



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 31, 2013

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-3305255, 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 NO. 210
Farm Name: JUNKINS, EARL & BELVA

API Well Number: 47-3305255

Permit Type: Re-Work

Date Issued: 07/31/2013

Promoting a healthy environment.

08/02/2013

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.

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.

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

COPY

Well Operator's Report of Well Work

Farm name: JUNKINS, EARL & BELVA Operator Well No.: HIRAM LYNCH 210

LOCATION: Elevation: 998' Quadrangle: WOLF SUMMIT 7.5'

District: TEN MILE County: HARRISON
Latitude: 2,025 Feet south of 39 Deg 17 Min 30 Sec.
Longitude: 7,900 Feet west of 80 Deg 27 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: TIM BENNETT

Permit Issued: 06/11/09

Well work Commenced: 09/08/09

Well work Completed: 10/02/09

Verbal plugging permission granted on:

Rotary Cable _____ Rig _____

Total Depth (feet) 2750'

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N) N

Coal Depths (ft): 246'-253'

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	353'	353'	85 sks
4 1/2"	2696.4'	2696.4'	150 sks

OPEN FLOW DATA * WATERFLOOD PRODUCER

Producing formation Fifth Sand Pay zone depth (ft) 2585'-2596'
 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.

For: EAST RESOURCES, INC.

By: [Signature]
Date: 5/30/10

08/02/2013

Treatment: Treated perfs (2585'- 2596') w/ 250 gals. 15% HCl acid,
160 bbls gelled water, and 1000 # 20/40 sand.

Received

MAY 10 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Well Log :	0	213	Sand and Shale
	213	240	Sand
	240	246	Shale
	246	253	Coal
	253	325	Shale
	325	370	Sand
	370	678	Shale
	678	700	Sand
	700	768	Shale
	768	196	Sand
	196	855	Shale
	855	900	Sand
	900	943	Shale
	943	1035	Sand
	1035	1169	Shale
	1169	1216	Sand
	1216	1273	Shale
	1273	1284	Sand
	1284	1478	Shale
	1478	1498	Sand
	1498	1534	Shale
	1534	1548	Sand
	1548	1562	Shale
	1562	1584	Sand
	1584	1598	Shale
	1598	1690	Big Lime
	1690	1745	Big Injun
	1745	2198	Shale
	2198	2182	Sand
	2182	2260	Shale
	2260	2434	Sand
	2434	2581	Shale
	2581	2597	Sand
	2597	2750	Shale
	2750		TD

08/02/2013

Reclamation Plan For:

Hiram Lynch No. 210

47-033-05255



Existing Location
No Pit will be Constructed
for Stimulation Treatment.

Earl & Belva Junkins
- Surface Owner

Notes:

- Requested permit is for stimulation of existing well.
- 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.

500' of <5% Grade

Stone
Creek
Crossing

Wizardism
Run

Lynch
Plant

Bridge

31

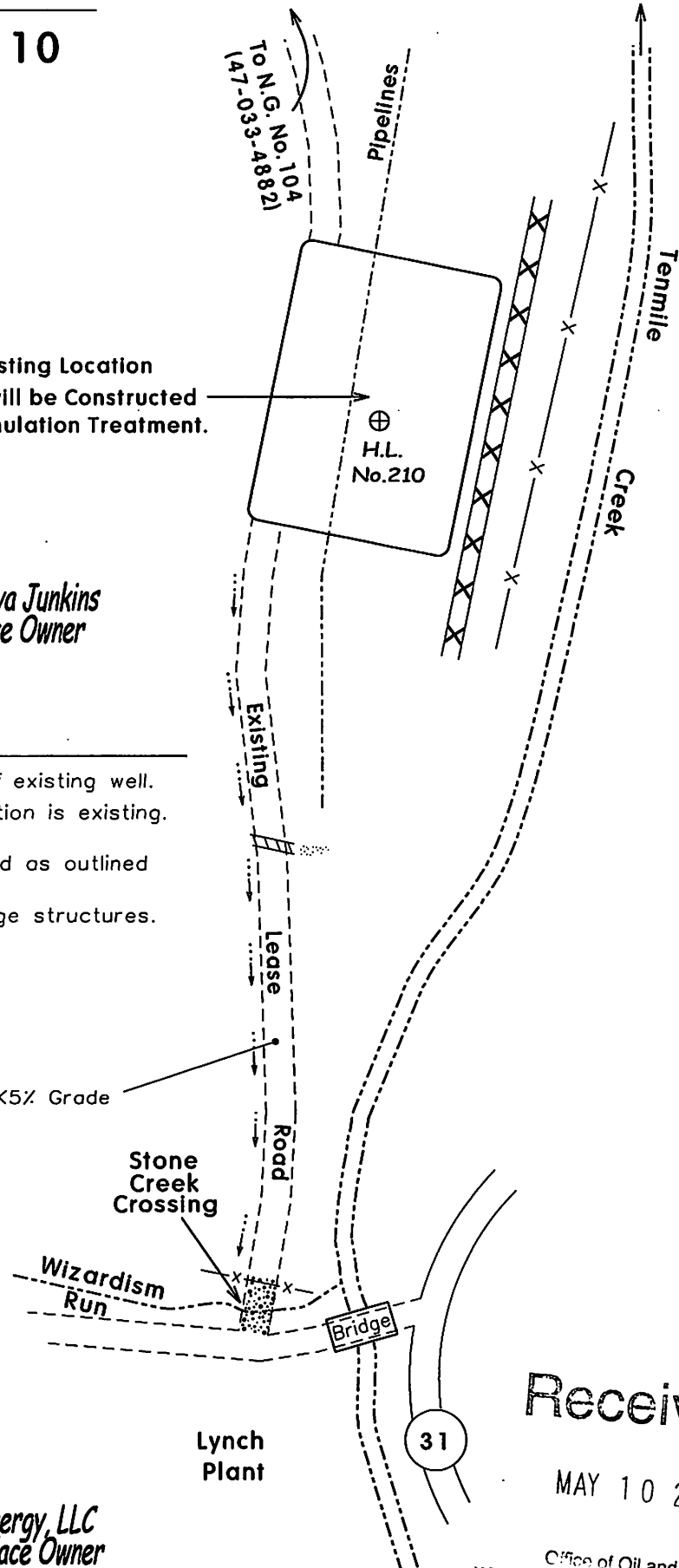
Received

MAY 10 2013

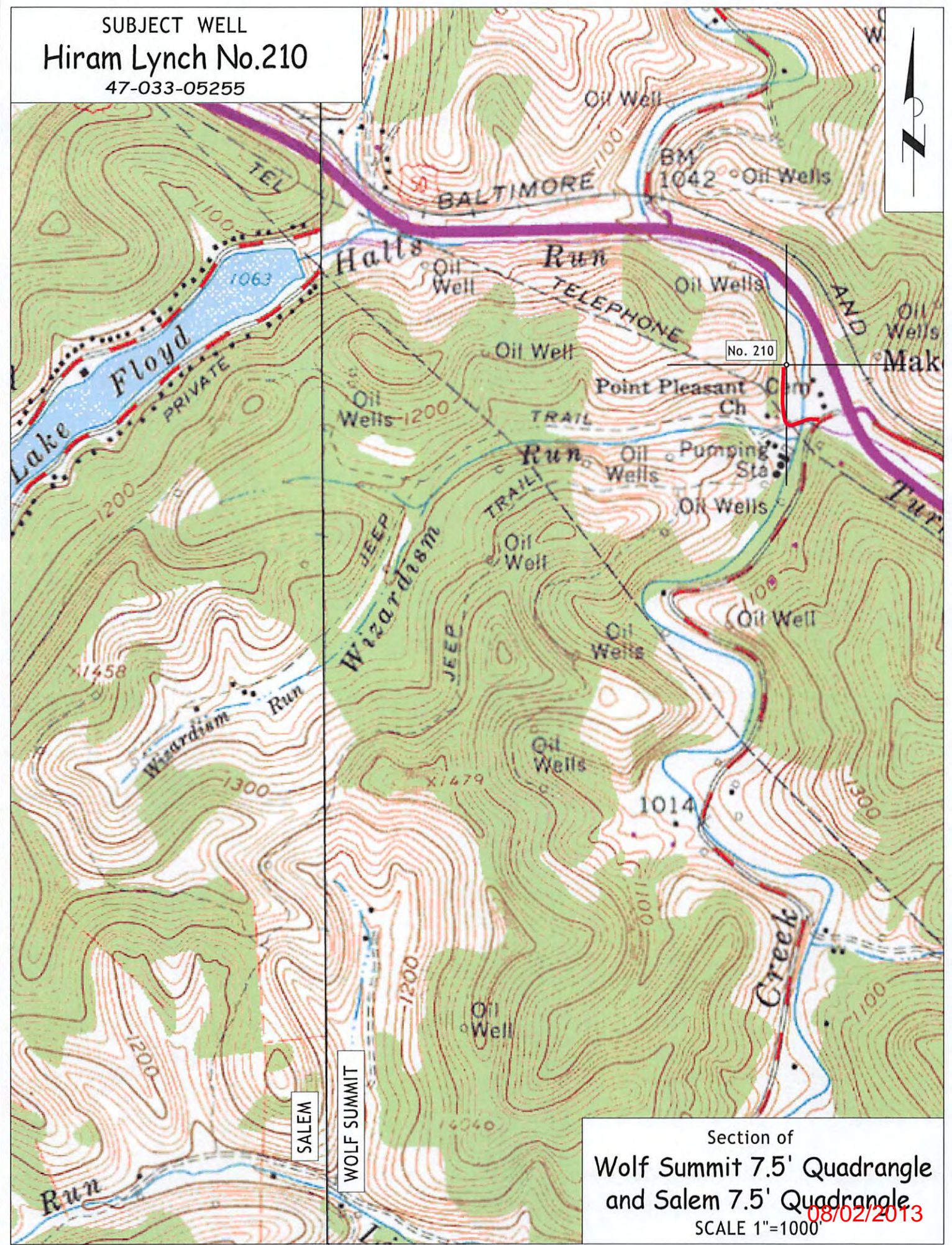
Office of Oil and Gas
West Virginia Department of Environmental Protection
08/02/2013

HG Energy, LLC
- Surface Owner

TAL
11 APR 13



SUBJECT WELL
Hiram Lynch No.210
47-033-05255



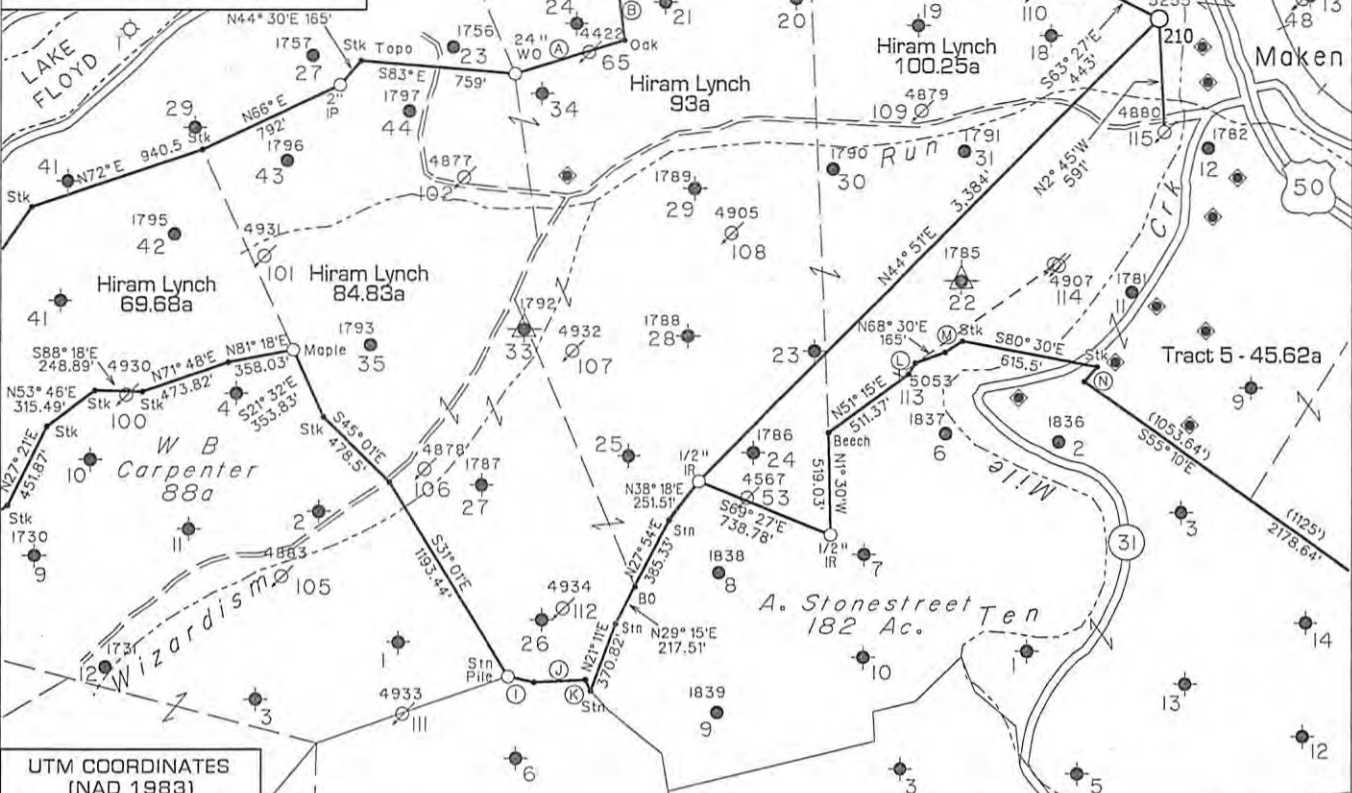
SALEM

WOLF SUMMIT

Section of
Wolf Summit 7.5' Quadrangle
and Salem 7.5' Quadrangle
SCALE 1"=1000
08/02/2013

PLAT NOTES

- The drawing shown hereon is from the original drilling permit plat dated 4/4/09.
- This plat has been updated to show current surface ownership and as-drilled Latitude & Longitude.
- Latitude & Longitude shown was measured by DGPS - Sub-Meter Mapping Grade (NAD 1927)



UTM COORDINATES (NAD 1983)
 N - 4,348,661 m.
 E - 544,322 m.

PLAT NOTES

- The drawing shown hereon is from the original drilling permit plat dated 5/4/2009.
- This plat has been updated to show current surface ownership and as-drilled Latitude & Longitude.

CALL TABLE

(A) N75° 14'E 606.06'	(B) N4° 09'W 375.89'
(C) N80° 40'E 1020.5'	(D) S89° 25'E 264.00'
(E) S57° 17'E 379.92'	(F) S80° 00'E 483.21'
(G) N80° 31'E 260.33'	(H) S84° 57'E 98.02'
(I) S73° 48'E 138.43'	(J) S89° 39'E 266.94'
(K) S15° 59'E 58.69'	(L) N28° 30'E 66.00'
(M) N56° 30'E 107.25'	(N) S40° 00'W 99.00'

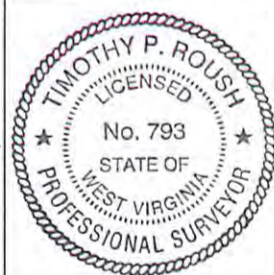
LOCATION REFERENCES Existing Well

• DENOTES A POSSIBLE WATER SUPPLY SOURCE (LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT SURVEYED)
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. _____
 MAP NO. _____ N _____ S _____ E _____ W _____
 SCALE _____ 1" = 1000'
 MINIMUM DEGREE OF ACCURACY _____ Sub-Meter DGPS
 PROVEN SOURCE OF ELEVATION _____ DGPS Survey

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 25304



DATE March 25, 2013
 FARM Hiram Lynch No.210
 API WELL NO. 47 - 033 - 05255 *Rw*

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___ CORE ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 998' WATERSHED Tenmile Creek
 DISTRICT Ten Mile COUNTY Harrison
 QUADRANGLE Wolf Summit 7.5'

SURFACE OWNER Earl & Belva Junkins ACREAGE 89.94 Ac.
 OIL & GAS ROYALTY OWNER Anne Farr et al. LEASE ACREAGE 568 Ac. 08/02/2013
 LEASE NO. 31378-50

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Fifth Sand ESTIMATED DEPTH 2,750'
 WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch
 ADDRESS 5260 Dupont Road ADDRESS 5260 Dupont Road
 Parkersburg, W.Va. 26101 Parkersburg, W.Va. 26101



CERTIFIED MAIL

May 22, 2013

Jeremy James
P.O. Box 147
Ona, WV 25545

Re: Wilson Coal #48
Lincoln District, Wayne County, WV
API # 47-099-00561
Written Application to plug and abandon wellbore

Dear Mr. James:

Enclosed are the following forms for the subject well:

Form WW-4A	Notice of Application to Plug and Abandon Well (1 copy)
Form WW-4B	Application for a Permit to Plug and Abandon (1 copy)
Well Location Plat	Certified Copy of WVDEP Well Location Plat
Form WW-9	Reclamation Plan and Site Registration Application (1 copy)

Copies of the Well Permit Application and Voluntary Statement of No Objection have been sent to the appropriate surface owner(s) and coal operator(s), owner(s) and lessee(s) for signature.

Please make necessary recommendations and sign the Reclamation Plan before forwarding to Chief, Division of Oil & Gas, 601 57th Street, Charleston, WV 25304

If you have any questions or need additional information, please contact me at 412-249-3850.

Sincerely,

Kenneth L. Marcum
Regulatory Supervisor

Received
JUL 25 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

Operator: HG ENERGY, LLC
API: 3305255
WELL No: HIRAM LYNCH NO. 210
Reviewed by: gmm Date: 5/18/2013
15 Day End of Comment: 5/25/13

Check # 2129
\$ 650.⁰⁰

CHECKLIST FOR FILING A PERMIT
Re-Work

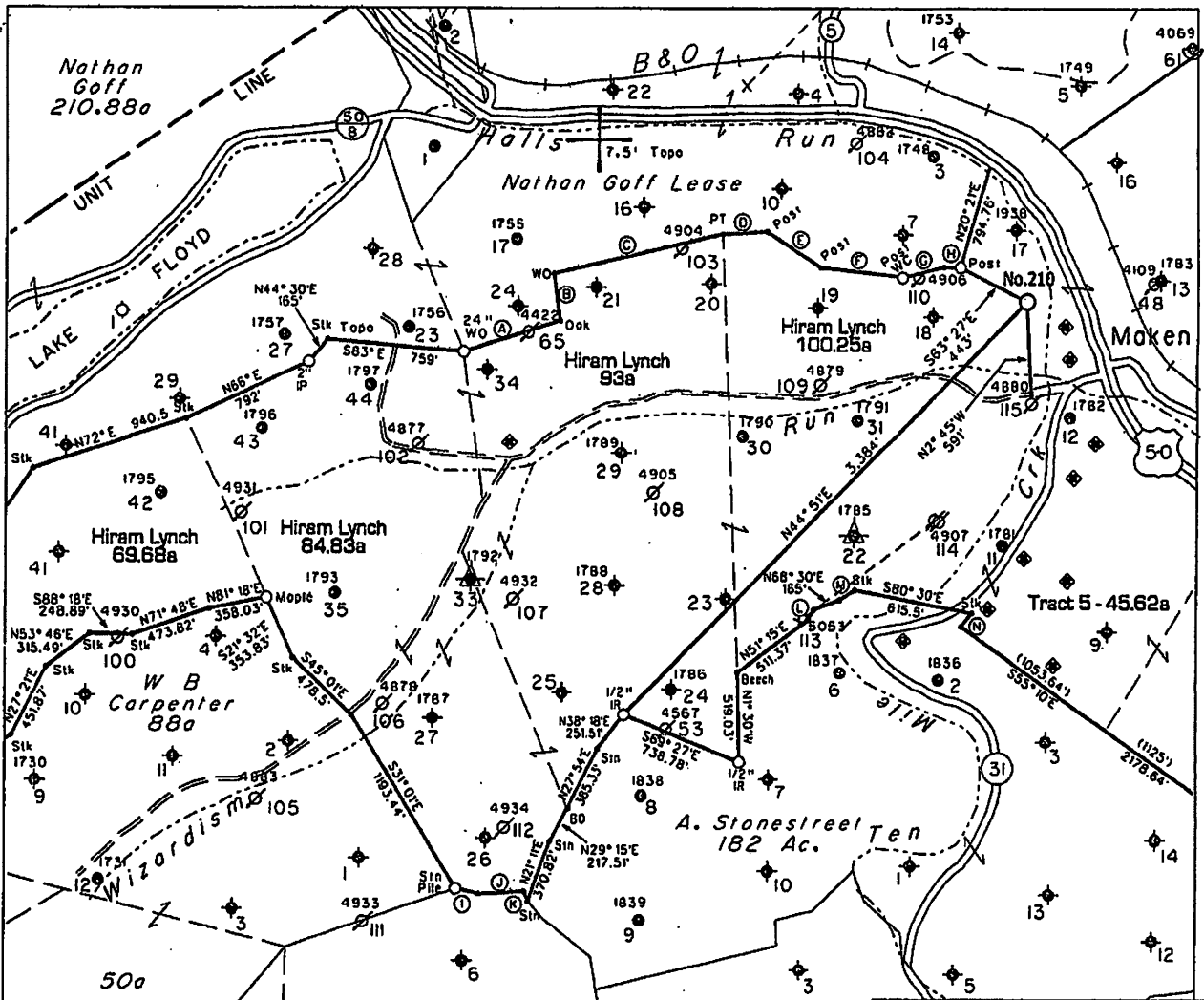
- WW-3B
- Inspector signature on WW-3B
- Completion / Well Records of Previous Work
- WW-3A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage *oo ww-3B*
- WW-9 (Page 1 & 2) (Notarized)
- ps* More than 5,000 bbls
- Inspector Signature on WW-9
- Reclamation plan
- Topographic Map of location of well
- Mylar Plat (Signed Sealed) (Surface owner on plat matches WW-2A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$650.00 check (\$550.00 if no pit)
- Mine Data
- Addendum
- Professional Engineer/Company has COA

Longitude - 80° 29' 10.5" | 7,900'

LATITUDE 39° 17' 30"

LONGITUDE 80° 27' 30"

Latitude - 39° 17' 09.9" | 7,025'



NOTES ON SURVEY

1 - The property lines shown hereon are taken from survey of the Lynch Tract by Horner Brothers, Engineers, dated November 1921. Well ties and Latitude & Longitude are by DGPS survey. (Sub-Meter Mapping Grade) referenced to UTM Grid North, Zone 17 North, NAD 1927.

2 - Surface owner information obtained from the Harrison County Assessor's tax records.

CALL TABLE			
(A) N75°14'E	606.06'	(B) N4°09'W	375.89'
(C) N80°40'E	1020.5'	(D) S89°25'E	264.00'
(E) S57°17'E	379.92'	(F) S80°00'E	483.21'
(G) N80°31'E	260.33'	(H) S84°57'E	98.02'
(I) S73°48'E	138.43'	(J) S89°39'E	256.94'
(K) S15°59'E	58.69'	(L) N28°30'E	66.00'
(M) N56°30'E	107.25'	(N) S40°00'W	99.00'

◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE (LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT SURVEYED)

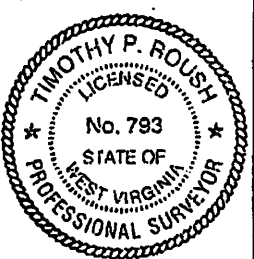
⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LOCATION REFERENCES	
S30°E	107' 4" Box Elder
N27°E	135' 8" Box Elder

FILE NO. _____
 MAP NO. _____ N _____ S _____ E _____ W _____
 SCALE _____ 1" = 1000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter DGPS
 PROVEN SOURCE OF ELEVATION DGPS Survey

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) *Timothy P. Roush*
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25304



DATE May 4, 2009
 FARM Hiram Lynch No. 210
 API WELL NO. 47-033-05255

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____ CORE _____
 (IF "GAS") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 998' WATERSHED Tenmile Creek
 DISTRICT Ten Mile COUNTY Harrison
 QUADRANGLE Wolf Summit 7.5'
 SURFACE OWNER Earl & Belva Junkins ACREAGE 89.94 Ac.
 OIL & GAS ROYALTY OWNER Anne Farr et al. LEASE ACREAGE 568 Ac.
 LEASE NO. 31378-50
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Fifth Sand ESTIMATED DEPTH 2,750'
 WELL OPERATOR East Resources, Inc. DESIGNATED AGENT Philip S. Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519

08/02/2013

FORM IV-6

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

JAN 26 2010

WV Department of
Environmental Protection

Company Name: East Resources, Inc. 308122
API: 47-033- 5255 County: Harrison District: Tenmile
Farm Name: Hiram Lynch Well No: 210

Discharge Date/s From: (MMDDYY) NA To: (MMDDYY) NA
Discharge Times: From: NA To: NA

Disposal Option Utilized:

- (1) Land Application: _____ (Include a Topographical Map of the Area)
- (2) UIC: _____ Permit No. _____
- (3) Offsite Disposal: _____ Site Location: _____
- (4) Reuse: X Alternate Permit No. 47-033-5251
- (5) Centralized Facility: _____ Permit No. _____
- (6) Other Method: _____ (Include an Explanation) _____

Follow instructions below to determine your treatment category.

Optional Pretreatment Test: _____ Cl- mg/l _____ DO mg/l

- 1 Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) _____ If yes who? _____, and place four (4) on line 7. If not go to line 2.
- 2 Was frac fluid or flowback put into the pit? (Y/N) _____ If yes go to line 5. If not go to line 3.
- 3 Do you have a pretreatment choride value? (see above) (Y/N) _____ If yes go to line 4.
If not go to line 5.
- 4 Is that chloride level less than 5000 mg/l? (Y/N) _____ If yes enter a one (1) on line 7.
- 5 Do you have a pretreatment value for DO? (see above) (Y/N) _____ If yes go to line 6.
If not enter a three (3) on line 7.
- 6 Is that DO greater than 2.5 mg/l? (Y/N) _____ If yes enter a two (2) on line 7. If not
enter a three (3) on line 7.

7 _____ is the category of your pit. Use the appropriate section.

Name of Principle Executive Officer Philip S. Ondrusek
Title of Officer Production Manager
Date Completed January 25, 2010

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe 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.

Signature of Principle Executive Officer or Authorized Agent.



Signature

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

Well Operator's Report of Well Work

RECEIVED
Office of Oil & Gas
MAR 9 12 010

Farm name: JUNKINS, EARL & BELVA
LOCATION: Elevation: 998'
District: TEN MILE
Latitude: 2,025 Feet south of
Longitude: 7,900 Feet west of

Operator Well No.: HIRAM LYNCH 216
Quadrangle: WOLF SUMMIT 7.5'
County: HARRISON
39 Deg 17 Min 30 Sec
80 Deg 27 Min 30 Sec

WV Department of
Environmental Protection

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: TIM BENNETT

Permit Issued: 06/11/09

Well work Commenced: 09/08/09

Well work Completed: 10/02/09

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2750'

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N) N

Coal Depths (ft): 246'-253'

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	353'	353'	85 sks
4 1/2"	2696.4'	2696.4'	150 sks

OPEN FLOW DATA

* WATERFLOOD PRODUCER

Producing formation Fifth Sand Pay zone depth (ft) 2585'-2596'
 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.

For: EAST RESOURCES, INC.

By: _____

Date: _____

Philip Ondrusek
3/30/10

08/02/2013

Treatment: Treated perms (2585'- 2596') w/ 250 gals. 15% HCl acid,
160 bbls gelled water, and 1000 # 20/40 sand.

Well Log:	0	213	Sand and Shale
	213	240	Sand
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	768	196	Sand
	196	855	Shale
	855	900	Sand
	900	943	Shale
	943	1035	Sand
	1035	1169	Shale
	1169	1216	Sand
	1216	1273	Shale
	1273	1284	Sand
	1284	1478	Shale
	1478	1498	Sand
	1498	1534	Shale
	1534	1548	Sand
	1548	1562	Shale
	1562	1584	Sand
	1584	1598	Shale
	1598	1690	Big Lime
	1690	1745	Big Injun
	1745	2198	Shale
	2198	2182	Sand
	2182	2260	Shale
	2260	2434	Sand
	2434	2581	Shale
	2581	2597	Sand
	2597	2750	Shale
	2750		TD

08/02/2013

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 2000' of proposed well.

Received

MAY 10 2013

08/02/2013

Office of Oil and Gas
WV Dept. of Environmental Protection



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

3305255

CHK# 2129
\$650.00

April 3, 2013

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

RE: Hiram Lynch No. 210 (47-033-5255)
Tenmile District, Harrison County
West Virginia

Dear Mr. Peterson:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-2(B1), Mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above-captioned injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane C White

Diane C. White

Enclosures

cc: Earl & Belva Junkins – Certified
Wolf Run Mining Company - Certified
Tristan Jenkins - Inspector

Received

MAY 10 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

08/02/2013

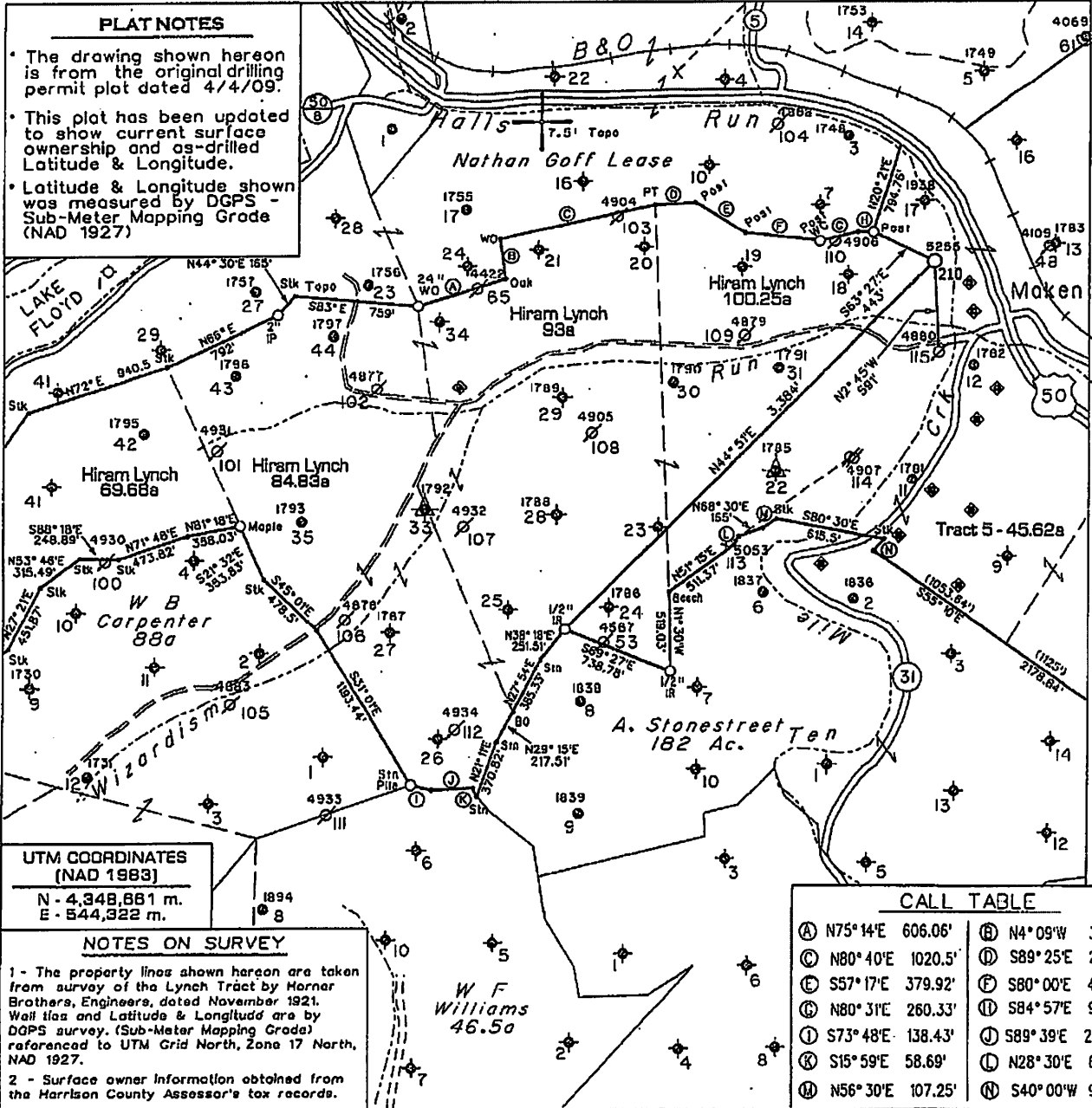
Longitude - 80° 29' 10.5"

7,900'

LATITUDE 39° 17' 30"

PLAT NOTES

- The drawing shown hereon is from the original drilling permit plot dated 4/4/09.
- This plot has been updated to show current surface ownership and as-drilled Latitude & Longitude.
- Latitude & Longitude shown was measured by DGPS - Sub-Meter Mapping Grade (NAD 1927)



UTM COORDINATES (NAD 1983)
 N - 4,348,661 m.
 E - 544,322 m.

NOTES ON SURVEY

- The property lines shown hereon are taken from survey of the Lynch Tract by Horner Brothers, Engineers, dated November 1921. Well locations and Latitude & Longitude are by DGPS survey. (Sub-Meter Mapping Grade) referenced to UTM Grid North, Zone 17 North, NAD 1927.
- Surface owner information obtained from the Harrison County Assessor's tax records.

CALL TABLE

Ⓐ N75°14'E 606.06'	Ⓔ N4°09'W 375.89'
Ⓒ N80°40'E 1020.5'	Ⓕ S89°25'E 264.00'
Ⓔ S57°17'E 379.92'	Ⓖ S80°00'E 483.21'
Ⓒ N80°31'E 260.33'	Ⓗ S84°57'E 98.02'
Ⓘ S73°48'E 138.43'	Ⓙ S89°39'E 266.94'
Ⓚ S15°59'E 58.69'	Ⓛ N28°30'E 66.00'
Ⓜ N56°30'E 107.25'	Ⓝ S40°00'W 99.00'

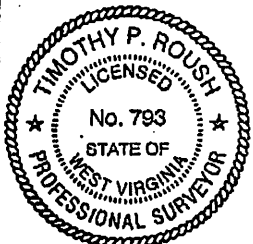
◆ DENOTES A POSSIBLE WATER SUPPLY SOURCE (LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT SURVEYED)
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LOCATION REFERENCES
Existing Well

FILE NO. _____
 MAP NO. _____ N _____ S _____ E _____ W _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: Sub-Meter DGPS
 PROVEN SOURCE OF ELEVATION: DGPS Survey

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 25304



DATE September 21, 2011
 FARM Hiram Lynch No. 210
 API WELL NO. 47-033-05255S

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___ CORE ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 998' WATERSHED Tenmile Creek
 DISTRICT Ten Mile COUNTY Harrison
 QUADRANGLE Wolf Summit 7.5'

SURFACE OWNER Earl & Belva Junkins ACREAGE 89.94 Ac.
 OIL & GAS ROYALTY OWNER Anne Farr et al. LEASE ACREAGE 568 Ac. 08/02/2013
 LEASE NO. 31378-50

PROPOSED WORK: DRILL ___ CONVERT DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Convert to Liquid Injection

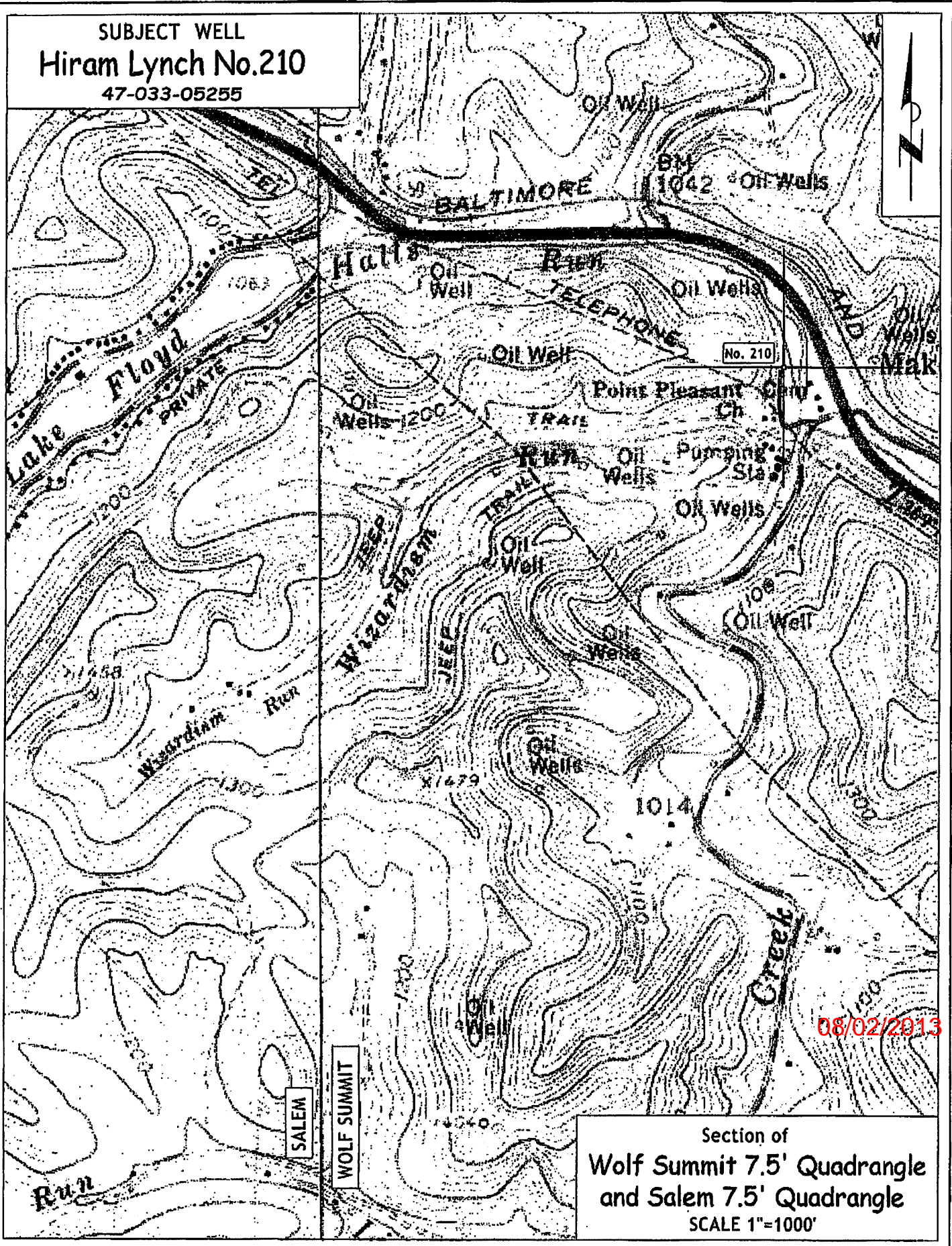
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Fifth Sand ESTIMATED DEPTH 2,750'

WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
 Vienna, W.Va. 26105 Vienna, W.Va. 26105

LONGITUDE 80° 27' 30"
 Latitude - 39° 17' 09.9"
 2,025'

33-05255

SUBJECT WELL
Hiram Lynch No.210
47-033-05255



08/02/2013

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