



**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 03, 2013

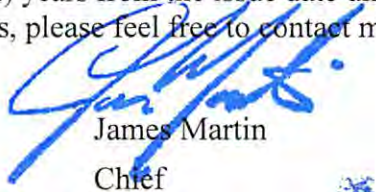
**WELL WORK PERMIT**  
**Secondary Recovery Well**

This permit, API Well Number: 47-3305749, 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: W.F. WILLIAMS #130  
Farm Name: HUFFMAN, BRIAN V.  
**API Well Number: 47-3305749**  
**Permit Type: Secondary Recovery Well**  
Date Issued: 07/03/2013

# 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.

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## CONDITIONS

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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 within 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 20 mil thickness synthetic liner.



WW-3A  
10/07



1) Date: April 17, 2013  
2) Operator's Well No. W. F. Williams No. 130  
3) API Well No. 47 033 -  
State County Permit  
4) UIC Permit No. UIC2R03301AP

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  
(a) Name Earl & Belva Junkins ✓  
Address RR 5, Box 1226  
Salem, WV 26426  
(b) Name David R. & Sandra E. Turner ✓  
Address PO Box 402  
Lumberport, WV 26386  
(c) Name Brian Huffman ✓  
Address RR 4, Box 530  
Salem, WV 26426  
Salem, WV 26426  
6) Inspector Tristan Jenkins  
Address P. O. Box 4274  
Clarksburg, WV 26302  
Telephone 552-3874

7 (a) Coal Operator  
Name NA  
Address \_\_\_\_\_  
7 (b) Coal Owner(s) With Declaration Of Record  
Name NA  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
7(c) Coal Lessee With Declaration Of Record  
Wolf Run Mining Co. ✓  
2708 Cranberry Square  
Morgantown, WV 26505

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 To be determined

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:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments 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 and imprisonment."

Well Operator HG Energy, LLC  
Address 5260 Dupont Road  
Parkersburg, WV 26101  
By: Diane C. White  
Its: Accountant  
Signature Diane C. White

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. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at: [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

07/05/2013

WW-2B1

Well No. W. F. Williams No. 130

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.

Brian Huffman  
RR 4, Box 530  
Salem, WV 26426

33057495

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 Branch of Lick Run Quadrangle Wolf Summit 7.5' 692  
Elevation 1306' County Harrison 33 District Tenmile 09  
Description of anticipated Pit Waste: Fluids encountered in drilling shallow well.  
Do you anticipate more than 5,000 bbls of water to complete the proposed well work Yes          No X  
Will a synthetic liner be used in pit? Yes          If so, what mil.? 10 Mil. 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, etc. Air, Fresh Water  
- If oilbased, what type? Synthetic, petroleum, etc. NA  
Additives to be used? Water, Soap, KCI  
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.           
- If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust Native soil, cement, lime  
- Landfill or offsite name/permit number?         

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.

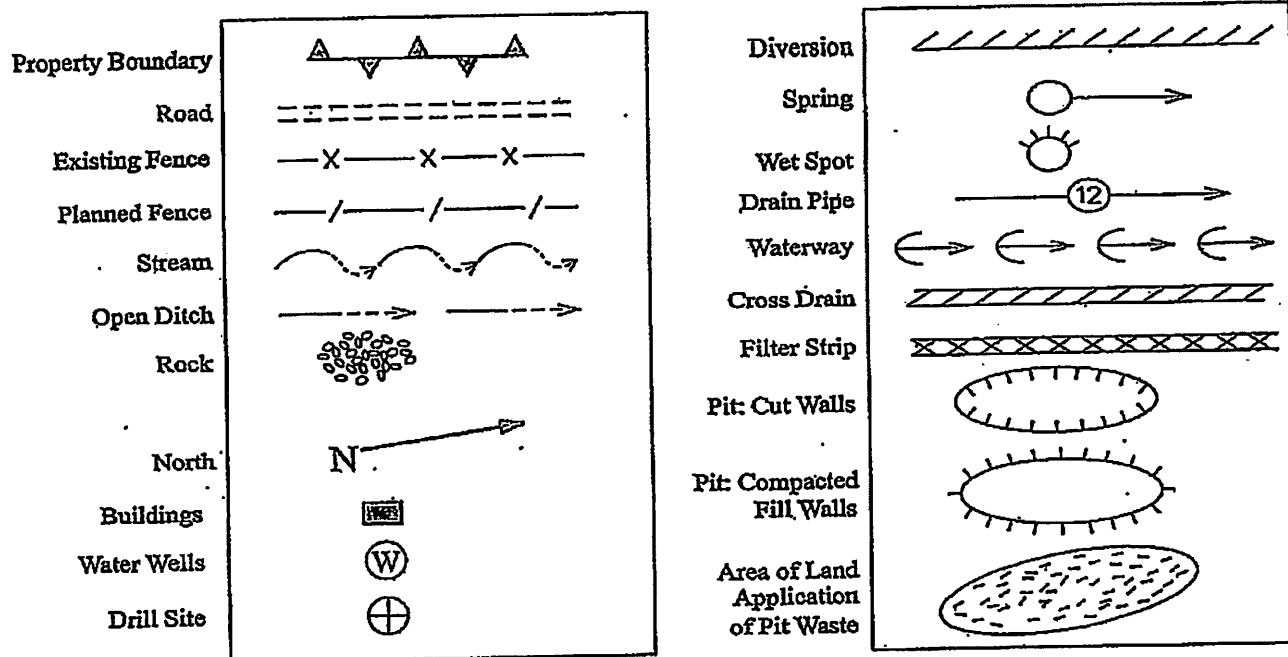
Company Official Signature Diane C White  
Company Official (Typed Name) Diane C. White  
Company Official Title Accountant

Subscribed and sworn before me this 17 day of April 2013  
Tina L. Pethitel Notary Public  
My commission expires Nov 12, 2018

RECEIVED  
Office of Oil & Gas  
APR 30 2013  
OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
TINA L. PETHITEL  
HG Energy, LLC  
5260 Dupont Road  
Parkersburg, West Virginia 26101  
My Commission Expires Nov. 12, 2018  
07/05/2013

WW9-Rank

Legend



Proposed Revegetation Treatment: Acres Disturbed Area I Approx. 1.0 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>	
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: 21/9 GAS

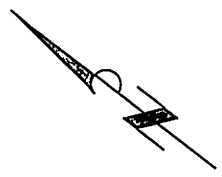
RECEIVED  
 Office of Oil & Gas Date: 25 APR 13

Field Reviewed?  Yes

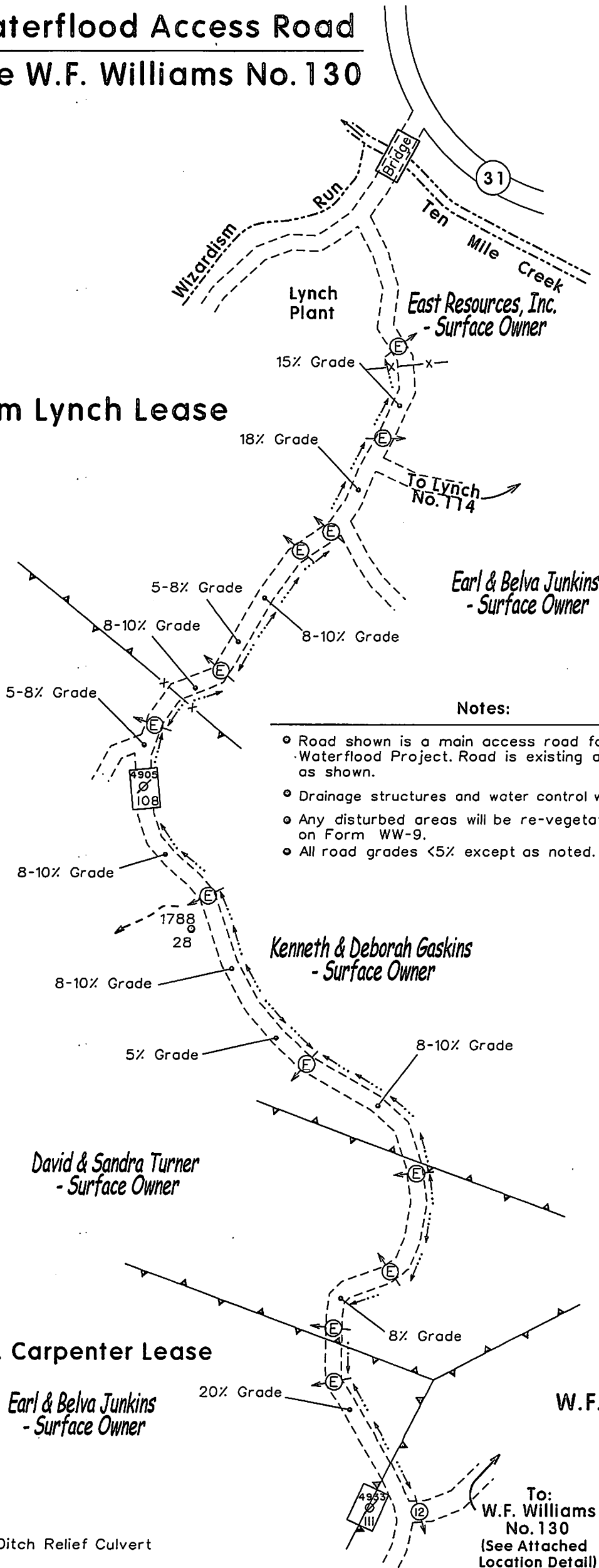
APR 30 2013 ( ) No

07/05/2013

# Detail of: Main Waterflood Access Road To Serve W.F. Williams No. 130



## Hiram Lynch Lease



**Notes:**

- Road shown is a 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.

07/05/2013

W.F. Williams Lease

Brian Huffman  
- Surface Owner

To:  
W.F. Williams  
No. 130  
(See Attached  
Location Detail)

(E) - Existing Ditch Relief Culvert

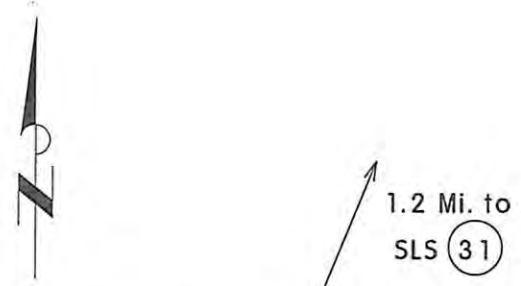


APR 30 2013

WV Department of  
Environmental Protection

# Reclamation Plan For: W.F. Williams No. 130

33057495

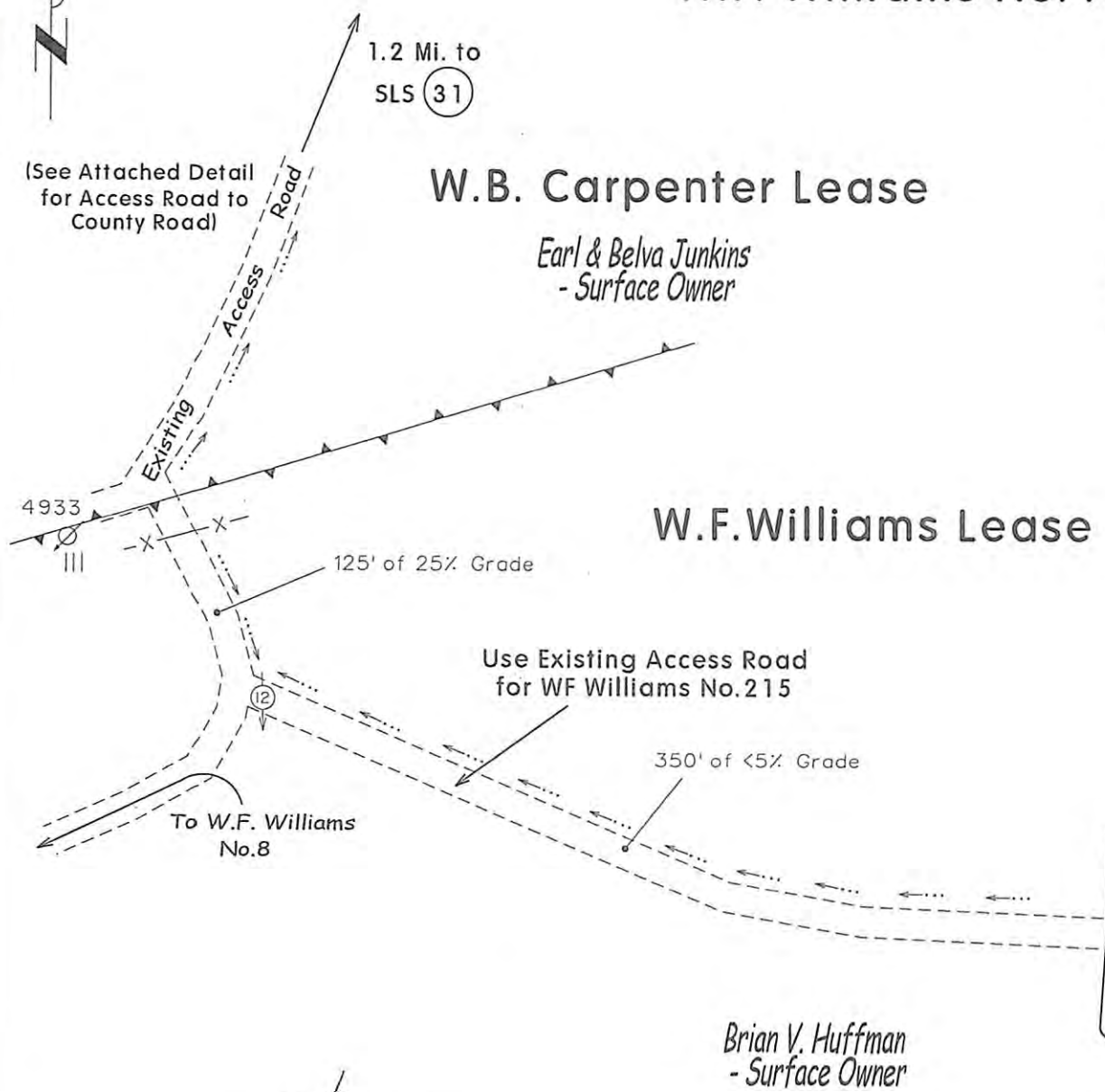


(See Attached Detail  
for Access Road to  
County Road)

## W.B. Carpenter Lease

*Earl & Belva Junkins  
- Surface Owner*

## W.F. Williams Lease



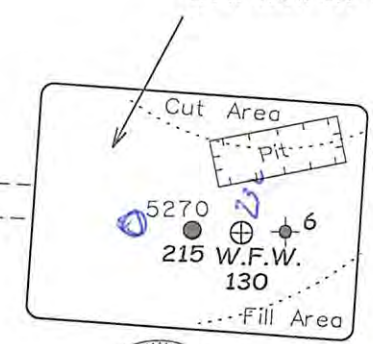
*Brian V. Huffman  
- Surface Owner*

*TAD 05/20/13*

- 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**  
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 WF Williams  
No. 215 will be enlarged to drill  
new well WF Williams No. 130.

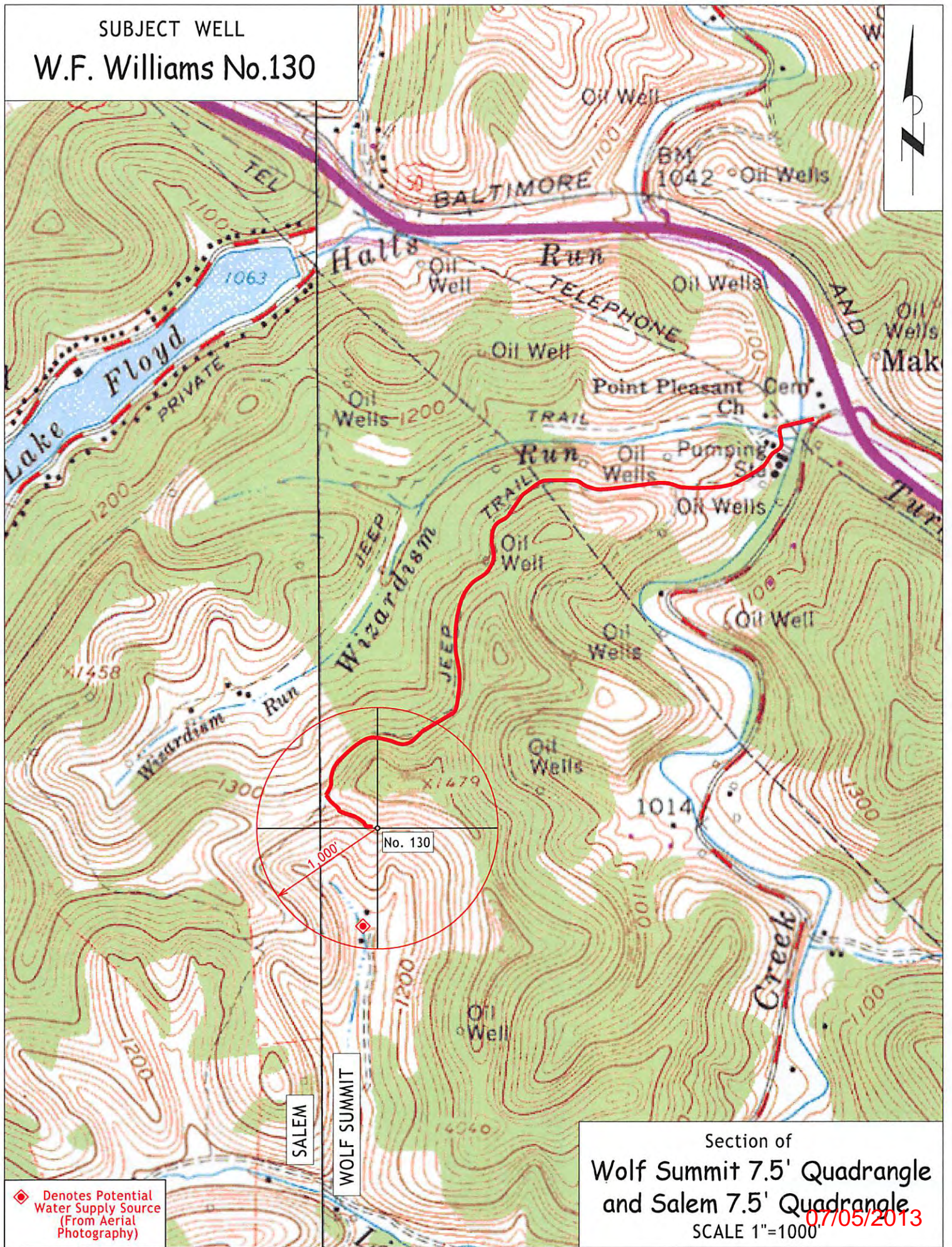


Existing Vegetative  
Filter Strip

*PVC*

Note: Drawing not to Scale

SUBJECT WELL  
W.F. Williams No.130



◆ Denotes Potential Water Supply Source (From Aerial Photography)

Section of  
Wolf Summit 7.5' Quadrangle  
and Salem 7.5' Quadrangle  
SCALE 1"=1000' 07/05/2013

(BOT. HL: LON:-80°29'55.1")

LON:-80°29'54.0"

11325

LON: 80°27'30"

5845'

LAT:39°16'32.3"

(BOTTOM HOLE: LAT:39°16'27.7")

**SURVEY NOTES**

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.

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,347,494m. E-543,287m.
Bottom Hole	N-4,347,353m. E-543,262m.

LOCATION REFERENCES	
UTM 27	
S 88°51' E 73.0'	EX: WELL 72735
S 77°14' E 18.4'	EX: WELL 5270
S 11°30' W 35.4'	UTILITY POLE
Brg. Direction is prop. well to the ref.	

LAT: 39°17'30"

**MAP OF  
H.G. ENERGY, LLC  
-WATERFLOOD UNIT-  
W.F. WILLIAMS 130 REV**



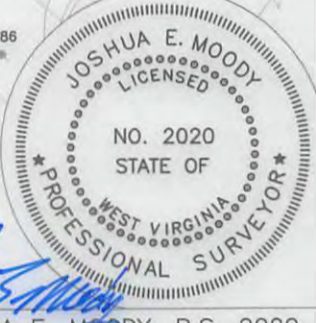
⊕ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

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 5/15/13  
OPERATOR'S WELL  
W.F. WILLIAMS #130 REVISED

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 1306' WATERSHED BRANCH OF LICK RUN API WELL # 47-033-057495  
DISTRICT TEN MILE COUNTY HARRISON STATE COUNTY PERMIT  
QUADRANGLE WOLF SUMMIT 7.5'

SURFACE OWNER BRIAN V. HUFFMAN ACREAGE 102.35 ACRES +/-  
OIL & GAS ROYALTY OWNER CLYDE WILLIAMS ET AL LEASE ACREAGE 102 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 (S 10° W 470')

PLUG & ABANDON  CLEAN OUT & REPLUG

TARGET FORMATION 5TH SAND ESTIMATED DEPTH MD= 3,250'

WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH  
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

07/05/2013

(BOT. HL: LON:-80°29'54.4")

LON:-80°29'53.3"

11270

- 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-4,347,493m. E-543,303m.
Bottom Hole	N-4,347,352m. E-543,278m.

LOCATION REFERENCES NAD 1983	
N	89°41' E 35.2'
S	85°42' W 20.0'
E	WELL 5270
E	WELL 72735

LAT: 39°17'30"  
**MAP OF  
H.G. ENERGY, LLC  
-WATERFLOOD UNIT-  
W.F. WILLIAMS 130**

LON: 80°27'30"

5845'

LAT: 39°16'32.2"

(BOTTOM HOLE: LAT: 39°16'27.6")



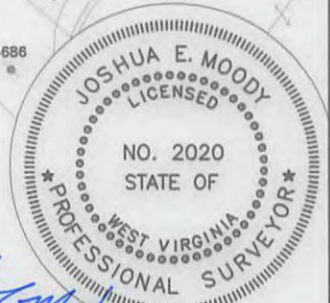
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JOB # 13-014  
DRAWING # 13LAKEFLOYD FOLDER  
SCALE 1" = 1500'  
MINIMUM DEGREE OF ACCURACY 1/2500  
PROVEN SOURCE OF ELEV. BENCH MARK H-80

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

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

DATE 4/08/13  
OPERATOR'S WELL W.F. WILLIAMS #130

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION  WASTE DISPOSAL \_\_\_ HORIZONTAL \_\_\_  
(IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1306' WATERSHED BRANCH OF LICK RUN API WELL # 47-033-057495  
DISTRICT TEN MILE COUNTY HARRISON STATE 47 COUNTY 033 PERMIT 057495  
QUADRANGLE WOLF SUMMIT 7.5'

SURFACE OWNER BRIAN V. HUFFMAN ACREAGE 102.35 ACRES +/-  
OIL & GAS ROYALTY OWNER CLYDE WILLIAMS ET AL LEASE ACREAGE 102 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 (S 10° W 470')  
PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
TARGET FORMATION 5TH SAND ESTIMATED DEPTH MD= 3,250'  
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ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

07/05/2013

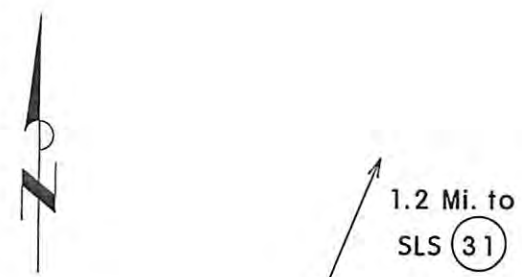
33057495

# Reclamation Plan For: W.F. Williams No. 130

Office of Oil & Gas

APR 8 6 2013

WV Department of  
Environmental Protection



(See Attached Detail  
for Access Road to  
County Road)

## W.B. Carpenter Lease

Earl & Belva Junkins  
- Surface Owner

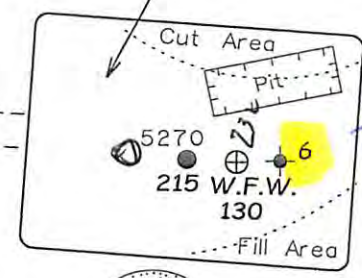
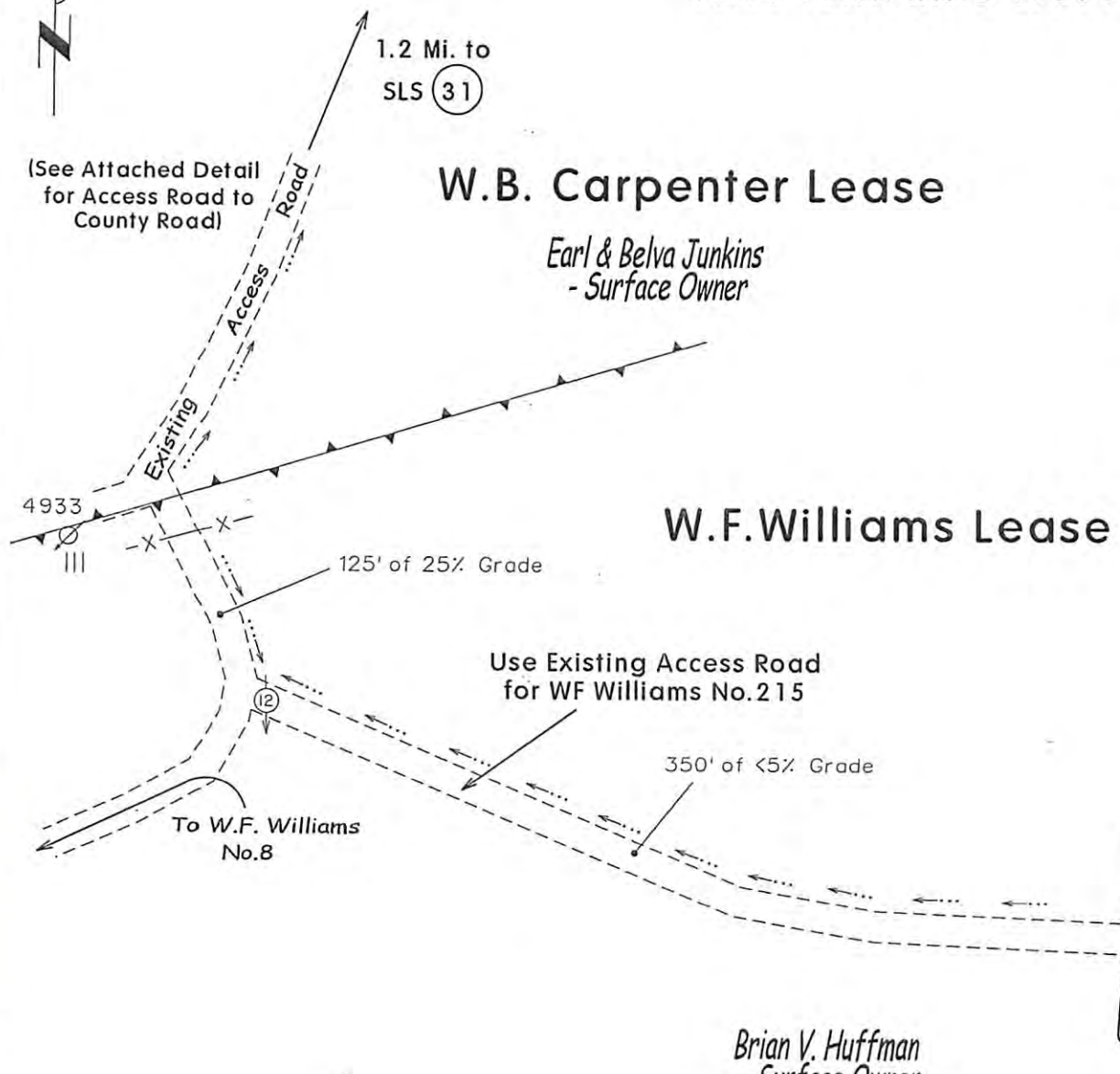
## W.F. Williams Lease

Brian V. Huffman  
- Surface Owner

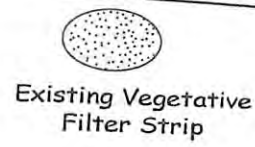
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  - All disturbed areas will be re-vegetated as outlined on Form WW-9.
  - Maintain sediment barriers and drainage structures.
  - All road grades <5% except as noted.
  - Location of drill pit may be changed based on as-built considerations.

**NOTE**  
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 WF Williams  
No. 215 will be enlarged to drill  
new well WF Williams No. 130.



REFER TO  
PLUGGING CERTIFICATE  
ATTACHED FOR  
LEASE NO. 23876



PVC

TAV 25 APR 13

Note: Drawing not to Scale

ITEM 3 MR. HUFFMAN LETTER