



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

PERMIT MODIFICATION APPROVAL

May 21, 2014

HG ENERGY, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit Modification Approval for API Number 3305801 , Well #: S.E. ADAMS NO. 146
MOVED WELL LOCATION ON SAME LEASE

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith *J. Martin*
Regulatory/Compliance Manager
Office of Oil and Gas

Promoting a healthy environment.



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

3305801M
RECEIVED
Office of Oil and Gas

MAY 2 2014

WV Department of
Environmental Protection

May 1, 2014

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

MODIFICATION

WELL MOVED TO ANOTHER
LOCATION ON THE SAME
LEASE.

RE: S. E. Adams No. 146 – Request for Revision
Ten Mile District, Harrison County
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a request to revise a permit to drill a liquid injection well.

Please let me know if you require additional information.

Very truly yours,

Diane C White

Diane C. White

Enclosures

cc: Hilary Heights LTD - Beth A Taylor – Certified
Stacy & Lori Bokey - Certified
Wolf Run Mining Co. - Certified
Sam Ward – Inspector

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. 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 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.

33058015
MOP

U.S. Postal Service[™]
CERTIFIED MAIL[™] RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.19

Sent To: **SEA 146**
 Hilary Heights - Atha Beth Taylor
 Street, Apt. No., or PO Box No. 142 Valley Street
 City, State, ZIP+4[®] Salem WV 26426

PS Form 3800, August 2006 See Reverse for Instructions

7014 5630 0001 9028 8450

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.19

Sent To: **SEA 146**
 Welf 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

7014 5630 0001 9028 8450

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.19

Sent To: **SEA 146**
 Stacy & Lori Bokey
 Street, Apt. No., or PO Box No. Rt 1, Box 299-46
 City, State, ZIP+4[®] Mount Clare WV 26408

PS Form 3800, August 2006 See Reverse for Instructions

7014 5630 0001 9028 8450

RECEIVED
Office of Oil and Gas

MAY 2 2014

WV Department of
Environmental Protection

WW-2B1

Well No. S. E. Adams No. 146 R

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.

No known Water Supply Sources are located within 1000' of proposed well but many water sources have been tested in conjunction with this Wolf Summit drilling program

Pertinent to this well site are:

Stacy & Lori Bokey
Rt. 1, Box 299 - 46
Mt. Clare, WV 26408

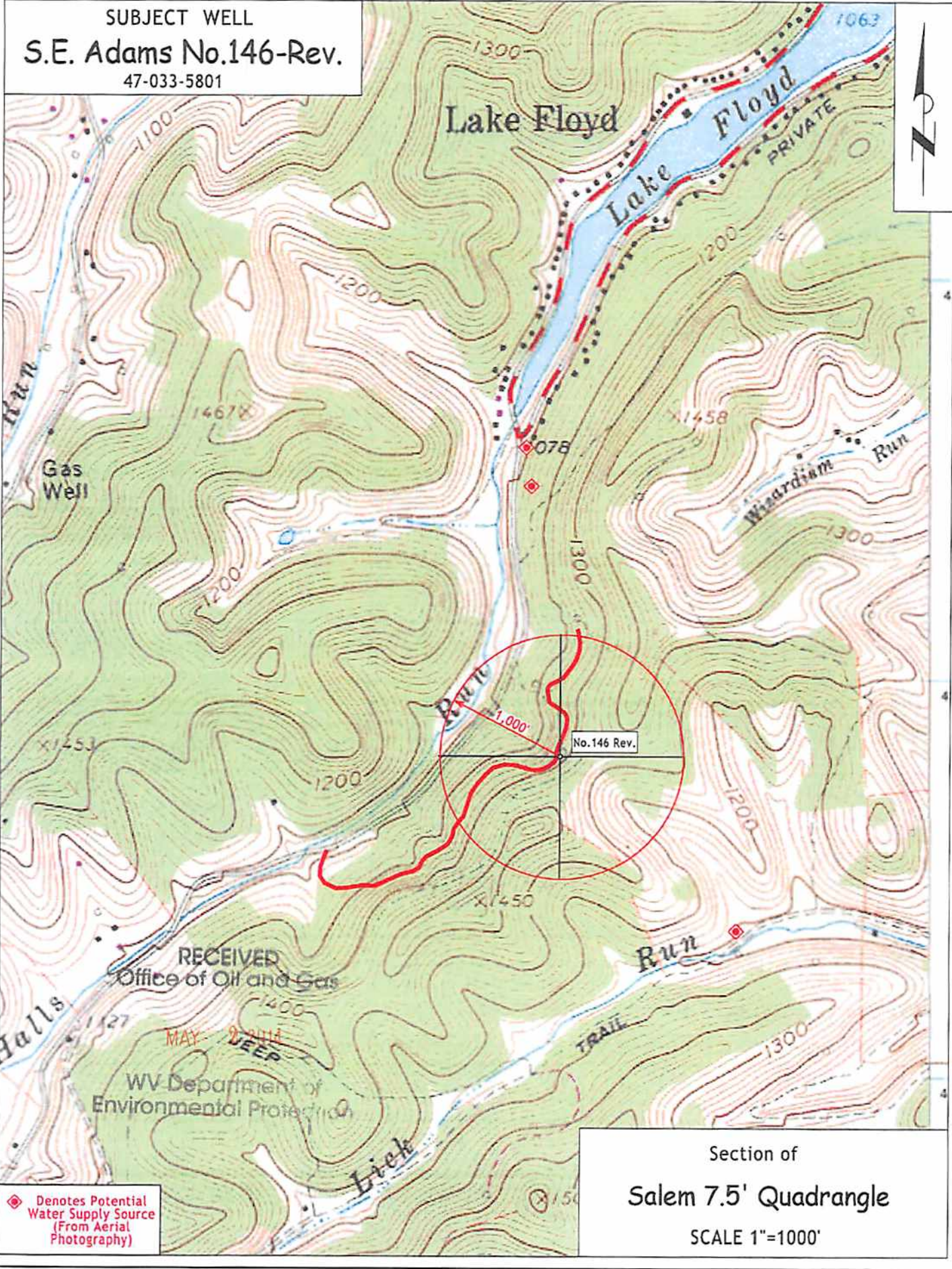
Hilary Heights - Attn: Beth A Taylor
142 Valley Street
Salem, WV 26426

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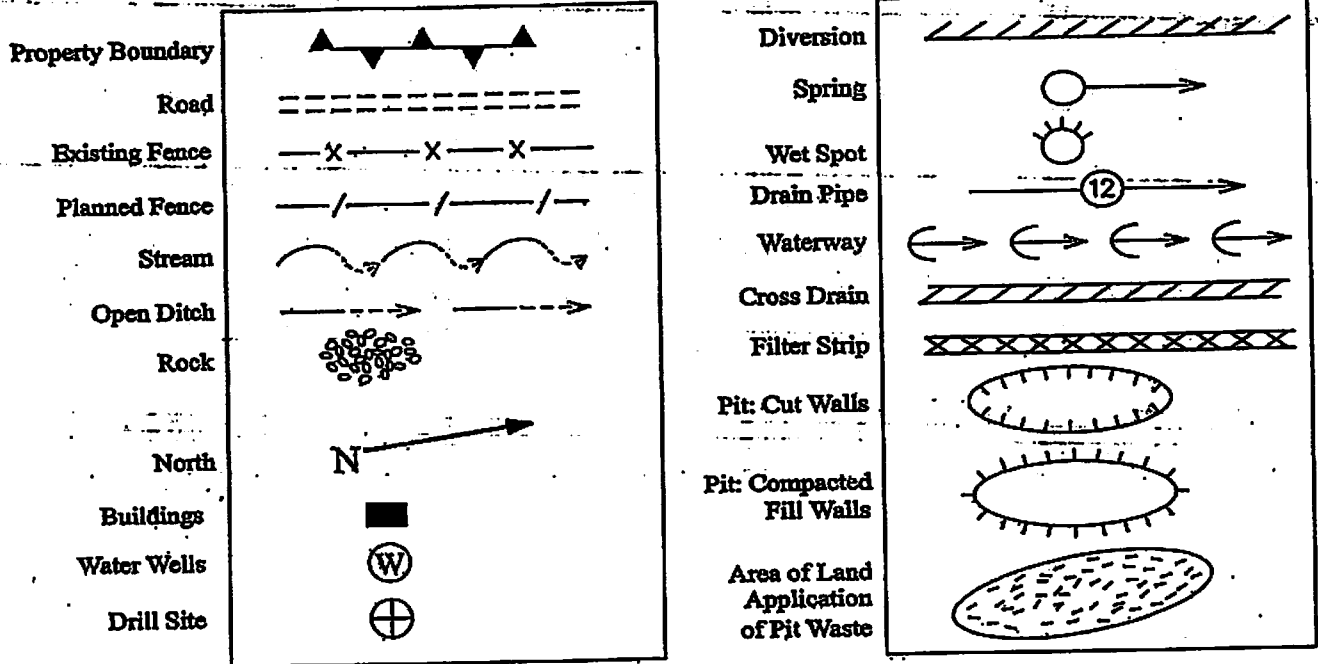
SUBJECT WELL
S.E. Adams No.146-Rev.
47-033-5801



◆ Denotes Potential Water Supply Source (From Aerial Photography)

Section of
Salem 7.5' Quadrangle
SCALE 1"=1000'

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>		<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

Received
 JAN - 2 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection

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

Plan approved by: S. D. Warratt Michael A. Hoff

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible per
 WV DEP EIS Manual. Upgrade EIS as necessary

Title: Oil & Gas Inspector Date: 12/23/2013

Field Reviewed? (Y) Yes () No

Reclamation Plan For: Sarah E. Adams No. 146 Revised (47-033-05801)



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



See Pages 2 & 3 for Road
Details to County Road

See Pages 2 & 3 for Road
Details to County Road

See Pages 2 & 3 for Road
Details to County Road

Notes:

- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- ACCESS ROADS FROM COUNTY ROAD TO LOCATION ARE EXISTING. ROADS 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 <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

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MAY 2 2014

WV Department of
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33058015 REV 2 FOR PLANNING

MJ Rathbone Lease

Hilary Heights, LTD
- Surface Owner

Stacy & Lori Bokey
- Surface Owner

Michael Nardella et ux
- Surface Owner

S.E. Adams Lease

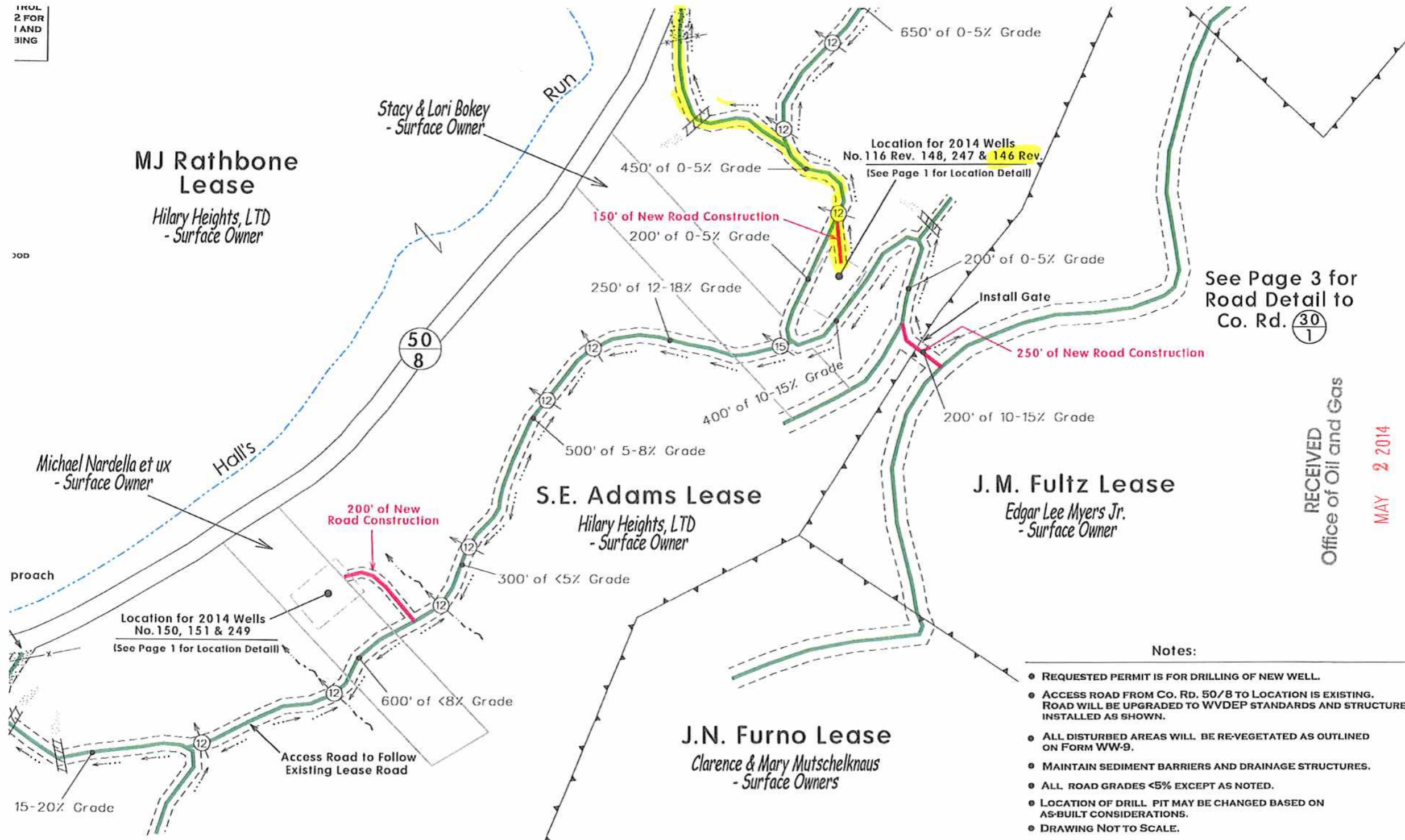
Hilary Heights, LTD
- Surface Owner

J.M. Fultz Lease

Edgar Lee Myers Jr.
- Surface Owner

J.N. Furno Lease

Clarence & Mary Mutschelknaus
- Surface Owners



Location for 2014 Wells
No. 116 Rev. 148, 247 & 146 Rev.
(See Page 1 for Location Detail)

See Page 3 for
Road Detail to
Co. Rd. $\frac{30}{1}$

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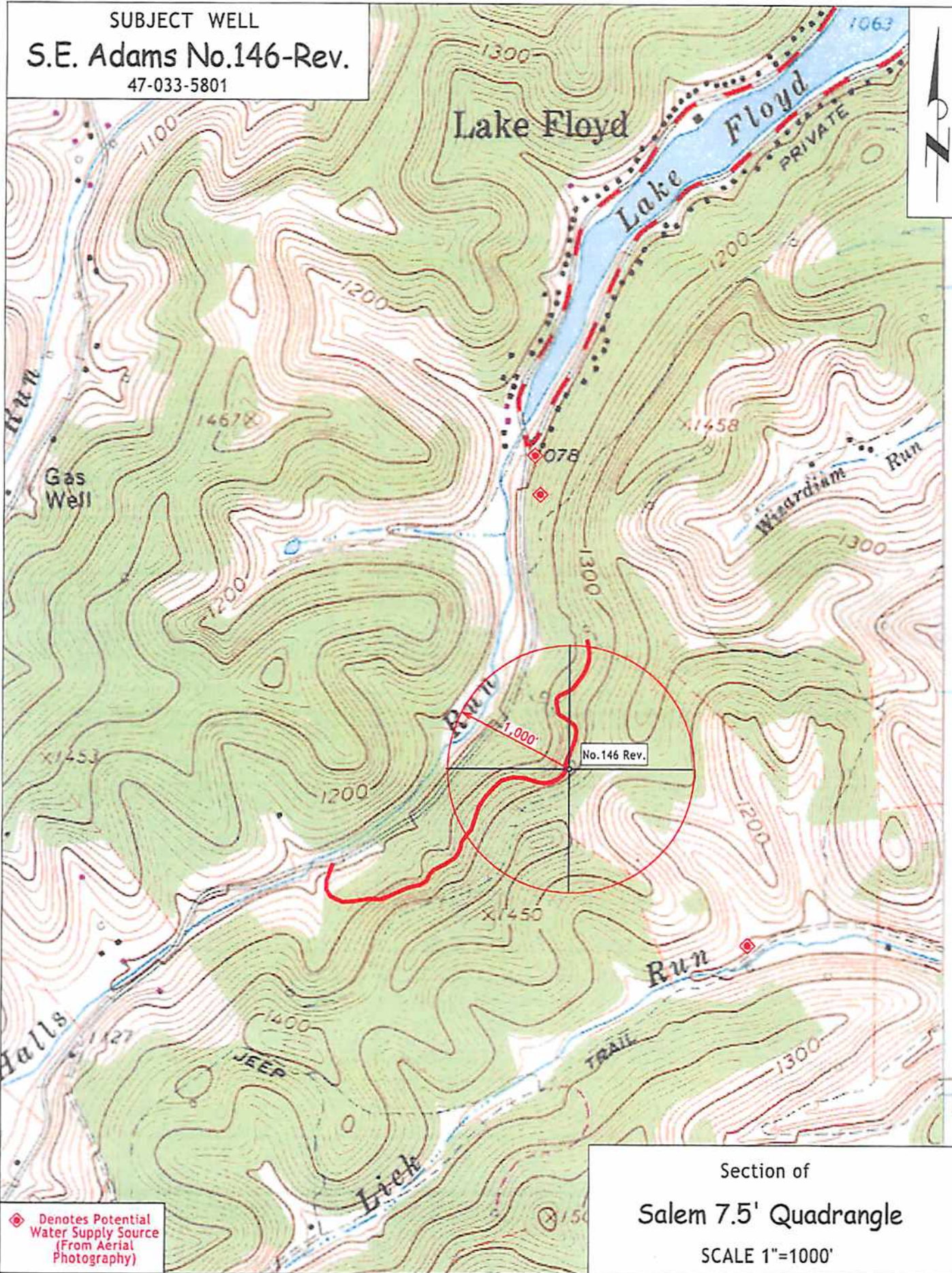
MAY 2 2014

WV Department of
Environmental Protection

Notes:

- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- ACCESS ROAD FROM Co. Rd. 50/8 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 <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

SUBJECT WELL
S.E. Adams No.146-Rev.
47-033-5801



◆ Denotes Potential Water Supply Source (From Aerial Photography)

Section of
Salem 7.5' Quadrangle
SCALE 1"=1000'

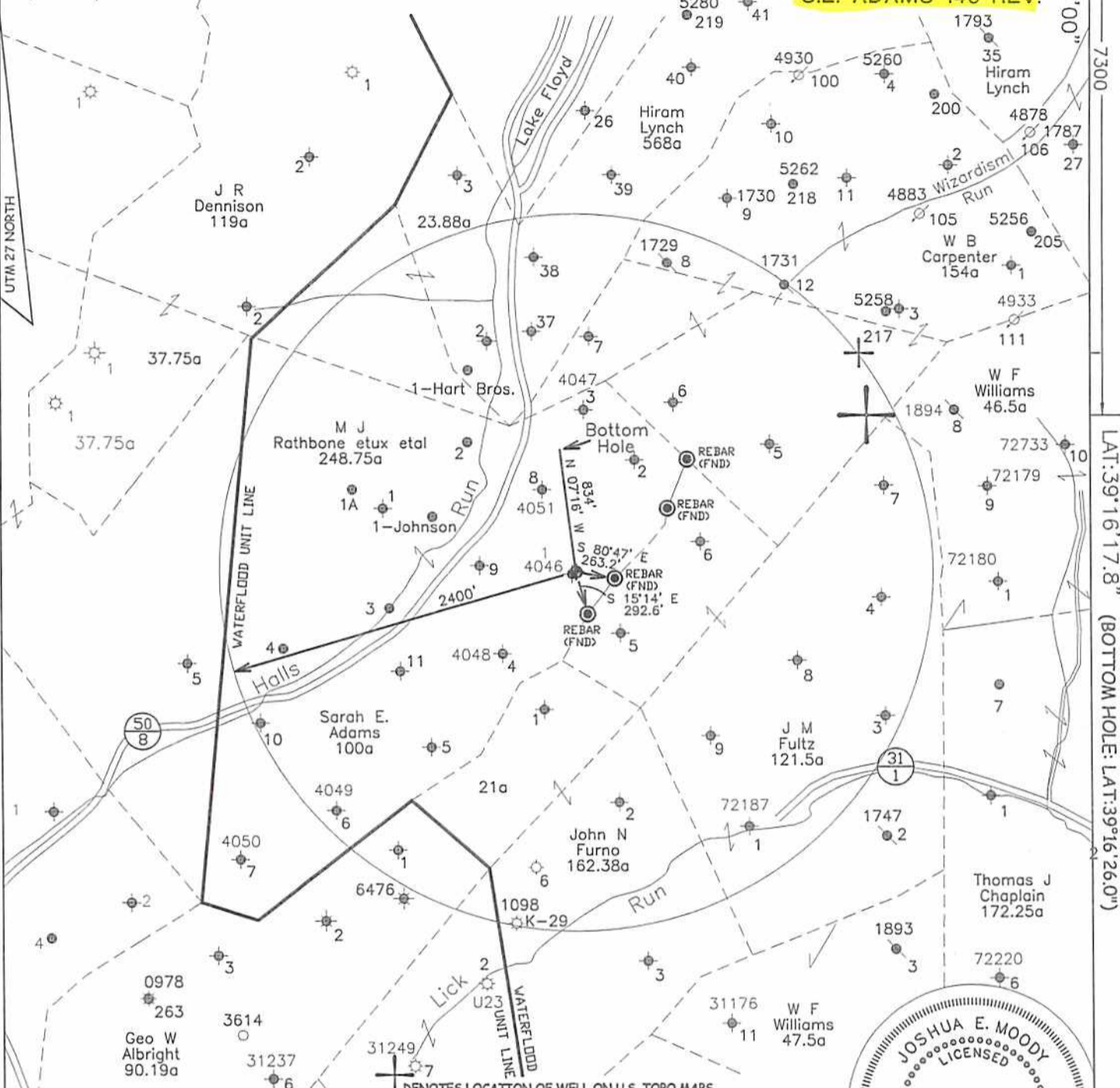
(BOT. HL: LON:-80°30'39.6") LON:-80°30'38.3"

3015

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-4,347,043m. E-542,228m.	UTM 27 S 65°02' W 30.6' EX: WELL S 26°02' W 175.7' 12" HICKORY	
Bottom Hole	N-4,347,295m. E-542,196m.	Brg. Direction is prop. well to the ref.	

LAT: 39°17'30"
MAP OF
H.G. ENERGY, LLC
-WATERFLOOD UNIT-
S.E. ADAMS 146 REV.



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

JOB # 13-014
 DRAWING # 13LAKEFLOYD FOLDER
 SCALE 1" = 1000'
 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 1267' WATERSHED TEN MILE CREEK API WELL # 47-033-05801S Mop,
 DISTRICT TEN MILE COUNTY HARRISON STATE 47 COUNTY 033 PERMIT 05801S Mop,
 QUADRANGLE SALEM 7.5'

SURFACE OWNER HILARY HEIGHTS LTD ACREAGE 241.5
 OIL & GAS ROYALTY OWNER HILARY HEIGHTS LTD., et al LEASE ACREAGE 400 ACRES +7-
 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 07°16' W 834M)
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION 5TH SAND ESTIMATED DEPTH MD= 3,400'
 WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH
 ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

McLaughlin, Jeffrey W

From: Diane White <dwhite@hgenergyllc.com>
Sent: Thursday, May 01, 2014 5:31 PM
To: McLaughlin, Jeffrey W
Subject: Request for Revision for SE Adams 146 (API 47-033-05801)
Attachments: SE ADAMS 146 - REVISION REQUEST.pdf

Jeff,
Attached is the revision request for the SE Adams 146 we discussed earlier today. I've sent the certified mailings out and will send the notices to you when I get them back from the Post Office in the morning. I'll send a copy on to Sam as well.

As you'll see, the well is moving from one well pad to another one with three wells located on it. Let me know if you have any questions.

Thank You for Your Consideration,
Diane

Diane C. White



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
304-420-1119 (O)
304-482-0108 (C)
304-863-3172 (F)
dwhite@hgenergyllc.com

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