



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 09, 2014

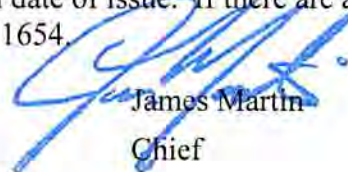
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10900660, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: WV 144711 (KROLL HEIRS #3)
Farm Name: MCHAFFA, STEVEN M. & DEBR/
API Well Number: 47-10900660
Permit Type: Plugging
Date Issued: 07/09/2014

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

109006609

Form WW-4 (B)
Permit Copy
(Rev 2/01)

Date: 5-13-14
Operator's Well _____
Well No. 144711 (Kroll Heirs #3)
API Well No.: 47 109 - 00660

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

OK #
17814
\$100.00

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X

5) Elevation: 1450' Watershed: Right Fork Muzzel Creek
Location: Huff Creek County: Wyoming Quadrangle: Gilbert 7.5'
District: _____

6) Well Operator EQT Production Company
Address: 120 Professional Place
Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas Ross Eller
Name: 121 Brierhill Drive
Address: Beckley, WV 25801

9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

RECEIVED
Office of Oil and Gas

JUL 9 2014

WV Department of
Environmental Protection

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 5/20/14

07/11/2014

PLUGGING PROGNOSIS

KROLL HEIRS # 3 (144711)

WYOMING, COUNTY, W.V.
API # 47-109-00660

BY: DOUG FRY
DATE: 3/20/14

TD 3912'
Elev 1442'
SALT WATER 1212'

CURRENT STATUS:

- 8 5/8" @ 1035' CEMENTED
- 4 1/2" @ 3907' (CEMENTED)
- 2 3/8" @ 3902' ?

FRESH WATER @ 65' 277'
COAL SHOWS @ 203'

GAS SHOWS @ 4 1/2" PERFED @ 3843'- 3849' BERA PERFS, 3829'-3840' UPPER BERA PERFS, 3178' - 3182' LOWER BIG LIME PERFS, 2923' - 2927' UPPER BIG LIME PERFS, GAS SHOWS @ 3818' - 3858' BERA GAS SHOW, 2920 - 3225' BIG LIME GAS SHOW, 2045' - 2065' RAVENCLIFF GAS SHOW

OIL SHOWS @ NONE RECORDED
SALT SAND TOP @ ESTIMATED @ 1,000'
ELEVATION @ 1442'

STIMULATION; FRAC MULTIPLE ZONES

1. NOTIFY INSPECTOR, ROSS ELLER @ 304 - 932 - 6844, 24 HRS PRIOR TO COMMENCING OPERATIONS. ALSO EMAIL DAILY REPORTS TO ROSS.
2. TOO H W/ 2" TUBING @ 3902, IF PRESENT, TALLY TUBING ON THE WAY BACK IN HOLE. *GEL HOLE TO 3849'*
3. TIH W/ TUBING TO 3849'; SET 132' CIA CEMENT PLUG @ 3849' TO 3717' (BEREA PERFS, BERA GAS SHOW)
4. TOO H W/ TUBING, GEL HOLE @ 3717' TO 3190'
5. TOO H W/ TUBING TO 3190'; SET 370' CIA CEMENT PLUG @ 3190' TO 2820' (BIG LIME PERFS, BIG LIME GAS SHOW).
6. TOO H W/ TUBING, GEL HOLE @ 2820' TO 2200'.
7. TOO H W/ TUBING, FREE POINT 4.5" CSG, CUT 4.5" CSG, CUT @ FREE POINT, TOO H W/ 4 1/2" CSG.
8. SET 100' CIA CEMENT PLUG 50' IN/OUT OF CUT. PERF ALL 1ST SALT SAND TOPS ,GAS, OIL ,COAL, ELEVATION & FW SHOWS BELOW 4.5" CUT AND DO NOT OMIT ANY PLUGS SHOWN.
9. TIH W/ TUBING @ 2200', SET ^{200'}100' CIA CEMENT PLUG @ 2200', TO ^{2000'}2100' (COVER RAVENCLIFF GAS SHOW INSURANCE PLUG).
10. TOO H W/ TUBING , GEL HOLE @ ^{200'}2100' TO 1400'.
11. TOO H W/ TUBING @ 1400' ; SET 100' CIA CEMENT PLUG @ 1400' TO 1300'. (ELEVATION PLUG)
12. TOO H W/ TUBING, GEL HOLE @ 1300' TO 1100'.
13. TOO H W/ TUBING @ 1100' ; SET 200' CIA CEMENT PLUG @ 1100' TO 900'. (9 5/8" CSG PT)

received

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14. TOOH W/ TUBING, GEL HOLE @ 900' TO ~~253'~~ ^{280'}
15. TOOH W/ TUBING, FREE POINT 8 5/8" CSG, CUT 8 5/8" CSG, CUT @ FREE POINT, TOOH W/ 8 5/8" CSG.
16. SET 100' CIA CEMENT PLUG 50' IN/OUT OF CUT. PERF ALL 1ST SALT SAND TOPS, GAS, OIL, COAL, ELEVATION & FW SHOWS BELOW 9 5/8" CUT AND DO NOT OMIT ANY PLUGS SHOWN.
17. TIH W/TUBING @ ~~257'~~ ^{280'}, SET ~~257'~~ ^{280'} CIA CEMENT PLUG TO SURFACE (1 COAL SHOW, 1 FW SHOW).
18. TOP OFF AS NEEDED
19. SET MONUMENT TO WV DEP SPECS
20. RECLAIM LOCATION TO WV DEP SPECIFICATIONS.

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Office of Oil and Gas
WV Dept. of Environmental Protection

07/11/2014

10900660P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Oil or Gas Well Gas
(MINES)

Quadrangle Gilbert

Permit No. WYO-660

Company KROLL GAS COMPANY

Address P. O. BOX # 555, Hamlin, W. Va.

Farm Mary Ann Haven Kroll, Heirs Acres 700

Location (water) Ikes Fork

Township 3 Elevation 1,442.24

District St. Croix County Wyoming

The surface of tract is owned in fee by Same

Mineral rights are owned by Same

Work commenced November 09, 1964

Drilling completed March 18, 1965

Date shot from To

Open flow 2 1/10ths Water in 3" Inch

Volume 0.5011 / 10ths Merc. in Inch

Well Pressure 125# lbs 72 hrs.

Oil None bbls, 1st 24 hrs.

WELL ACIDIZED 22-4,000 Gal. 23% Acid from perforations FEET INCHES FEET INCHES

2923 to 27 (3 holes) & 3178 to 82 (3 holes) FEET INCHES FEET INCHES

WELL FRACTURED 4/3/65 with 250 Gal Mud acid & 2,000 gal. 15% HCL and 32,000 gal. HOH from perforations at 1875-40 (6 holes) & 3013-49 (12 holes) 20,000 # 20-40 sand

RESULT AFTER TREATMENT 22/10ths W in 3" 444,000

ROCK PRESSURE AFTER TREATMENT 725#

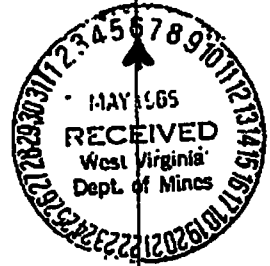
Flow Water 65# Feet Salt Water 1212# Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
12			Size of
10			Depth set
8 3/8"	1,035.05	1,035.05	
6 1/2"	2,912'	Pulled	
5 3/16"	3,907'	3,907'	Completed
2 1/2"	3,902.09	3,902.09	Perf. bottom
			Perf. top
			Perf. bottom

CASING CEMENTED 8" SIZE 1,035 No. Ft. 12/12/64

COAL WAS ENCOUNTERED AT 203 FEET 18 INCH

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
J. r. ace			0	16			
Sand			16	24			
Slate			24	35			
lmsy Shell			35	55			
Slate			55	75	water	65'	Hole full
Sand			75	143			
Slate			143	203			
CCAs			203	207			
Sand			207	260			
Slate & Shells			260	328			
Sand			328	455			
Slate			455	465			
Sand			465	502			
Slate & Shells			502	595			
Sand			595	680			
Slate & Shells			680	718			
Sand			718	896			
Slate			896	901			
Sand			901	984			
Line			984	1,000			
Sand			1,000	1,199			
Slate & Shells			1,199	1,289	water	1,212	4 Bailers
Sand			1,289	1,378	water	1,346	
Slate			1,378	1,388			
Sand			1,388	1,422			
Slate			1,422	1,432			
Sand			1,432	1,475			
Slate			1,475	1,500			
Sand			1,500	1,625			
Slate			1,625	1,631			



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Office of Oil and Gas
WV Dept. of Environmental Protection

(over)

07/11/2014

Formation	Color	Hard or Soft	Top 12	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1,631	1,655			
Slate			1,655	1,660			
Red Rock			1,660	1,720			
Slate & Shells			1,720	1,759			
Red Rock			1,759	1,791			
Slate & Shells			1,791	1,820			
Red Rock			1,820	1,825			
Sand			1,825	1,842			
Slate & Shells			1,842	1,910			
Sand			1,910	1,952			
Slate & Shells			1,952	2,045			
Ravencroft Sand			2,045	2,065	Gas	2,055-58	Show
Lime			2,065	2,100			
Sand			2,100	2,180			
Red Rock			2,180	2,195			
SAND			2,195	2,202			
Red Rock			2,202	2,241			
Slate & Shells			2,241	2,330			
MAXTON SAND			2,330	2,490			
Red Rock			2,490	2,504			
Slate & Shells			2,504	2,537			
Sand			2,537	2,570			
Slate & Shells			2,570	2,587			
Red Rock			2,587	2,597			
Slate & Shells			2,597	2,639			
SAND			2,639	2,676			
Slate			2,676	2,725			
Black Lime			2,725	2,920	Gas	2,720-31	Show
BIG LIME	White		2,920	3,225	Gas	3,043-55	32/10th W.
INJUN SAND	RED		3,225	3,326	Gas	3,171-62	5/10th W.
Slate & Shells			3,326	3,792			
Shale	Brown(Coffee)		3,792	3,818			
HEREA SAND			3,818	3,858	Gas	3,845-50	2/10W 1"
Slate & Shells			3,858				
TOTAL DEPTH			3,912'				

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Office of Oil and Gas
WV Dept. of Environmental Protection

Date May 05, 1965

APPROVED KROLL GAS COMPANY - R. H. ACKLIN

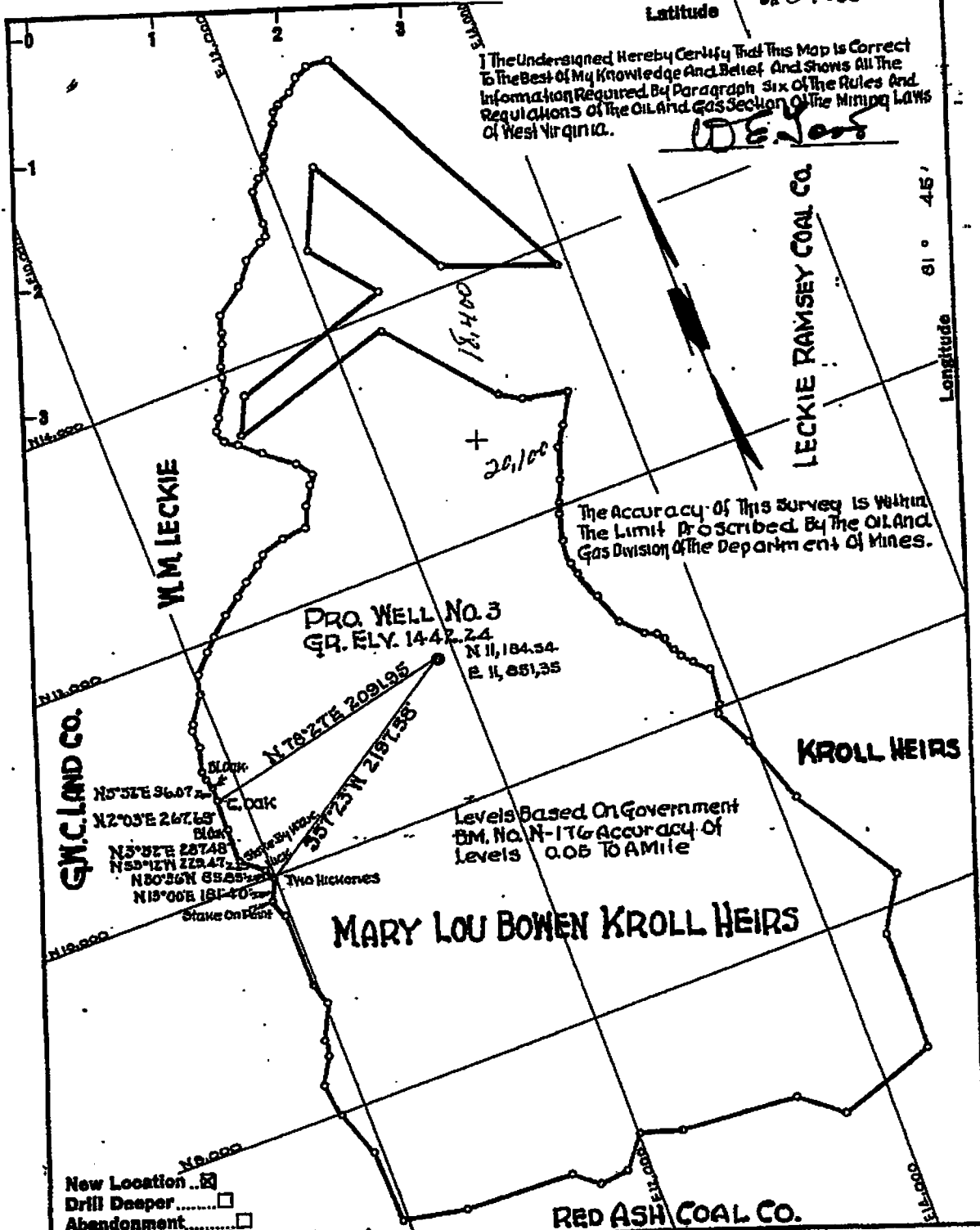
By *R. L. Hester*
(Title)

07/11/2014

Kroll Heirs #3
 144711
 in Wyoming C.O.
 47-109-00660

Latitude 40° 02' 66" P

I The Undersigned Hereby Certify That This Map is Correct To The Best of My Knowledge And Belief And Shows All The Information Required By Paragraph Six of The Rules And Regulations of The Oil and Gas Section of The Mining Laws of West Virginia.
 W.E. Jones



Received

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Office of Oil and Gas
 WV Dept. of Environmental Protection

New Location
 Drill Deeper
 Abandonment

R. H. ADKINS

Company ~~W. E. JONES~~
 Address HUNTINGTON W.V.A.
 Farm MARY LOU BOWEN KROLL HRS
 Tract _____ Acres 634.0 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 1447.24
 Quadrangle GILBERT
 County WYOMING District HUFF CREEK
 Engineer W.E. Jones
 Engineer's Registration No. 270
 File No. 6431-5F Drawing No. _____
 Date AUG. 19, 1904 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. W40-660

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

07/11/2014

1) Date: 5-13-14
2) Operator's Well Number
144711 (Kroll Heirs #3)
3) API Well No.: 47 109 - 00660
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4) Surface Owner(s) to be served:
(a) Name Steven & Debra June McHaffa
Address 521 Old Bramwell Rd.
Bluefield, WV 24701
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Ross Eller
Address 121 Brierhill Drive
Beckley, WV 25801
Telephone 304-932-6844

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name M/M GHD Lands Inc.
P.O. Box 545
Address 202 Welk Ct.
Summersville, WV 26651
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

Received
MAY 14 2014

TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents.

Office of Oil and Gas
WV Dept. of Environmental Protection

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any 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 permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat 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 mailing or delivery to the Chief.

Well Operator:
OFFICIAL SEAL:
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Bumgarner
Rt. 1, Box 4
Liberty, WV 25124
My Commission Expires July 27, 2018

EQT Production Company
Victoria J. Roark
Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076

Subscribed and sworn before me this 12 day of MAY, 2014
My Commission Expires: 6/27/2018 Notary Public

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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To: **Steven & Debra June McHaffa**
 521 Old Bramwell Rd.
 Bluefield, WV 24701
 Plugging 144711

PS Form 3800, August 2005 See Reverse for Instructions

Steven & Debra June McHaffa
521 Old Bramwell Rd.
Bluefield, WV 24701
Plugging 144711

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

COMPLETE THIS SECTION ON DELIVERY

A. Signature X
 Addressee
 Agent

B. Received by (Printed Name) _____
 C. Date of Delivery _____

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail™
 Priority Mail Express™
 Registered
 Return Receipt for Merchandise
 Insured Mail
 Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes No

2. Article Number (Transfer from service label)
 7034 0530 0000 4439 4275

1. Article Addressed to:
 Steven & Debra June McHaffa
 521 Old Bramwell Rd.
 Bluefield, WV 24701
 Plugging 144711

PS Form 3811, July 2013 Domestic Return Receipt

EQT
C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

07/11/2014

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Restricted Delivery Fee (Endorsement Required)		
Total P		

M/M GHD Lands Inc.
P.O. Box 545
202 Welk Ct.
Summersville, WV 26651
Plugging 144711

PS Form 3800, August 2005 See Reverse for Instructions

M/M GHD Lands Inc.
P.O. Box 545
202 Welk Ct.
Summersville, WV 26651
Plugging 144711

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
M/M GHD Lands Inc.
P.O. Box 545
202 Welk Ct.
Summersville, WV 26651
Plugging 144711

2. Article Number (Transfer from service label)
7014 0510 0000 4439 4268

3. Service Type
 Certified Mail™
 Priority Mail Express™
 Registered
 Insured Mail
 Return Receipt for Merchandise
 Return Receipt for Merchandise
 Collect on Delivery
 Restricted Delivery? (Extra Fee)
 Yes
 No

4. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

A. Signature X
 B. Received by (Printed Name)
 C. Date of Delivery
 D. Address

COMPLETE THIS SECTION ON DELIVERY

PS Form 3811, July 2013 Domestic Return Receipt

EQT
C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

07/11/2014

10900660P

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05/13/2014 \$02.24

ZIP 26330 041L1022892

US POSTAGE



Ross Eller
121 Brierhill Dr
Beckley, WV 25801

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MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

EQT
C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

07/11/2014

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: _____
Watershed: Right Fork Muzzel Creek Quadrangle: Gilbert 7.5'
Elevation: 1450' County: Wyoming District: Huff Creek

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X
Will synthetic liner be used in the pit? Yes Is so, what ml.? 10 ml - 20 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number _____
- Reuse (at API Number) _____
- Offsite Disposal Permit #. _____
- Other: Explain _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____
If left in pit and plan to solidify what medium will be used? Cement, Lime, 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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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.

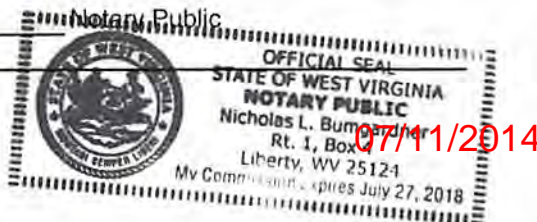
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 12 day of MAY, 2014

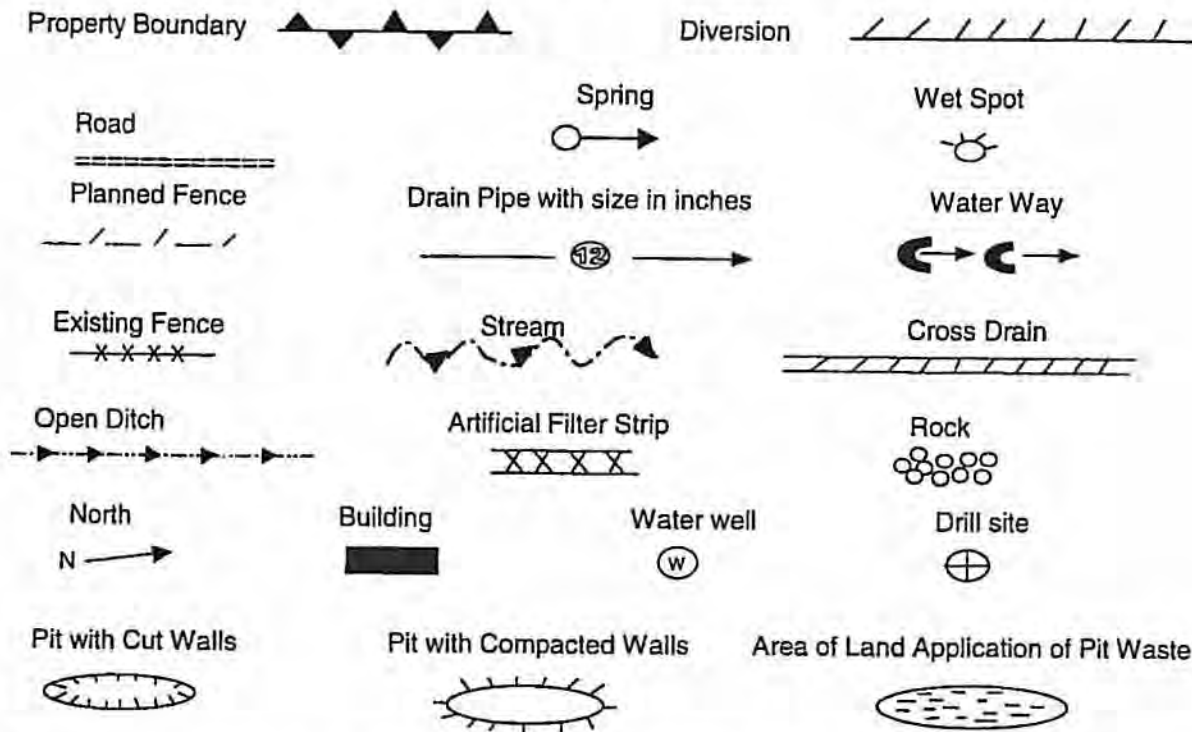
My Commission Expires 6/27/2018



Office of Oil and Gas
WV Dept. of Environmental Protection

OPERATOR'S WELL NO.:
144711 (Kroll Heirs #3)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

RECEIVED
Office of Oil and Gas

ATTACH:

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

Plan approved by: [Signature]

Comments: _____

Title: WV DEP DRG Insp. Date: 5/20/14

Field Reviewed? Yes No

JUL 9 2014

WV Department of Environmental Protection

10900660P

Topo Quad: Gilbert 7.5'

Scale: 1" = 2000'

County: Wyoming

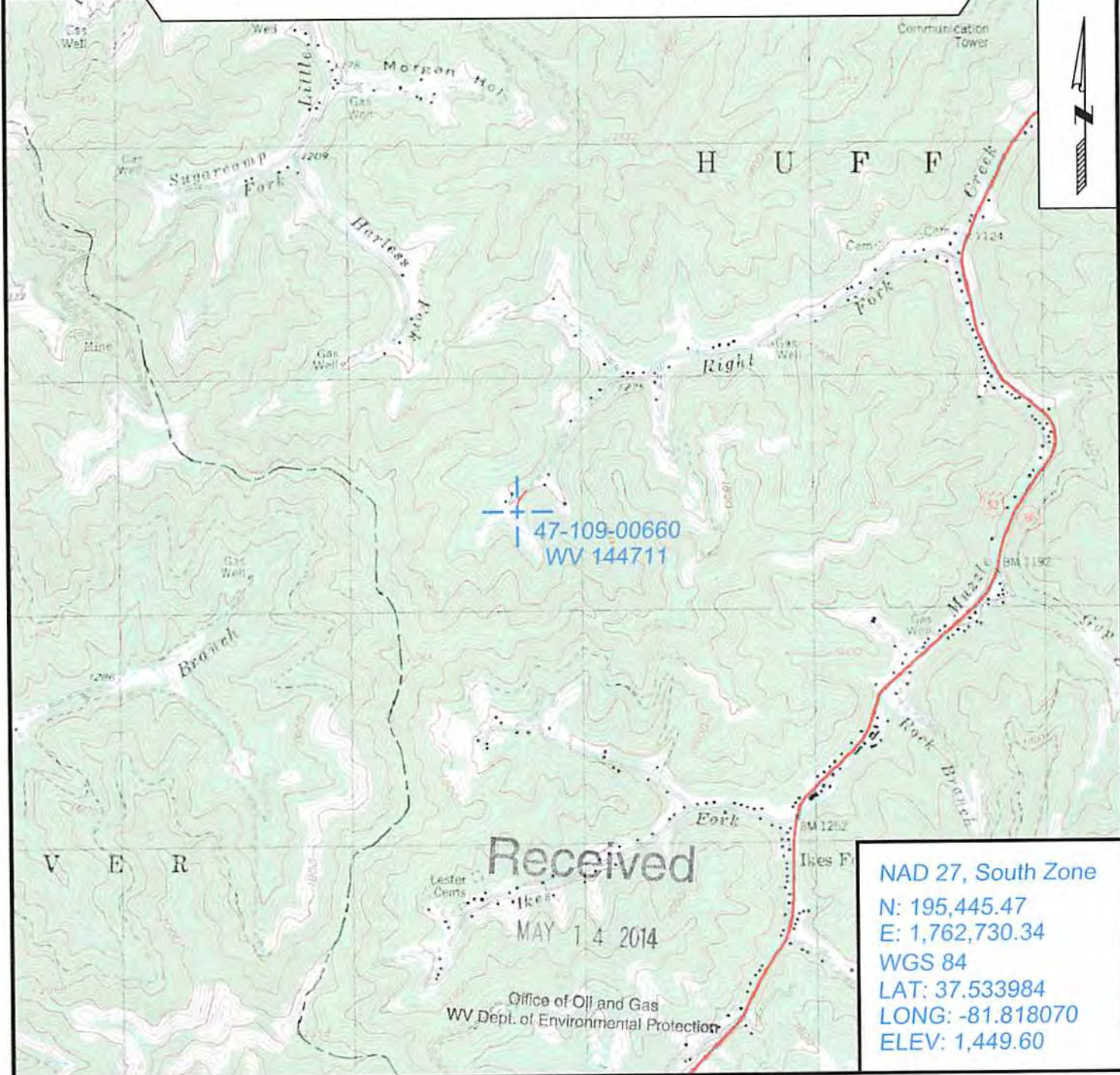
Date: May 2, 2014

District: Huff Creek

Project No: 22-22-00-08

47-109-00660 WV 144711 (Kroll Heirs #3)

Topo



NAD 27, South Zone
 N: 195,445.47
 E: 1,762,730.34
 WGS 84
 LAT: 37.533984
 LONG: -81.818070
 ELEV: 1,449.60



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

07/11/2014

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-109-00660 WELL NO.: WV 144711 (Kroll Heirs #3)

FARM NAME: Mary Lou Bowen Kroll Heirs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wyoming DISTRICT: Huff Creek 5

QUADRANGLE: Gilbert 7.5' 363

SURFACE OWNER: Steven M. and Debra J. Mchaffa

ROYALTY OWNER: Mary Lou Bowen Kroll Estate, LLP, et al.

UTM GPS NORTHING: 4154426

UTM GPS EASTING: 427723 GPS ELEVATION: 442 m (1450 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters. Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Received

MAY 14 2014

Steve Olson
Signature

PS # 2180
Title

5/7/14
Date



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Kroll Heirs #3 WV 144711 (47-109-00660)

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

*Please note that the following information is subject to change upon field inspection.

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 234' +/- Owner: Steven M. & Debra J. Mchaffa
Address: 521 Old Bramwell Road, Bluefield, WV 24701 Phone No. _____

Comments:
Site: 2 Spacing: 272 +/- Owner: Steven M. & Debra J. Mchaffa
Address: 521 Old Bramwell Road, Bluefield, WV 24701 Phone No. _____

Comments:
Site: 3 Spacing: 709 +/- Owner: Larry D. Dameron
Address: PO Box 504, Hanover, WV 24839 Phone No. _____

Comments:
Site: 4 Spacing: 564 +/- Owner: Larry D. Dameron
Address: PO Box 504, Hanover, WV 24839 Phone No. _____

Comments:
Site: 5 Spacing: 687 +/- Owner: Larry D. Dameron
Address: PO Box 504, Hanover, WV 24839 Phone No. _____

Comments:

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
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BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE
212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Road
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

10900660P

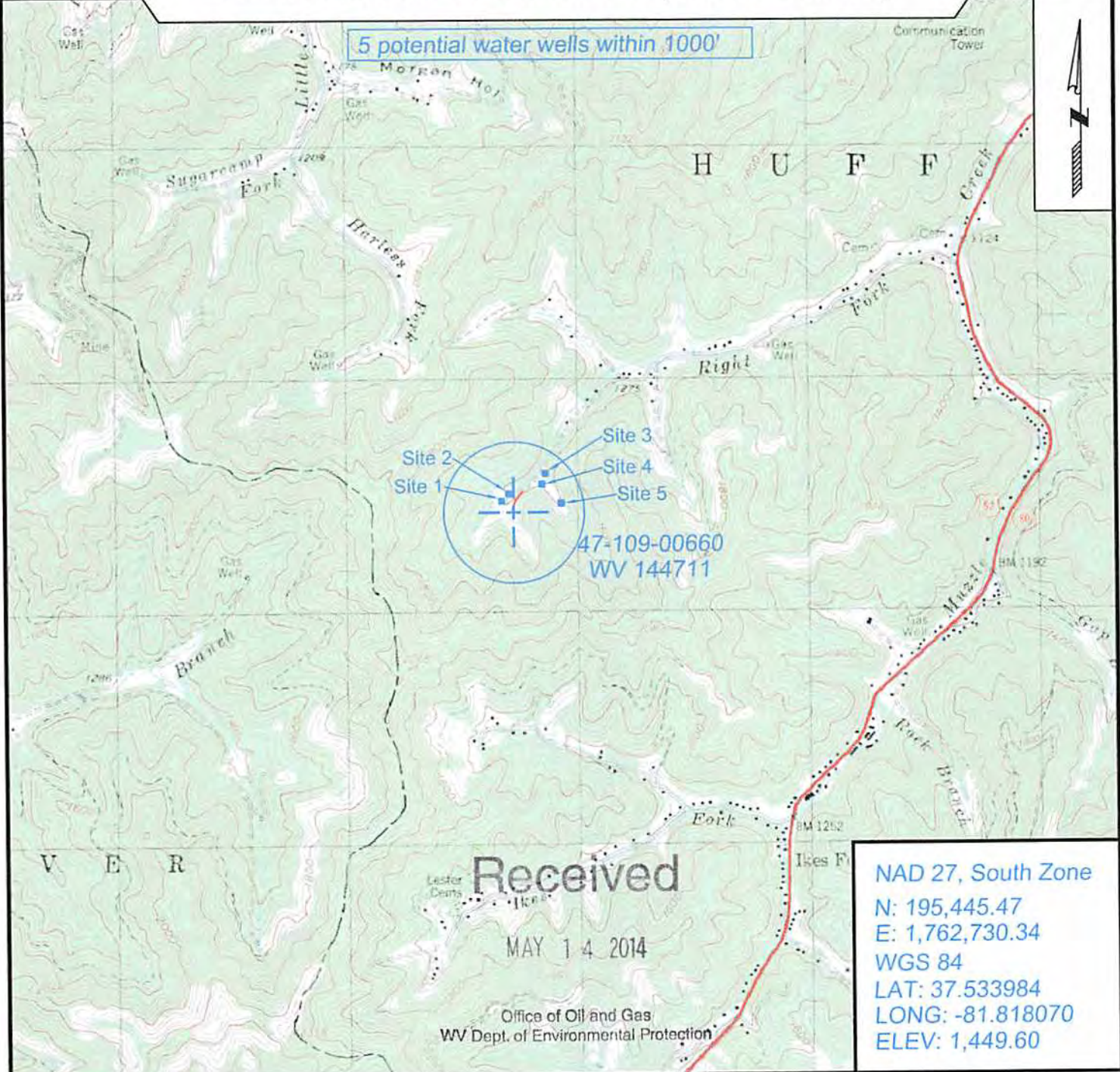
Topo Quad: Gilbert 7.5' Scale: 1" = 2000'

County: Wyoming Date: May 2, 2014

District: Huff Creek Project No: 22-22-00-08

Water

47-109-00660 WV 144711 (Kroll Heirs #3)



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
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