



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

March 26, 2015

WELL WORK PERMIT
Rework-Secondary Recovery

This permit, API Well Number: 47-3304904, 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 103
Farm Name: GASKINS, KENNETH & DEBORA
API Well Number: 47-3304904
Permit Type: Rework-Secondary Recovery
Date Issued: 03/26/2015

Promoting a healthy environment.

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 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 within 30 days of commencement of drilling.

33 04904SW

FORM WW-3 (B)
Office of Oil and Gas

FEB 06 2015



WV Department of
Environmental Protection

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

1) Date: 01/14/2015
2) Operator's Well No. Hiram Lynch 103
3) API Well No.: 47 - 033 - 04904
State County Permit
4) UIC Permit No. UIC2R03301AP

5) WELL TYPE: Liquid Injection / Gas Injection (not storage) / Waste Disposal
6) LOCATION: Elevation: 1286' / Watershed: Wizardism Run
District: Tenmile / County: Harrison / Quadrangle: Wolf Summit 7.5'
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 2903 Feet (top) to 2918 Feet (bottom)

13) Estimated Depth of Completed Well, (or actual depth of existing well): 3050 Feet

14) Approximate water strata depths: Fresh 425 Feet / Salt 1350 Feet

15) Approximate coal seam depths: 548

16) Is coal being mined in the area? Yes No

17) Virgin reservoir pressure in target formation 1250 psig / Source Estimated

18) Estimated reservoir fracture pressure 2650 psig (BHFP)

19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 BBL / 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

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	7"	LS	17#			612'	612'		
Coal									Sizes
Intermediate									
Production	4 1/2"	J-55	9.5#			3009'	3009'		Depths set
Tubing									
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from Hiram J. Lynch et ux
by deed / lease X / other contract / dated 01/19/1899 of record in the
Harrison County Clerk's office in lease Book 105 Page 143

SDW
1/26/2015



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

API # 47 33 4904

3304904SW

Well Operator's Report of Well Work

Farm name: GASKINS, KENNETH & DEBORA

Operator Well No.: HIRAM LYNCH 103

LOCATION: Elevation: 1,286'
District: TEN MILE
Latitude: 1,700 Feet south of
Longitude: 9,950 Feet west of

Quadrangle: WOLF SUMMIT 7.5'

County: HARRISON
39 Deg 17 Min 30 Sec.
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: 07/25/07

Well work Commenced: 01/28/08

Well work Completed: 04/10/08

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3050'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	612'	612'	150 sks
4 1/2"	3009.25'	3009.25'	150 sks

OPEN FLOW DATA

* WATERFLOOD INJECTOR

Producing formation Fifth Sand Pay zone depth (ft) 2904-2917
 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.

Office:

For: EAST RESOURCES, INC

By: [Signature]
Date: 4/14/08

W. Environmental

MAR 4904

Treatment :

Treated perforations(2904'-2917') w/ 500 gals. 15% HCl acid

Well Log :

0	178	Sand and Shale
178	194	Sand
194	360	Shale
360	430	Sand
430	444	Shale
444	452	Sand
452	654	Shale
654	678	Sand
678	694	Shale
694	710	Sand
710	888	Shale
888	912	Sand
912	1020	Shale
1020	1036	Sand
1036	1092	Shale
1092	1104	Sand
1104	1192	Shale
1192	1218	Sand
1218	1276	Shale
1276	1340	Sand
1340	1370	Shale
1370	1392	Sand
1392	1530	Shale
1530	1548	Sand
1548	1800	Shale
1800	1810	Sand
1810	1874	Shale
1874	1994	Sand
1994	1928	Shale
1928	1988	Big Lime
1988	2064	Big Injun
2064	2490	Shale
2490	2512	Sand
2512	2587	Shale
2587	2610	Sand
2610	2626	Shale
2626	2692	Sand
2692	2700	Shale
2700	2744	Sand
2744	2904	Shale
2904	2918	Fifth Sand
2918	3050	Shale
3050		TD

FORM WW-3 (A)
1/12



1) Date: January 14, 2015
2) Operator's Well No. Hiram Lynch 103
3) API Well No.: 47 - 033 - 04904
State County Permit
4) UIC Permit No. UIC2R03301AP

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Owner(S) To Be Served
(a) Name Kenneth & Deborah Gaskins
Address 46 Chandler Drive
Shinnston, WV 26431
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Sam Ward
Address P. O. Box 2327
Buckhannon, WV 26201
Telephone 304-389-7583
7) (a) Coal Operator
Name _____
Address _____
7) (b) Coal Owner(S) With Declaration Of Record
Name _____
Address _____
7) (c) Coal Lessee with Declaration Of Record
Name Wolf Run Mining
Address 2708 Cranberry Square
Morgantown, WV 26505

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____ 20 15 .

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

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

FEB 06 2015

WV Department of
Environmental Protection

33049045W

7014 0510 0000 4074 5286

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Postage	\$ 1.61
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61



HL 103

Sent To Kenneth & Deborah Gaskins

Street, Apt. No.;
or PO Box No. 46 Chandler Drive

City, State, ZIP+4 Shinnston WV 26431

PS Form 3800, August 2006 See Reverse for Instructions

7014 0510 0000 4074 5293

U.S. Postal Service™
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OFFICIAL USE

Postage	\$ 1.61
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61



HL 103

Sent To Wolf Run Mining

Street, Apt. No.;
or PO Box No. 2708 Cranberry Square

City, State, ZIP+4 Morgantown WV 26505

PS Form 3800, August 2006 See Reverse for Instructions

RECEIVED
 Office of Oil and Gas
 SEP 09 2015
 WV Department of
 Environmental Protection

3304904SW

WW-9
Rev. 5/10

Page 143 of _____
API Number 47 - 033 - 04904
Operator's Well No. Hiram Lynch 103

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 Wizardism Run Quadrangle Wolf Summit 7.5'

Elevation 1286' County Harrison District Tennmile

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

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)
- 04904 Other (Explain _____)

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11/26/2015

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air, Fresh Water

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

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.

RECEIVED
Office of Oil and Gas

Company Official Signature Diane White

Company Official (Typed Name) Diane White

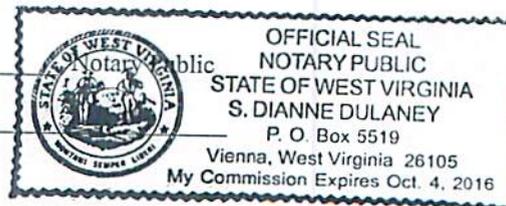
FEB 06 2015

Company Official Title Agent

WV Department of
Environmental Protection

Subscribed and sworn before me this 14th day of January, 20 15

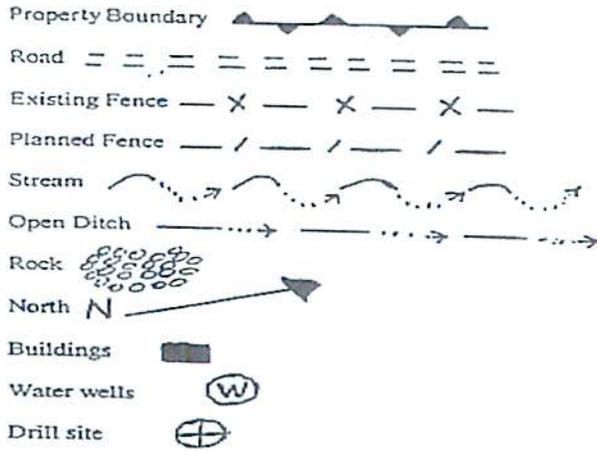
Suzanne Dulaney
My commission expires Oct. 4, 2016



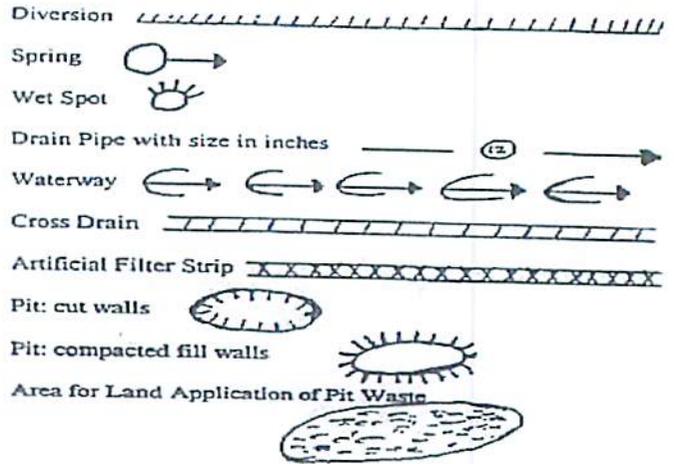
3304904SW

Form WW-9

Operator's Well No. Hiram Lynch 103



LEGEND



Proposed Revegetation Treatment: Acres Disturbed .5 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

Proper sediment Control should be in place at all times.

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

RECEIVED
Office of Oil and Gas

FEB 06 2015

Plan Approved by: S. J. Deward II

WV Department of
Environmental Protection

Comments: _____

Title: OOG Inspector

Date: 1/26/2015

Field Reviewed? () Yes (X) No

Reclamation Plan For: Hiram Lynch No. 103

47-033-4904

RECEIVED
Office of the

Chad W. Johnson
- Surface Owner

Chad W. Johnson
- Surface Owner

William Burnside
- Surface Owner

Hiram Lynch Lease

Kenneth Gaskins
- Surface Owner

NOTE:
WELL LOCATION WAS BUILT AND RECLAIMED UNDER DRILLING PERMIT NO. 47-033-4904. 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. NO PIT WILL BE REQUIRED FOR PROPOSED WELL WORK.

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

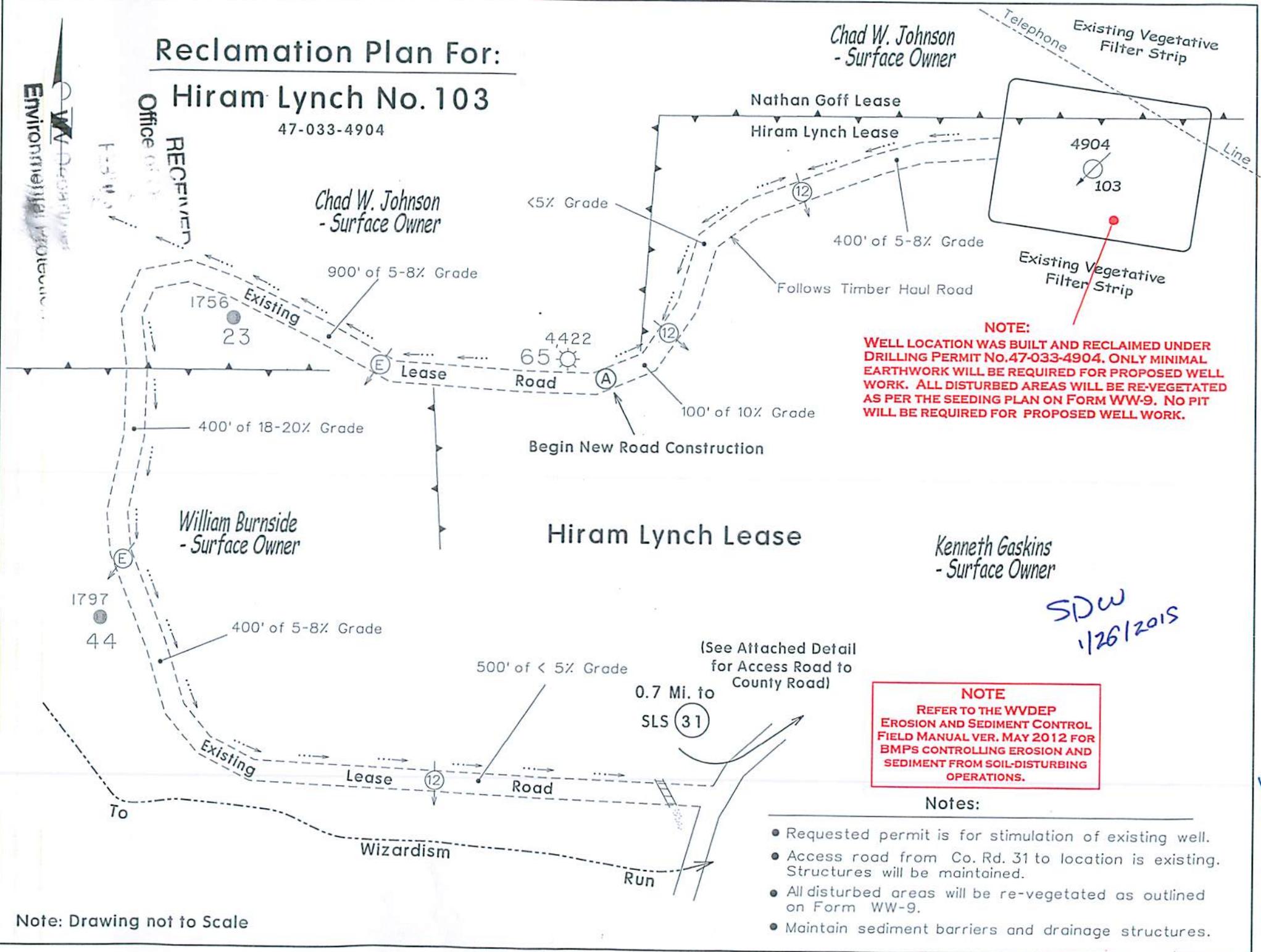
Notes:

- 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.

SDW
1/26/2015

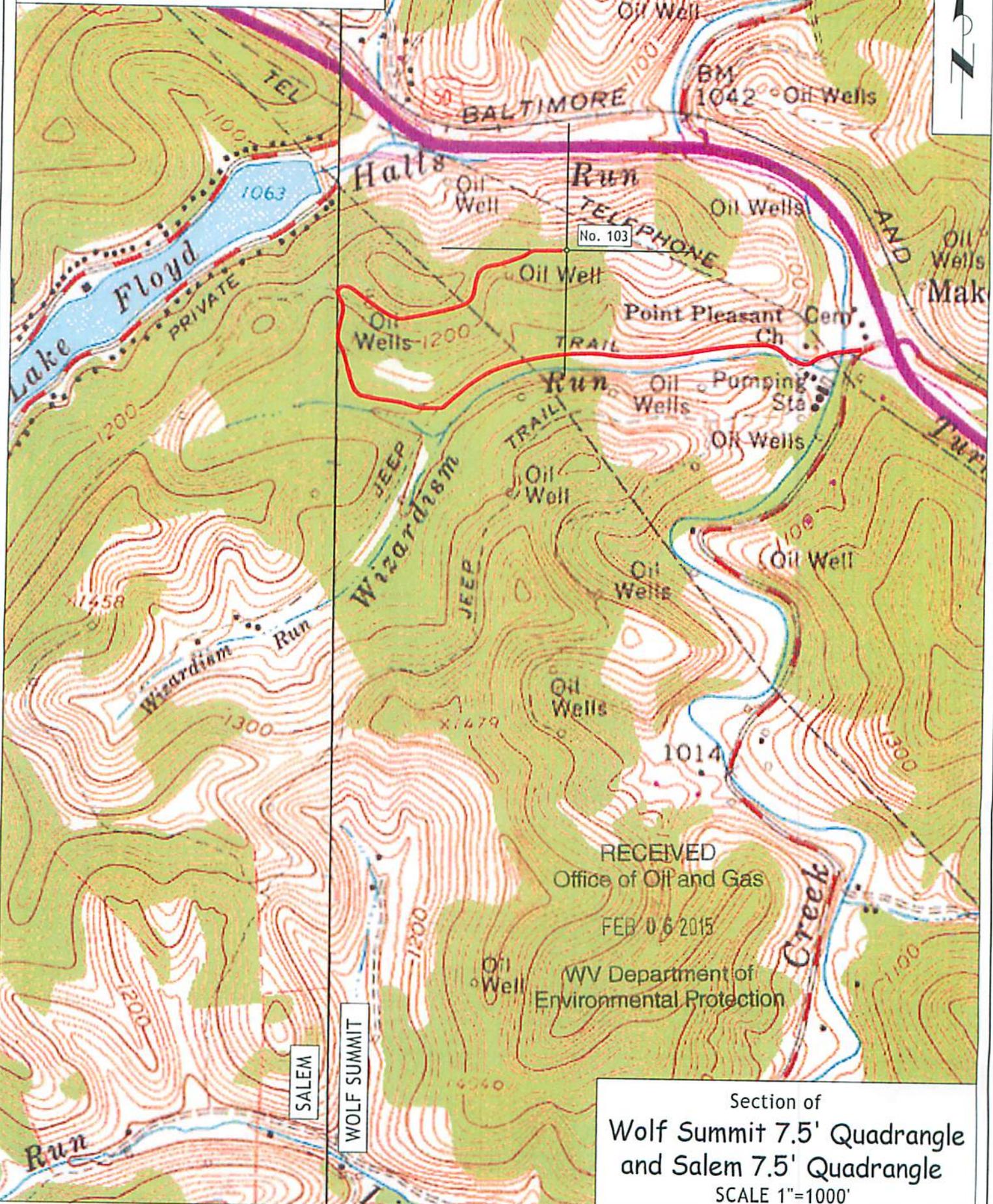
3304904SW

Note: Drawing not to Scale



SUBJECT WELL
Hiram Lynch No.103

47-033-4904



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Office of Oil and Gas

FEB 06 2015

WV Department of
Environmental Protection

SALEM

WOLF SUMMIT

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

Longitude - 80° 29' 36.7"

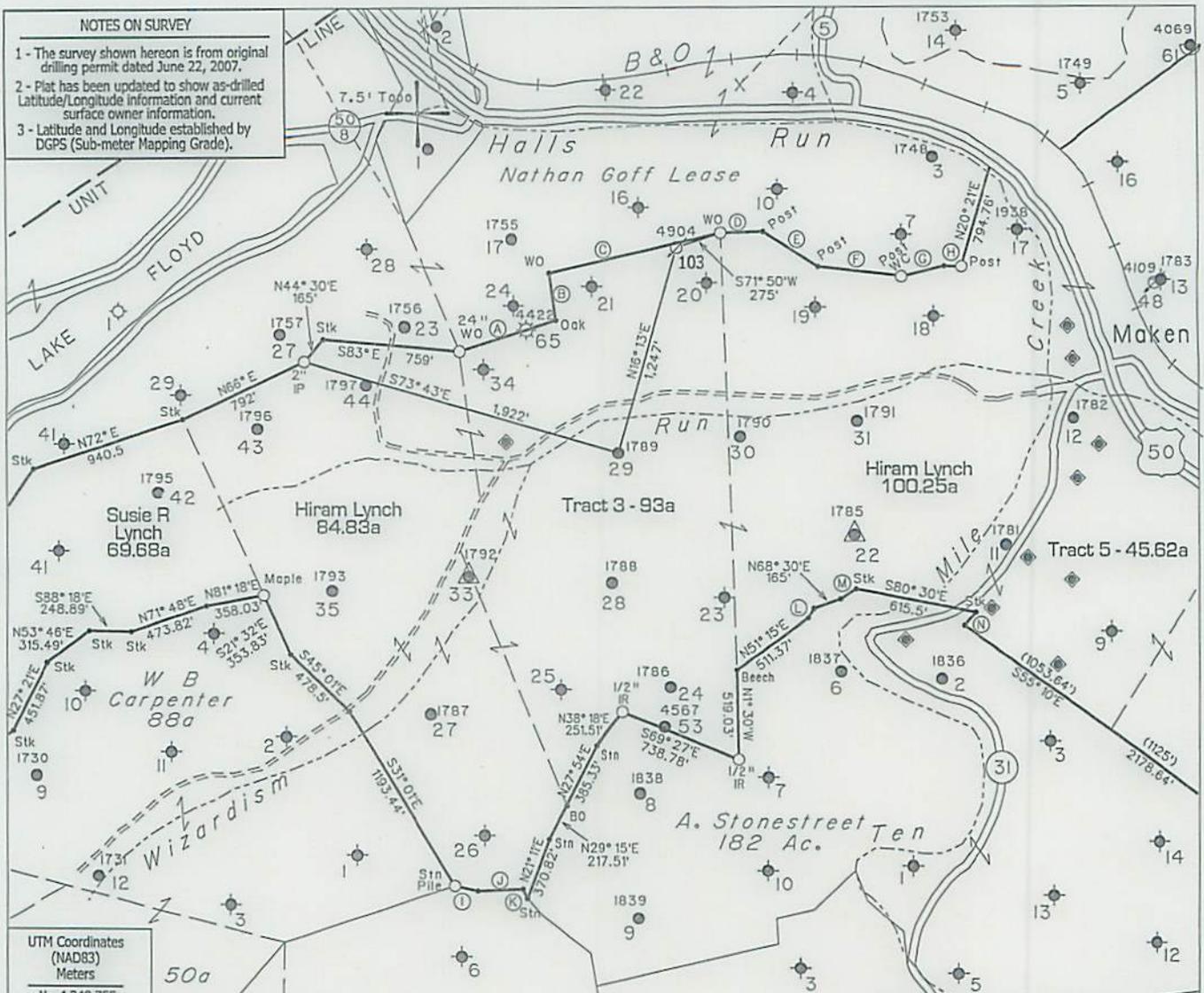
9,950'

LATITUDE 39° 17' 30"

LONGITUDE 80° 27' 30"

NOTES ON SURVEY

- 1 - The survey shown hereon is from original drilling permit dated June 22, 2007.
- 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 - 4,348,755
E - 543,695

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.

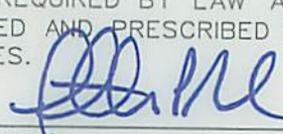
CALL TABLE

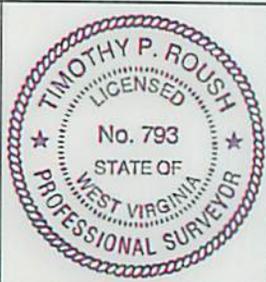
A	N75° 14'E	606.06'	B	N4° 09'W	375.89'
C	N80° 40'E	1020.5'	D	S89° 25'E	264.00'
E	S57° 17'E	379.92'	F	S80° 00'E	483.21'
G	N80° 31'E	260.33'	H	S84° 57'E	98.02'
I	S73° 48'E	138.43'	J	S89° 39'E	266.94'
K	S15° 59'E	58.69'	L	N28° 30'E	66.00'
M	N56° 30'E	107.25'	N	S40° 00'W	99.00'

— DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. 1042-28
 MAP NO. N29 N S12 E 7 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 PS 793



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



DATE October 22, 2014
 FARM Hiram Lynch No.103
 API WELL NO. 47-033-04904 SW

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL CORE
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,286' WATERSHED Wizardism Run
 DISTRICT Ten Mile COUNTY Harrison
 QUADRANGLE Wolf Summit 7.5'

SURFACE OWNER Kenneth & Deborah Gaskins ACREAGE 83.5 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) _____

RECEIVED
 Office of Oil and Gas
 FEB 06 2015

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Fifth Sand ESTIMATED DEPTH 3,050'
 WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Diane White
 ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

FORM IV-6

FORM 1A-B

ADDRESS 2500 Duffout Road
WELL OPERATOR HC Energy, LLC
TARGET FORMATION Fifth Sand
FLUC AND AVOIDION CLEAN OUT AND BEING

ADDRESS 2500 Duffout Road
DESIGNATED AGENT Diane White
ESTIMATED DEPTH 2'020.

Environmental Protection
MA Department of

FEB 08 2012

Office of Oil and Gas
RECEIVED

FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
STIMULATE FLUC OFF OLD FORMATION REPERFORATE NEW
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OF
LEASE NO. 21278-20

Oil & Gas Property Owner Anne Fall et al
Surface Owner Kenneth & Deborah Caskins
ADJACENT QUADRANGLE More Summit 2,2

DISTRICT Ten Mile COUNTY Harrison
LOCATION: ELEVATION 1388. WATERSHED Mizaligam Run
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
WELL TYPE: OIL GAS FLUID INJECTION WASTE DISPOSAL CORE

Charleston, West Virginia 25304
601 27th Street
Office of Oil and Gas
Division of Environmental Protection
WEST VIRGINIA



W 40940 - 033 - 04042M
API WELL NO.
FARM Hiram Lynch #103
DATE October 25, 2011

ELEVATION DCBS SURVEY
PROVEN SOURCE OF
ACCURACY 2nd-Meter DCBS
MINIMUM DEGREE OF
SCALE 1" = 1000'
MAP NO. W38 N 215 E 1 W
FILE NO. 1045-28

TIMOTHY P. ROUGH ES, 283
(SIGNED) *[Signature]*
AGENT OF MINES
REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT
INFORMATION REQUIRED BY LAW AND THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
THIS PLAN IS CORRECT TO THE BEST OF MY
THE UNDERSIGNED, HEREBY CERTIFY THAT



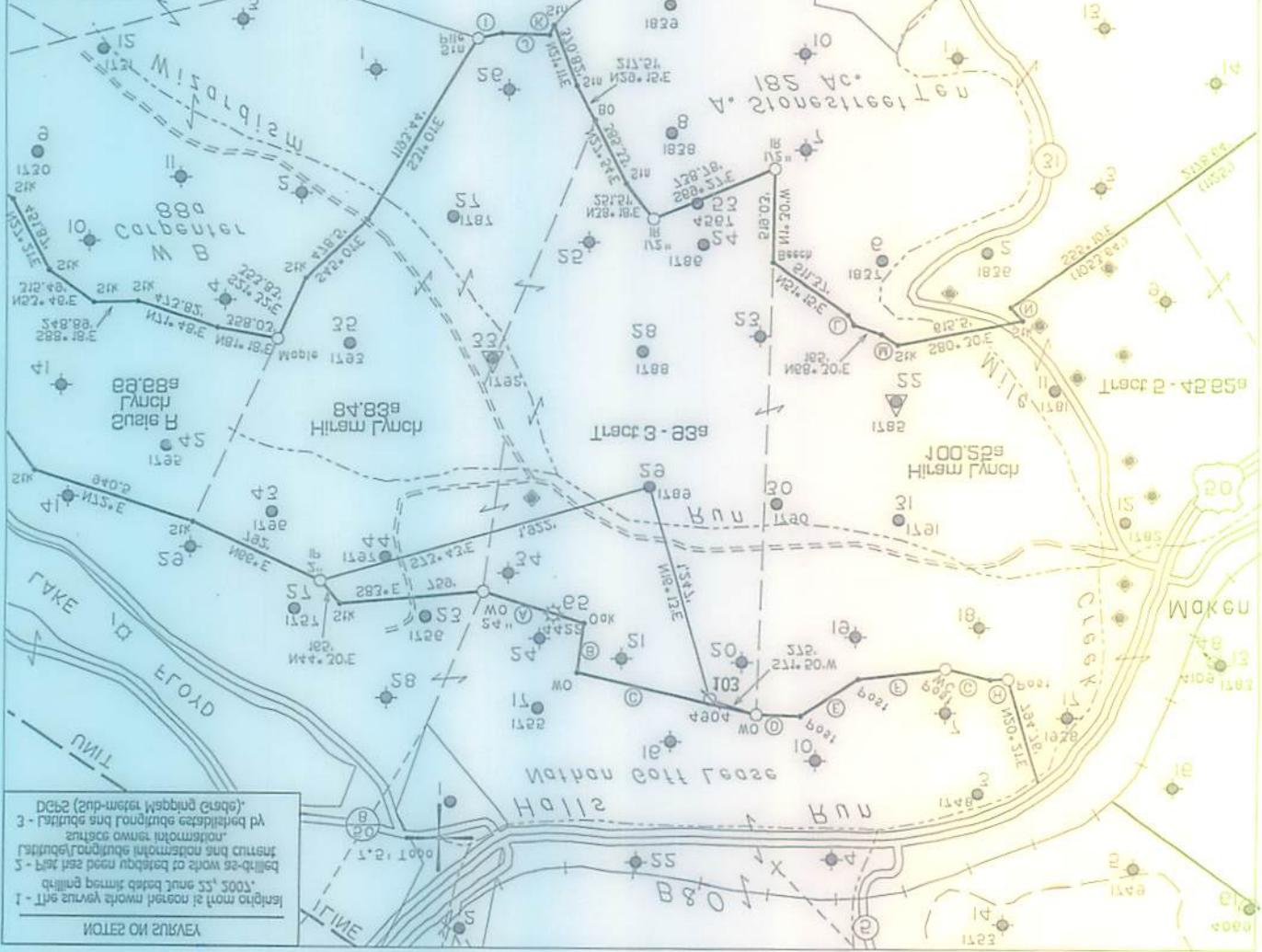
DEMOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

the Harrison County Assessor's tax records.
S - Surface owner information obtained from
MVD 1853.
Reference to UTM Grid North, Zone 18 North,
DCBS survey, (2nd-Meter Mapping Grade)
Well ties and latitude & longitude are by
Brothers' Engineers, dated November 1851,
from survey of the Lynch tract by Horner
1 - The property lines shown hereon are taken

NOTES ON SURVEY
E-243'000
N-4'348'122
Meters
(MVD83)
UTM Coordinates

SVLT TABLE

(M) 128.30.E 101'32.	(N) 240.00.W 88'00.
(K) 212.28.E 28'88.	(O) 158.30.E 88'00.
(I) 212.48.E 128'47.	(P) 288.28.E 288'84.
(C) 180.21.E 580'27.	(H) 284.23.E 88'03.
(E) 221.17.E 218'83.	(L) 280.00.E 487'31.
(G) 180.40.E 1050'2.	(D) 288.32.E 384'00.
(A) 172.14.E 800'08.	(B) 144.08.W 212'88.



DCBS (2nd-meter Mapping Grade)
3 - Latitude and longitude established by
surface owner information.
2 - Well ties and latitude/longitude information and current
bearing most is based on north arrow that varies 9th-11-
1700'. 25' and date of survey is 11-18-51.

Longitude - 80.28.38.11

Latitude - 38.15.20

Longitude 80. 28. 30.



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

3304904 SW
CK# 2904
650.00

January 14, 2015

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

RE: Hiram Lynch No. 103 (API 47-033-04904)
Tennile 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 permit to stimulate an 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: Kenneth & Deborah Gaskins – Certified
Wolf Run Mining Company – Certified
Sam Ward – Inspector

RECEIVED
Office of Oil and Gas
FEB 06 2015
WV Department of
Environmental Protection