



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

April 30, 2015

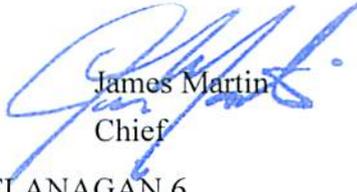
WELL WORK PERMIT
Rework-Secondary Recovery

This permit, API Well Number: 47-3304065, 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: H. FLANAGAN 6
Farm Name: HERROD, DON M. & DEBRA L.
API Well Number: 47-3304065
Permit Type: Rework-Secondary Recovery
Date Issued: 04/30/2015

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.

33040655W

FORM WW-3 (B)
1/12



1) Date: 02/23/2015
2) Operator's Well No. H. Flanagan 6
3) API Well No.: 47 - Harrison - 4065
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: 1325' Watershed: Right Prong of New 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 2906 Feet (top) to 2926 Feet (bottom)
13) Estimated Depth of Completed Well, (or actual depth of existing well): 2962 Feet
14) Approximate water strata depths: Fresh NA Feet Salt NA Feet
15) Approximate coal seam depths: 552' - 560'
16) Is coal being mined in the area? Yes _____ No _____
17) Virgin reservoir pressure in target formation 60 psig Source Estimated
18) Estimated reservoir fracture pressure 1200 psig (BHFP)
19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl/hr 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	8 5/8"	J-55	24#	X		659'	659'	Existing	Sizes
Coal									
Intermediate									
Production	4 1/2"	J-55	9.5#	X		2962'	2962'	Existing	Depths set
Tubing									
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from John T. & Dora M. Williams
by deed _____ / lease X / other contract _____ dated 02/23/2015 of record in the
Harrison County Clerk's office in Lease Book 105 Page 90

MAR 18 2015

SDW
2/10/15

2956 3304065SW
650

FORM WW-3 (A)
1/12



1) Date: February 23, 2015
2) Operator's Well No. H. Flanagan 6
3) API Well No.: 47 - 033 - 4065
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 Don M. Herrod
Address 408 Victory Lane
Salem, WV 26426
(b) Name
Address
(c) Name
Address
6) Inspector Sam Ward
Address P. O. Box 2327
Buckhannon, WV 26201
Telephone 304-389-7583
7) (a) Coal Operator
Name Murray Energy
Address 46226 National Road
St Clairsville, OH 43950
7) (b) Coal Owner(S) With Declaration Of Record
Name
Address
7) (c) Coal Lessee with Declaration Of Record
Name
Address

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

MAR 18 2015

33040655W

7014 0510 0000 4074 9116

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

Postmark Here
 FEB 24 2015
 HF6

Sent To
 Murray Energy
 Street, Apt. No., or PO Box No. 46226 National Road
 City, State, ZIP+4 St. Clairsville OH 43950
 PS Form 3800, August 2006 See Reverse for Instructions

7014 0510 0000 4074 5798

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

Postmark Here
 FEB 24 2015
 HF6

Sent To
 Don M Herrod
 Street, Apt. No., or PO Box No. 408 Victory Lane
 City, State, ZIP+4 Salem WV 26426
 PS Form 3800, August 2006 See Reverse for Instructions

Received

MAR 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

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 Right Prong of New Creek Quadrangle Wolf Summit 7.5'

Elevation 1325' 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)
- 4065 Other (Explain _____)

*SDw
2/10/15*

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

-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 and sawdust

-Landfill or offsite name/permit number? _____

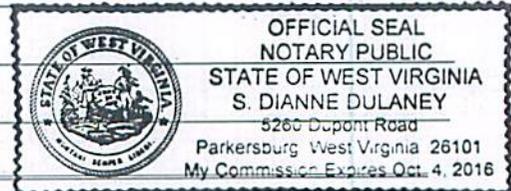
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent



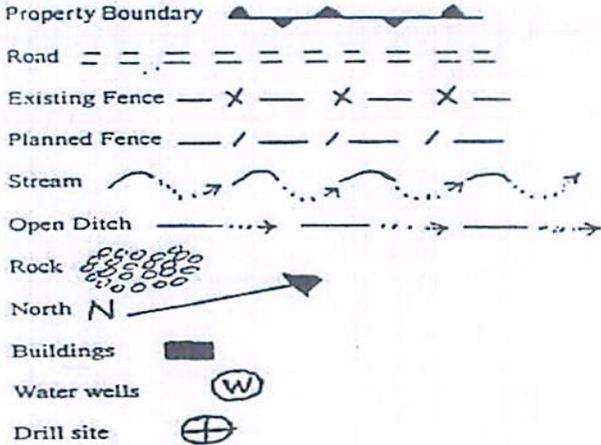
Subscribed and sworn before me this 23rd day of February, 2015

[Signature] Notary Public

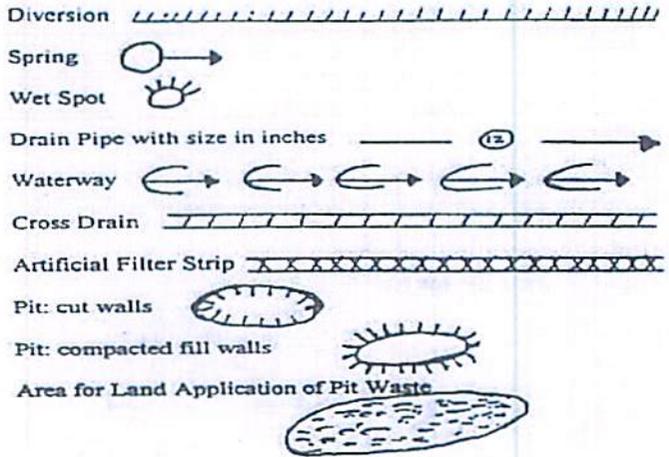
My commission expires Oct. 4, 2016

Received

MAR 18 2015



LEGEND



Proposed Revegetation Treatment: Acres Disturbed .3 acres Prevegetation pH _____

Lime 3 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	Seed Type	Area II	lbs/acre
Tall Fescue		40	Tall Fescue		40
Ladino Clover		5	Ladino Clover		5

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

Photocopied section of involved 7.5' topographic sheet.

****Sediment Control in place at all times****

Plan Approved by: S. D. Ward

Comments: _____

Received

MAR 18 2015

Title: OOG Inspector

Date: 2/16/15

Field Reviewed? Yes No

Reclamation Plan For: H. Flanagan No.6

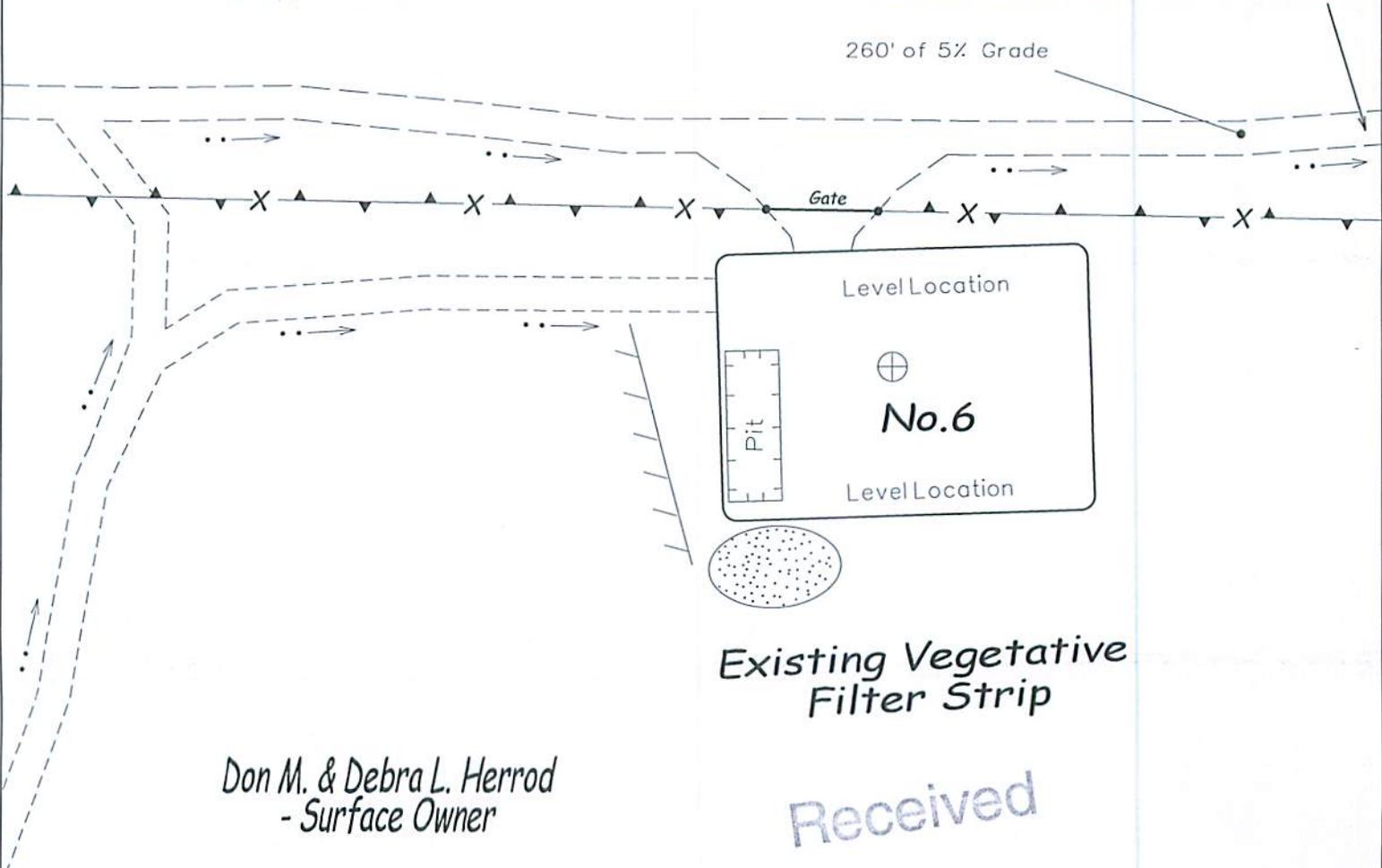
Frac Permit 2/19/2015

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

*Nancy Morris, etal
Aubrey W. Rogers
(Life Estate)
- Surface Owner*

Existing Lease Roads

Approximately 0.3 miles of existing waterflood access roads from County Road 7/5 to location will be used. Maintain all drainage structures and stone as needed. See Page 2 for Road Detail.



*Don M. & Debra L. Herrod
- Surface Owner*

Received

MAR 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

*SDW
2/10/15*

Notes:

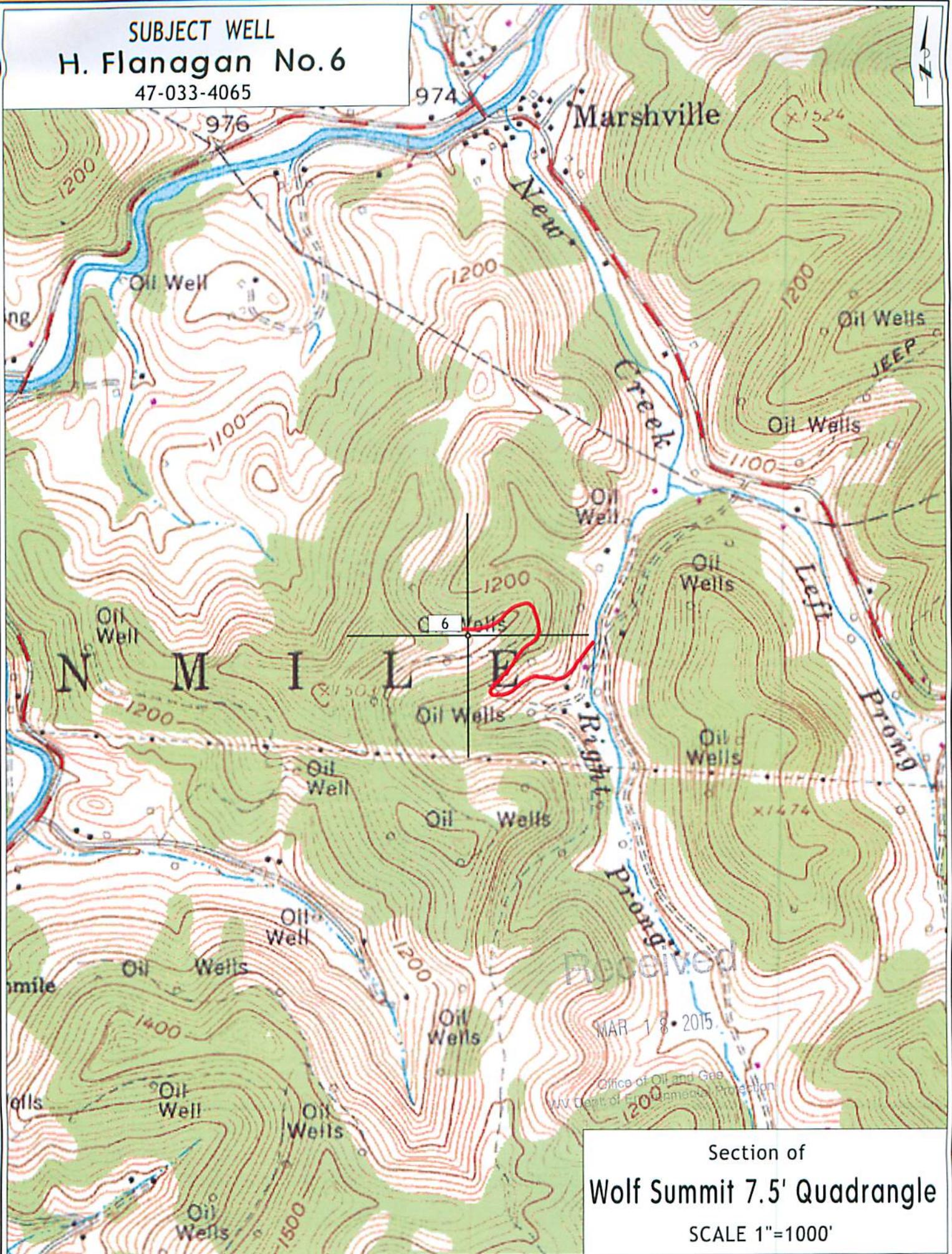
- Requested permit is for recompletion of existing well.
- Approximately 500 Feet of existing access road from County Road 5 to location will be used. Structures shown will be upgraded and new structures added where needed.
- Location is existing and will require only minimal earthwork for workover operations.
- New workover pit will be excavated. All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <10% except as noted.

⊕ - Existing Culvert

Note: Drawing not to Scale

Note: Location of workover pit may be changed based on as-built considerations.

SUBJECT WELL
H. Flanagan No. 6
47-033-4065



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

Received
MAR 18 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

3304065 SW

Longitude = 80° 28' 00.0"

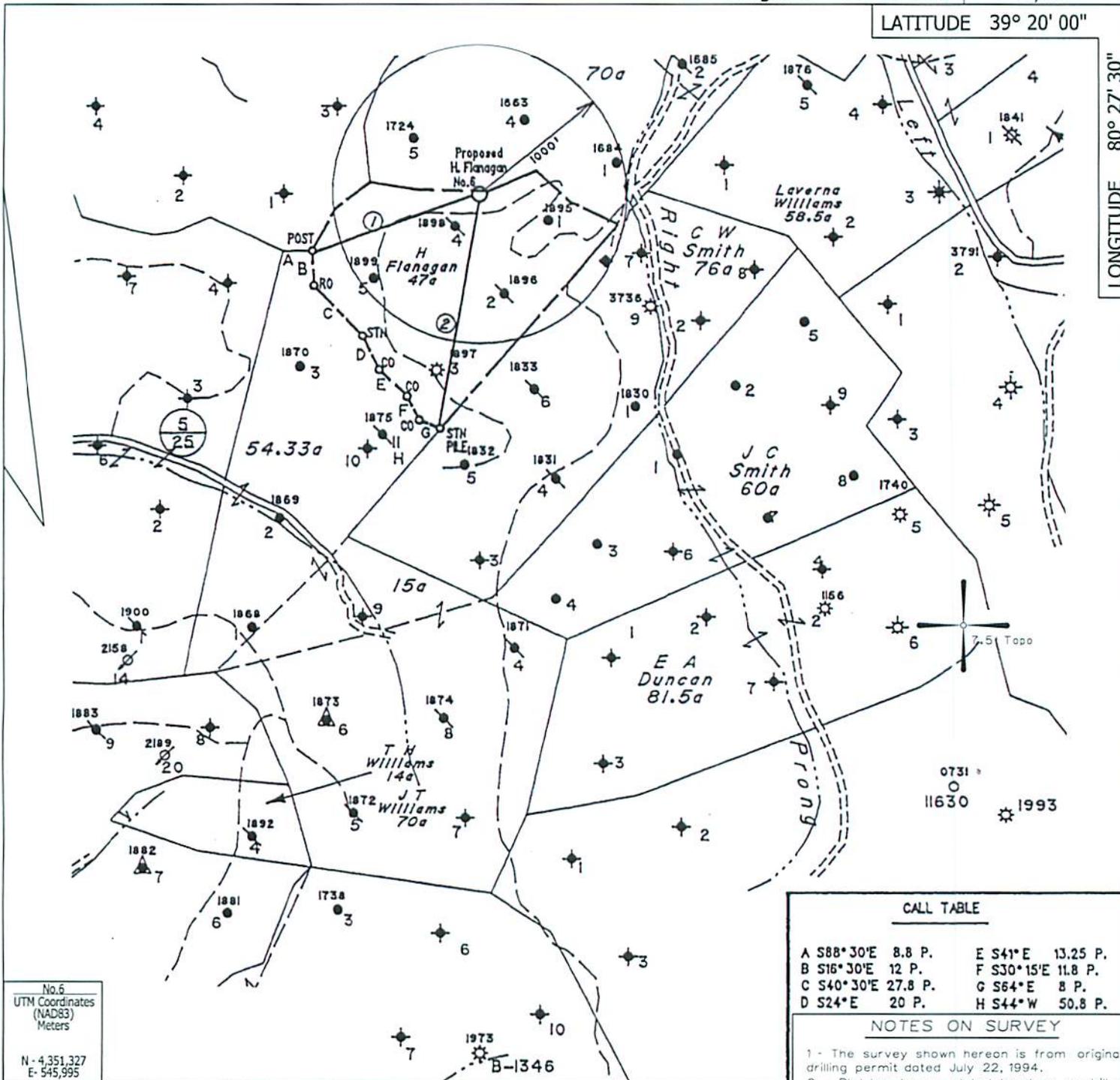
2,360'

LATITUDE 39° 20' 00"

LONGITUDE 80° 27' 30"

8,490'

Latitude = 39° 18' 36.1"



No. 6
UTM Coordinates
(NAD83)
Meters
N - 4,351,327
E - 545,995

CALL TABLE			
A	S88°30'E	8.8 P.	E S41°E 13.25 P.
B	S16°30'E	12 P.	F S30°15'E 11.8 P.
C	S40°30'E	27.8 P.	G S64°E 8 P.
D	S24°E	20 P.	H S44°W 50.8 P.

NOTES ON SURVEY

- The survey shown hereon is from original drilling permit dated July 22, 1994.
- Plat has been updated to show as-drilled Latitude/Longitude information and current surface owner information.
- Latitude and Longitude established by DGPS Survey (Sub-meter Mapping Grade)

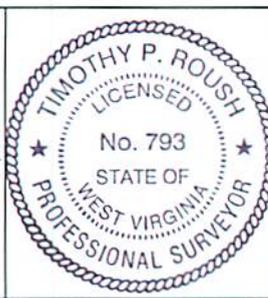
◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.
+ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

● - DENOTES A WATER SUPPLY SOURCE.

FILE NO. 1046-31
MAP NO. N S E W
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY Sub-Meter
PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

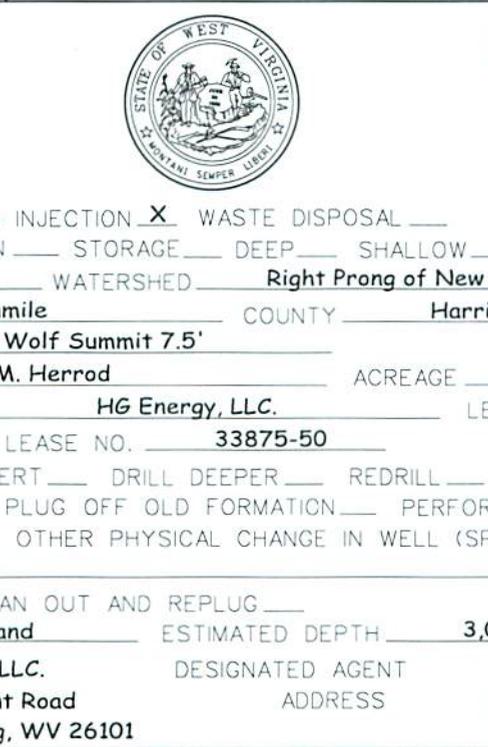
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

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



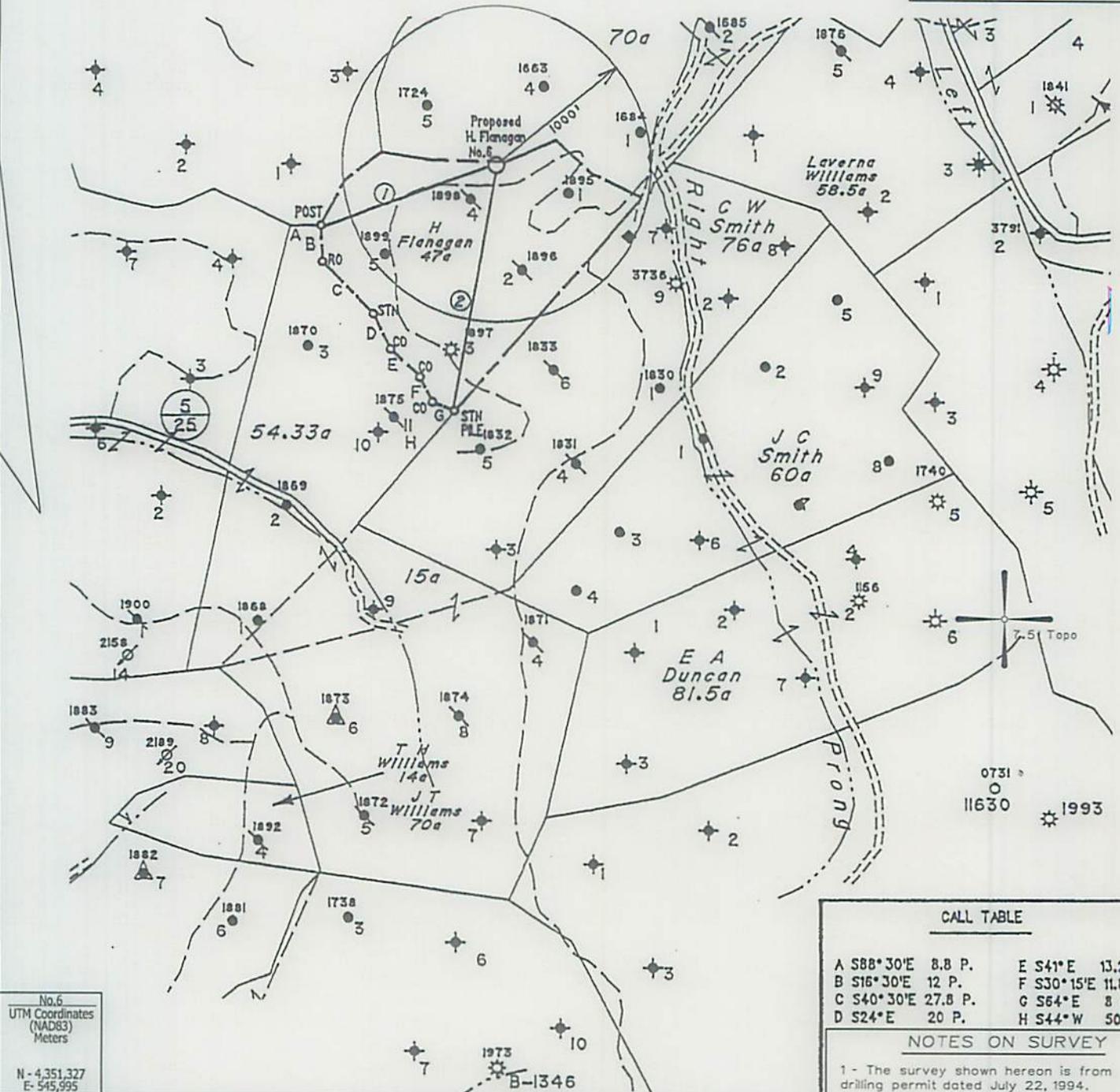
WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25301

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1,325' WATERSHED Right Prong of New Creek
DISTRICT Tenmile COUNTY Harrison
QUADRANGLE Wolf Summit 7.5'
SURFACE OWNER Don M. Herrod ACREAGE 47.9 ac.
OIL & GAS ROYALTY OWNER HG Energy, LLC. LEASE ACREAGE 50 ac.
LEASE NO. 33875-50
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 3,018'
WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White
ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



DATE February 19, 2015
FARM H. Flanagan No. 6
API WELL NO. 47-103-04065 SW
033

FORM IV-6



No. 6
UTM Coordinates
(NAD83)
Meters
N - 4,351,327
E - 545,995

CALL TABLE			
A	S88°30'E	8.8 P.	E S41°E 13.25 P.
B	S16°30'E	12 P.	F S30°15'E 11.8 P.
C	S40°30'E	27.8 P.	G S64°E 8 P.
D	S24°E	20 P.	H S44°W 50.8 P.

NOTES ON SURVEY

- 1 - The survey shown hereon is from original drilling permit dated July 22, 1994.
- 2 - Plat has been updated to show as-drilled Latitude/Longitude information and current surface owner information.
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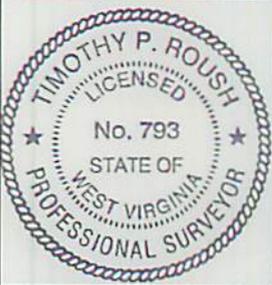
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◆ DENOTES A WATER SUPPLY SOURCE.

FILE NO. 1046-31
 MAP NO. N S E W
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter
 PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

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(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 25301



DATE February 19, 2015
 FARM H. Flanagan No. 6
 API WELL NO. 47-103-04065 SW
033

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,325' WATERSHED Right Prong of New Creek
 DISTRICT Tenmile COUNTY Harrison
 QUADRANGLE Wolf Summit 7.5'
 SURFACE OWNER Don M. Herrod ACREAGE 47.9 ac.
 OIL & GAS ROYALTY OWNER HG Energy, LLC. LEASE ACREAGE 50 ac.
 LEASE NO. 33875-50
 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 3,018'
 WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White
 ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

3304065sw



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

CK # 29576
650.00

February 23, 2015

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

RE: H. Flanagan No. 6 (47-033-4065)
Tenmile District, Harrison County
West Virginia

Dear Mr. McLaughlin:

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

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Don M. Herrod – Certified
Murray Energy, Inc. - Certified
Sam Ward - Inspector

Received

MAR 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection