



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

August 13, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4900605, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 10

Farm Name: DARRAH , GEORGE & JOAN ., E.

API Well Number: 47-4900605

Permit Type: Plugging

Date Issued: 08/13/2013

Promoting a healthy environment.

49 00605 P

WW-4B
Rev. 2/01

1) Date: July 9, 2013
2) Operator's Well Number James Yost No. 10
3) API Well No: 47 - 049 - 0605
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE: Oil Gas Liquid Injection Waste Disposal
(If "Gas", Production Underground Storage) Deep Shallow
5) LOCATION: Elevation: 1276' Watershed: Bennefield Prong
District: Paw Paw 05 County: Marion 49 Quadrangle Mannington 7.5' 457
6) WELL OPERATOR: HG Energy, LLC 7) DESIGNATED AGENT: Michael G. Kirsch
Address: 5260 Dupont Road Address: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name: Bill Hendershot Name: Lucas Well Service
Address: 403 James Street Address: 1604 Race Street
Mannington, WV 26582 Parkersburg, WV 26101

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

CASING	
8 1/4"	1,250
6 5/8"	1,960'
5 3/16"	2,160

TD - 2,015' Coal : Pittsburgh - 683'
Check TD & if necessary, clean out to 2,015'.
Pull 5 3/16" Casing - SHOULD ALREADY BE PULLED
Plug No. 1 2,015' - 1,800'
Pull 6 5/8" Casing (Est. - 1,500')
Rip 8 1/4" Casing from 1,300' 1,200', 750'-650' & through Coal from 685' - 675'
Plug No. 2 1,500' - 1,400' 1350' - 1450'
Plug No. 3 1,300' - 1,200'
Plug No. 4 750' - 650'
Rip & pull 8 1/4" Casing (Est. 300')
Plug No. 5 350' - 250'
Plug No. 6 100' - Surface

JWM
8/12/2013

Operational Notes:

Erect Monument with API No.
Note: 6% Gel between all cement plugs.
Cement Plugs are Class A, Regular Neat Cement, & expanding cement through all coal seams
Cement tops will be tagged.
Attempts will be made to recover as much casing & tubing as possible
Casing recovery is based on previous experience in this area

OFFICE USE ONLY

PLUGGING PERMIT

Permit Number _____ Date _____

This permit covering the well operator and the well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual work has commenced.

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires _____ unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	WPCP	Other
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Chief, Office of Oil & Gas

NOTE: Keep one copy of this permit posted at the plugging location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator

Received

AUG - 2 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

**SOUTH PENN NATURAL GAS CO.
NEW WELL REPORT**

LEASE No. 156 100 ACRES WORKING DISTRICT Buffalo
Yost, James FARM WELL No. 10 N. 10 S. E. 21 W.
Paw Paw DISTRICT OR TOWNSHIP Marion COUNTY QUAD.
 LOCATION MADE _____ 19____ DRILLING COMMENCED August 12, 1899 19____
 RIG COMMENCED July 25, 1899 19____ DRILLING COMPLETED September 12, 1899 19____
 RIG COMPLETED August 5, 1899 19____ DEPTH 3142 SAND Fifth
 RIG CONTRACTOR Wm. Boyd DRILLING CONTRACTOR H. H. Largey
 ELEVATION: FLOOR _____ GROUND _____ WORK ORDER No. _____

FORMATION RECORD

KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST	KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST
ductor		14							
g Injun	2050								
t Pay - show	2118			oil					
d Pay - good	2136			(used gas 28 days)					
tal Depth		2160							
illed down to									
ifth Sand in June, 1902									
s at	3095								
fth Sand	3115								
t Pay - Oil & Gas	3117								
tal Depth		3130							
tal Depth 10-9-09		3142							
THIS WELL PLUGGED BACK TO BIG INJUN. SEE "REMARKS" ON REVERSE SIDE.									

Received

WV Dept. of Environmental Protection
Office of Oil and Gas

49 00605P

NEW WELL REPORT - CONT'D

INITIAL TORPEDO RECORD	CASING AND TUBING RECORD						
	SIZE	PUT IN WELL			PULLED OUT		
		TRANSFER NO.	FEET	INCH	TRANSFER NO.	FEET	INCH
Size of Shot	10		720		720		
Name of Torpedo Co.	8 $\frac{1}{2}$		1250				
No. of Quarts	6-5/8		1960				
Length of Shell	5-3/16		2160		2160		
Diameter of Shell							
Length of Anchor							
Depth of Shot							
Bottom of Shot							
Weight of Fluid in Hole When Shot							
Remarks:							

PACKER RECORD				
INITIAL PRODUCTION FIRST 24 HOURS	KIND	SIZE	DEPTH SET	DATE SET
	Hook Wall	5-3/16 x	1967' 10"	4-17-15
		6-5/8	in 95 fts.	

REMARKS: ABANDONED in Fifth Sand and pulled to Injun Sand November 20, 1909, as follows: 4 $\frac{1}{2}$ " or all pulled (53526"); 5-3/16" casing all pulled (2160'); 1st plug set at 3095', filled up 85' crushed stone and sand pumpings. 2nd plug set at 3010', filled up 60' with crushed stone and pumpings. 3rd plug set at 2620' filled up 189' with crushed stone and sand pumpings. 4th plug at 2160', filled up 7' with crushed stone.

SHOT November 23, 1909, with 20 quarts and started pumping at 5 bbls per day in Injun.

APPROVED

SUPERINTENDENT

TORPEDO RECORD

Shot No.	Qts.	Size Shell	Top Shot	Bottom	Result
-00	12				
-01	20				
-02	20				
4-09	40	2, 20 qt., 4 $\frac{1}{2}$ x 6'9"	1st at 3117,	2nd at 3116	
3-09	40	2, 20 qt., 4 $\frac{1}{2}$ x 6'9"	1st at 2136,	2nd at 2135	
-42	30	4 $\frac{1}{2}$ x 10'	2132	2142	Tamp Shot

Received

AUG - 2 1909

Office of Oil and Gas
WV Dept. of Environmental Protection

1) Date: July 9, 2013
2) Operator's Well Number
James Yost No. 10
3) API Well No: 47 - 049 - 0605 P
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name George & Joan Darrah ✓
Address 4616 Daybrook Road
Fairview, WV 26570
(b) Name Charles & Susan Underwood ✓
Address 146 Glades Run Road
Fairview, WV 26570
(c) Name REKAB, LLC ✓
Address P. O. Box 127
Fairview, WV 26570
6) Inspector Bill Hendershot
Address 403 James Street
Mannington, WV 26582
Telephone 304-206-7750

5) (a) Coal Operator:
Name NA
Address _____
(b) Coal Owner(s) with Declaration
Name CONSOL Energy ✓
Address 6126 Energy Road
Moundsville, WV 26041
Name _____
Address NA
(c) Coal Lessee with Declaration
Name _____
Address NA

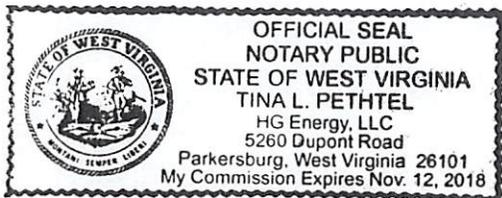
TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- 1) The Application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- 2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. 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 permit to plug and abandon a well with the Chief, of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat 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 mailing or delivery to the Chief.

Received
AUG - 2 2013
Office of Oil and Gas
Dept. of Environmental Protection



Well Operator HG Energy, LLC
By: Diane C White Diane C. White
Its: Accountant
Address 5260 Dupont Road
Parkersburg, WV 26101
Telephone (304) 420-1119

Subscribed and sworn before me this 9 day of July 2013
Tina L Pethel Notary Public
My Commission Expires Nov 12, 2018

Legend

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Filter Strip	
North		Pit: Cut Walls	
Buildings		Pit: Compacted Fill Walls	
Water Wells		Area of Land Application of Pit Waste	
Drill Site			

Proposed Revegetation Treatment: Acres Disturbed Area I Approx. 0.5 Ac. Prevegetation pH _____

Area II Approx. 0.2 Ac.

Lime 2 Tons/Acre or Correct to pH 6.5
 Fertilizer (10-20-20 or Equivalent) 500 Lbs./Acre (500 lbs. Minimum)
 Mulch Straw 2 Tons/Acre

SEED MIXTURES

<u>Area I (Location)</u>		<u>Area II (Road)</u>	
Seed Type	Lbs./Ac.	Seed Type	Lbs./Ac.
Tall Fescue	<u>40</u>	Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>	Ladino Clover	<u>5</u>

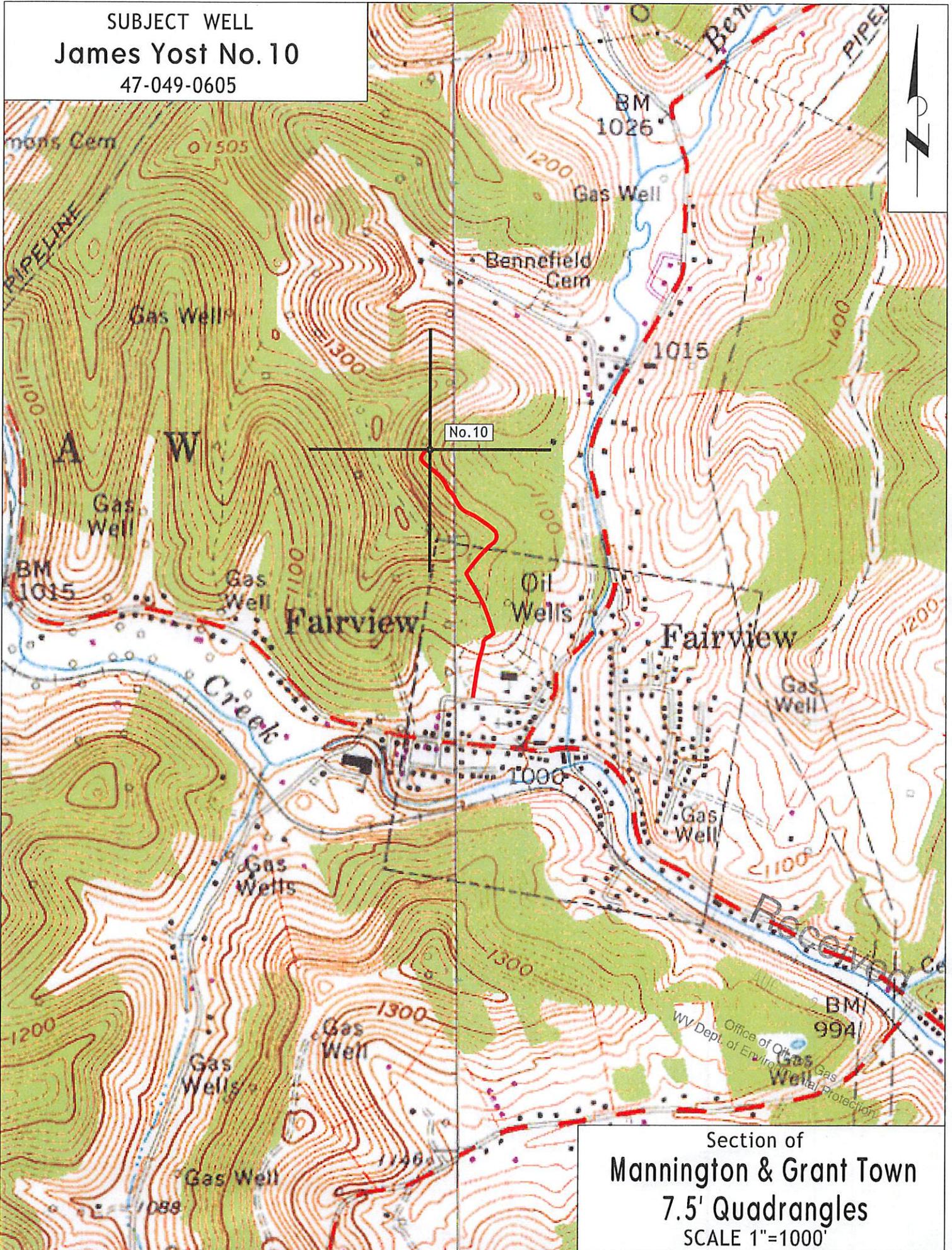
Attach:
 Drawing(s) of road, location, pit and proposed area for land application
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *William H. ...*
 Comments: _____

Title: ENVIRONMENTAL INSPECTOR Date: 7-16-13

Field Reviewed? Yes _____ No _____

SUBJECT WELL
James Yost No. 10
47-049-0605



Section of
Mannington & Grant Town
7.5' Quadrangles
SCALE 1"=1000'

4900605F

WW-7
5-02

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 049 - 0605 WELL NO: No.10

FARM NAME: James Yost

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Marion DISTRICT: Paw Paw

QUADRANGLE: Mannington 7.5'

SURFACE OWNER: George & Joan Darrah et al.

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,383,561

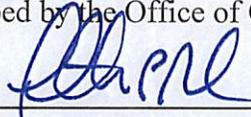
UTM GPS EASTING: 564,352 GPS ELEVATION: 389 m. 1276 FT

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

 Timothy P. Roush
Signature

Professional Surveyor
Title

July 3, 2013
Date

Received
AUG - 2 2013
Office of Oil and Gas
WV Dept. of Environmental Protection