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

October 19, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1304244, 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 penalities 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: HARDMAN 5A-W910
Farm Name: CAIN, FRANCIS, ETAL
API Well Number: 47-1304244
Permit Type: Plugging
Date Issued: 10/19/2015

Promoting a healthy environment.

1304244P

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 under the terms of that agreement.

CK # 1989
$100.00

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

Date: September 21, 2015
Operator's Well
Well No. 156561 (Hardman 5A-W910)
API Well No.: 47 013 - 04244

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

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: 1104 ft. Watershed: Hardman Fork
Location: District: Lee County: Calhoun Quadrangle: Annamoriah 7.5'

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

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

8)
Oil & Gas Name: Joe Taylor
Address: 1478 Claylick Road
Ripley WV. 25271

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.

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 _____ Date 10-2-15

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PLUGGING PROGNOSIS

Hardman #5A-910 (156561)

Calhoun Co. W.V.
API # 47-013-04244
Dist.: Lee

BY: Craig Duckworth
DATE: 8/18/15

CURRENT STATUS:

8 5/8" csg @ 219' (C.T.S.)
4 1/2" csg @ 2699' (225sks)

Fresh Water @ None reported **Salt Water @ 1980'**
Coal @ None reported
Gas Shows @ None reported
Oil Shows @ None reported
Stimulation: Berea 2596'-2628'
Elevation: 1170'

1. Notify State Inspector, [illegible], 24 hrs. Prior to commencing operations.
2. Check TD
3. TIH w/ tbg @ 2699'; Set 200' C1A Cement Plug @ 2699' to 2501' (Gas Shows @ Berea 2596'-2628')
4. TOOH w/ tbg, Free Point 4 1/2", cut 4 1/2" @ free point, TOOH w/ 4 1/2" csg
5. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut. Do not omit any plugs
6. TIH w/ tbg @ 2501'; gel hole @ 2501' to 2097'
7. TOOH w/ tbg @ 2097'; Set 200' C1A Cement Plug @ 2097' to 1897'(Big Lime @ 2097'& 4 ½" csg cut & Salt Water @ 1980')
8. TOOH w/ tbg @ 1897'; gel hole @ 1897' to 1450'
9. TOOH w/ tbg @ 1450'; Set 100' C1A Cement Plug @ 1450' to 1350'(Safety Plug)
10. TOOH w/ tbg @ 1350'; gel hole @ 1350' to 1170'
11. TOOH w/ tbg @ 1170'; Set 100' C1A Cement Plug @ 1170' to 1070'(Elevation @ 1170')
12. TOOH w/ tbg @ 1070'; gel hole @ 1070' to 600'
13. TOOH w/ tbg @ 600'; Set 100' C1A Cement Plug @ 600' to 500' (Safety Plug)
14. TOOH w/ tbg @ 500'; gel hole @ 500' to 269'.
15. TOOH w/ tbg @ 269'; Set 269' C1A Cement Plug @ 269' to Surface (8 5/8" @ 219')
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications

10-2-15

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WR-35

16-Aug-94
API # 47- 13-04244
156561

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DEC 20 1994

Permitting
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: CAIN, FRANCIS ETAL Operator Well No.: HARDMAN #5A-910

LOCATION: Elevation: 1,170.00 Quadrangle: ANNAMORIAH

District: LEE County: CALHOUN
Latitude: 4570 Feet South of 38 Deg. 55 Min. 0 Sec.
Longitude: 10330 Feet West of 81 Deg. 10 Min. 0 Sec.

Company: WACO OIL & GAS CO., INC.
1297 N. LEWIS ST.
GLENVILLE, WV 26351-0000

Agent: STEPHEN E. HOLLOWAY

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	219'	219'	C.T.S.
4-1/2"		2,699'	225 Sks.

INSPECTOR: DEO MACE
Permit Issued: 08/15/94
Well work commenced: 10/27/94
Well Work completed: 10/30/94
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2,853'
Fresh water depths (ft) NONE REPORTED
Salt water depths (ft) 1,980'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): NONE

OPEN FLOW DATA

Producing formation BEREA Pay zone depth (ft) SEE TREATMENT
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 291 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static Rock pressure 170 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 STIMULATION, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

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Daniel R. Chapman

For: WACO OIL AND GAS COMPANY, INC.

By: Daniel R. Chapman, Geologist

Date: December 9, 1994

Annamoriah 8

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CAL-4244

1st Stage: Berea (2600-04) 500 gal 15% HCL, 50,000# 20/40, 90 mcf N_2, 560 bbl H_2O

Sand, Shale	0	256	1" Stream @ 1980'
Sand, Shale, Red Rock	256	1630	
Sand, Shale	1630	2063	
Little Lime	2063	2079	
Shale	2079	2097	
Big Lime	2097	2152	
Big Injun	2152	2237	
Sand, Shale	2237	2596	
Berea	2596	2628	
Shale	2628	2853	T. D.

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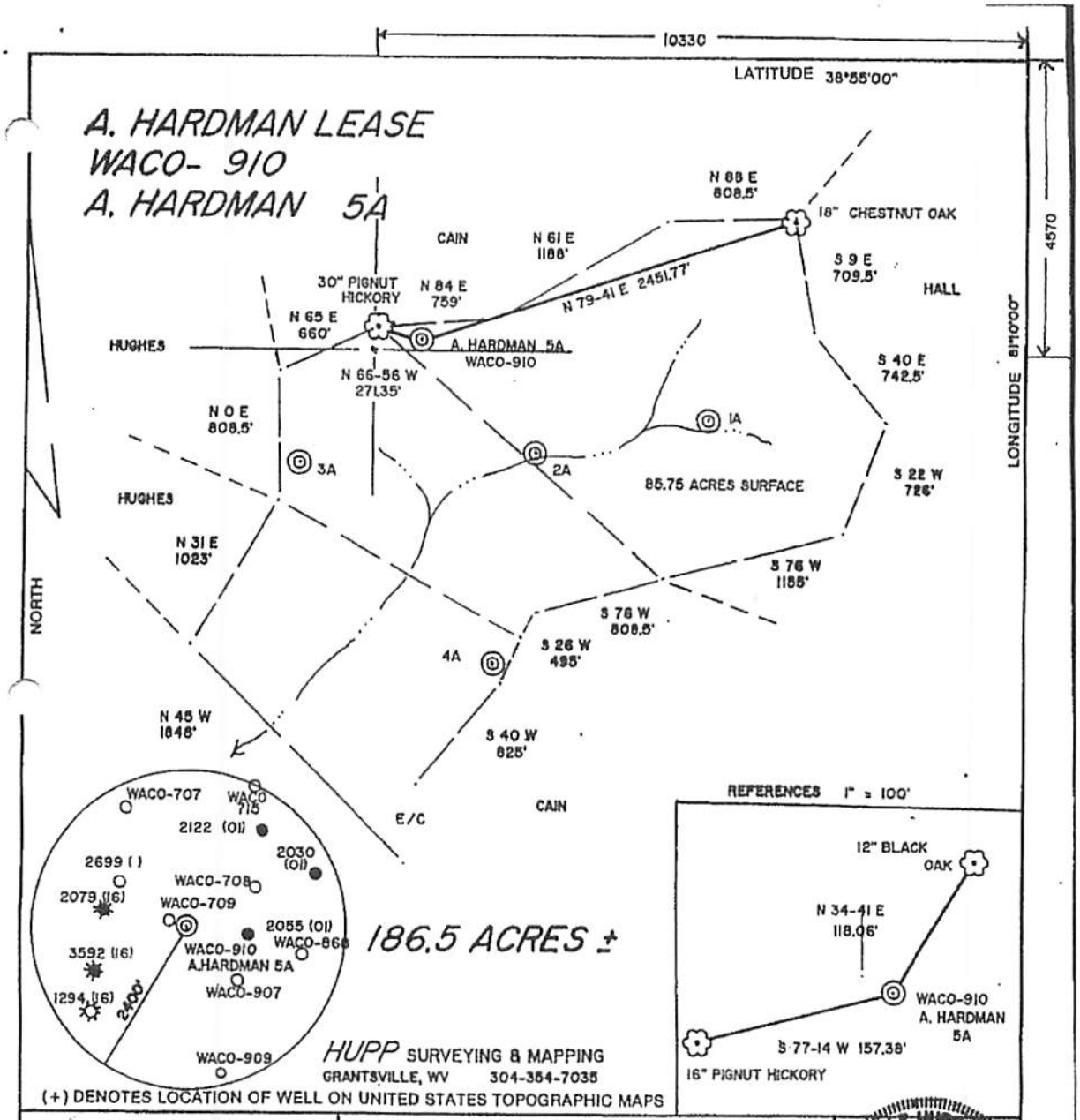

HUPP SURVEYING & MAPPING
GRANTSVILLE, WV 304-354-7035

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. W360 WI-76
DRAWING NO.
SCALE 1" = 800'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION INT. OF TRAILS ELEV. 1212'

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 ENERGY.

(SIGNED) Doyle Hupp Jr.
R.P.E. L.L.S. 834

DOYLE HUPP JR. LICENSED No. 834 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE JULY 20, 19 94
OPERATOR'S WELL NO. WACO-910
API WELL NO. A. HARDMAN 5A
47 - 013 - 4244
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1212 WATER SHED HARDMAN FORK
DISTRICT LEE COUNTY CALHOUN
QUADRANGLE ANNAMORIAH 7.5'
SURFACE OWNER FRANCIS CAIN, ET AL ACREAGE 85.75
OIL & GAS ROYALTY OWNER BEVERLY JEAN POLLACK, ET AL LEASE ACREAGE 186.5
LEASE NO.
PROPOSED WORK: DRILL X 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 BEREA ESTIMATED DEPTH 2700'
WELL OPERATOR WACO OIL & GAS CO., INC. DESIGNATED AGENT STEPHEN E. HOLLOWAY
ADDRESS P.O. BOX 397 GLENVILLE, WV 26351 ADDRESS P.O. BOX 397 GLENVILLE, WV 26351

COUNTY NAME
PERMIT

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WW-4-A
Revised 6/07

1) Date: September 21, 2015
2) Operator's Well Number
156561 (Hardman 5A-W910)
3) API Well No.: 47 013 - 04244
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: Cain Family Farm LLC
Address: 5945 Little Kanwha Highway
Big Bend, WV 26136

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Joe Taylor
Address: 1478 Claylick Road
Ripley WV. 25271
Telephone: (304) 380-7469

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

(b) Coal Owner(s) with Declaration
Name: See Attachment
Address:

Name:
Address:

(c) Coal Lessee with Declaration
Name: None
Address:

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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

Well Operator: **EQT Production Company**
By: **Victoria J.Roark**
Its: **Permitting Supervisor**
Address: **PO Box 280**
Bridgeport, WV 26330
Telephone: **(304) 848-0076**

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SEP 28 2015
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Subscribed and sworn before me this 22nd day of September, 2015
Notary Public
My Commission Expires: 2/20/18

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.

1304244P

WW2-A

Additional Coal Owners

Shelly L. DeMarino
P.O. Box 446
Glenville, WV. 26351-0446

Julia B. Baysinger
173 Columbus St.
Sebastian FL. 32958-4013

Barbara Bonasso
1275 Bell Run Rd.
Fairmont, WV. 26554-1467

Donmar Enterprises Inc.
Attn. Don Hoylman
P.O. Box 1478
Fairmont, WV. 26555-1478

Barbara E. Nichols
207 Beauty Street
Spencer, WV. 25276-1801

Kathryn S. Sayre
1700 Ocean Drive, #204V
Vero Beach, Fl. 32963-5208

Leonard & Eleanor Simmons
30 Greenview Drive
Fairmont, WV. 26554-1200

Melanie S. Smith
1681 Oak Crest Court
Marietta, GA. 30066-4187

Natalie Smith
9460 Reading Road
Cincinnati, OH. 45215-3420

Carolyn J. Taylor
608 Grandview Drive
Spencer, WV. 25275-1105

Anita Tuason
2340 Cascade Avenue NW
East Wenatchee, WA. 98802

John C. Westfall
P.O Box 700
Glenville, WV. 26351-0700

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EQT Production Company Waiver
EQT Plaza
625 Liberty Avenue
Suite 1700
Pittsburgh, PA. 15222

Kate R. Blosser
7323 State Route 160
Bidwell, OH. 45614-9403

Rebecca Elberfeld Hoge
P.O. Box 114
New Knoxville, OH. 45871-0114

Varda Oil and Gas Inc.
3557 Ripley Road
Spencer, WV. 25276

David L. Sayre
#6 Brittany Woods
Charleston, WV. 25314

Diana J. Thaxton
P.O. Box 11469
Charleston, WV. 25339-1469

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Operator's Well Number: **156561 (Hardman 5A-W910)**

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The well operator named on the attached page WW-4(B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inpsector is notified. Which date shall not be less than five days after the dat on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of OII & Gas

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on the obverse side of this applicaiton

Note: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned operator _____/ owner_____/ lessee_____ of the coal under this well location has examined this proposed plugging work order. The undersigned has not no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 9.22-15

By: _____
Its: EQT Production Regional Land Director

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1304244P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
156561 (Hardman 5A-W910)
3) API Well No.: 47 013 - 04244

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: Hardman Fork Quadrangle: Annamoriah 7.5'

Elevation: 1104 ft. County: Calhoun District: Lee

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 mil~~ 20 mil

Proposed Disposal Method for Treated Pit Wastes:

X 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 ____

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 22nd day of September, 2015

Misty S. Christie Notary Public

My Commission Expires 2/20/18

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

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OPERATOR'S WELL NO.:
156561 (Hardman 5A-W910)

LEGEND

Property Boundary

Diversion

Spring

Wet Spot

Road

Planned Fence

Drain Pipe with size in inches

Water Way

Existing Fence

Stream

Cross Drain

Open Ditch

Artificial Filter Strip

Rock

North

N

Building

Water well

Drill site

Pit with Cut Walls

Pit with Compacted Walls

Area of Land Application of Pit Waste

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

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

Seed Type	lbs/acre
Red Fescue	40
Alsike Clover	5
Annual Rye	15

Area II

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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: Sediment control to be in place at all times.

Title: OOG Inspector Date: 10-2-15

Field Reviewed? _____ Yes X No

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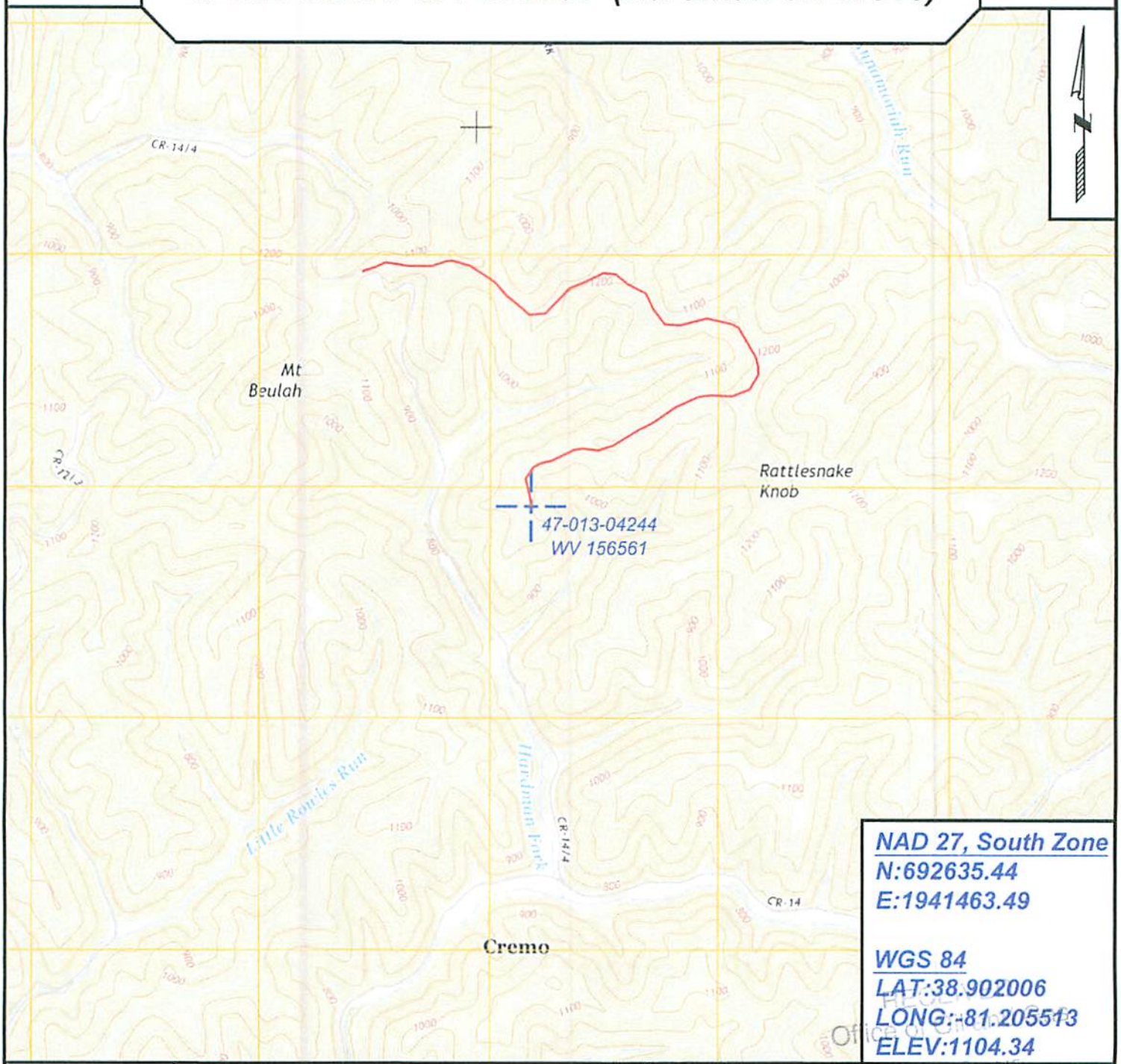
Topo Quad:	Annamoriah 7.5'	**Scale:**	1" = 2000'
County:	Calhoun	**Date:**	August 28, 2015
District:	Lee	**Project No:**	178-28-00-15

47-013-04244 WV 156561 (Hardman 5A-W910)

Topo



NAD 27, South Zone
N:692635.44
E:1941463.49

WGS 84
LAT:38.902006
LONG:-81.205513
ELEV:1104.34

Office of Oil & Gas
SEP 23 2015
WV Dept. of Environmental Protection

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:

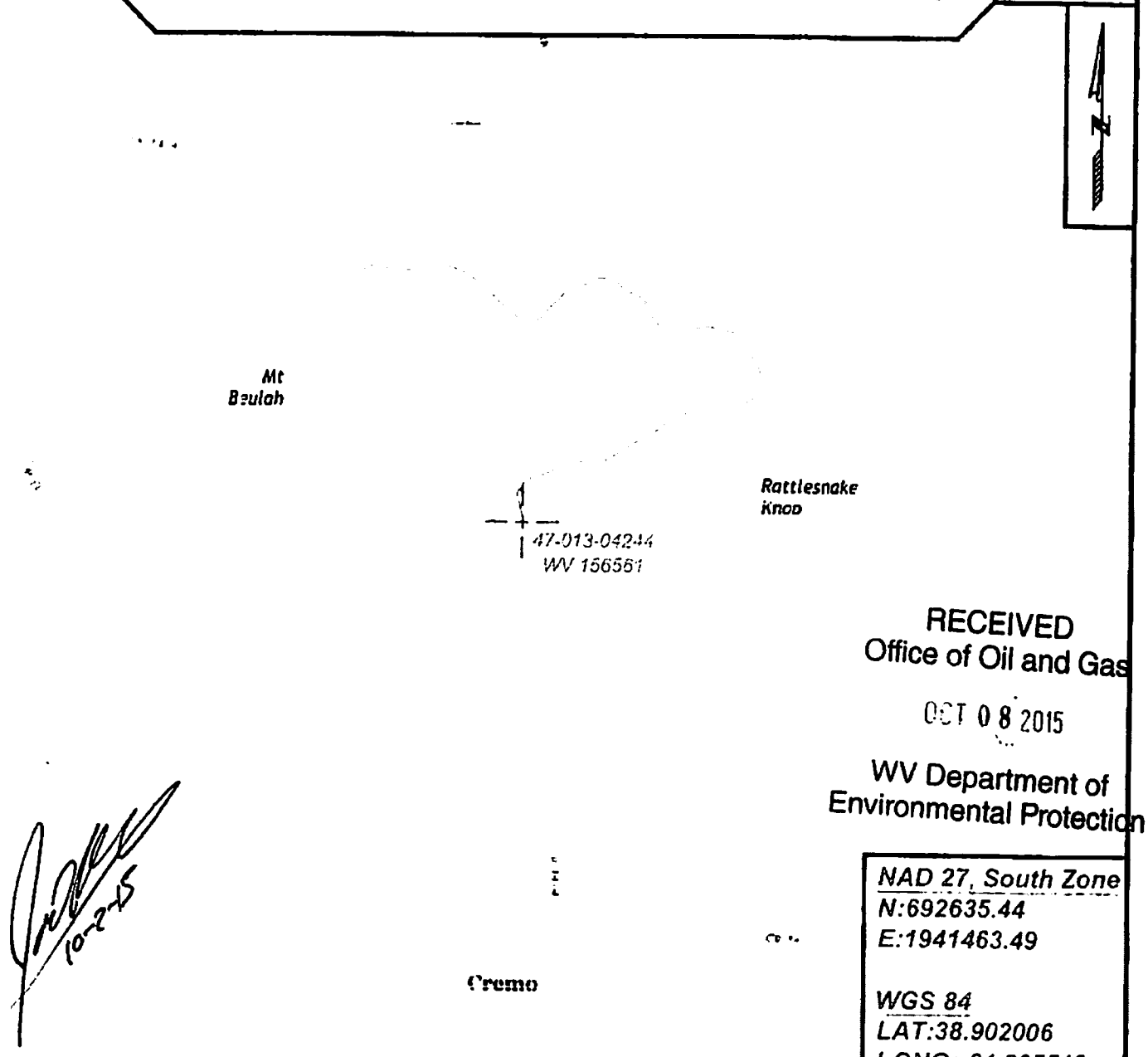
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330

1304244P

Topo Quad:	Annamoriah 7.5'	Scale:	1" = 2000'
County:	Calhoun	Date:	August 28, 2015
District:	Lee	Project No:	178-28-00-15

47-013-04244 WV 156561 (Hardman 5A-W910)

Topo



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Environmental Protection

10-2-15

NAD 27, South Zone
N:692635.44
E:1941463.49

WGS 84
LAT:38.902006
LONG:-81.205513
ELEV:1104.34

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) 649-8609

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

1304244P

WW-7
8-30-06

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

API: 47-013-04244 **WELL NO.:** WV 156561 (Hardman 5A-W910)

FARM NAME: Francis Cain, et al.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Calhoun **DISTRICT:** Lee

QUADRANGLE: Annamoriah 7.5'

SURFACE OWNER: Cain Family Farm LLC

ROYALTY OWNER: Shelly DeMarino, et al.

UTM GPS NORTHING: 4305922

UTM GPS EASTING: 482179 **GPS ELEVATION:** 336 m (1104 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 South, 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.

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SEP 23 2015
WV Department of
Environmental Protection

Stacy Oburn — Signature
PS # 2180 — Title
9/1/15 — Date

1304244P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY.
LEASE NAME AND WELL No. Hardman 5A-W910 - WV 156561 - API No. 47-013-04244.

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 156561.

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Office of Oil and Gas
SEP 2 3 2015
WV Department of
Environmental Protection

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

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

RANSON OFFICE
401 South Fairfax Blvd, Suite 3
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5010

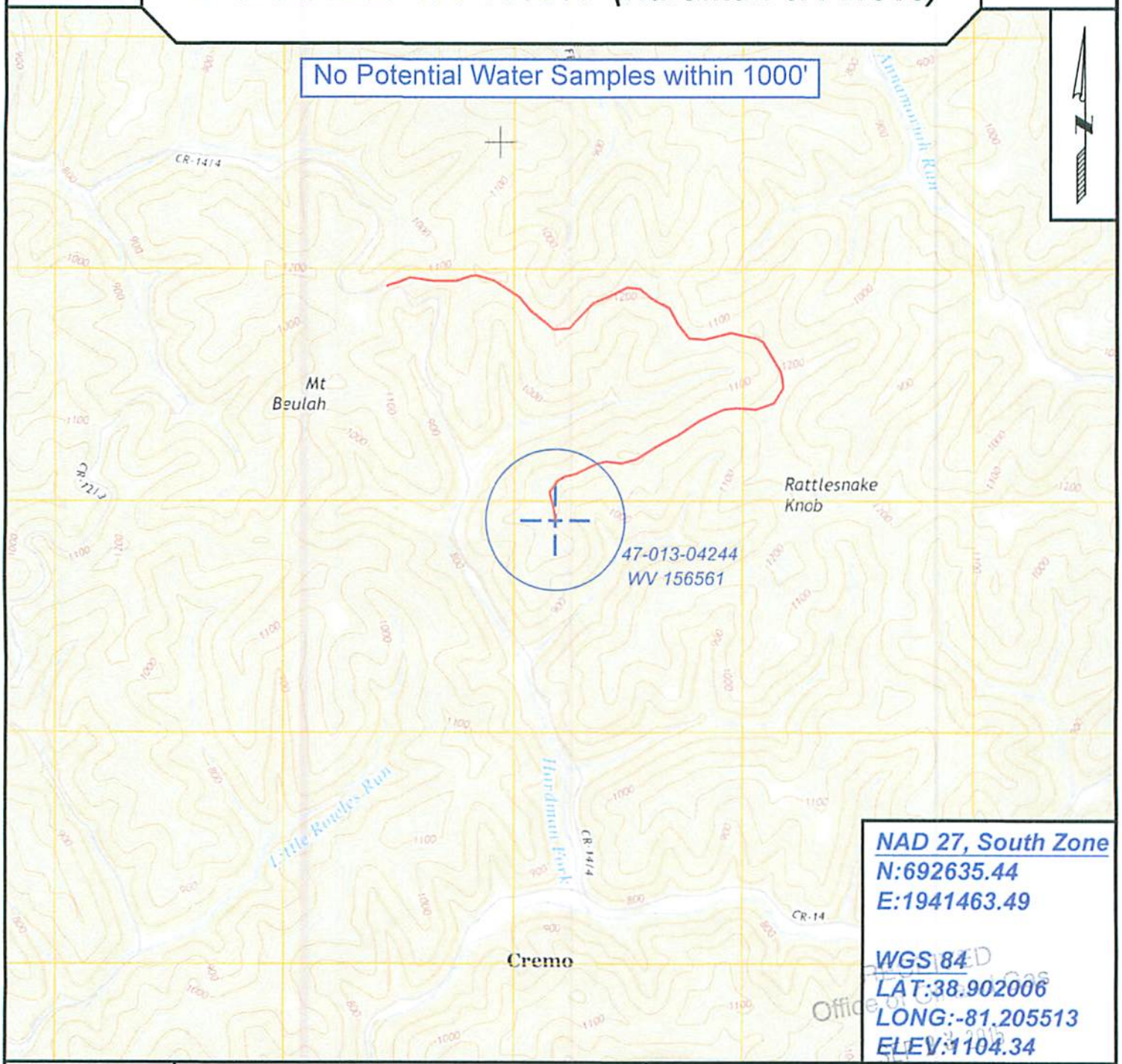
ALLEGHENYSURVEYS.COM

1304244P

Topo Quad:	Annamoriah 7.5'	**Scale:**	1" = 2000'
County:	Calhoun	**Date:**	August 28, 2015
District:	Lee	**Project No:**	178-28-00-15

Water

47-013-04244 WV 156561 (Hardman 5A-W910)



NAD 27, South Zone
N:692635.44
E:1941463.49

WGS 84
LAT:38.902006
LONG:-81.205513
ELEV:1104.34

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WV Department of Environmental Protection

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