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**west virginia** department of environmental protection

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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](http://www.dep.wv.gov)

June 07, 2013

**WELL WORK PERMIT**  
**Secondary Recovery Well**

This permit, API Well Number: 47-3305746, 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: HIRAM LYNCH #139  
Farm Name: JUNKINS, EARL & BELVA  
**API Well Number: 47-3305746**  
**Permit Type: Secondary Recovery Well**  
Date Issued: 06/07/2013

**Promoting a healthy environment.**





WW-2B1

Well No. Hiram Lynch No. 139

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

Contractor Name Sturm Environmental Services  
 Well operator's private laboratory

Well Operator HG Energy, LLC  
Address 5260 Dupont Road  
Parkersburg, WV 26101  
  
Telephone 304-420-1119

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Susan Junkins  
RR 2, Box 119A  
Bristol, WV 26426

Gary & Ruth Ann Kennedy  
RR 2, Box 119  
Bristol, WV 26426

John & Brenda Scotchie  
RR2, Box 42  
Bristol, WV 26426

Linda Smith  
9046 Westville Rd  
Camden, Wyoming, DE 19934

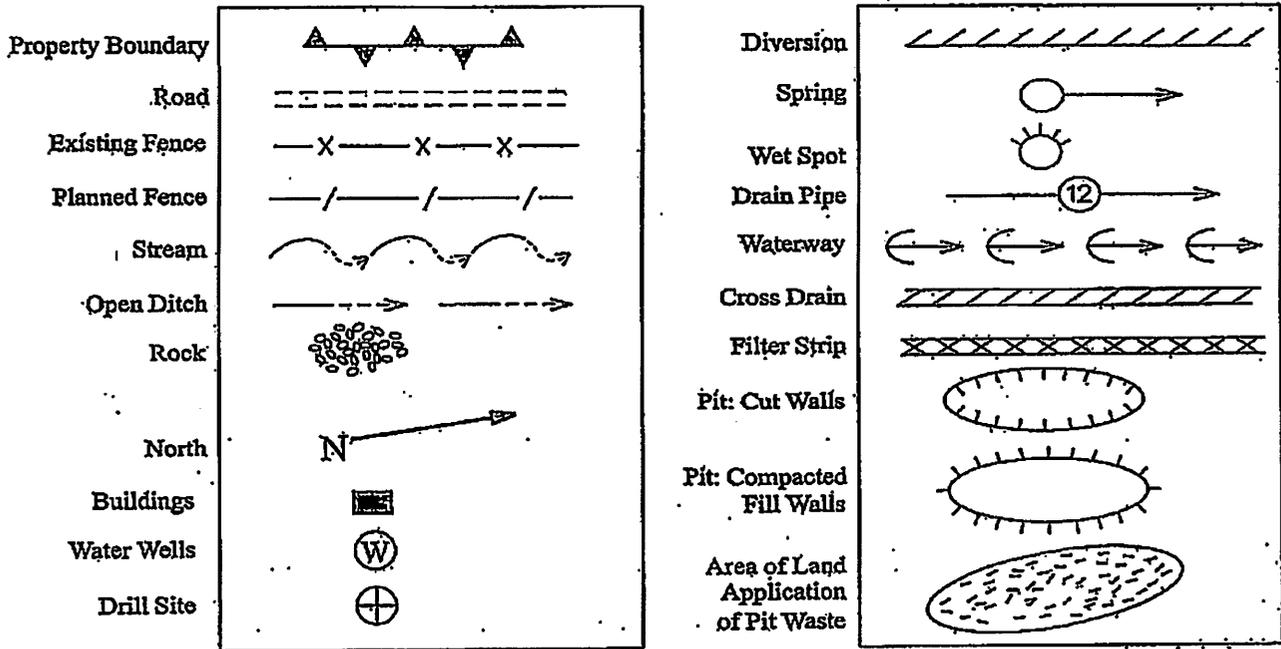
Dennis McAvey  
RR2, Box 41  
Bristol, WV 26426

RECEIVED  
Office of Oil & Gas  
APR 30 2013  
WV Department of Environmental Protection



WWQ Park

Legend



Area I  
 Proposed Revegetation Treatment: Acres Disturbed            Approx. 1.5 Ac. Prevegetation pH           

Area II  
 Approx. 1.0 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	40	Tall Fescue	40
Ladino Clover	5	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: *oil & Gas Inspector* Date: *25 APR 13*

Field Reviewed?  Yes  No

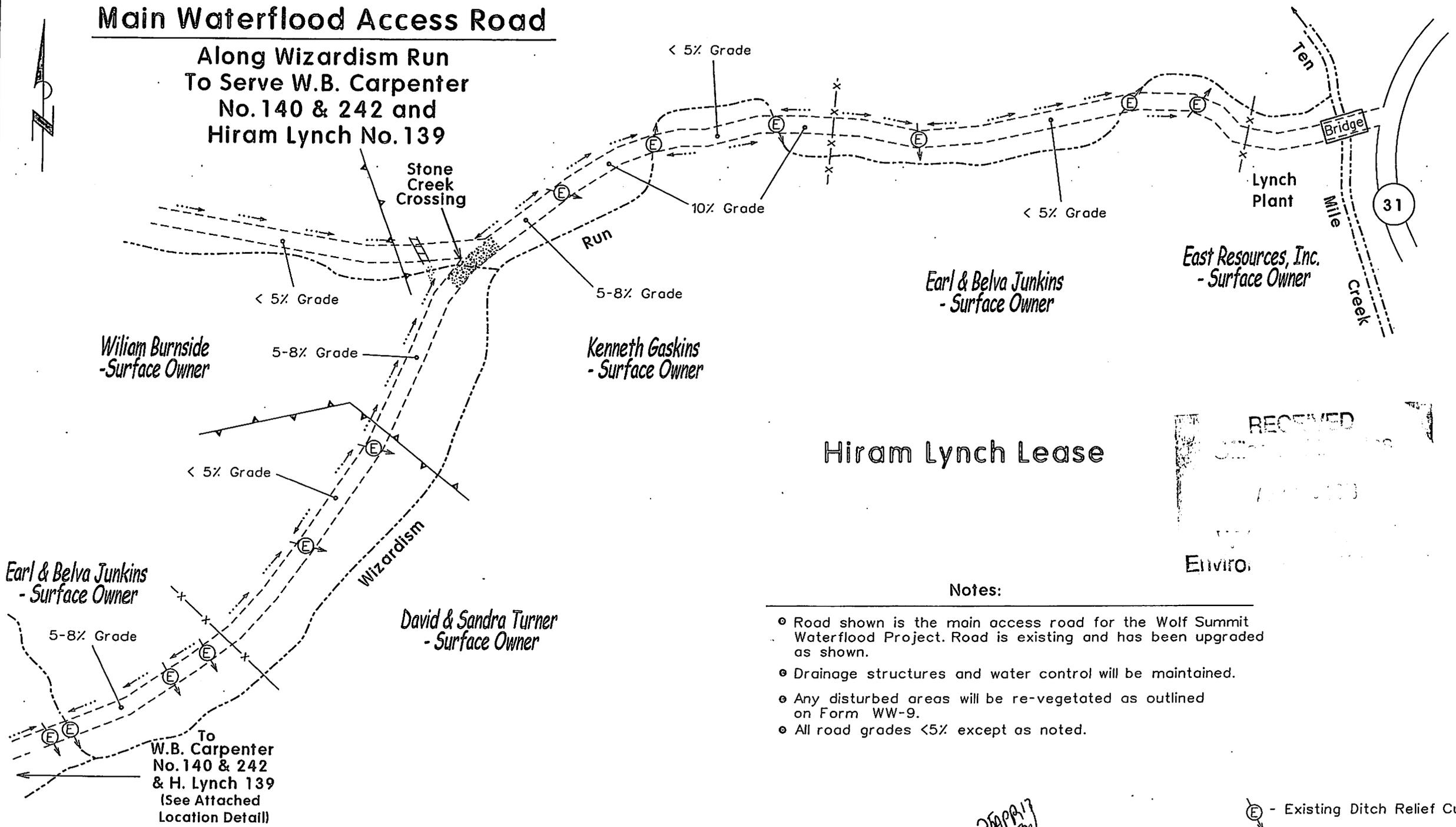
RECEIVED

Environmental Protection

33057465

# Detail of: Main Waterflood Access Road

## Along Wizardism Run To Serve W.B. Carpenter No. 140 & 242 and Hiram Lynch No. 139



### Hiram Lynch Lease

RECEIVED  
 JUN 10 1983  
 ENVIRO.

#### Notes:

- ⊙ Road shown is the main access road for the Wolf Summit Waterflood Project. Road is existing and has been upgraded as shown.
- ⊙ Drainage structures and water control will be maintained.
- ⊙ Any disturbed areas will be re-vegetated as outlined on Form WW-9.
- ⊙ All road grades <5% except as noted.

⊙ - Existing Ditch Relief Culvert

Note: Drawing not to Scale

2/2/83  
JAP

W.B. Carpenter Lease

3305746S

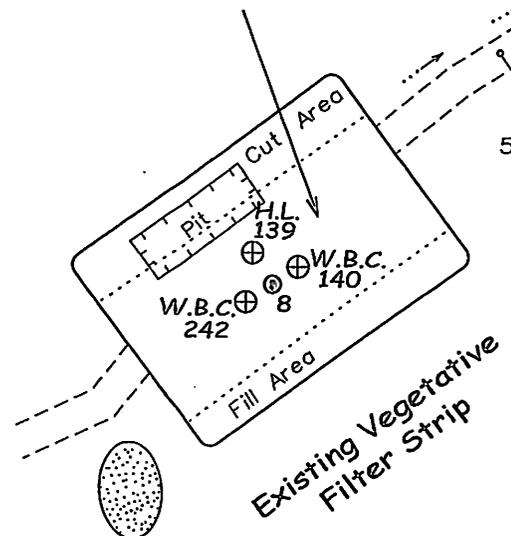
# Reclamation Plan For:

## W.B. Carpenter No. 140 & 242 & Hiram Lynch No. 139

RECEIVED  
Office of Oil & Gas  
APR 9 9 2013  
WV Department of  
Environmental Protection

**NOTE**  
REFER TO THE WVDEP  
EROSION AND SEDIMENT CONTROL  
FIELD MANUAL VER. MAY 2012 FOR  
BMPs CONTROLLING EROSION AND  
SEDIMENT FROM SOIL-DISTURBING  
OPERATIONS.

**NOTE:**  
Existing location for WB Carpenter  
No. 8 will be enlarged to drill  
new wells No. 139, 140 & 242.



500' of <5% Grade

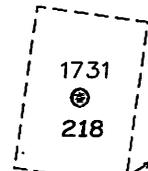
Use Existing Access Road  
for WB Carpenter No. 8

To WBC #100

200' of 5-8% Grade

Existing

500' of 20-22% Grade



300' of 15-20% Grade

To WBC #12  
Wizardism

Lease

(See Attached Detail  
for Access Road to  
County Road)

1.2 Mi. to  
SLS (31)

W.B. Carpenter Lease  
Earl & Belva Junkins  
- Surface Owner

### Notes:

- Requested permit is for drilling of new wells.
- Access road from Co. Rd. 31 to 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 drill pit may be changed based on as-built considerations.

Note: Drawing not to Scale

TAL  
25 APR 13

SUBJECT WELL  
Hiram Lynch No.139



◆ Denotes Potential Water Supply Source (From Aerial Photography)

Section of  
Wolf Summit 7.5' Quadrangle  
and Salem 7.5' Quadrangle  
SCALE 1"=1000'

(BOTTOM HOLE: LON:-80°30'37.0") LON:-80°30'30.4" 2390

1 - Well ties and Latitude and Longitude were measured by Topcon Hiper GA survey grade GPS. Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).  
 2 - Surface owners, adjoining information, Lease names, & line mapping obtained from HGE GIS system.  
 3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.

SURVEY NOTES	UTM Coordinates (Zone 17N-NAD 1983)	LOCATION REFERENCES
	Surface	N-4,347,677m. E-542,414m.
Bottom Hole	N-4,347,690m. E-542,256m.	

LAT: 39°17'30"  
**MAP OF**  
**H.G. ENERGY, LLC**  
**-WATERFLOOD UNIT-**  
**HIRAM LYNCH 139**



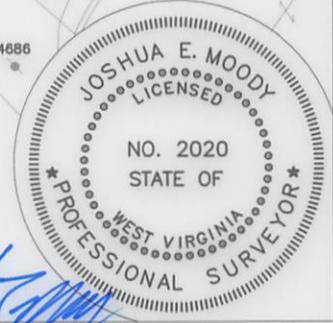
⊕ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

JOB # 13-014  
 DRAWING # 13LAKEFLOYD FOLDER  
 SCALE 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEV. BENCH MARK H-80

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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**MOODY LAND SURVEYING, LLC**  
 ST. MARYS, WV 26170



JOSHUA E. MOODY, P.S. 2020  
 DATE 4/08/13  
 OPERATOR'S WELL HIRAM LYNCH #139

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  HORIZONTAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1307' WATERSHED WIZARDISM RUN API WELL # 47-033-05746S  
 DISTRICT TEN MILE COUNTY HARRISON STATE WV COUNTY HARRISON PERMIT 05746S  
 QUADRANGLE SALEM 7.5'

SURFACE OWNER EARL & BELVA JUNKINS ACREAGE 152.14 ACRES +/-  
 OIL & GAS ROYALTY OWNER ANN FARR ET AL LEASE ACREAGE 568 ACRES +/-  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) WILL BE DRILLED DIRECTIONALLY (N 85° W 520')  
 PLUG & ABANDON  CLEAN OUT & REPLUG   
 TARGET FORMATION 5TH SAND ESTIMATED DEPTH MD= 3,300'  
 WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH  
 ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

LON: 80°30'00" LAT: 39°16'38.3" (BOTTOM HOLE: LAT: 39°16'38.8") COUNTY NAME PERMIT

VOID

VOID

(BOTTOM HOLE: LON:-80°30'37.0")

LON:-80°30'30.4"

2390

- 1 - Well ties and Latitude and Longitude were measured by Topcon Hiper GA survey grade GPS. Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).
- 2 - Surface owners, adjoining information, Lease names, & line mapping obtained from HGE GIS system.
- 3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.

SURVEY NOTES

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,347,677m. E-542,414m.
Bottom Hole	N-4,347,690m. E-542,256m.

LOCATION REFERENCES	
NAD 1983	
N 63°23' W 10.0'	EX: WELL 1731
S 24°26' W 173.6'	15" HICKORY

LAT: 39°17'30"  
**MAP OF**  
**H.G. ENERGY, LLC**  
**-WATERFLOOD UNIT-**  
**HIRAM LYNCH 139**

LON: 80°30'00"  
 5225'  
 LAT: 39°16'38.3"  
 (BOTTOM HOLE: LAT: 39°16'38.8")



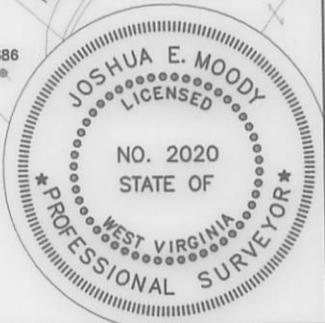
+ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**MOODY LAND SURVEYING, LLC**  
 ST. MARYS, WV 26170



JOSHUA E. MOODY, P.S. 2020

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

DATE 4/08/13  
 OPERATOR'S WELL HIRAM LYNCH #139

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  HORIZONTAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  API WELL # 47-033-057465  
 LOCATION: ELEVATION 1307' WATERSHED WIZARDISM RUN STATE 47 COUNTY 033 PERMIT 057465  
 DISTRICT TEN MILE COUNTY HARRISON  
 QUADRANGLE SALEM 7.5'

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 ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101  
 ESTIMATED DEPTH MD= 3,300'  
 DESIGNATED AGENT MIKE KIRSCH  
 ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101

FORM WW-6

VOID