



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

February 06, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3305811, 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.N. FURNO NO. 250
Farm Name: MUTSCHELKNAUS, CLARENCE
API Well Number: 47-3305811
Permit Type: Vertical Well
Date Issued: 02/06/2014

Promoting a healthy environment.

02/07/2014

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

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.

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: HG Energy, LLC
2) Operator's Well Number: J. N. Furno No. 250 3) Elevation 1338'
4) Well Type: (a) Oil X or Gas
(b) If Gas: Production Underground Storage
5) Proposed Target Formation(s): Fifth Sand
6) Proposed Total Depth: 3285' TMD ft.
7) Approximate fresh water strata depths: 225'
8) Approximate salt water depths: 1445'
9) Approximate coal seam depths: 685'
10) Does land contain coal seams tributary to active mine? Yes No X
11) Proposed Well Work: Drill and stimulate production well in Fifth Sand, well to be drilled directionally S 27° W 240'

SDW
12/23/2013
MDC

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight Per Ft.), FOOTAGE INTERVALS (For Drilling, Left in Well), CEMENT (Fill-up (Cu. Ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, Liners.

Packers: Kind Sizes Depths set

For Office of Oil and Gas Use Only

- Fee(s) Paid Well Work Permit Reclamation Fund
Plat WW-9 WW-2B Bond
Agent (Type)

RECEIVED
Office of Oil and Gas
Agent
JAN 03 2014

1) Date: November 21, 2013
2) Operator's Well Number
J. N. Furno No. 250
3) API Well No: 47 - 033 -
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CK 2457
65000

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Clarence & Mary Mutschelknaus ✓
Address 170 East Main Street
Salem, WV 26426
(b) Name
Address
(c) Name
Address
6) Inspector Sam Ward
Address P.O. Box 2327
Buckhannon, WV 26201
Telephone (304) - 389-7583

5) (a) Coal Operator:
Name NA
Address
(b) Coal Owner(s) with Declaration
Name NA
Address
(c) Coal Lessee with Declaration
Name Wolf Run Mining ✓
Address 2708 Cranberry Square
Morgantown, WV 26505

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

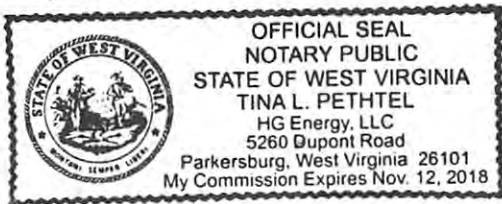
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above-named parties, by:

Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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, 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
By: Diane C White (Signature)
Its: Accountant
Address 5260 Dupont Road
Parkersburg, WV 26101
Telephone (304) 420-1119

Subscribed and sworn before me this 22 day of November 2013

My commission expires Nov. 12, 2018
Notary Public (Signature)



INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
John H. Furner et ux	D. J. Carter	1/8	260/62

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- US Fish and Wildlife Service
- County Floodplain Coordinator

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Office of Oil and Gas

JAN 03 2011

Well Operator: HG Energy, LLC

By: Diane C. White *Diane C. White* Accountant
Its: Accountant

02/07/2014

JOHN FURNER

99178-00

3305811

STEPTOE & JOHNSON
ATTORNEYS AT LAW
SIXTH FLOOR
UNION NATIONAL CENTER EAST
P. O. BOX 2190
CLARKSBURG, W. VA. 26301
(304) 624-5601

SURFACE TO 100' BELOW
FIFTH SAND

HANAWHA VALLEY BUILDING
CHARLESTON, W. VA.
(304) 342-2191

CLARKSBURG, W. VA.

EUGENE G. EASON
RALPH BOHANNON
ERNEST C. SWIGER
WILLIS O. SHAY
HERBERT G. UNDERWOOD
JACKSON L. ANDERSON
ROBERT G. STEELE
JAMES M. WILSON
PATRICK D. DEEM
ROBERT M. STEPTOE, JR.
JUSTIN L. HENDERSON
ANNE R. WILLIAMS
JAMES R. WATSON
JAMES D. GRAY
VINCENT A. COLLINS
JAMES A. RUSSELL
FRANK E. SIMMERMAN, JR.
MICHAEL L. BRAY
J. GREG GOODYKOONTZ
IRENE M. KEELEY
EVANS L. KING, JR.
WALTER L. WILLIAMS
SUSAN S. BREWER *

*ADMITTED IN
VIRGINIA ONLY

Handwritten:
L. Steptoe
looking
Shaw
Ronde

RECEIVED
CLARKSBURG, W. VA.
FEB 16 1981

CLARKSBURG, W. VA.

February 16, 1981

J & J Enterprises, Inc.
P. O. Box 48,
Buckhannon, W. Va. 2

Attention: Mr. Dick

J & J Enterprises, Inc., Garner &
Gawthrop, Inc., Lease No. 3, John
H. Furner, et ux., 185 acres, Ten-
mile District, Harrison County,
West Virginia



Gentlemen:

We have examined the records in the office of the Clerk of the County Commission of Harrison County, West Virginia, relating to the title of John H. Furner (also known as John H. Furno) to all the oil and gas within and underlying a tract or parcel of land containing 185 acres, more or less, situate in Tenmile District of Harrison County, West Virginia, and being the same tract or parcel of land subject to the above-captioned lease. We have attached hereto as Exhibit A a metes and bounds description of the subject tract or parcel of land, along with a map or plat of the leased premises.

Description of Leasehold Estate

The above-captioned lease, designated as Garner & Gawthrop, Inc., Lease No. 3, is dated June 13, 1916, and was recorded in said Clerk's office in Deed Book No. 260, at page 62, and is a lease for oil and gas purposes of the subject tract or parcel of land containing 185 acres, more or less, from John H. Furner and Mary P. Furner, his wife, to D. J.

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Office of Oil and Gas

FEB 3 2014

Department of
Protection

02/07/2014

(2)

J & J Enterprises, Inc.,
January 16, 1981,
Page two.

Carter, Harry W. Sheets, and B. B. Jarvis for a term of seven months from June 13, 1916, and as long thereafter as oil or gas, or either of them, is produced therefrom. We have attached hereto as Exhibit B a copy of the subject lease.

By an agreement dated February 6, 1917, of record in said Clerk's office in Deed Book No. 269, at page 144, D. J. Carter, Harry W. Sheets and B. B. Jarvis assigned, transferred and set over unto the Furno Oil Company all of their interest in and to the subject lease. We have enclosed herewith as Exhibit C a copy of said agreement.

By an agreement dated October 1, 1951, of record in said Clerk's office in Deed Book No. 711, at page 521, the Furno Oil Company assigned, transferred and set over unto Wade H. Miller all of its interest in and to the subject lease. We have enclosed herewith as Exhibit D a copy of said agreement.

By an agreement dated July 22, 1953, of record in said Clerk's office in Deed Book No. 737, at page 506, Wade H. Miller and Bertha F. Miller, his wife, granted, conveyed, sold and assigned unto Fred Finch and A. M. Snyder all of their interest in and to the subject lease. We have enclosed herewith as Exhibit E a copy of said agreement.

By an agreement dated October 26, 1956, of record in said Clerk's office in Deed Book No. 781, at page 413, A. M. Snyder and Hazel Snyder, his wife, and Fred Finch and Georgia Finch, his wife, granted, conveyed, bargained, sold, assigned, transferred, set over and delivered unto S. M. Vockel a 1/3 interest in and to the subject lease. We have attached hereto as Exhibit F a copy of said agreement.

By an agreement dated July 26, 1956, of record in said Clerk's office in Deed Book No. 784, at page 423, A. M. Snyder and Hazel Snyder, his wife, Fred Finch and Georgia Finch, his wife, and S. M. Vockel and Miriam Vockel, his wife, granted, conveyed, bargained, sold, assigned, transferred, set over and delivered unto E. R. Gawthrop and J. Ralph Garner all of their interest in and to the subject lease. We have enclosed herewith as Exhibit G a copy of said agreement.

By an agreement dated December 1, 1969, of record in said Clerk's office in Deed Book No. 967, at page 227, J. Ralph Garner and Margaret F. Garner, his wife, and Ezra R. Gawthrop and Wilma Gawthrop, his wife, granted, conveyed and assigned over unto Garner & Gawthrop, Inc., all of their interest in and to the subject lease. We have attached hereto as Exhibit H a copy of said agreement.

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Office of Oil and Gas

FEB 3 2014

WV Department of
Environmental Protection

3307811

19178-00
19179-00

★ (3)

Recorded
BK. 1247, Pg. 227

ASSIGNMENT

THIS ASSIGNMENT is made and entered into and effective this 7th day of January, 1994, by and between GARNER & GAWTHROP, INC., P. O. Box 351, Salem, West Virginia 26426, hereinafter referred to as "Assignor", and PENNZOIL PRODUCTS COMPANY, P. O. Box 5519, Vienna, West Virginia 26105-5519, hereinafter referred to as "Assignee".

WITNESSETH:

THAT WHEREAS, Assignor is the record title owner of the two oil and gas leases hereinafter described; and,

WHEREAS, pursuant to the terms of an unrecorded Letter Agreement dated December 13, 1993, Assignor agrees to assign unto Assignee certain rights in and to said leases.

NOW THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby transfer, grant, convey, assign and set over unto Assignee, subject to the terms, reservations and provisions in the aforementioned Letter Agreement and as hereinafter set forth, all of the right, title and interest which Assignor may have in and to the following oil and gas leases as further depicted on EXHIBIT "A", attached hereto and made a part hereof, from the surface down to one hundred (100) feet below the base of the Fifth Sand formation, hereinafter referred to as the "Assigned Land":

Lease dated June 13, 1916, by and between John H. Furner et ux, as Lessor, and D. J. Carter et al, as Lessee, covering one hundred eighty-five (185) acres, more or less, situate on the waters of Lick Run, Ten Mile District, Harrison County, West Virginia, and recorded in the Office of the Clerk of Court of said Harrison County in Deed Book 260, page 62.

Lease dated September 27, 1897, by and between J. W. Monroe, as Lessor, and John Sliney, as Lessee, covering one hundred ninety (190) acres, more or less, located in Ten Mile District, Harrison County, West Virginia, and recorded in the Office of the Clerk of Court of said Harrison County in Deed Book 102, page 570.

The base of the Fifth Sand is found at a depth of two thousand nine hundred twenty-nine (2,929) feet K.B. as identified from the Compensated Formation Density Log (Schlumberger, Inc.) run in the T. H. Williams Well No. 7, Ten Mile District, Harrison County, West Virginia, A.P.I. No. 47-033-2185-LI, on November 9, 1979.

It is agreed and understood that this Assignment does not include any oil and gas wells situated upon the Assigned Land. Assignor expressly excepts and reserves from said Assignment all of Assignor's right, title

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Environmental Protection

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02/07/2014

★ (4)

Land Management Master Report

Lease Number: 000099178-00

Entity Number: 0006
Entity Name: HG Energy, LLC

Project:	Devon Aquisition	Lease Interest:	1.0000000000
Prospect:	001 - Devon Aquisition	Acreage:	0.00000
Lease Name:	FURNER, JOHN H ET UX	Revenue:	0.8750000000
Lease Number:	000099178-00	Royalty:	0.1250000000
Description:	JOHN N FURNER FARM	Override:	0.0000000000
StateName:	WV	Lease Date:	06/13/1916
Lease Type:	Term	Effective Date:	01/01/1900
Mineral Type:	Oil and Gas	Expiration Date:	
Maintained By:	Held by Production	ExtensionDate:	
Rental Type:	Entity Pays & Bears All	Renewal Date:	
Book Number:	260	Rental Date:	
Page Number:	62	Rental Amount:	\$ 0.00
Instrument Number:		Rental Frequency:	
Lease Gross Acres:	185.00000	ShutIn Date:	
Lease Net Acres:	185.00000	Shut In Payment:	\$ 0.00
Lease HBP Acres:	0.00	Shut In Frequency:	
Lease Pooled Acres:	0.00	Initial Payment Date:	
Lease Unpooled Acres:	0.00	Initial Payment:	\$ 0.00

Comments
 GARNER & GAWTHROP, INC. EXPRESSLY DID NOT ASSIGN THEIR RIGHTS IN THE J H FURNER WELL NOS. 2, 4, AND 5. TOGETHER WITH ALL APPURTENANT EQUIPMENT AND MATERIALS PERTAINING THERETO AND ALL OPERATING RIGHTS THEY MAY HAVE. IT IS ACKNOWLEDGED THAT A WELL CURRENTLY PRODUCING FROM THE BENSON FORMATION IS SITUATED UPON THIS ASSIGNED LAND. SAID WELL WAS DRILLED PURSUANT TO AN ASSIGNMENT DATED 4/12/1977, OF THE BENSON RIGHTS ONLY, BY AND BETWEEN GARNER & GAWTHROP, INC. AND DALE ADKINS, INC. 12/1/1994 - THE WOLF SUMMIT 1-A WAS UNITIZED AND THIS LEASE WAS INCLUDED IN THE UNIT. RECORDED IN BOOK 1259, PG 73. UNIT NO. 09992850-00 0107/1994-GARNER & GAWTHROP, INC. ASSIGNED TO PENNZOIL PRODUCTS COMPANY ALL RIGHTS FROM THE SURFACE DOWN TO 100 FEET BELOW THE FIFTH SAND (FIFTH SAND BEING 2929 FEET) RESERVING THE J H FURNER WELL NOS. 2, 4, AND 5 TOGETHER WITH APPURTENT EQUIPMENT AND OPERATING RIGHTS. ALSO RESERVING A WELL CURRENTLY PRODUCING FROM THE BENSON FORMATION. SAID WELL WAS DRILLED PURSUANT TO AN ASSIGNMENT DATED 4/12/1977 OF THE BENSON RIGHTS ONLY, BY ASSIGNOR AND DALE ADKINS, INC. DATE CREATED FOR CONVERSION PURPOSES DATE CREATED FOR CONVERSION PURPOSES EFFECTIVE 04/13/1998, PENNZOIL PRODUCTS COMPANY ALL RIGHT, TITLE AND INTEREST TO PENNZOIL EXPLORATION AND PRODUCTION COMPANY BY DEED, ASSIGNMENT AND CONVEYANCE. DATE CREATED FOR CONVERSION PURPOSES

SEE FEE 108087-00 - CATHERINE HARPOLD
Lessees

Lessee	StartDate	End Date	Interest
CARTER, D J	01/01/1900		0.0000000000

Lessors

Lessor:	Payee:	Start Date:
Depositor:	Interest:	End Date:
Description:	Amount:	
Comments:		

Obligations

Number	ObligationType	Amount	Due Date
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Comments:

Clauses

Clause #	Clause Type
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Comments:

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Office of Oil and Gas

FEB 3 2014

WV Department of
Environmental Protection

West Virginia Division 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 indicates such.

There are no water wells or springs within 1000 feet of the proposed well site.

Office of Oil and Gas
JAN 03 2014
Office of Environmental Protection
JAN 03 2014
WV Department of Environment
02/07/2014

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 49A497948
Watershed Ten Mile Creek Quadrangle Salem 7.5' 596
Elevation 1338' County Harrison 33 District Ten Mile 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.? 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 _____)

*SDW
12/23/2013
MDC*

Drilling medium anticipated for this well? Air, fresh water, oil based, etc. Air, Fresh Water
- 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. 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? _____

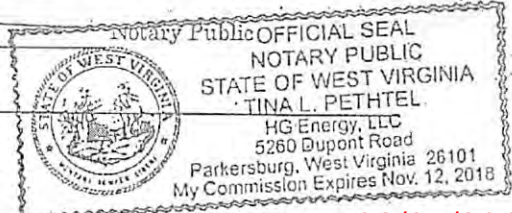
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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.

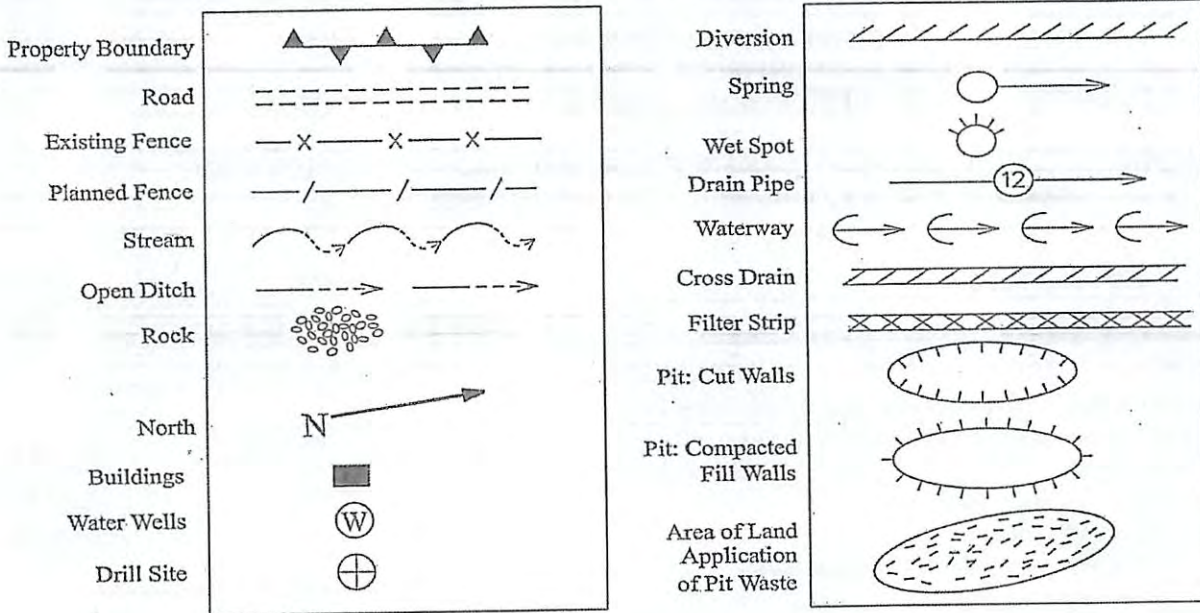
Company Official Signature Diane C White
Company Official (Typed Name) Diane C. White
Company Official Title Accountant

Subscribed and sworn before me this 22 day of November 2013

My commission expires Nov. 12, 2018



Legend



Proposed Revegetation Treatment: Acres Disturbed Area I Approx. 1.0 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	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

WV Dept. of Environmental Protection
 Office of Oil and Gas
 JAN = 3 2014

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] [Signature]
 Title: Oil & Gas Inspector Date: 12/23/2013
 Field Reviewed? X Yes _____ No

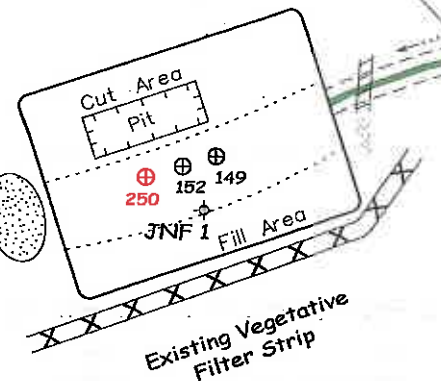
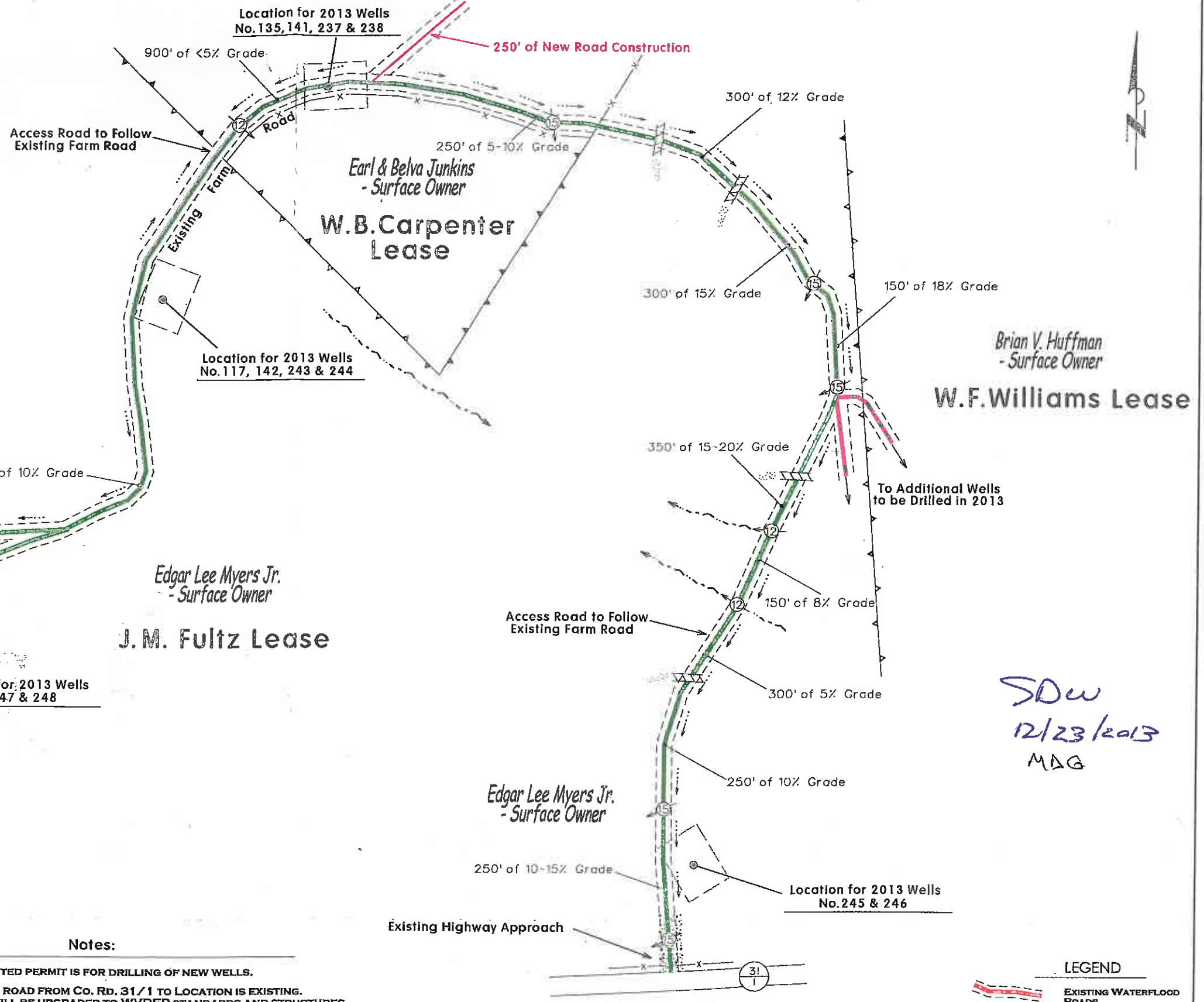
Pre-seed/mulch all disturbed areas as soon as reasonably possible per WV DEP ETS manual. Upgrade ETS as necessary

Reclamation Plan For: J.N. Furno No.250

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

Hilary Heights, LTD
- Surface Owner
S.E. Adams Lease

Clarence & Mary Mutschelknaus
- Surface Owners
J.N. Furno Lease



- Notes:**
- REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS.
 - ACCESS ROAD FROM Co. Rd. 31/1 TO LOCATION IS EXISTING. ROAD WILL BE UPGRADED TO WVDEP STANDARDS AND STRUCTURES INSTALLED AS SHOWN.
 - ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
 - MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
 - ALL ROAD GRADES <math><5\%</math> EXCEPT AS NOTED.
 - LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
 - DRAWING NOT TO SCALE.

Brian V. Huffman
- Surface Owner
W.F. Williams Lease

Edgar Lee Myers Jr.
- Surface Owner
J.M. Fultz Lease

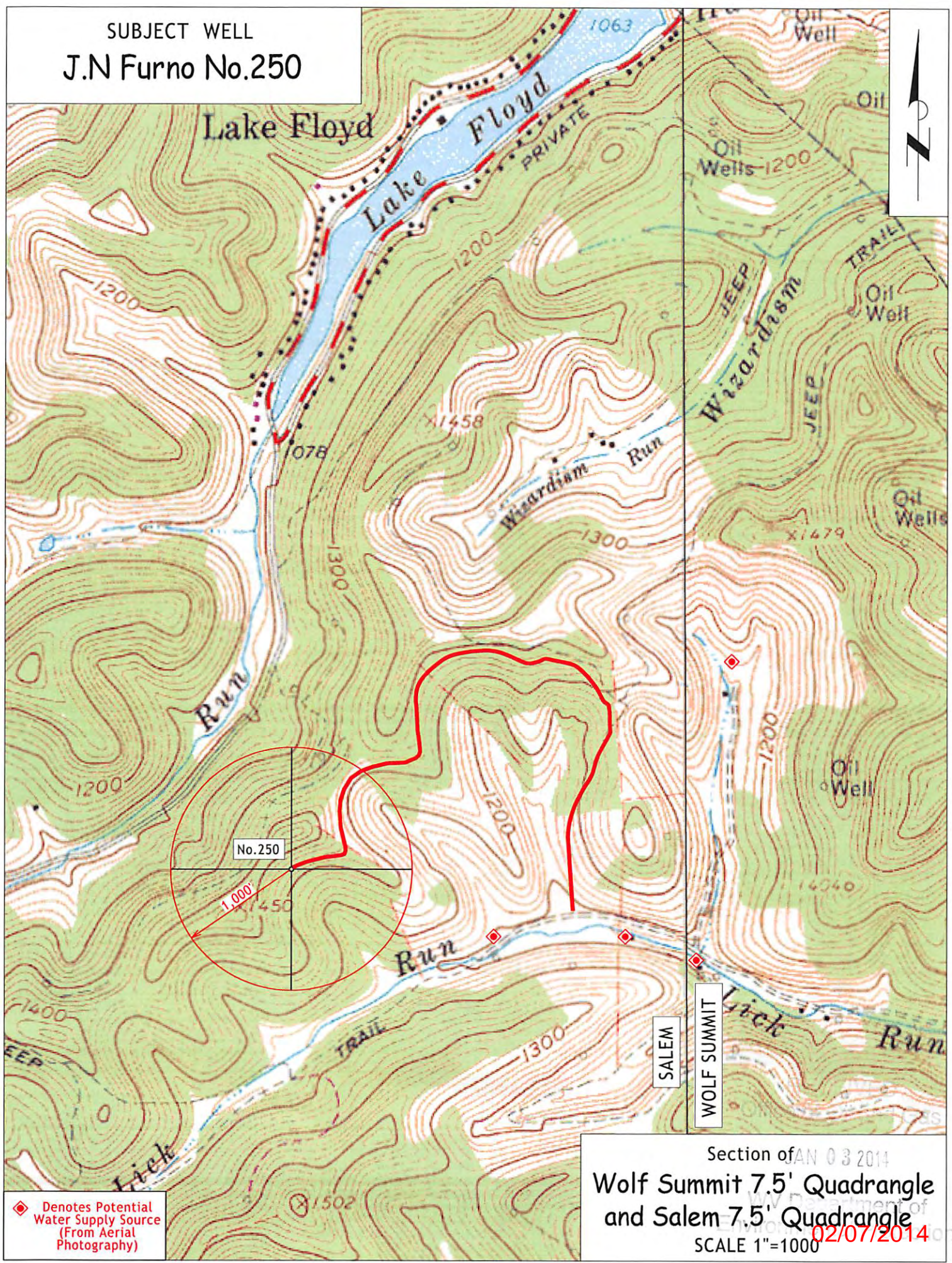
SDW
12/23/2013
MAG

LEGEND

	EXISTING WATERFLOOD ROADS
	EXISTING LEASE OR FARM ROADS TO BE UPGRADED.
	NEW ROADS TO BE CONSTRUCTED

02/07/2014

SUBJECT WELL
J.N Furno No.250



◆ Denotes Potential Water Supply Source (From Aerial Photography)

Section of AN 03 2014
Wolf Summit 7.5' Quadrangle
and Salem 7.5' Quadrangle
SCALE 1"=1000
02/07/2014

(BOT. HL: LON:-80°30'42.8") LON:-80°30'41.4"

3255

SURVEY NOTES

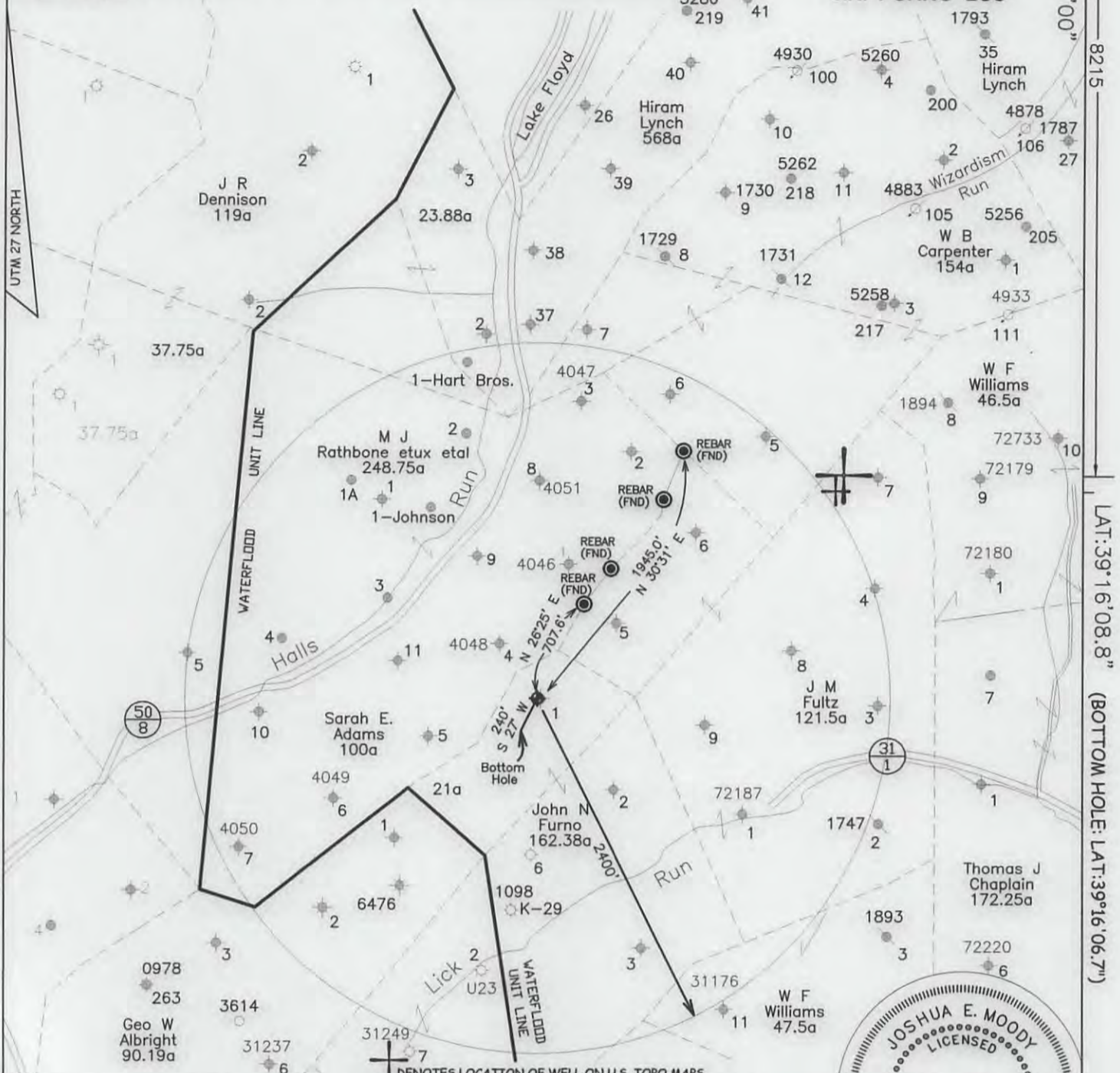
1 - Well ties and Latitude and Longitude were measured by Topcon Hiper GA survey grade GPS. Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owners, adjoiners 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)		LOCATION REFERENCES	
Surface	N-4,346,764m. E-542,155m.	UTM 27 S 84°11' E 20.4' 4" PVC WELL N 02°33' W 113.8' 9" HICKORY	
Bottom Hole	N-4,346,699m. E-542,122m.	Brg. Direction is prop. well to the ref.	

LAT: 39°17'30"
MAP OF
H.G. ENERGY, LLC
-WATERFLOOD UNIT-
J.N. FURNO 250



LON: 80°30'00" 8215
 LAT: 39°16'08.8" (BOTTOM HOLE: LAT: 39°16'06.7")

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



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 1338' WATERSHED TEN MILE CREEK API WELL # 47-033-05811
 DISTRICT TEN MILE COUNTY HARRISON STATE 47 COUNTY 033 PERMIT 05811
 QUADRANGLE SALEM 7.5'

SURFACE OWNER CLARENCE & MARY MUTSCHELKNAUS ACREAGE 157.94 ACRES +/-
 OIL & GAS ROYALTY OWNER JOHN H. FURNER, et al LEASE ACREAGE 185 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 27° W 240')

PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION 5TH SAND ESTIMATED DEPTH MD= 3,285'

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

02/07/2014