



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

October 29, 2014

**WELL WORK PERMIT**  
**Rework-Secondary Recovery**

This permit, API Well Number: 47-3303964, 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: J. T. WILLIAMS 12  
Farm Name: FLETCHER, FREDERICK, ETAL  
**API Well Number: 47-3303964**  
**Permit Type: Rework-Secondary Recovery**  
Date Issued: 10/29/2014

# 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. Failure to adhere to the specified permit conditions may result in enforcement action.

## 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 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](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.



FORM WW-3 (B)  
1/12



- 1) Date: 09/22/2014
- 2) Operator's Well No. JT Williams 12
- 3) API Well No.: 47 - Harrison - 3964  
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) WELL TYPE: Liquid Injection  / Gas Injection (not storage)  / Waste Disposal
- 6) LOCATION: Elevation: 1454' Watershed: Tenmile Creek  
District: Tenmile 9 County Harrison Quadrangle Wolf Summit 7.5' 6A2
- 7) WELL OPERATOR: HG Energy, LLC 8) DESIGNATED AGENT Diane White  
Address 5260 Dupont Road Address 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101
- 9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR  
Name Sam Ward Name To be Determined upon Approval of Permit  
Address P. O. Box 2327 Address \_\_\_\_\_  
Buckhannon, WV 26201
- 11) PROPOSED WELL WORK Drill  / Drill deeper  / Redrill  / Stimulate   
Plug off old formation  / Perforate new formation  Convert   
Other physical change in well (specify) \_\_\_\_\_
- 12) GEOLOGIC TARGET FORMATION Fifth Sand Depth 2962' Feet (top) to 2978' Feet (bottom)
- 13) Estimated Depth of Completed Well, (or actual depth of existing well): 3134' Feet
- 14) Approximate water strata depths: Fresh 450' Feet Salt 1180' Feet 9/29/2014
- 15) Approximate coal seam depths: 605'
- 16) Is coal being mined in the area? Yes  No
- 17) Virgin reservoir pressure in target formation 60 psig Source Estimated
- 18) Estimated reservoir fracture pressure 1200 psig (BHFP)
- 19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl/hr Bottom hole pressure 2400 psi
- 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Fresh water, produced  
water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery
- 21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters
- 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL NA

23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well		
Conductor									Kinds
Fresh Water	8 5/8"	LS	20#	X		701'	701'	Use Existing CASING	
Coal									Sizes
Intermediate									2.375" x 4.5"
Production	4 1/2"	J-55	10.5#	X		3083'	3083'	EC - 425 slt	Depths set
Tubing	2 3/8"	J-55	4.6#	X		2850'	2850'		2750'
Liners									Perforations
									Top Bottom

Received  
Office of Oil & Gas

- 24) APPLICANT'S OPERATING RIGHTS were acquired from John T Williams, et ux  
by deed \_\_\_\_\_ / lease X / other contract \_\_\_\_\_ / dated 02/17/1898 of record in the  
Harrison County Clerk's office in Lease Book 105 Page 90



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

Well Operator's Report of Well Work

Farm name: FLETCHER, FREDERICK ETAL Operator Well No.: J.T.WILLIAMS#12

LOCATION: Elevation: 1,454.00 Quadrangle: WOLF SUMMIT

District: TENMILE County: HARRISON  
Latitude: 13050 Feet South of 39 Deg. 20Min. Sec.  
Longitude 2250 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY  
P. O. BOX 5519  
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: TIM BENNETT  
Permit Issued: 09/01/93  
Well work Commenced: 10/27/93  
Well work Completed: 7/1/94  
Verbal Plugging  
Permission granted on:  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 3134'  
Fresh water depths (ft) N/A  
Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 605'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To Surface
8-5/8	701'	701'	255 Sks.
4-1/2	3083'	3083'	425 Sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Fifth Sand Pay zone depth (ft) 2962'-2978'  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received  
For: PENNZOIL PRODUCTS COMPANY Office of Oil & Gas  
By: [Signature] OCT 08 2014  
Date: 7/8/94

Treatment

Perforated: Fifth Sand with 12 holes 2970'-2973'  
Treated with 300 gal. 15% HCl 257 bbl. gelled water  
and 5000# 20/40 sand

Well Log

Sand & Shale	0' - 605'
Coal	605' - 612'
Sand & Shale	612' - 1393'
Sand	1393' - 1430'
Shale	1430' - 1630'
Sand	1630' - 1670'
Shale	1670' - 1934'
Big Lime	1934' - 1950'
Shale	1950' - 2043'
Big Injun	2043' - 2120'
Shale	2120' - 2620'
Sand & Shale	2620' - 2962'
Fifth Sand	2962' - 2978'
T.D.	3134'





33039645W

7012 3460 0002 6850 6316

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 AM  
 JTW12

Sent To: Wolf Run Mining  
 Street, Apt. No.; or PO Box No.: 2708 Cranberry Sq  
 City, State, ZIP+4: Morgantown WV 26505

PS Form 3800, August 2006 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61

Postmark Here  
 PARKERSBURG, WV  
 AM  
 JTW12

Sent To: Frederick Fletcher  
 Street, Apt. No.; or PO Box No.: 5777 SR 21  
 City, State, ZIP+4: Naples NY 14512

PS Form 3800, August 2006 See Reverse for Instructions

Received  
Office of Oil & Gas

OCT 06 2014

10/31/2014



33039645W

WW-9  
Rev. 5/10

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 033 - 3956  
Operator's Well No. JT Williams 12

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 Name HG Energy, LLC OP Code 494497948

Watershed Tenmile Creek Quadrangle Wolf Summit 7.5'

Elevation 1454' County Harrison District Tenmile

Description of anticipated Pit Waste: Fluids encountered while stimulating subject well

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a synthetic liner be used in the pit? Yes. If so, what mil.? 20 mil

9/29/2014

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, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used? Water, soap, KCl

Will closed loop system be used? No

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit

-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 White

Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 19 day of September 20 14

Tonia J. [Signature]  
Notary Public

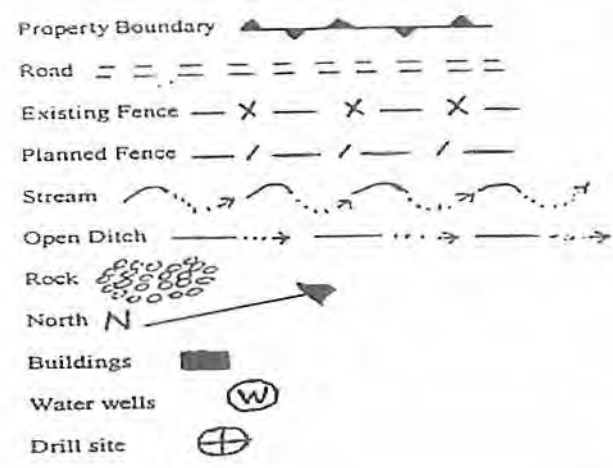
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OCT 06 2014

My commission expires Nov. 12, 2018

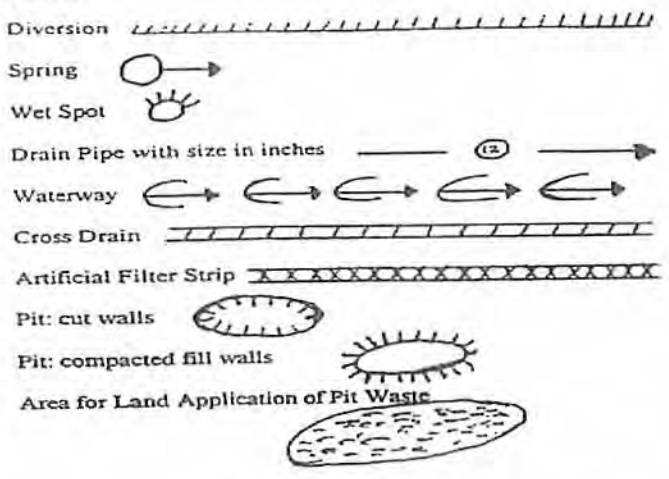
OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
TINA L. PETHEL  
HG Energy, LLC  
5260 Dupont Road  
Parkersburg, West Virginia 26101  
My Commission Expires Nov. 12, 2018

10/31/2014





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 0.7 acres Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall Fescue		40
Ladino Clover		5

Seed Type	Area II	lbs/acre
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: \_\_\_\_\_

Received  
Office of Oil & Gas

Title: Oil & Gas Inspector

Date: 9/29/2014  
OCT 06 2014

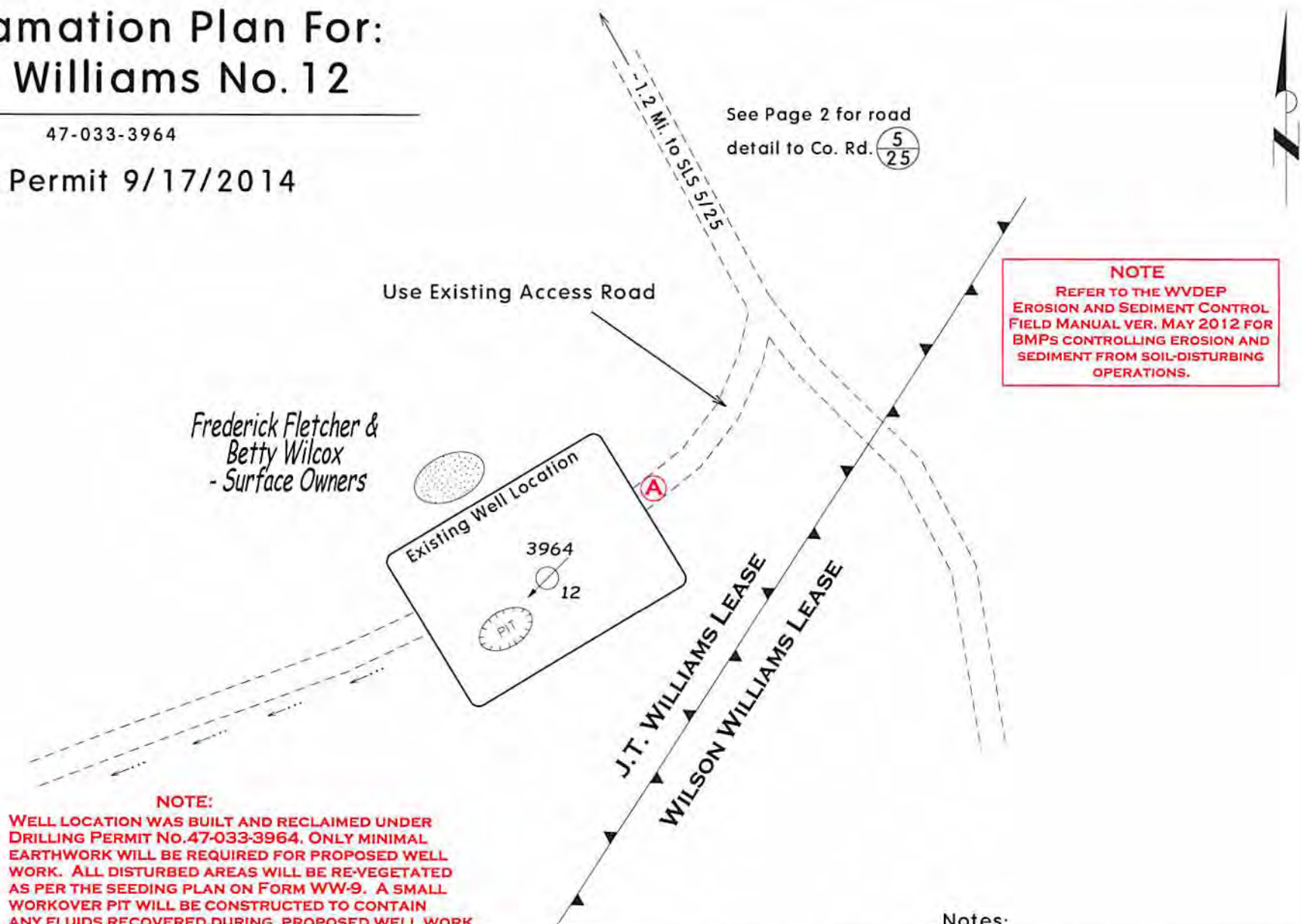
Field Reviewed?  Yes  No

# Reclamation Plan For: J.T. Williams No. 12

47-033-3964

Frac Permit 9/17/2014

3303964SN




**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:**  
WELL LOCATION WAS BUILT AND RECLAIMED UNDER  
DRILLING PERMIT NO. 47-033-3964. ONLY MINIMAL  
EARTHWORK WILL BE REQUIRED FOR PROPOSED WELL  
WORK. ALL DISTURBED AREAS WILL BE RE-VEGETATED  
AS PER THE SEEDING PLAN ON FORM WW-9. A SMALL  
WORKOVER PIT WILL BE CONSTRUCTED TO CONTAIN  
ANY FLUIDS RECOVERED DURING PROPOSED WELL WORK.

**Notes:**

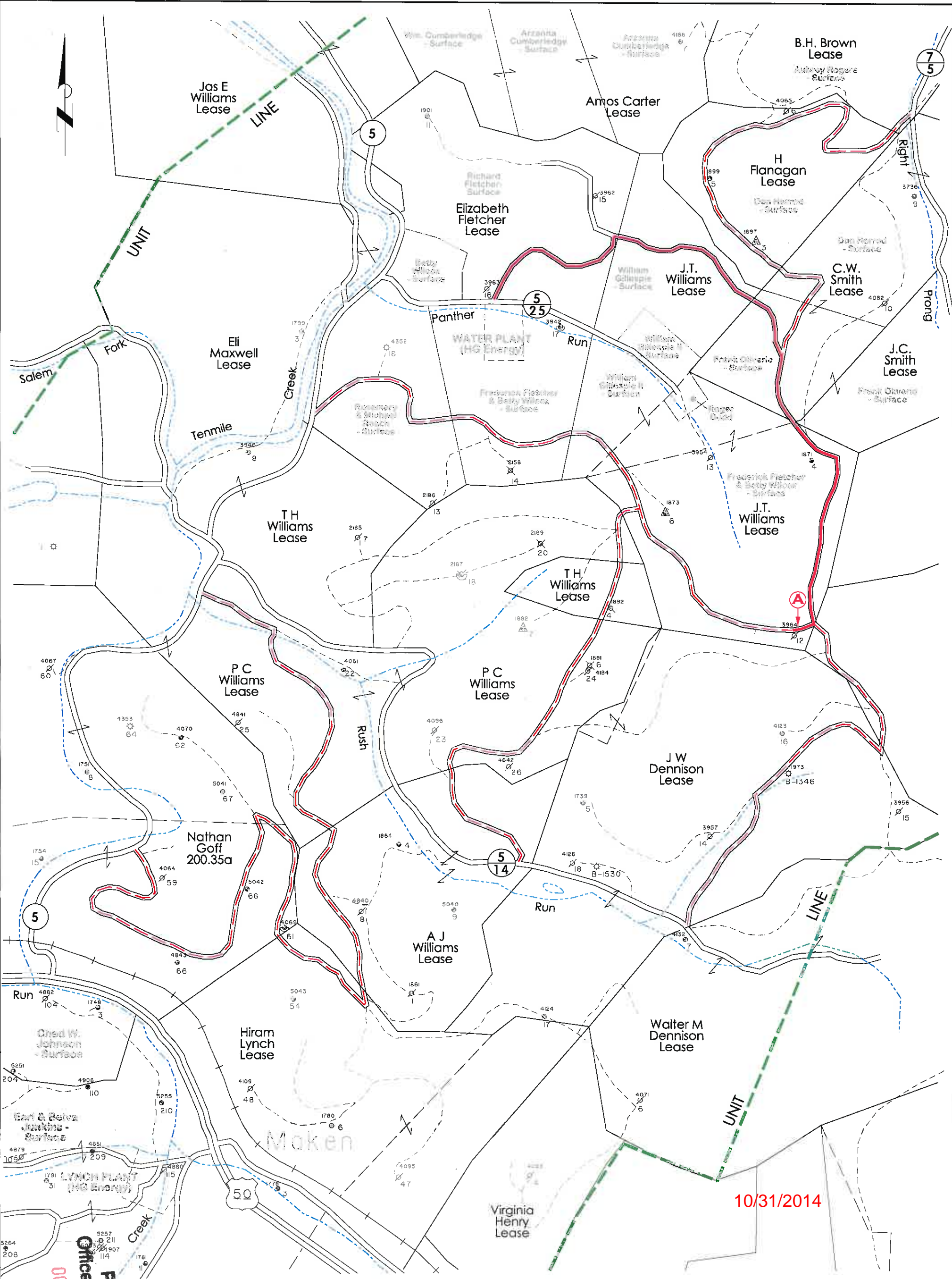
- Requested permit is for re-frac of existing well.
- Location and access roads from Co. Rd. 5/25 to the well are existing. Structures shown will be maintained.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Sediment barriers and drainage structures will be maintained.
- All road grades <5% except as noted.

 - Existing Culvert

Note: Drawing not to Scale



330396450



**WOLF SUMMIT WATERFLOOD**  
 Harrison County, W.Va.  
**RECLAMATION PLAN**  
**SHOWING EXISTING ROAD**  
**SYSTEM USED FOR ACCESS**  
**HG ENERGY WELLS.**  
 J.T. Williams No.12

**NOTES**

1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING EROSION AND SEDIMENTATION FROM ALL SOIL-DISTURBING OPERATIONS.
2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND/OR ROAD UPGRADES FROM POINT A TO PERMITTED WELL LOCATION.
3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG FROM 2003 - 2014 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.

LEGEND	
	EXISTING WATERFLOOD ROADS TO BE USED.
	OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).
	EXISTING LEASE OR FARM ROADS TO BE UPGRADED.
	NEW ROADS TO BE CONSTRUCTED.
	LOCATION FOR PROPOSED WELLS
	POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED



SUBJECT WELL  
**J.T. Williams No.12**  
47-033-3964



◆ Denotes Potential Water Supply Source (From Aerial Photography)

No.12 Received  
Office of Oil & Gas  
OCT 06 2014

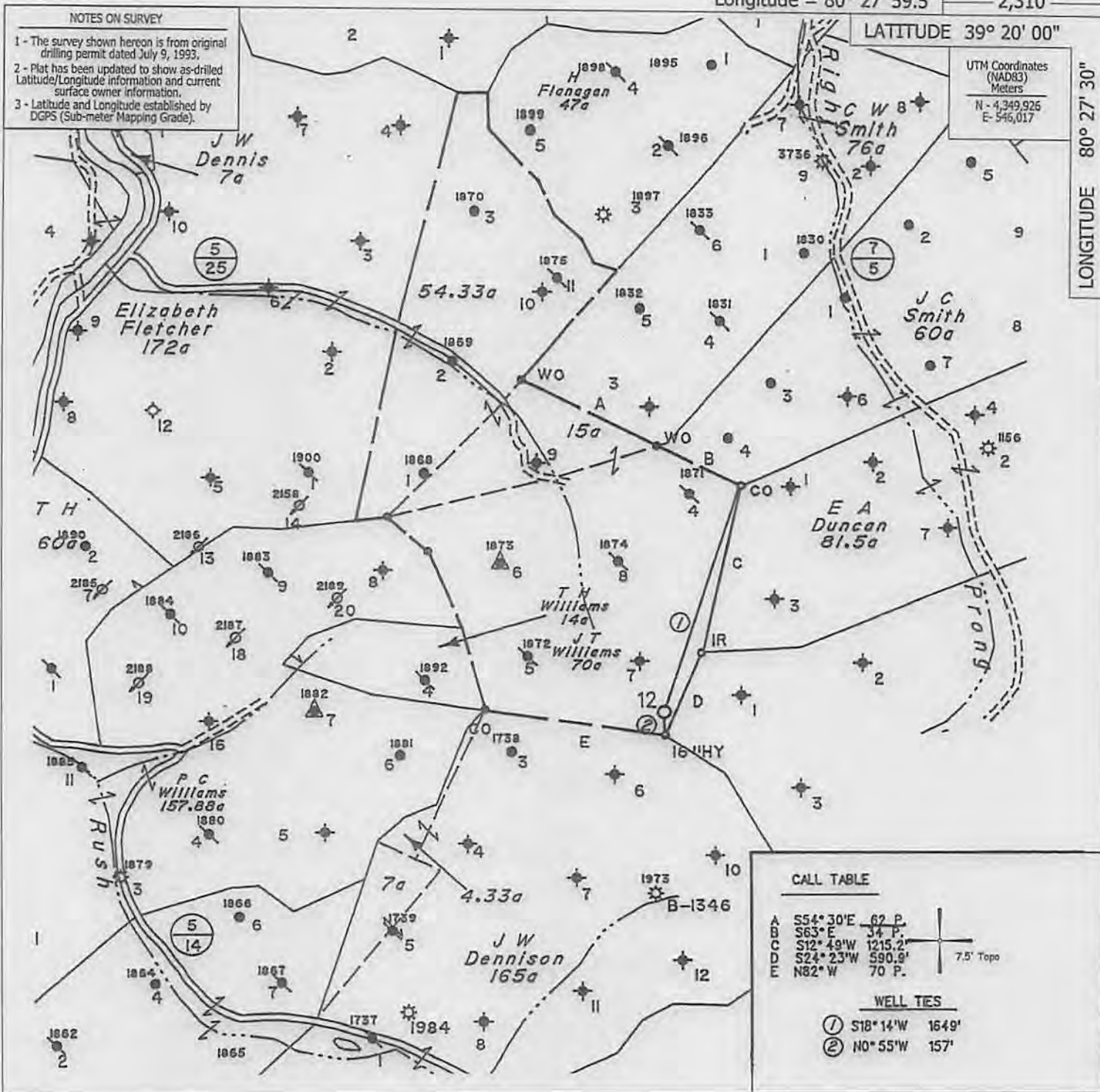
Section of  
**Wolf Summit 7.5' Quadrangle**  
SCALE 1"=1000'  
10/31/2014



NOTES ON SURVEY

- 1 - The survey shown hereon is from original drilling permit dated July 9, 1993.
- 2 - Plat has been updated to show as-drilled Latitude/Longitude information and current surface owner information.
- 3 - Latitude and Longitude established by DGPS (Sub-meter Mapping Grade).

UTM Coordinates (NAD83)  
Meters  
N - 4,349,926  
E - 546,017



CALL TABLE

A	S54°30'E	62 P.
B	S63°E	34 P.
C	S12°49'W	1215.2'
D	S24°23'W	590.9'
E	N82°W	70 P.

WELL TIES

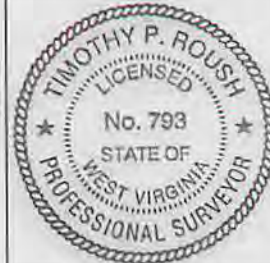
- ① S18°14'W 1649'
- ② N0°55'W 157'

- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. \_\_\_\_\_  
 MAP NO. \_\_\_\_\_ N S E W \_\_\_\_\_  
 SCALE \_\_\_\_\_ 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION WVDEP Record Elevation

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 PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) *[Signature]*  
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA  
 Division of Environmental Protection  
 Office of Oil and Gas  
 601 57th Street  
 Charleston, West Virginia 25301



DATE September 17, 2014  
 FARM J.T. Williams No.12  
 API WELL NO. \_\_\_\_\_

47 - 033 - 03964 *WS*

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1,454' WATERSHED Tennile Creek  
 DISTRICT Tennile COUNTY Harrison  
 QUADRANGLE Wolf Summit 7.5'

SURFACE OWNER Frederick Fletcher & Betty Wilcox ACREAGE 103.99 Ac.  
 OIL & GAS ROYALTY OWNER HG Energy, LLC., et al LEASE ACREAGE 150 Ac. 10/31/2014  
 LEASE NO. 32706-50

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Frac 5th Sand

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION 5th Sand ESTIMATED DEPTH 3,134'

WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White  
 ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101





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

CK 2776  
65000  
3303964SW

September 19, 2014

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

RE: J. T. Williams No. 12 (47-033-3964)  
Tenmile District, Harrison County  
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, Mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above-captioned liquid injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

*Diane White*

Diane C. White

Enclosures

cc: Frederick Fletcher – Certified  
Wolf Run Mining - Certified  
Sam Ward - Inspector

Received  
Office of Oil & Gas  
OCT 06 2014

10/31/2014