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**west virginia** department of environmental protection

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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: 47-3304882, 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: NATHAN GOFF 104  
Farm Name: MYERS, ROXANNE - ESTATE  
**API Well Number: 47-3304882**  
**Permit Type: Rework-Secondary Recovery**  
Date Issued: 03/26/2015

**Promoting a healthy environment.**

**03/27/2015**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

33048825W

FORM WW-3 (B)  
1/12



1) Date: 01/14/2015  
2) Operator's Well No. Nathan Goff 104  
3) API Well No.: 47 - 033 - 04882  
State County Permit  
4) UIC Permit No. UIC2R03301AP

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

5) WELL TYPE: Liquid Injection  / Gas Injection (not storage)  / Waste Disposal   
6) LOCATION: Elevation: 1108' Watershed: Tenmile Creek  
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 2638 Feet (top) to 2654 Feet (bottom)  
13) Estimated Depth of Completed Well, (or actual depth of existing well): 2900 Feet  
14) Approximate water strata depths: Fresh 200 Feet Salt 1130 Feet  
15) Approximate coal seam depths: 316  
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.

SDW  
1/26/2015

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#			386'	386'		Sizes
Coal									
Intermediate									
Production Tubing	4 1/2"	J-55	9.5#			2737'	2737'		Depths set
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from Guy D. Goff et al  
by deed \_\_\_\_\_ / lease X / other contract \_\_\_\_\_ / dated 11/21/1921  
Harrison County Clerk's office in lease **RECEIVED** Book 326 of record in the  
Office of Oil and Gas Page 274

FEB 06 2015

WV Department of Environmental Protection

03/27/2015

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

3304882SW

COPY

Well Operator's Report of Well Work

Farm name: MYERS, ROXANNE - ESTATE

Operator Well No.: NATHAN GOFF 104

LOCATION: Elevation: 1,108'

Quadrangle: WOLF SUMMIT 7.5'

District: TEN MILE

County: HARRISON

Latitude: 1,125 Feet south of 39 Deg 17 Min 30 Sec.

Longitude: 8,925 Feet west of 80 Deg 27 Min 30 Sec.

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

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	386'	386'	95 sks
4 1/2"	2737.4'	2737.4'	150 sks

Agent: PHILIP S. ONDRUSEK

Inspector: TIM BENNETT

Permit Issued: 07/09/07

Well work Commenced: 01/10/08

Well work Completed: 04/17/08

Verbal plugging

permission granted on:

Rotary X Cable      Rig     

Total Depth (feet) 2900'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

OPEN FLOW DATA \* WATERFLOOD INJECTOR

Producing formation Fifth Sand Pay zone depth (ft) 2638'-2654'

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 of Oil and Gas

FEB 06 2015

For: EAST RESOURCES, INC

By:     

Date: 4/22/08

WV Department of  
Environmental Protection

03/27/2015

**Treatment :**

Treated perforations, 2639'-2653', w/ 500 gals 15% HCl.

**Well Log :**

0	292	Sand and Shale
292	304	Sand
304	754	Shale
754	764	Sand
764	826	Shale
826	848	Sand
848	916	Shale
916	970	Sand
970	1006	Shale
1006	1084	Sand
1084	1256	Shale
1256	1340	Sand
1340	1593	Shale
1593	1614	Sand
1614	1617	Shale
1617	1640	Sand
1640	1670	Shale
1670	1750	Big Lime
1750	1804	Big Injun
1804	2230	Shale
2230	2244	Sand
2244	2336	Shale
2336	2346	Sand
2346	2378	Shale
2378	2428	Sand
2428	2436	Shale
2436	2470	Sand
2470	2638	Shale
2638	2654	Fifth Sand
2654	2900	Shale
2900		TD

3304882SW

FORM WW-3 (A)  
1/12



1) Date: January 14, 2015  
2) Operator's Well No. Nathan Goff 104  
3) API Well No.: 47 - 033 - 04882  
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	7) (a) Coal Operator
(a) Name <u>Chad W. Johnson</u>	Name _____
Address <u>109 Platinum Drive</u>	Address _____
<u>Bridgeport, WV 26330</u>	
(b) Name _____	7) (b) Coal Owner(S) With Declaration Of Record
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	7) (c) Coal Lessee with Declaration Of Record
Address <u>P. O. Box 2327</u>	Name <u>Wolf Run Mining</u>
<u>Buckhannon, WV 26201</u>	Address <u>2708 Cranberry Square</u>
Telephone <u>304-389-7583</u>	<u>Morgantown, WV 26505</u>

**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

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WV Department of  
Environmental Protection

03/27/2015

3304882SW

7014 0510 0000 4074 5262

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



NG-104

Sent To  
 Street, Apt. No., or PO Box No. chad W Johnson  
 109 Platinum Drive  
 City, State, ZIP+4 Bridgeport WV 26330

PS Form 3800, August 2006 See Reverse for Instructions

7014 0510 0000 4074 5279

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Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



NG-104

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

PS Form 3800, August 2006 See Reverse for Instructions

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03/27/2015

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name HG Energy, LLC OP Code 494497948

Watershed Tenmile Creek Quadrangle Wolf Summit 7.5'

Elevation 1108' County Harrison District Tenmile

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

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

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

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)
- 04882 Other (Explain \_\_\_\_\_)

*SDW  
1/26/2015*

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature Diane White

RECEIVED

Company Official (Typed Name) Diane White

Office of Oil and Gas

Company Official Title Agent

FEB 06 2015

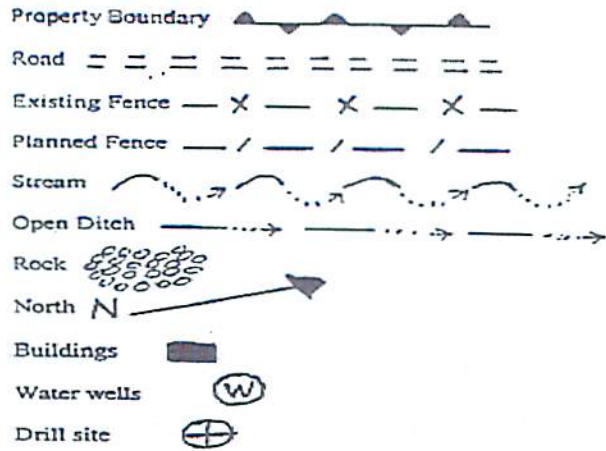
Subscribed and sworn before me this 14th day of January, 2015 20 WV Department of Environmental Protection

[Signature]  
My commission expires Oct. 4, 2016

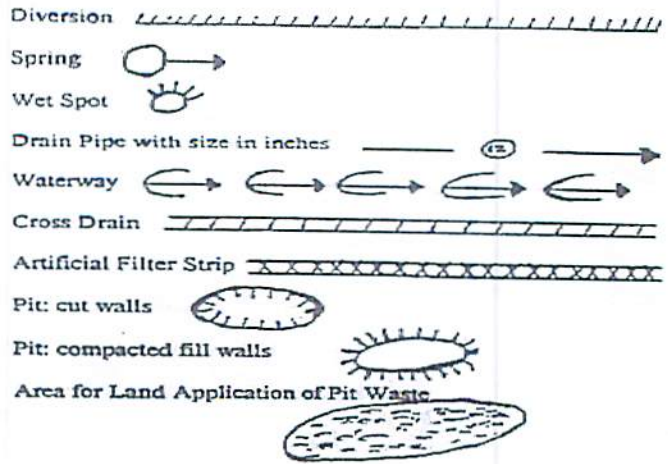


03/27/2015





LEGEND



Proposed Revegetation Treatment: Acres Disturbed .4 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.

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Office of Oil and Gas

Plan Approved by: S. D. Warrick

FEB 06 2015

Comments: \_\_\_\_\_

WV Department of  
Environmental Protection

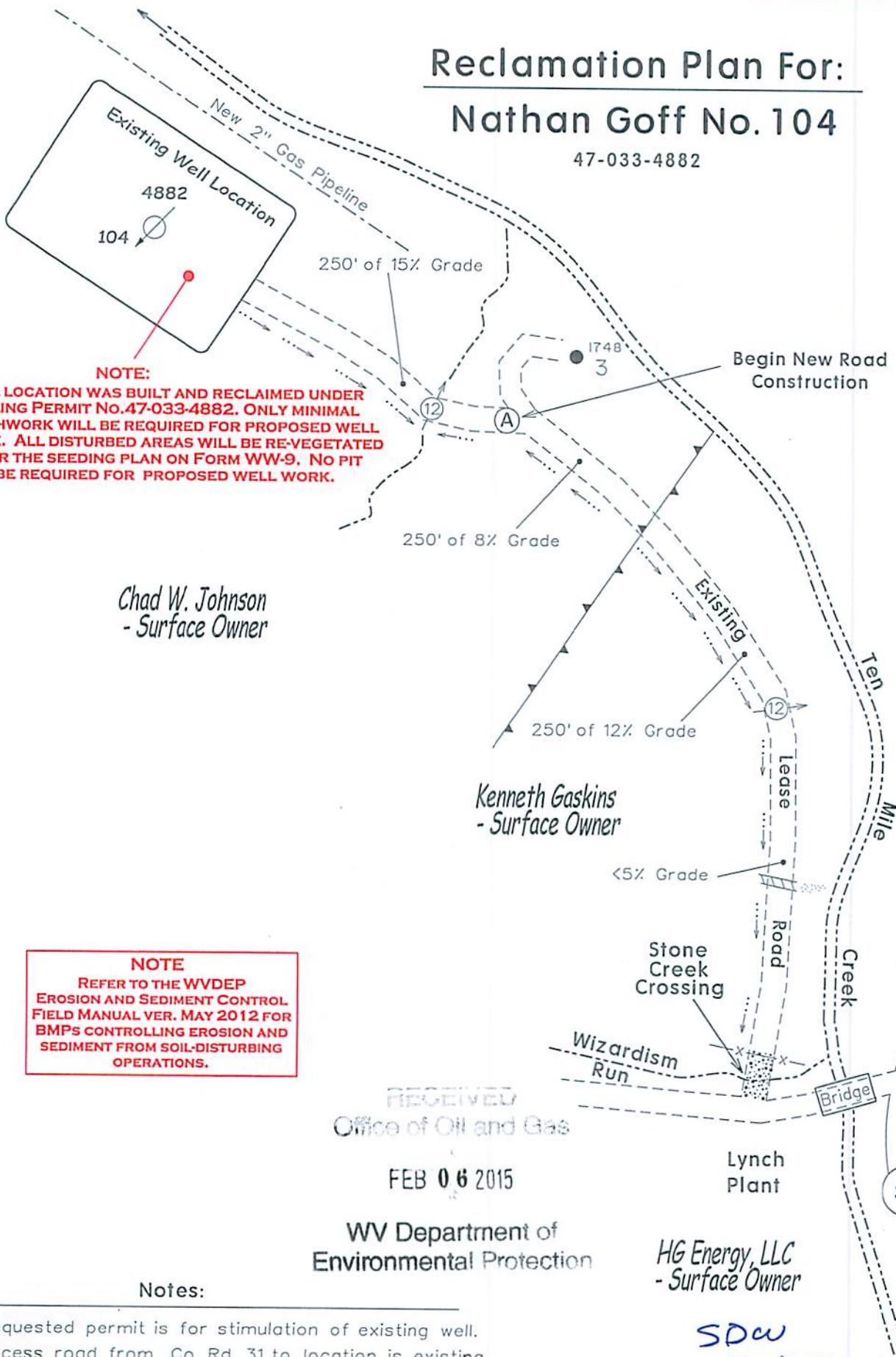
Title: OOG Inspector

Date: 1/26/2015

Field Reviewed?  Yes  No

# Reclamation Plan For: Nathan Goff No. 104

47-033-4882



**NOTE:**

WELL LOCATION WAS BUILT AND RECLAIMED UNDER DRILLING PERMIT No.47-033-4882. 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.

*Chad W. Johnson  
- Surface Owner*

*Kenneth Gaskins  
- Surface Owner*

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

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*HG Energy, LLC  
- Surface Owner*

*SDW  
1/28/2015*

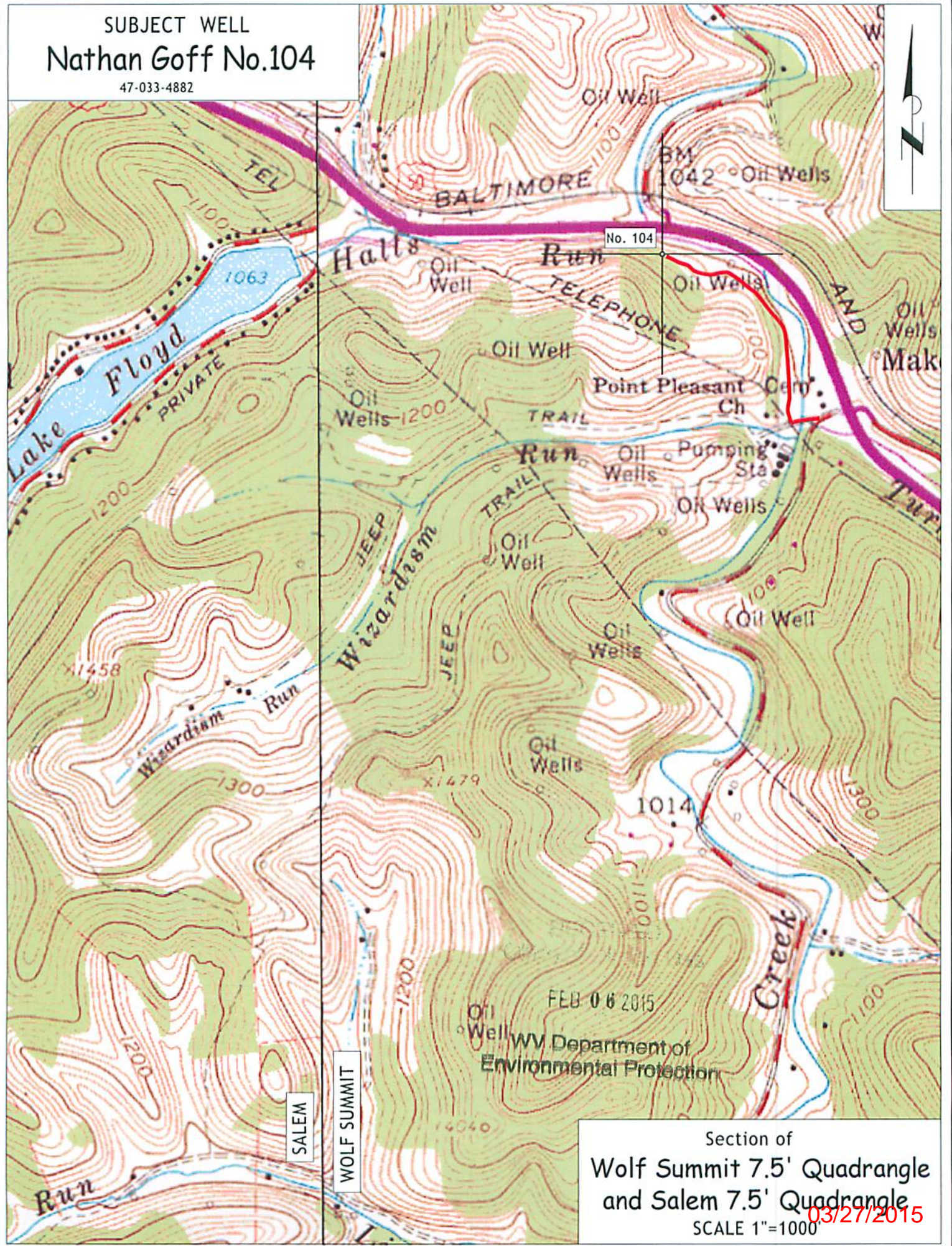
**Notes:**

- 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.

Note: Drawing 03/27/2015

3304882SW

SUBJECT WELL  
Nathan Goff No.104  
47-033-4882



Section of  
Wolf Summit 7.5' Quadrangle  
and Salem 7.5' Quadrangle  
SCALE 1"=1000  
03/27/2015

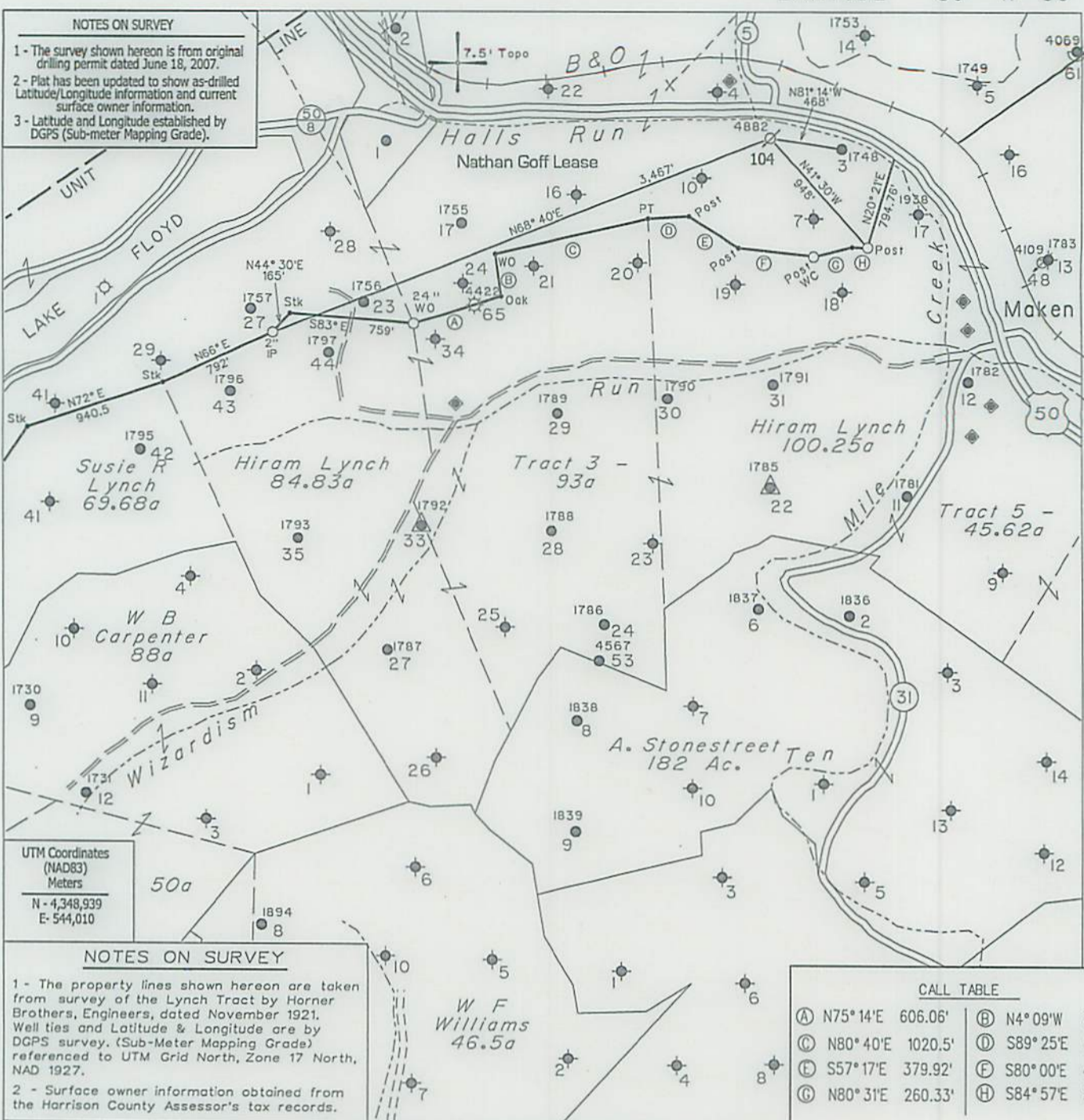
FEB 06 2015  
WV Department of  
Environmental Protection

SALEM

WOLF SUMMIT

**NOTES ON SURVEY**

- 1 - The survey shown hereon is from original drilling permit dated June 18, 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 - 4,348,939  
E - 544,010

**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**

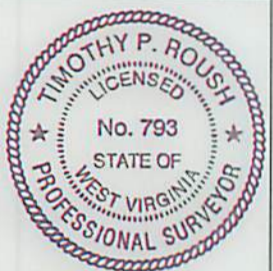
(A) N75° 14'E 606.06'	(B) N4° 09'W 375.89'
(C) N80° 40'E 1020.5'	(D) S89° 25'E 264.00'
(E) S57° 17'E 379.92'	(F) S80° 00'E 483.21'
(G) N80° 31'E 260.33'	(H) S84° 57'E 98.02'

⊕ 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) *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 October 22, 2014  
 FARM Nathan Goff No.104  
 API WELL NO. 47-033-04882 SW

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_ CORE \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1,108' WATERSHED Ten Mile Creek  
 DISTRICT Ten Mile COUNTY Harrison  
 QUADRANGLE Wolf Summit 7.5'

SURFACE OWNER Chad W. Johnson ACREAGE 57.41 Ac.  
 OIL & GAS ROYALTY OWNER Wilma R. Goodwin LEASE ACREAGE 924 Ac. **03/27/2015**  
 LEASE NO. 74512-50

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

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Fifth Sand ESTIMATED DEPTH 2,900'  
 WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Diane White  
 ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101

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

FORM IV-6

ADDRESS Parkersburg, WV 26101 ADDRESS 2500 Duffout Road  
 WEGG OPERATOR HC Energy, LLC DESIGNATED AGENT Diane White  
 TARGET FORMATION Elfin Sand ESTIMATED DEPTH 5,000  
 BGC AND AVOIDANCE CLEAN OUT AND BEGUC

Environmental Protection  
 WV Department of  
 OFFICE OF OIL AND GAS  
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FEB 08 2012

FORMATION OTHER PHYSICAL CHANGE IN WEGG (SPECIFY)  
 STIMULATE  BGC OFF OLD FORMATION PERFORATE NEW  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR  
 LEASE NO. 24215-20  
 OIL & GAS BOGALTY OWNER Wilma B. Goodwin LEASE ACREAGE 25.41 AC.  
 SURFACE OWNER Chad W. Johnson ACREAGE 25.41 AC.  
 SURVANGER Wolf Summit L.P.  
 DISTRICT Ten Mile COUNTY Harrison  
 LOCATION: ELEVATION 1,108 WATERSHED Ten Mile Creek  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 WEGG 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

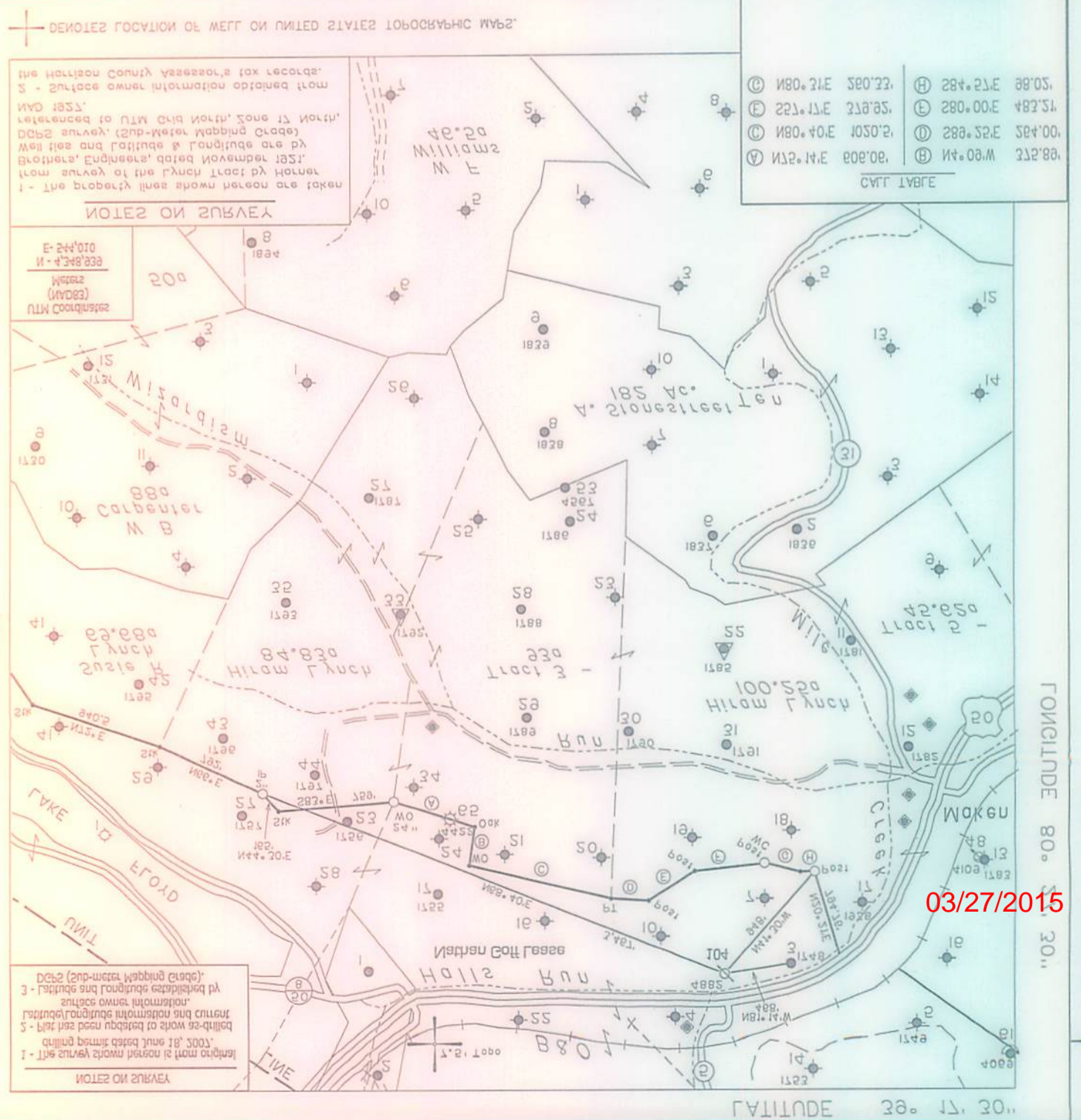


W 28840 - 033 - 74  
 API WEGG NO.  
 FARM Nathan Coff No. 104  
 DATE October 25, 2014

TIMOTHY B. ROUSH 62 183  
 (SIGNED) *[Signature]*  
 WENT OF MINES  
 REGULATIONS ISSUED AND DESCRIBED BY THE DEPART-  
 INFORMATION REQUIRED BY LAW AND THE RESU-  
 KNOWLEDGE AND BELIEF AND SHOWS ALL THE  
 THIS PLAN IS CORRECT TO THE BEST OF MY  
 I THE UNDERSIGNED, HEREBY CERTIFY THAT



ELEVATION DCBS Survey  
 PROVEN SOURCE OF  
 ACCURACY Sub-Meter DCBS  
 MINIMUM DEGREE OF  
 SCALE 1" = 1000'  
 MAP NO. N 2 E W  
 FILE NO.





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

CK# 2903  
650.00 3304882SW

January 14, 2015

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

RE: Nathan Goff No. 104 (API 47-033-04882)  
Tenmile 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: Chad W. Johnson – Certified  
Wolf Run Mining Company – Certified  
Sam Ward – Inspector

RECEIVED  
DIVISION OF OIL & GAS  
FEB 06 2015  
WV Department of  
Environmental Protection

03/27/2015