



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

February 04, 2014

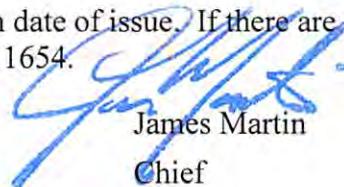
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701316, 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 793800 (WVC-3696)
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-4701316
Permit Type: Plugging
Date Issued: 02/04/2014

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.

4701316P

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

Date: January 9, 2014
Operator's Well _____
Well No. 793800 WVC 3696
API Well No.: 47 047 - 01316

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

CR 360510
100⁰⁰

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: 2071 Watershed: SLAUNCH FORK
Location: Sandy River 6 County: McDowell Quadrangle: Patterson 7.5' 534
District: _____

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

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

8) Oil & Gas Gary Kennedy
Name: PO Box 268
Address: Nimitz WV 25978

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.

6% Bentonite gel between cement plugs.

RECEIVED
Office of Oil and Gas
JAN 31 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 *Gary Kennedy* Date 1-27-14

02/07/2014

PLUGGING PROGNOSIS

793800

McDowell COUNTY, WEST VIRGINIA

API # 47-047-01316

BY: Beau Fry

DATE: 12/4/13

CURRENT STATUS: *Tubing still has 5/8" rods sticking up in 2 3/8" tubing. Hole in tubing bring 2" spear. Tubing hung in hole.*

11 3/4" csg @ 45' Grouted

8 5/8" csg @ 231' Cemented to surface

4 1/2" csg @ 2298' Cemented to surface

2 3/8" tubing @? May be at 2144'

5/8" rods @? 46 were backed off and pulled and the rest are in there.

TD @ 1960'

Oil Shows – None Reported FW Shows – None Reported Gas shows – None Reported

Coal Shows – 212'-216', 239'-242', 297'-300', 542'-546', 782'-785', 809'-813', 834'-840', 883'-887'.

Stimulation: Hole perforated @ 1361'-1944' Poca 5, 7, 9, Firecreek, Beckley Welch seams

1. Notify State Inspector, **Gary Kennedy**, 1-304-382-8402, 48 hrs. prior to commencing operations.
2. Fish out 5/8" rods in tubing to close to the bottom set of perforations or all if possible, try to work tubing free. If all rods and pump retrieved out of tubing try to pump down tubing and report results.
3. If tubing will not work free and cannot pump down hole, free point tubing and shoots tubing at 1800' and pull 2 3/8" tubing and check condition.
4. TIH w/ tbg @ 1800' or Free point cut'; Set 800' C1A Cement Plug @ 1800' to 1000' (Coal Completions perforations).
5. ~~TOOH w/ tubing let cement cure~~ *6% Beurbark gel between cement plugs.*
6. TIH w/ tubing check Cement top and set C1A Cement from Cement top to Surface totally filling remainder of well w/ cement. (8 coal shows, 8 5/8" csg pt, 11 3/4" csg pt).
7. Top off as needed
8. Set Monument to WV-DEP Specifications
9. Reclaim Location & Road to WV-DEP Specifications

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Office of Oil and Gas
JAN 7 2014
WV Department of
Environmental Protection

02/07/2014

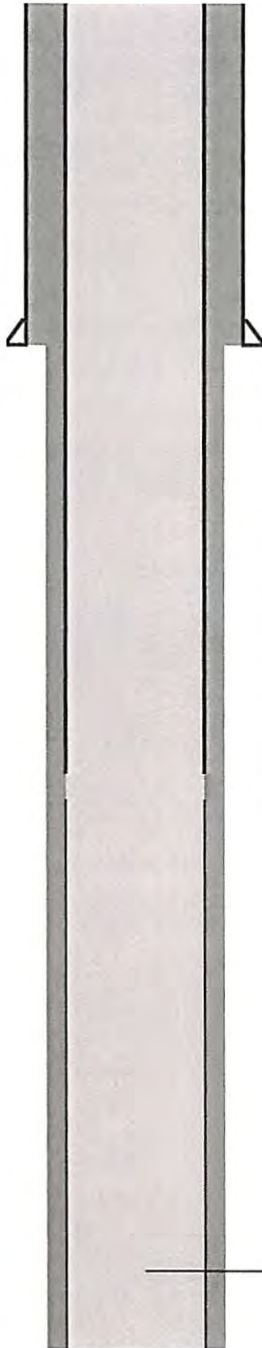
EQT Production Company

Plugging Detail

No gel solid cement

1000' to 0
Cement

1800' to 1000'
Cement



Coal @ 212' to 216'

8 5/8" csg @ 231' (Cemented to Surface)

Coal @ 239' to 242'

Coal @ 297' to 300'

Coal @ 542' to 546'

Coal @ 782' to 785'

Coal @ 809' to 813'

Coal @ 834' to 840'

Coal @ 883' to 887'

4 1/2" csg @ 2298' (Cemented to Surface)

WELL: 793800

API: 47-047-01316

COUNTY: McDowell

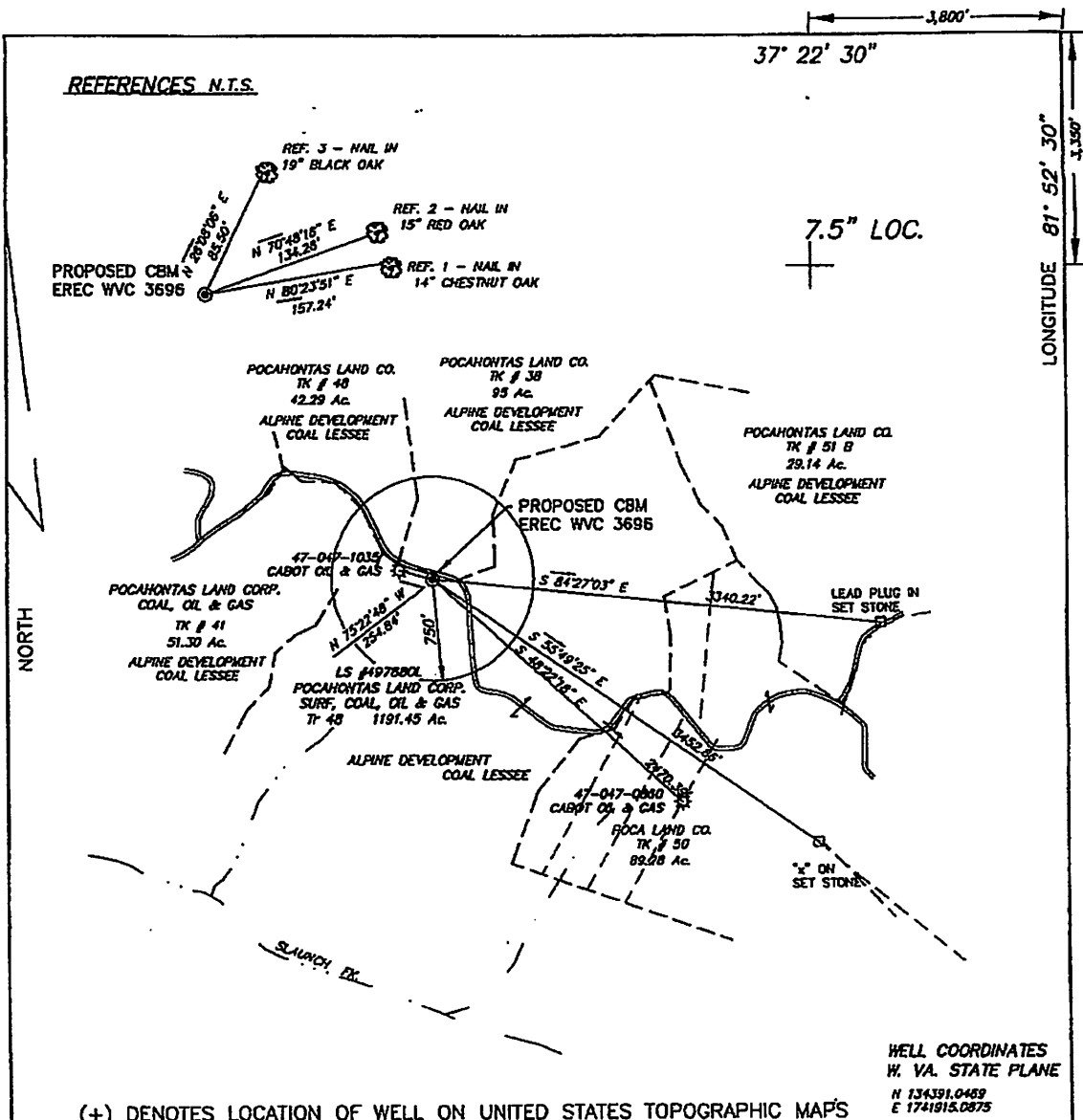
QUADRANGLE:

	C1A Cement
	6% Gel
	Cement Prior to plugging Operations

6% Bentonite gel between cement plugs.

RECEIVED
Office of Oil and Gas
JAN 31 2014
WV Department of
Environmental Protection

4701316P



FILE No. 9614-13
 DRAWING No. EREC WVC 3696
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 2500
 PROVEN SOURCE OF ELEVATION USGS BM 151 RHP, 1959, EL. 2156

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) William J. Williams
 R.P.E. R.P.S. 646

WELL COORDINATES
 W. VA. STATE PLANE
 N 134391.0489
 E 1741915.0875



FORM IV-6 (8-78)

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS NITRO, WV		DATE <u>JULY 5</u> 19 <u>97</u>	
		OPERATOR'S WELL No. <u>WVC 3696</u>	
		API WELL No. <u>47 04704316C</u>	
WELL TYPE: OIL <input type="checkbox"/> GAS <input type="checkbox"/> CBM <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/>		STATE COUNTY PERMIT	
(IF "GAS") PRODUCTION <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>			
LOCATION: ELEVATION <u>2063.64</u> WATER SHED <u>SLAUNCH FORK</u>			
DISTRICT <u>SANDY RIVER</u> COUNTY <u>MCDOWELL</u>			
QUADRANGLE <u>PATTERSON, W. VA. - VA.</u>			
SURFACE OWNER <u>POCAHONTAS LAND CORP.</u> ACREAGE <u>1191.45</u>			
OIL & GAS ROYALTY OWNER <u>POCAHONTAS LAND CORP.</u> LEASE ACREAGE <u>15,379.43</u>			
LEASE No. <u>497880L</u>			
PROPOSED WORK: DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <u>Lead Plug</u>			
PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/>			
TARGET FORMATION <u>PENNSYLVANIAN COAL</u> ESTIMATED DEPTH <u>2315'</u>			
WELL OPERATOR <u>EQUITABLE RESOURCES ENERGY CO.</u> DESIGNATED AGENT <u>DAVID DEAN</u>			
ADDRESS <u>1989 EAST STONE DR.</u> ADDRESS <u>P.O. DRAWER 40</u>			
<u>KINGSPORT, TN 37660</u>		<u>BUCHANNON, WV 26201</u>	

02/07/2014

4701316A

WVC 3696

WR-35

21-Aug-97
API # 47- 47-01316 C

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

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP Operator Well No.: WVC-3696

LOCATION: Elevation: 2,063.64 Quadrangle: PATTERSON

District: SANDY RIVER County: MCDOWELL
Latitude: 3350 Feet South of 37 Deg. 22Min. 30 Sec.
Longitude 3800 Feet West of 81 Deg. 52 Min. 30 Sec.

Company: EQUITABLE RESOURCES EXP.
1989 E. STONE DR., P.O. BOX 1983
KINGSPORT, TN 37662-1983

Agent: DAVID A. DEAN

Inspector: OFIE HELMICK
Permit Issued: 08/21/97
Well work Commenced: 9/27/97
Well work Completed: 10/1/97
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) LTD=2343 DTD=2365
Fresh water depths (ft) 353 & 1731'
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	45	45	
8 5/8	231	231	124
4 1/2	2298	2298	635
2 3/8	2144	2144	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 212-216, 239-242, 297-300,
542-546, 782-785, 809-813, 834-840, 883-887,
1365-1368, 1530-1540, 1662-1670, 1781-1787, 1868-1872, 1877-1881, 1945-1948, 2032-2035
OPEN FLOW DATA 2138-2142

Producing formation COAL SEAMS * Pay zone depth (ft) 1361-1944
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 10 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 240 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MICHAEL P JASKOSKI
EQUITABLE RESOURCES EXP. INC.

By: Michael P Jaskoski
Date: 4-25-98

02/07/2014

4701316A

API #: 47-047-01316 C
OPERATOR WELL #: WYC3696
FARM NAME: POCAHONTAS LAND CORP

- 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING; PHYSICAL CHANGE, ETC.

1ST STAGE - PERFORATED POCO SEAMS #5, 7 & 9, FIRECREEK, BECKLEY, WELCH, FROM 1361 - 1944.5 WITH 20 PERFORATIONS. FRACTURED ON 10/21/97 BY DOWELL WITH 70Q LE FOAM; 27900# 12/20 SAND, 640,000 SCF N2, 587 TOTAL BBLS FLUID. BREAKDOWN PRESSURE 1333 PSI, MAX PRESSURE 3901 PSI, AVERAGE PRESSURE 3640 PSI, ISIP 1134 PSI, 1 MIN SIP 1149 PSI, 5 MIN SIP 1072 PSI. AVERAGE INJECTION RATE 51 BPM; F.G. = 1.13.

- 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

SAND, SHALE & THIN COALS	0	1361	1361
WELCH	1361	1364	3
SAND, SHALE & THIN COALS	1364	1546	182
BECKLEY	1546	1549	3
SAND, SHALE & THIN COALS	1549	1664	115
FIRE CREEK	1664	1666	2
SAND, SHALE & THIN COALS	1666	1721	55
POCO #9	1721	1722	1
SAND, SHALE & THIN COALS	1722	1865	143
POCO #7	1865	1867	2
SAND, SHALE & THIN COALS	1867	1944	77
POCO #5	1944	1945	1
SAND, SHALE & THIN COALS	1945	2343	398

LOGGER'S TOTAL DEPTH 2343
DRILLER'S TOTAL DEPTH 2365

REVIEWED
DATE
BY
Environmental Services

WW-4-A
Revised 6/07

1) Date: January 9, 2014
2) Operator's Well Number
793800 WVC 3696
3) API Well No.: 47 047 - 01316
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 Pocahontas Land Corporation
Address PO Box 1517
Bluefield, WV 24701

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Gary Kennedy
Address PO Box 268
Nimitz WV 25978
Telephone 304-466-9868

5) (a) Coal Operator:
Name None
Address _____

(b) Coal Owner(s) with Declaration
Name Pocahontas Land Corporation
Address PO Box 1517
Bluefield, WV 24701

(c) Coal Lessee with Declaration
Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address Alpha Natural Resources
PO Box 501
Pineville, WV 24874

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

- (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.

RECEIVED
JAN 17 2014

Well Operator: _____
By: _____
Its: _____
Address: _____
Phone: _____

Office of Oil and Gas
Division of Environmental Protection
EQT Production Company
Victoria J. Roark WV Dept of Environmental Protection
Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076

Subscribed and sworn before me this 9 day of JANUARY, 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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Restricted Delivery Fee (Endorsement Required)	
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Sent to
Street or PO
City, S
PS Fee

Pocahontas Land Corporation
PO Box 1517
Bluefield, WV 24701
793800 WVC 3696 Plugging

SENDER: COMPLETE
■ Complete items 1, 2
■ item 4 if Restricted Delivery
■ Print your name and
■ so that we can return
■ Attach this card to the
■ or on the front if space

1. Article Addressed to:

Pocahontas
PC
Bluefield, WV 24701
793800 WVC 3696 Plugging

3. Service Type
 Certified Mail
 Registered
 Insured Mail
 Express Mail
 Return Receipt for Merchandise
 C.O.D.
4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label) 7013 2630 0002 2366 5033
PS Form 3811, February 2004
102595-02-M-1540
Domestic Return Receipt

Received

JAN 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

02/07/2014



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

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Total F

Sent To
Street / or PO B
City, St

Alpha Natural Resources
PO Box 501
Pineville, WV 24874
793800 WVC 3696 Plugging

PS Form

SENDER: COMF
 Complete item 4 if Restricted
 Print your name so that we can attach this card or on the front
 1. Article Addressee

ON DELIVERY
 Agent Addressee
 C. Date of Delivery
 from item 1? Yes No
 Pass below:

3. Service Type
 Certified Mail
 Registered Mail
 Insured Mail
 Express Mail
 Return Receipt for Merchandise
 C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label)
7013 2630 0002 2366 5057

PS Form 3811, February 2004
Domestic Return Receipt
102595-02-M-1540

4701316A

Received

JAN 17 2014

Office of Oil and Gas
WV Dept. of Environment

02/07/2014

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ZIP 26330
041L10228892



Gary Kennedy
P.O. Box 268
Nimitz, WV 25978

Received

JAN 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

QT
Vicki Roark
Box 280
Igeport, WV 26330

02/07/2014

4701316P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
793800 WVC 3696
3) API Well No.: 47 047 - 01316

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: SLAUNCH FORK Quadrangle: Patterson 7.5'
Elevation: 2071 County: McDowell District: Sandy River

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.? 30 ml

Proposed Disposal Method for Treated Pit Wastes: ELK
 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.

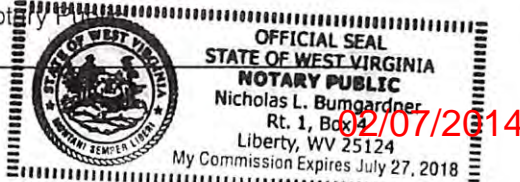
Company Official Signature [Signature]

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

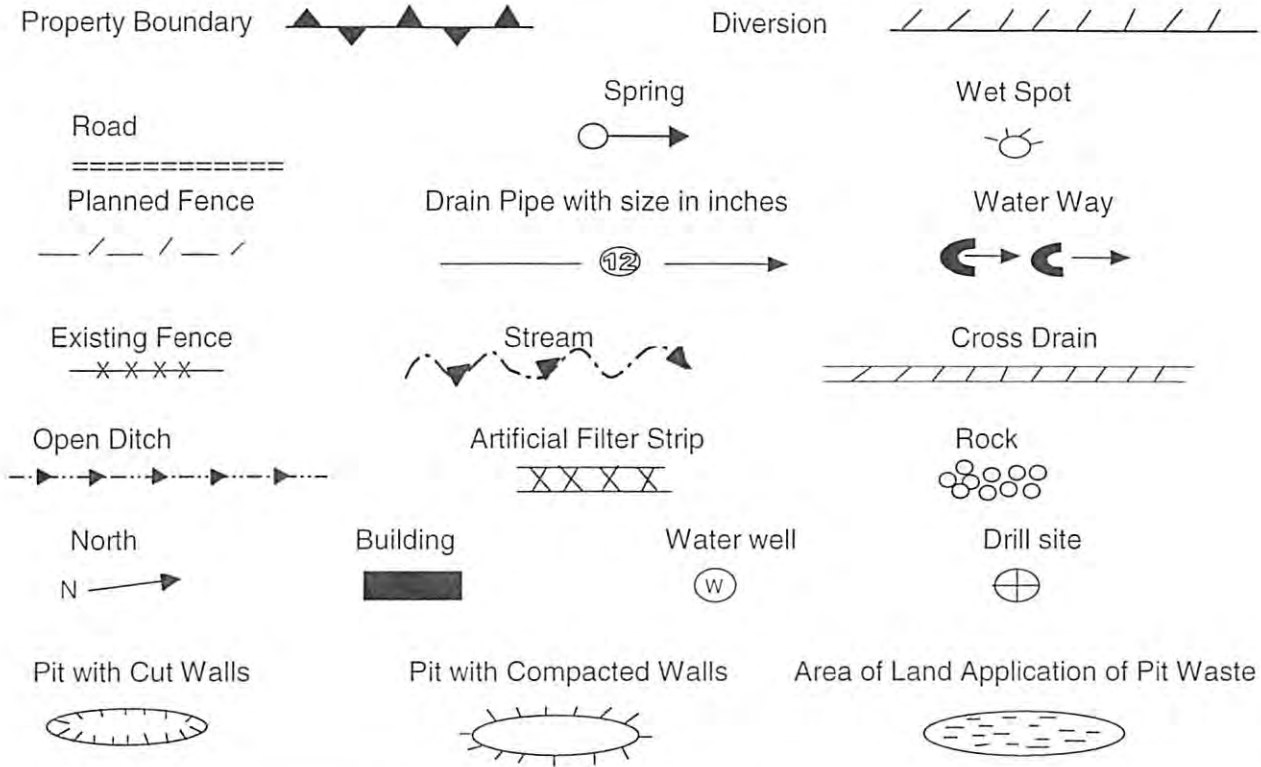
Subscribed and sworn before me this 9 day of JANUARY, 2014

My Commission Expires 6/27/2018



OPERATOR'S WELL NO.:
793800 WVC 3696

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		

ATTACH:

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

Plan approved by: *Henry Kennedy*

Comments: _____

Title: *Inspector* Date: *1-27-14*
Field Reviewed? Yes No

REVIEWED
CIRCULAR LETTERS
JUL 27 2014
Environmental Protection

4701316P

Topo Quad: Patterson 7.5'

Scale: 1" = 2000'

County: McDowell

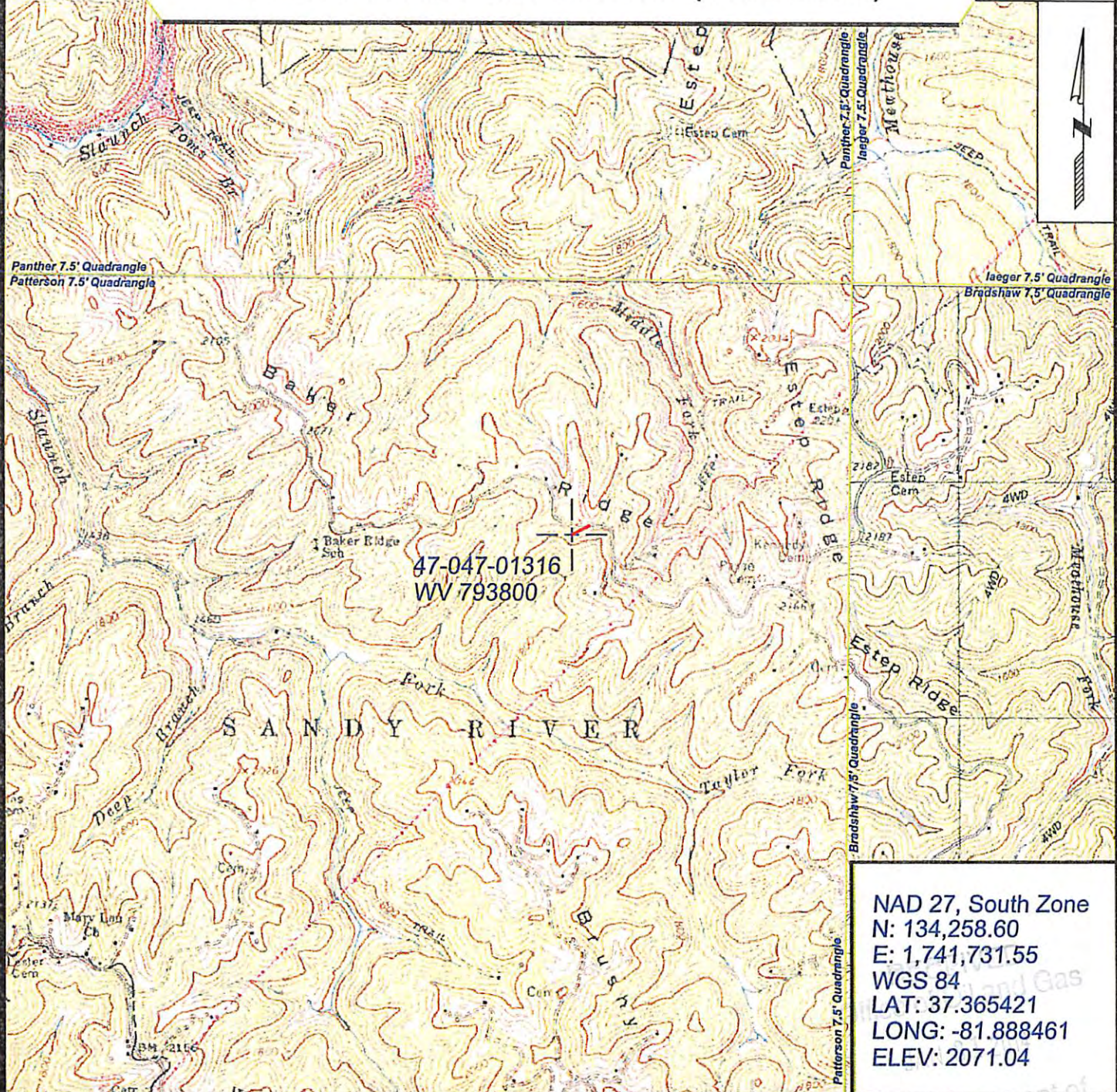
Date: December 4, 2013

District: Sandy River

Project No: 20-37-00-08

47-047-01316 WV 793800 (WVC 3696)

Topo



47-047-01316
WV 793800

NAD 27, South Zone
 N: 134,258.60
 E: 1,741,731.55
 WGS 84
 LAT: 37.365421
 LONG: -81.888461
 ELEV: 2071.04



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

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

02/07/2014

4701316P

WW-7
8-30-06



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

API: 47-047-01316 WELL NO.: WV 793800 (WVC 3696)
FARM NAME: Pocahontas Land Corporation
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: McDowell DISTRICT: Sandy River
QUADRANGLE: Patterson 7.5'
SURFACE OWNER: Pocahontas Land Corporation
ROYALTY OWNER: Penn Virginia Oil and Gas Corporation, et al.
UTM GPS NORTHING: 4135781
UTM GPS EASTING: 421327 GPS ELEVATION: 631 m (2071 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.

Signature *Stacy O'Neil*
Date 12/6/13

Title PS # 2180

Received
JAN 17 2014

470136P



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. WVC 3696 WV 793800 (47-047-01316)

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: 885' +/- Owner: Map 282, Parcel 35 (No Reference Available)
Address: _____ Phone No. _____
Comments:

Site: 2 Spacing: 843' +/- Owner: Map 282, Parcel 35 (No Reference Available)
Address: _____ Phone No. _____
Comments:

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30807

BIRCH RIVER OFFICE
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Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

4701316P

Topo Quad: Patterson 7.5'

Scale: 1" = 2000'

County: McDowell

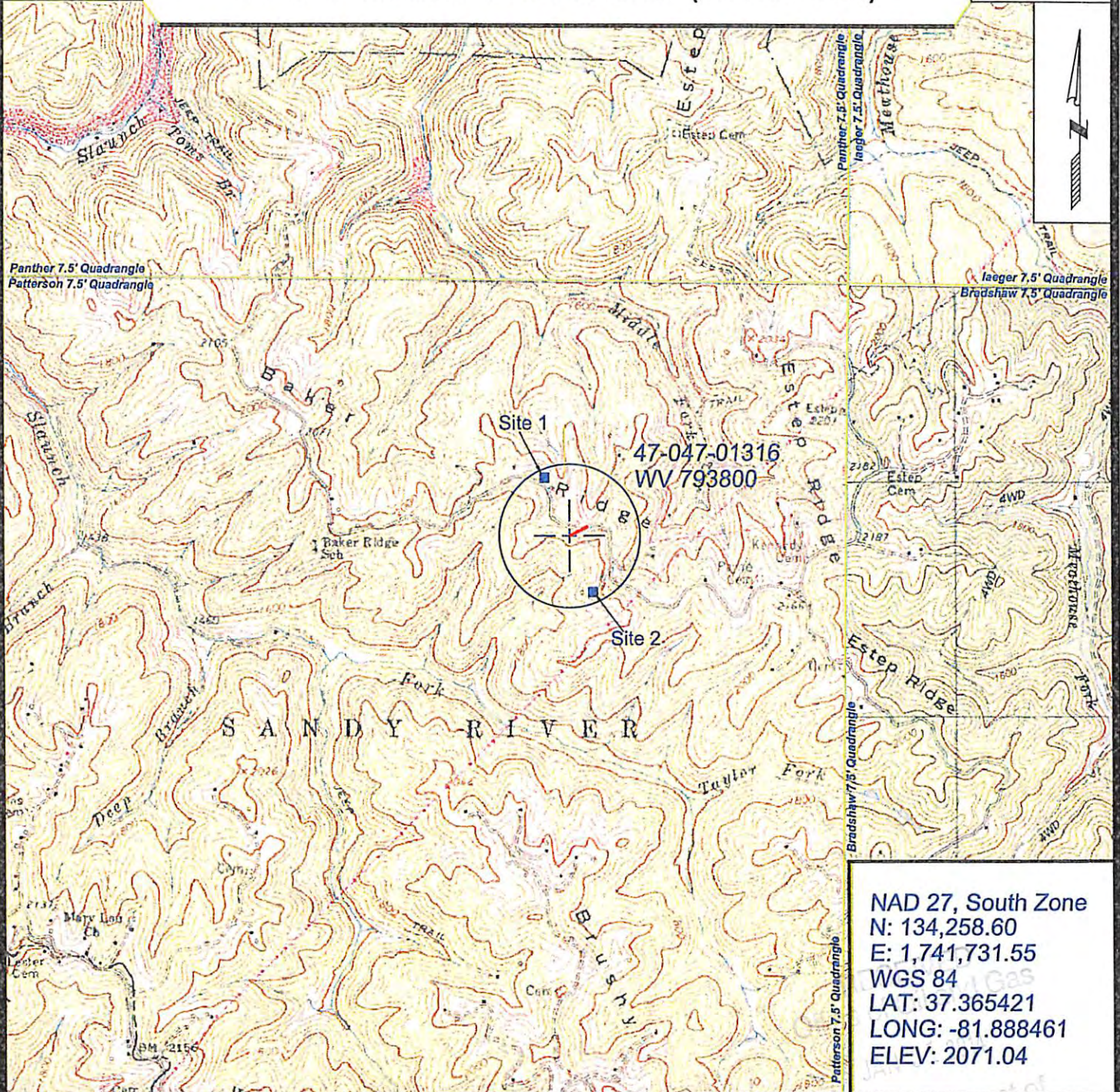
Date: December 4, 2013

District: Sandy River

Project No: 20-37-00-08

Water

47-047-01316 WV 793800 (WVC 3696)



NAD 27, South Zone
 N: 134,258.60
 E: 1,741,731.55
 WGS 84
 LAT: 37.365421
 LONG: -81.888461
 ELEV: 2071.04



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 FAX: (304) 649-8608

PREPARED FOR:

JKK
EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

02/07/2014

470136P



Historical Well Chronology

Well Name: 793800 WVC3696

API 4704701316	Energia Well # 793800	PUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State WV
Big KB Elev...	Spud Date 9/27/1997	Planned Well Geometry	Well Type Conventional	Loc Stat from LM spud	Area	County Mc Dowell, WV	Quad	

Job Category: Completion/Workover, Job Start Date: 8/28/2007

Job Category Completion/Workover	AFE Number	Start Date 8/28/2007	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
-------------------------------------	------------	-------------------------	----------------------------	---------------------	-------------------------

Report #: 1.0 DFS: 3622.25 Rigs: <Rig?> Job Category: Completion/Workover

Report End Date 8/28/2007 06:00	Operations at Report Time	Last Casing String
------------------------------------	---------------------------	--------------------

Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
------------------	--------------------	---------------------------	-------------------------	----------------	-----------------	----------------

Operations Summary
AM Status: Determine if tbg is hung, Strip out of hole w/ rods/tbg. On 8/27: SICP=25, SITP=0, MCFD=0. MIRU Key CU. BD PU and wellhead. RU to TOH w/ skr rods. Unable to unseat pump and pull rods. Work to free, pull 20,000# over string weight. Unable to work free. SD for night.

640730 Key \$ 1150

Report #: 2.0 DFS: 3623.25 Rigs: <Rig?> Job Category: Completion/Workover

Report End Date 8/29/2007 06:00	Operations at Report Time RDMO Rig	Last Casing String
------------------------------------	---------------------------------------	--------------------

Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
------------------	--------------------	---------------------------	-------------------------	----------------	-----------------	----------------

Operations Summary
AM Status: RDMO. On 8/28: Tried to work rods free (failed), backed rods off & pulled 46 (5/8") rods, set up to pull 2" 10rd tbg. From well head packed to top collar, tbg had rusted through leaving a hole in tbg, tried to pull tbg (hung) pulled 20,000lbs, couldn't free tbg. Packed off well head RDMO put up fence.

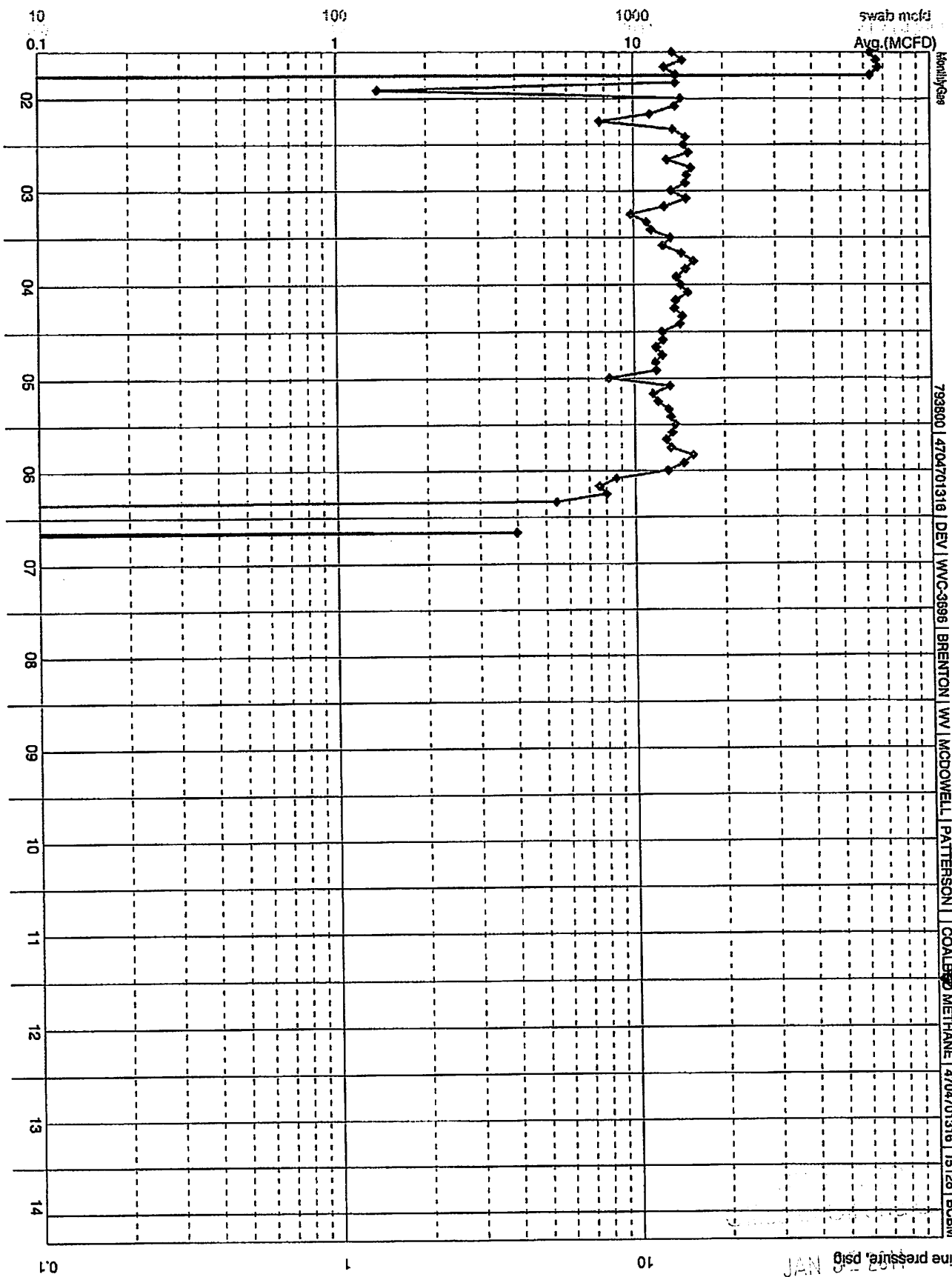
1D - 15 mCFD

Tubing hung in Well
all Equipment removed

Plug this Well

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4701316A



02/07/2014

NOTE_TEXT

- 1 Flo Cal
- 2 Code - 97
- 3 YES
- 4 Rescalss equals PDP but well has no BUD08 forecast.
- 5 Brenton August Variance Wells
- 6 Wrong Cums.
- 7 BR4 200 WELLS
- 8 Brenton CBM wells.
- 9 Still Flat - Yes
- 10 EQT operated wells that flow through Cabot pipelines.
- 11 Early start dates in Economics.
- 12 Shut In Report - Well is scaled in, uneconomical at this time. / FDM Downtime Comment -
- 13 Brenton Defect Plan.
- 14 Orifice Plate Diameter - 0.5 / Tube Diameter - 2.06500005722046
- 15 Equitable Production assumed operations of well on 01/01/2006 from Cabot Oil & Gas Corporation.
- 16 Pump Unit Down-Repair-Informed that motor was repaired.
- 17 Whc on; inlet=8; Flowrate=8mcf; pumpjack off--no motor.
- 18 Pump Unit Down-PowerMotor replaced on pump-unit and unit turned on.
- 19 Whc on; inlet=8#; tightened pinch on disch-inlet link to lower inlet to approx 4#.
- 20 Tank#1=68 bbls; tank#2=85 bbls; approx 2.76 bbls per/day for days that pump ran.
- 21 Water hauled; water level recorded by driver subtracting water level I recorded 2/23/06 calculates to 6.2 bbls per/day
- 22 Whc on; inlet=1#; flowrate=14mcf; Tank#1=35bbls; tank#2=46bbls; according to last recorded water gauge by driv approx 4.2bbls p'd.
- 23 flowrate=14 mcf; tank1=130.3 bbls; tank2=71.6 bbls; produced 4.2 bbls per/day.
- 24 Whc off; posi-drip was shut; after correcting problem-could just pinch well on to flow off press.
- 25 started whc. line press=44#.
- 26 Flowrate=16mcf; Lubed and tightened stuf-box to arrest leakage.
- 27 Flowrate=15 mcf; well gauged 8#; tightened the pinch on the disch-suc bypass to lower well press.
- 28 Flowrate=14mcf; whc on; well and inlet=2#; deposited more oil-soaks into dike.
- 29 Flowrate=14mcf; well and inlet=2#.
- 30 Flowrate=14mcf; 84.6 bbl in tnk.
- 31 Blow Drip-Whc on; flowrate=13 mcf; tnk=110.8 bbls; approx 3.7 bbl per/day.
- 32 Flowrate=13 mcf; whc off since 12pm 5/23/06 on disch-press; checked oil and started unit. tnk1=closed; tnk2=129 2.3 bbl per/day.
- 33 Volume=14 mcf; inlet=2#; tnk=130 bbl; approx 3.1 bbl per/day.
- 34 Flowrate=14 mcf; well=5#; chart reading converted to 3.5#; disch gauged 45#; tnk=83bbl.
- 35 Flowrate=7 mcf.
- 36 Replaced 1 drive belt until new belts come in; started PU.
- 37 Sprayed weeder around whc and pu.
- 38 Replaced drive belts and started unit.
- 39 Pump appears to be stuck. Flow=8 mcf. Bridal cable wrecked.
- 40 Rods stuck.
- 41 Maintenance-Well has down hole problem.
- 42 Change Chart/Download Meter-Well is scaled in.
- 43 (WVC-3686). Well is scaled in. Remove forecast (10 MCFD uplift)
- 44 Change Chart/Download Meter-0-mcf
- 45 Change Chart/Download Meter-0-mcf, Well is scaled in.
- 46 Change Chart/Download Meter-October Total 0-mcf, Code D Scaled in.

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NOTE_TEXT

- 47 Change Chart/Download Meter-Well is scaled off.
- 48 Change Chart/Download Meter-Dec total 0-mcf. Down 181 mcf, Code D scale.
- 49 Change Chart/Download Meter-Jan total-0
- 50 Blow Drip - Location -Someone stole my fence around location.
- 51 Message to Eng or Supt-This well is going on the plug list, has no equipment on it. It will not let me do the production
- 52 Downtime Well is scaled in rig tried to pull. Equipment has been pulled off.
- 53



Miss Utility of West Virginia (WV 811)
(Exhibit A)
Directions to Existing Gas Well WV 793800
API No. 47-047-01316

- Beginning at the intersection of West Virginia Route 83 and West Virginia County Route 83/6 in the Community of Bradshaw Mountain, McDowell County, West Virginia (Point No. 1).
- Proceed North on County Route 83/6, Panther Fork Ridge Road, for approximately 2.1 miles to the intersection of County Route 5/18, Panther Fork Ridge Road, and County Route 83/11, Estep Ridge Road (Point No. 2).
- Turn left onto County Route 83/11, Estep Ridge Road, and proceed for approximately 0.9 mile to the Well Access Road on the left (Point No. 3)
- Turn left onto the Well Access Road and proceed approximately 0.05 mile arriving at Gas Well WV 793800 (Point No. 4).

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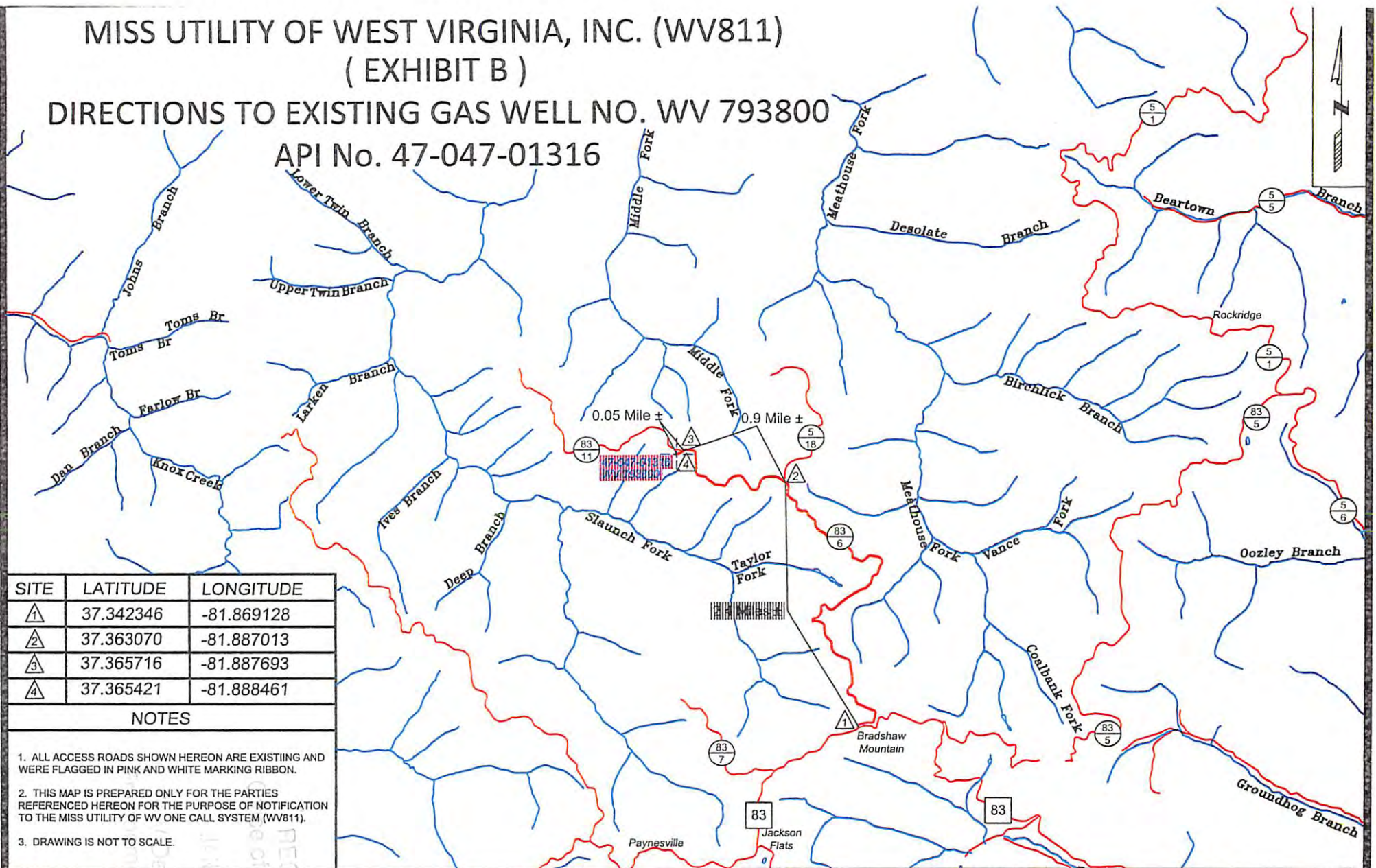
ALUM CREEK OFFICE
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fax: 304-756-2948

MISS UTILITY OF WEST VIRGINIA, INC. (WV811)

(EXHIBIT B)

DIRECTIONS TO EXISTING GAS WELL NO. WV 793800

API No. 47-047-01316



SITE	LATITUDE	LONGITUDE
▲	37.342346	-81.869128
▲	37.363070	-81.887013
▲	37.365716	-81.887693
▲	37.365421	-81.888461

NOTES

1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO THE MISS UTILITY OF WV ONE CALL SYSTEM (WV811).
3. DRAWING IS NOT TO SCALE.



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County: McDowell
 District: Sandy River
 Date: December 3, 2013
 Project No: 20-37-00-08
 FILE No: 20-08 WV 793800 MU B

PREPARED FOR:

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

4701316P