



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 23, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4900512, 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: 4
Farm Name: ERWIN, J. L.
API Well Number: 47-4900512
Permit Type: Plugging
Date Issued: 07/23/2014

Promoting a healthy environment.

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.
3. Well work activities shall not constitute a hazard to the safety of persons.

49 00512 P

WW-4B
Rev. 2/01

1) Date: June 10, 2014
2) Operator's Well Number J. L. Erwin No. 4
3) API Well No: 47 - 049 - 0512
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 X Gas _____ Liquid Injection _____ Waste Disposal _____
(If "Gas", Production _____ Underground Storage _____) Deep _____ Shallow _____
5) LOCATION: Elevation: 1496' Watershed: Whestone Run
District: Mannington County: Marion Quadrangle Glover Gap 7.5'
6) WELL OPERATOR: HG Energy, LLC 4.94E+08 7) DESIGNATED AGENT Micheal G. Kirsch
Address 5260 Dupont Road Address P.O. Box 5519
Parkersburg, WV 26101 Vienna, WV 26105-5519
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Bill Hendershot Name To Be Determined Upon Approval of Permit
Address 403 James Street Address _____
Mannington, WV 26582

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

GEL DEFINITION: FRESH WATER WITH A MINIMUM OF 6% BENTONITE (BY WEIGHT) AND NO OTHER ADDITIVES.

CASING	
8 1/4"	1,477'
6 5/8"	2,476'

TD- 3,209' PGH Coal - 984'-992' Mapleton Coal: 884'-890'
Plug No. 1 3,170' - 3,070' (Tag)
Rip 6 5/8" casing free & POH (Est. 1,500')
Plug No. 2 2,900' - 2,800'
Plug No. 3 2,300' - 2,200'
Rip 6 5/8" casing from 2,000' to 1,900'
Plug No. 4 2,000' - 1,900'
Rip 8 1/4" casing from 950'; to 850' & every 1' through coal from 992' - 983' & 892'-882'
Plug No. 5 950' - 850'
Plug No. 6 Rip 8 1/4" casing free & POH (Est. 400')
Plug No. 7 450' - 350'
Plug No. 8 100' - Surface

GEL SPACERS BETWEEN ALL CEMENT PLUGS.

← PLUG AQ. 1527' - 1427' (CASING CUT & ELEVATION)

SHOT 3188' - 3198'

Cement Plugs are Class A, Regular Neat Cement
Cement tops will be tagged
All attempts will be made to recover as much casing and tubing as possible

OK [Signature]

OFFICE USE ONLY

PLUGGING PERMIT

Permit Number _____ Date _____ 19____

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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RECEIVED
Office of Oil and Gas

JUN 23 2014

Chief, Office of Oil & Gas
Environmental Protection

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

Well No. **7606** *J. L. Arwin* Farm.
 Lease No. *Wright* Township *Marion* County *WV*
 Rig built by *W. Blair*
 Well drilled by *J. C. Murphy* Contractor.
 Began drilling *May 10* 190*2* Completed *June 25* 190*2*

\$1,1497.00 Cr. 1495.50

Rock Formation	Top	Bottom	Remarks
Condensate		16	Shot Lin Man
Mapleton Coal	584	590	98ft.
Pittsburg "	982	992	2258
Dunkard Sand	1461	1500	3152
Gas	1700	1825	3188
Wabash	1825		3209.
Salt Sand	2000	2080	
Quail Cove	2253	2258	
City Limestone	2258	2320	
City Gas	2320	2470	
50 Foot Sand	2470	2470	
Oil Gas	2470		
Shay Sand	3130	3180	
Limestone		3184	
Oil		3188	
Total Depth			3209

George P. Arwin
 Cut in Pelled Letter

10" 245 - 248
 5" 1477-2 1477-2
 3" 2476-10 2476-10

W. P. Williams Supt

Shot 4/23/18 - 50 lbs.
 Shot 2-16-43 - 30 lbs. @ 3182-3192 ft. Open shot.



4900572P

WW-4A
Revised 6-07

1) Date: June 10, 2014
2) Operator's Well Number J. L. Erwin No. 4
3) API Well No: 47 - 049 - 0512
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 Stephen & Freda Moore ✓
Address 1008 Whetstone Road
Mannington, WV 26582
(b) Name Robert & Wilma Porter ✓
Address 74 Summer Place
Mannington, WV 26582
(c) Name _____
Address _____
6) Inspector Bill Hendershot
Address 403 James Street
Mannington, WV 26582
Telephone 206-7750

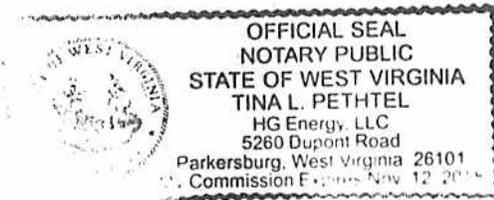
5) (a) Coal Operator:
Name CONSOL Energy
Address 1000 CONSOL Energy Drive ✓
Cannonsburg, PA 15317-6506
(b) Coal Owner(s) with Declaration
Name NA
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name NA
Address _____

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.



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

Subscribed and sworn before me this 10 day of June 2014

RECEIVED
Office of Oil and Gas
Tina L. Pethel
JUN 23 2014

Notary Public

My Commission Expires Nov 12, 2014

WV Department of
Environmental Protection

4900512P

7012 2920 0001 3227 9452

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MANNINGTON WV 26582

Postage	\$ 1.40	0330
Certified Fee	\$ 3.30	17
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.40	

Postmark Here
 PARKERSBURG, WV
 JUN 11 2014
 06/11/2014
 JLE4/SPS

Sent To
 Robert & Wilma Porter
 Street, Apt. No.; or PO Box No. 74 Summer Place ✓
 City, State, ZIP+4 Mannington, WV 26582

PS Form 3800, August 2006 See Reverse for Instructions

Received
 JUN 26 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection

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MANNINGTON WV 26582

Postage	\$ 1.19	0330
Certified Fee	\$ 3.30	
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.19	

Postmark Here
 PARKERSBURG, WV
 JUN 11 2014
 06/11/2014
 JLE4

Sent To
 Stephen & Freda Moore
 Street, Apt. No.; or PO Box No. 1008 Whetstone Road ✓
 City, State, ZIP+4 Mannington, WV 26582

PS Form 3800, August 2006 See Reverse for Instructions

7012 2920 0001 3227 9469

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CANNONBURG PA 15317

Postage	\$ 1.19	0330
Certified Fee	\$ 3.30	17
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.19	

Postmark Here
 PARKERSBURG, WV
 JUN 11 2014
 06/11/2014
 JLE4/USPS

Sent To
 CONSOL Energy ✓
 Street, Apt. No.; or PO Box No. 1000 CONSOL Energy Drive
 City, State, ZIP+4 Cannonsburg, PA 15317

PS Form 3800, August 2006 See Reverse for Instructions

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 Energy, LLC OP Code 494497948
 Watershed Whetstone Run Quadrangle Glover Gap 7.5'
 Elevation 1496' County Marion District Mannington
 Description of anticipated Pit Waste: Fluids encountered in plugging subject well
 Will a synthetic liner be used in pit? Yes Size of Liner? 20 mil
 Proposed Disposal Method For Treated Pit Wastes:
 Land Application
 Underground Injection (UIC Permit Number _____)
 Reuse (at API Number _____)
 Off Site Disposal (Supply Form WW-9 for disposal location)
 Other (Explain _____)
 Drilling medium anticipated for this well? Air, fresh water, oil based, NA
 - If oilbased, what type? Synthetic, petroleum, etc.
 Additives to be used? Water, soap, KCl
 Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA
 - If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust
 - Landfill or offsite name/permit number? NA

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

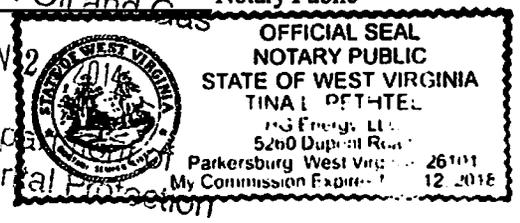
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Diane C White*
 Company Official (Typed Name) Diane C White
 Company Official Title Accountant

Subscribed and sworn before me this 10 day of June 2014

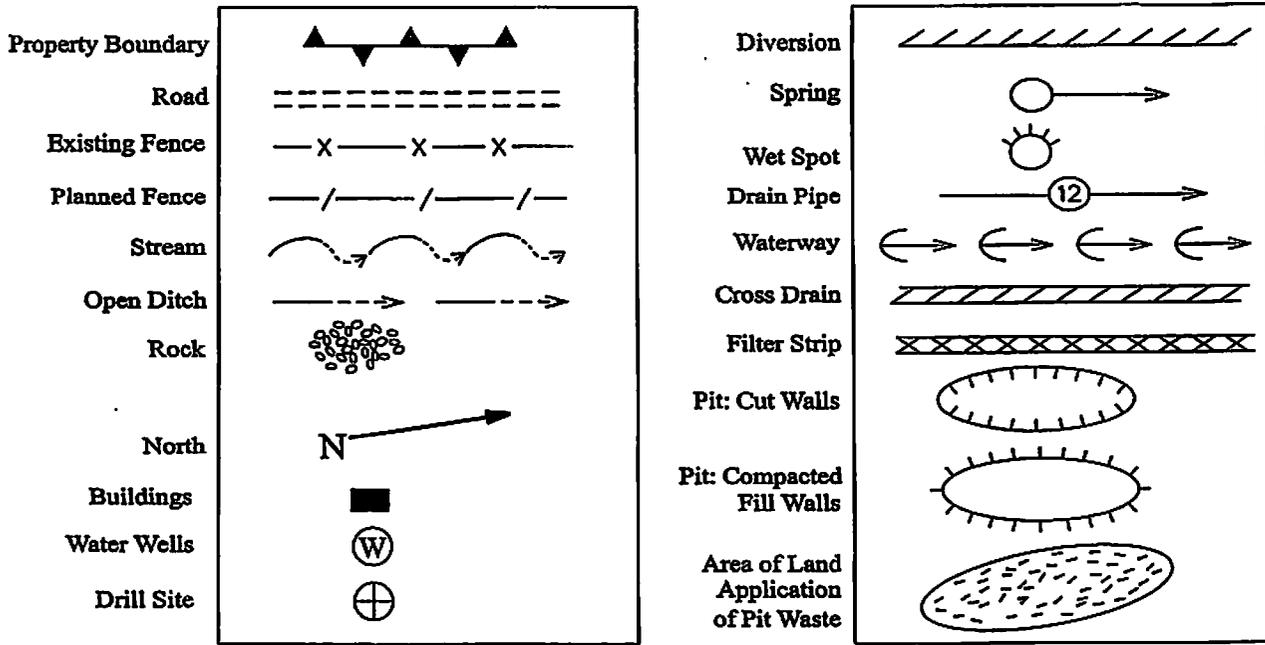
Jim Z Pelts Office of Oil and Gas

My commission expires 1100 12, 2018



WV Dept of Environmental Protection

Legend



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

Area II Approx. 1.2 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>	
Seed Type	Lbs./Ac.
Tall Fescue	40
Ladino Clover	5

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

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

Plan Approved by: [Signature]

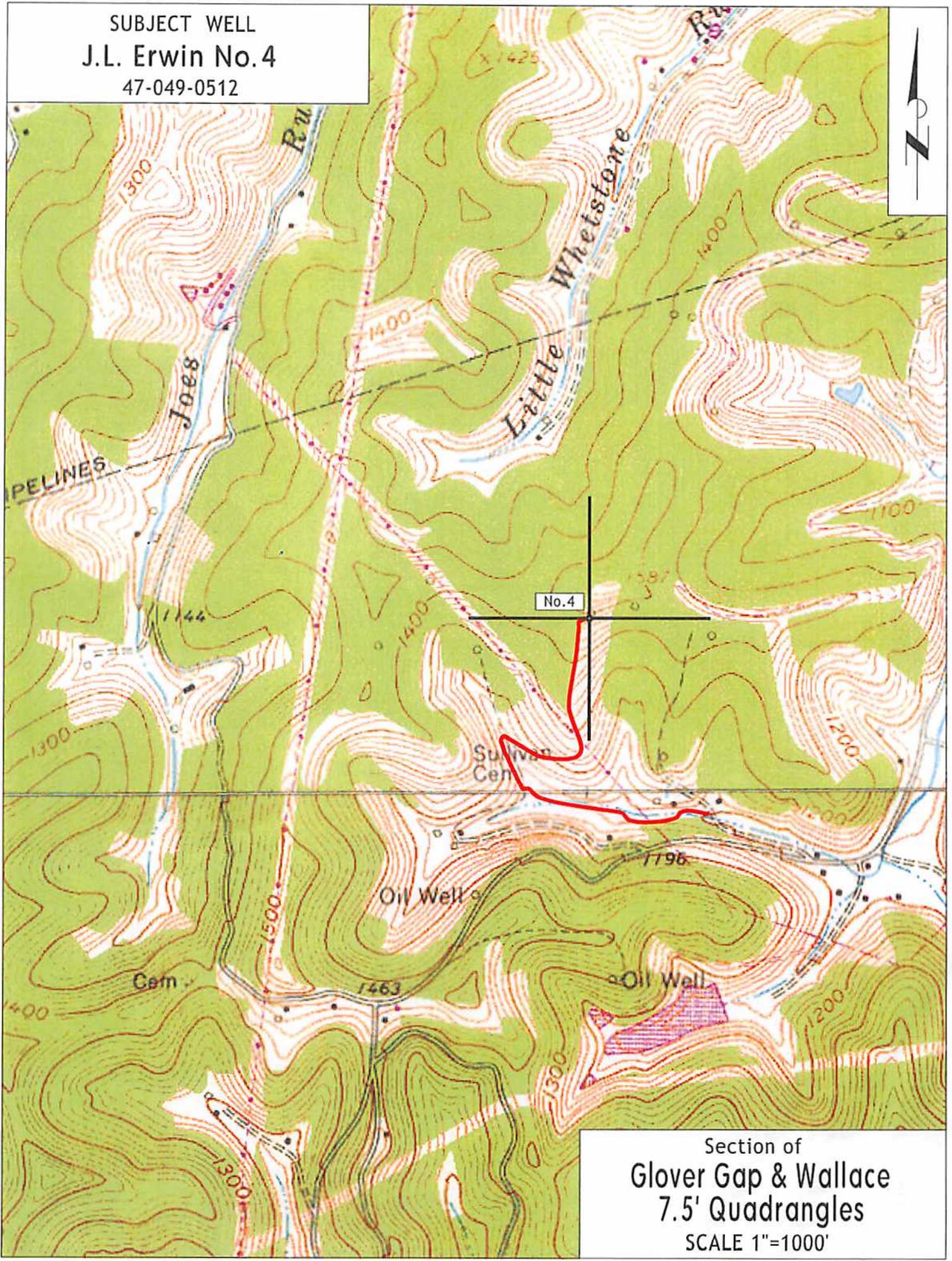
Comments: _____

Title: Environmental Inspector

Date: 6-13-14

Field Reviewed? _____ Yes _____ No

SUBJECT WELL
J.L. Erwin No. 4
47-049-0512



Section of
Glover Gap & Wallace
7.5' Quadrangles
SCALE 1"=1000'

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 049 - 0512 WELL NO: No.4

FARM NAME: J. L. Erwin

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Glover Gap 7.5'

SURFACE OWNER: Stephen & Freda Moore

ROYALTY OWNER: HG Energy, LLC et al.

UTM GPS NORTHING: 4,372,898 (NAD 83)

UTM GPS EASTING: 552,820 (NAD 83) GPS ELEVATION: 456 m. (1495.7ft)

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.

Diane C White Diane C White Designated Agent
Signature Title

June 3, 2014
Date

RECEIVED
Office of Oil and Gas
JUN 28 2014
WV Department of Environmental Protection

49 00512P



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

June 10, 2014

Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: J. L. Erwin No. 4 (47-049-0512)
~~Center District, Wetzel County~~
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record, copy of certified mailing receipt and a check in the amount of \$100.00 to cover the permit fee to plug and abandon the above-captioned well.

Very truly yours,

Diane C White

Diane C. White

Enclosures

cc: Stephen & Freda Moore - Certified
Robert & Wilma Porter - Certified
CONSOL Energy - Certified
Derek Haught - Inspector

RECEIVED
Office of Oil and Gas
JUN 23 2014
WV Department of
Environmental Protection