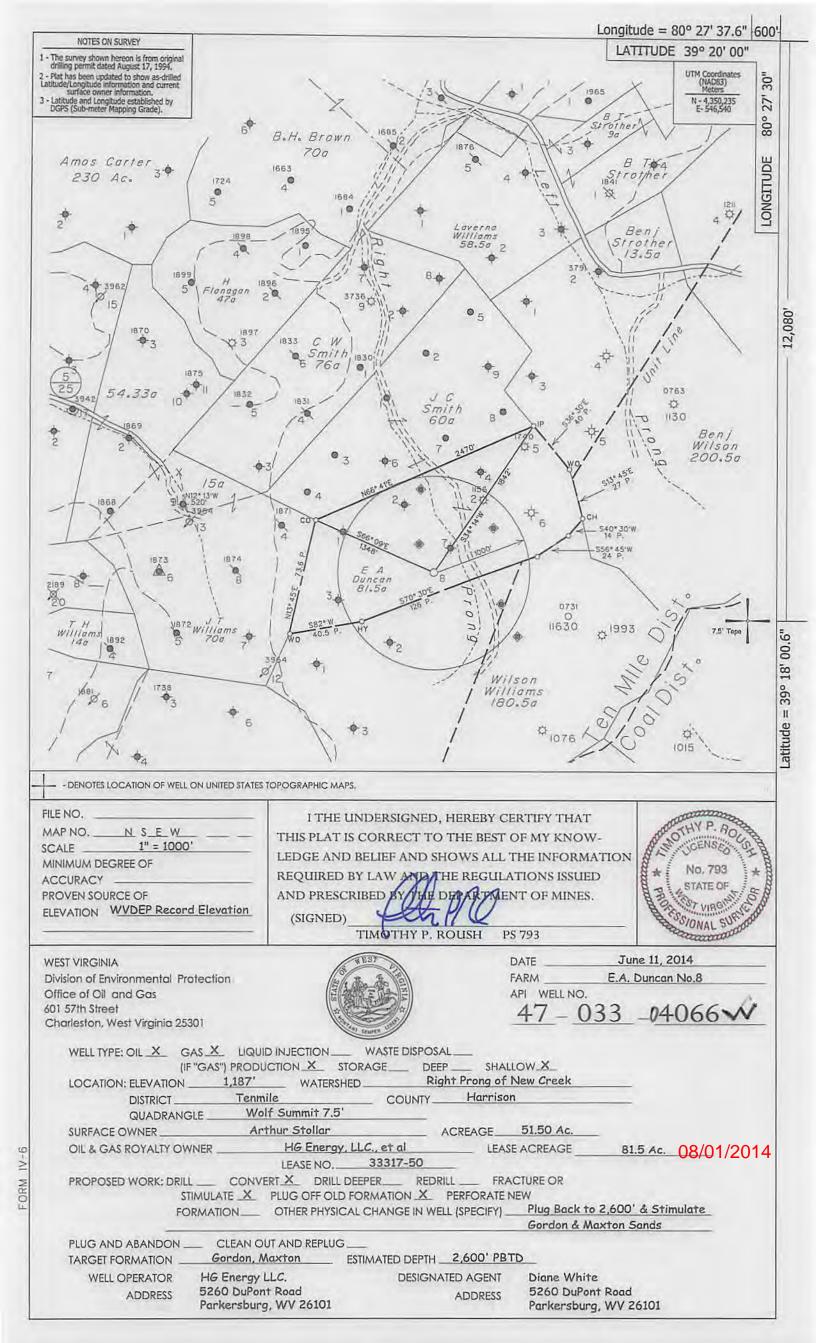
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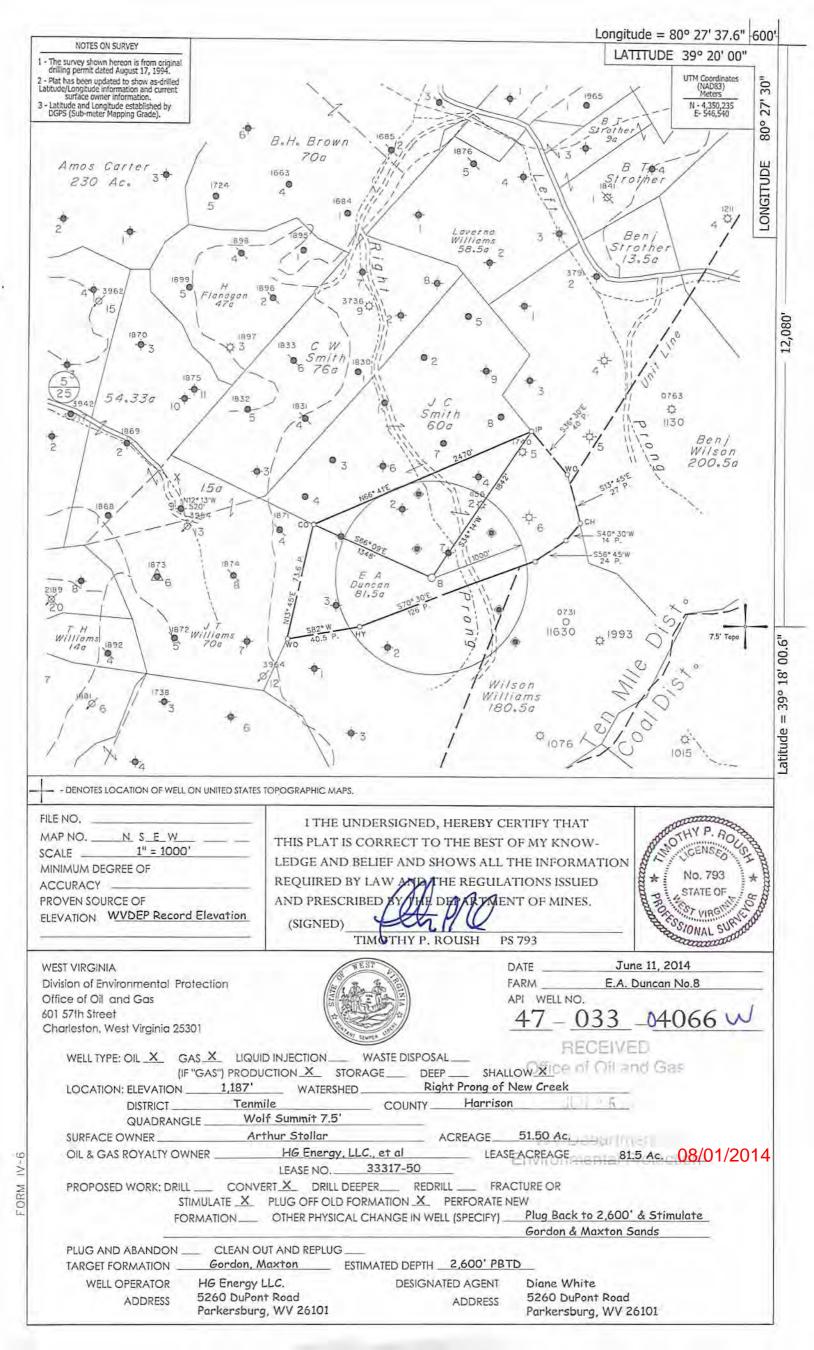
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Road	========	Spring	ينر ا
Fence	xx	Wet Spot	(2)>
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1		Waterway	$\leftrightarrow$ $\leftarrow$
Stream		Cross Drain	
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			11111
North	N <sup>-</sup>	Pit: Compacted	\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{
ildings		Fill Walls	ATTITUTE OF THE PARTY OF THE PA
r Wells	W	Area of Land	
rill Site	l	Application of Pit Waste	(
		_	
		Area I	

Treatment: Acres Disturbed	Area Approx.	I 0.2 Ac.	Prevegetation pH_	
osed Revegetation Treatment: Acres Disturbed	Area Approx.	II 0.2 Ac.	·	
Lime 2 Fertilizer (10-20-20 or Equi	Tons/Acre or Consideration 500 2 Tons/Acre	Lbs./Acr	6.5 e (500 lbs. Minimum)	
	SEED MI	XTURES		
Seed Type Tall Fescue	s/Ac. 0 5	Seed T Tall Fes Ladino	cue	Lbs/Ac. 40 5
ach:	oo for land amilicati	on		
ach: awing(s) of road, location, pit and proposed are otocopied section of involved 7.5' topographic	sheet.			
Plan approved by:	Want			
			A 1	16/2014











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

(304) 863-3172 - Fax

JK 26930

June 12, 2014

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, West Virginia 25304

RE: E. A. Duncan No. 8 (47-033-4066)

Ten Mile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-2A, WW-2A(1), WW-2B, WW-9, mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above-captioned producing well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Should you have any questions please call me at 304-420-1119 or email me at dwhite@hgenergyllc.com.

Very truly yours,

Diane C. White

Diane C White

Enclosures

cc: Arthur Stoller - Certified

Patriot Coal Corporation - Certified

Sam Ward - Inspector

Office of Oil and Gas

JUN 2 5 1 14

Wy Espartment of Environmental Protection