



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 04, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2103130, 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: 1204

Farm Name: SMITH, C.

API Well Number: 47-2103130

Permit Type: Plugging

Date Issued: 04/04/2016

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.

~~210310P~~
2103130P

PLUGGING PROGNOSIS

Smith #1204
654966
District, ????
Gilmer, WV
API # 47-021-03130
BY: R. Green
DATE: 2/11/16

CURRENT STATUS:

TD@ 2021'

Elevation @ not surveyed yet.

*Limited records on this well (please see step #12 below).

Freshwater, @ No Records
Saltwater @ No record
Gas shows @ No records
Oil shows @ No Records
Coal @ No Records

1. Notify state inspector, Danny Mullins, 304-932-6844, 24 hrs. prior to commencing operations.
2. RIH wireline, check TD and find bottom of 6 5/8" casing.
3. RIH tbg to 2000', set 300' C1A cement plug, 2000' to 1700'. WOC 4hrs, Tag TOC, add additional C1A cement if necessary.
4. TOOH tbg to 1700', gel hole 1700' to 1400', TOOH tbg.
5. Free point 7" casing, cut casing at free point, TOOH casing.
6. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
7. TOOH tbg to top of casing cut plug. Gel hole to next plug.
8. TOOH tbg to 1000', set 500' C1A cement plug 1000' to 500'
9. TOOH tbg to 500', set 500' C1A cement plug 500' to surface..
10. Erect monument with API#, date plugged, company name, and company 6 digit ID #.
11. Reclaim location, road to WV-DEP specifications.
12. Note, Limited records for this well, if other casings strings are found to be present in well, plugging procedures will be adjusted accordingly to remove casings and plug well to WV-DEP rules and regulations.

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Office of Oil & Gas
MAR 14 2016

04/08/2016



Historical Well Chronology

47-021-03130

Where energy meets innovation.

Well Name: 654966 SMITH 1204

API 470210313000	Enerlia Well # 654966	PUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State WV
Orig KB Elev...	Spud Date 10/18/1923	Planned Well Geometry	Well Type Conventional	Loc Stat from LM	Area	County Gilmer, WV	Quad	

Job Category: Completion/Workover, Job Start Date: 7/15/2008

Job Category Completion/Workover	AFE Number	Start Date 7/15/2008	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
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Summary

Report #: 1.0 DFS: 30952.25 Rigs: <Rig?> Job Category: Completion/Workover

Report End Date 7/15/2008 06:00	Operations at Report Time Swabbing	Last Casing String
------------------------------------	---------------------------------------	--------------------

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

Operations Summary
On 7/15: Energy Contractors swabbed 8bbl wtr.

Daily - \$1001.32

Report #: 2.0 DFS: 30953.25 Rigs: <Rig?> Job Category: Completion/Workover

Report End Date 7/16/2008 06:00	Operations at Report Time Swabbing	Last Casing String
------------------------------------	---------------------------------------	--------------------

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

Operations Summary
On 7/16: Energy Contractors swabbed 13bbl wtr.

Daily - \$525.68

Report #: 3.0 DFS: 30954.25 Rigs: <Rig?> Job Category: Completion/Workover

Report End Date 7/17/2008 06:00	Operations at Report Time	Last Casing String
------------------------------------	---------------------------	--------------------

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

Operations Summary

Job Category: Completion/Workover, Job Start Date: 4/26/2013

Job Category Completion/Workover	AFE Number	Start Date 4/26/2013	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
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Summary

Report #: 1.0 DFS: 32698.00 Rigs: <Rig?> Job Category: Completion/Workover

Report End Date 4/26/2013 00:00	Operations at Report Time Swabbing	Last Casing String
------------------------------------	---------------------------------------	--------------------

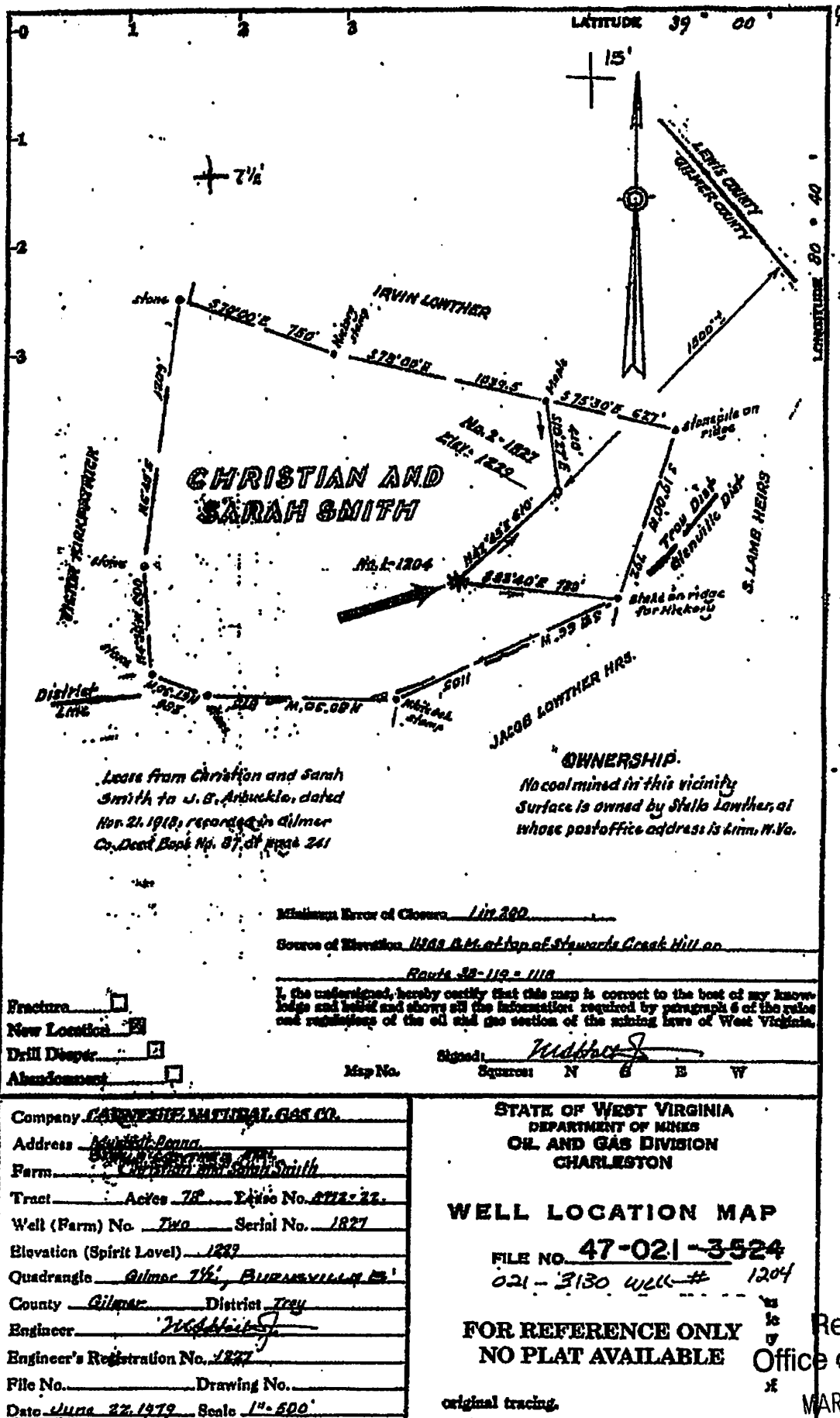
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
770.00	770.00	0.0	0.0			

Operations Summary
On 4/26: MIRU Syrews Rig 4 RIH w/ 7tools to ck TD @ 2021 swab FL @ 1500 made 40 runs, Swabbed to 1832 Bott Perf @ OPEN HOLE Rec'd 0 bbl oil, 20 bbl wtr. TBIL. RDMO. Swab to bottom of pipe @ 1832' then ball to Td @ 2021 used tank truck

LOE

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Office of Oil & Gas

MAR 14 2016



CHRISTIAN AND SARAH SMITH

Lease from Christian and Sarah Smith to J. B. Arbuckle, dated Nov. 21, 1910, recorded in Gilmer Co. Deed Book No. 87, at page 241

OWNERSHIP.
No coal mined in this vicinity
Surface is owned by Stella Lowther, at whose postoffice address is Linn, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation 1148 A.M. at top of Stewards Creek Hill on

Range 32-112 = 1118

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Fracture
New Location
Drill Depth
Abandonment

Map No.

Signed: W. H. H. J.
Squares: N E W

Company CARNEGIE NATURAL GAS CO.
Address Market Place
Farm Christian and Sarah Smith
Tract Acres 78 Tract No. 212-22
Well (Farm) No. Two Serial No. 1827
Elevation (Spirit Level) 1227
Quadrangle Gilmer 7 1/2, Burnsville 15
County Gilmer District Tray
Engineer W. H. H. J.
Engineer's Registration No. 1827
File No. _____ Drawing No. _____
Date June 22, 1919 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 47-021-3524
021-3130 Well # 1204

FOR REFERENCE ONLY
NO PLAT AVAILABLE

original tracing.

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Office of Oil & Gas
MAR 14 2016

Benson 5300'

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

Date: March 8, 2016
Operator's Well _____
Well No. 654966 (Smith #1204)
API Well No.: 47 021 - 03130

*CX # 20422
400.00*

**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: 1204 ft. Watershed: Leading Creek
Location: Troy County: Gilmer Quadrangle: Gilmer 7.5'
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 Danny Mullins
Name: 220 Jackacres Road
Address: Buckhannon, WV 26201

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 _____

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Office of Oil & Gas
MAR 14 2016**

04/08/2016

WW-4-A
Revised 6/07

1) Date: March 8, 2016
2) Operator's Well Number
654966 (Smith #1204)
3) API Well No.: 47 021 - 03130
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:	5) (a) Coal Operator:
(a) Name <u>Kenneth Lee Chambers</u>	Name <u>None</u>
Address <u>81 4 Mile Hollow Road</u>	Address _____
<u>Hernshaw, WV 25107</u>	_____
(b) Name <u>Antonio and Anneliese Medeiros</u>	(b) Coal Owner(s) with Declaration
Address <u>297 Right Ellis Road</u>	Name <u>Adah Lemley Nutter</u>
<u>Linn, WV 25384-8126</u>	Address <u>14261 Point Reyes Street</u>
_____	<u>Fontana, CA 92335</u>
(c) Name _____	Name <u>Jack Lowther</u>
Address _____	Address <u>426 Big Lick Road</u>
_____	<u>Linn, WV 25384-8126</u>
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jackacres Road</u>	Name <u>None</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>(304) 932-6844</u>	_____
_____	_____

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.

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

Subscribed and sworn before me this 8th day of March, 2016

Misty S. Christie 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 a question about our use of your personal information, please contact DEP's Chief Privacy Officer at privacyofficer@wv.gov.



Office of Oil & Gas
MAR 14 2016
04/08/2016

**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: Leading Creek Quadrangle: Gilmer 7.5'

Elevation: 1204 ft. County: Gilmer District: Troy

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 9th day of March, 2016

Misty S. Christie

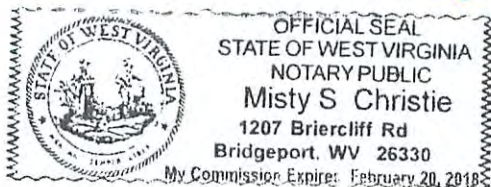
Notary Public

My Commission Expires 2/20/18

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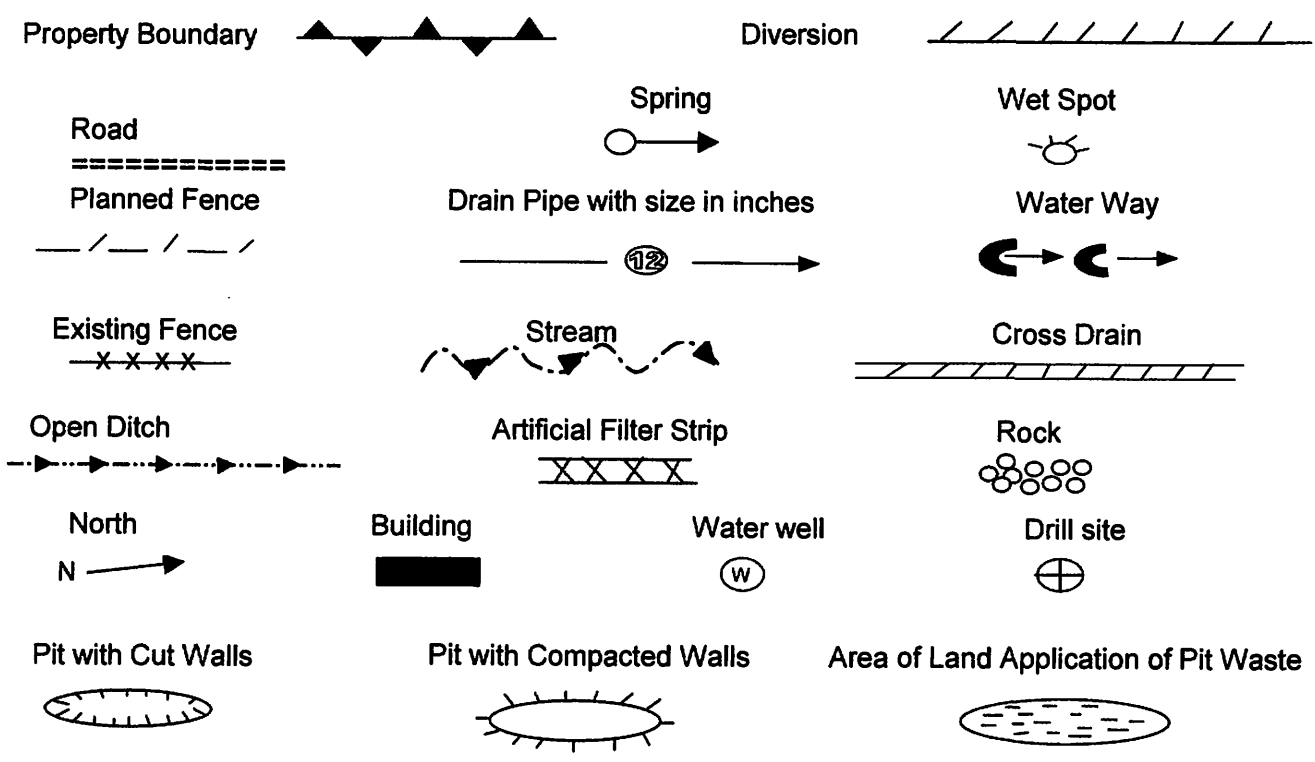
MAR 14 2016

04/08/2016



OPERATOR'S WELL NO.:
654966 (Smith #1204)

LEGEND



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		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	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: _____

Comments: _____

Title: _____ Date: _____
Field Reviewed? Yes No

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Office of Oil & Gas
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04/08/2016

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

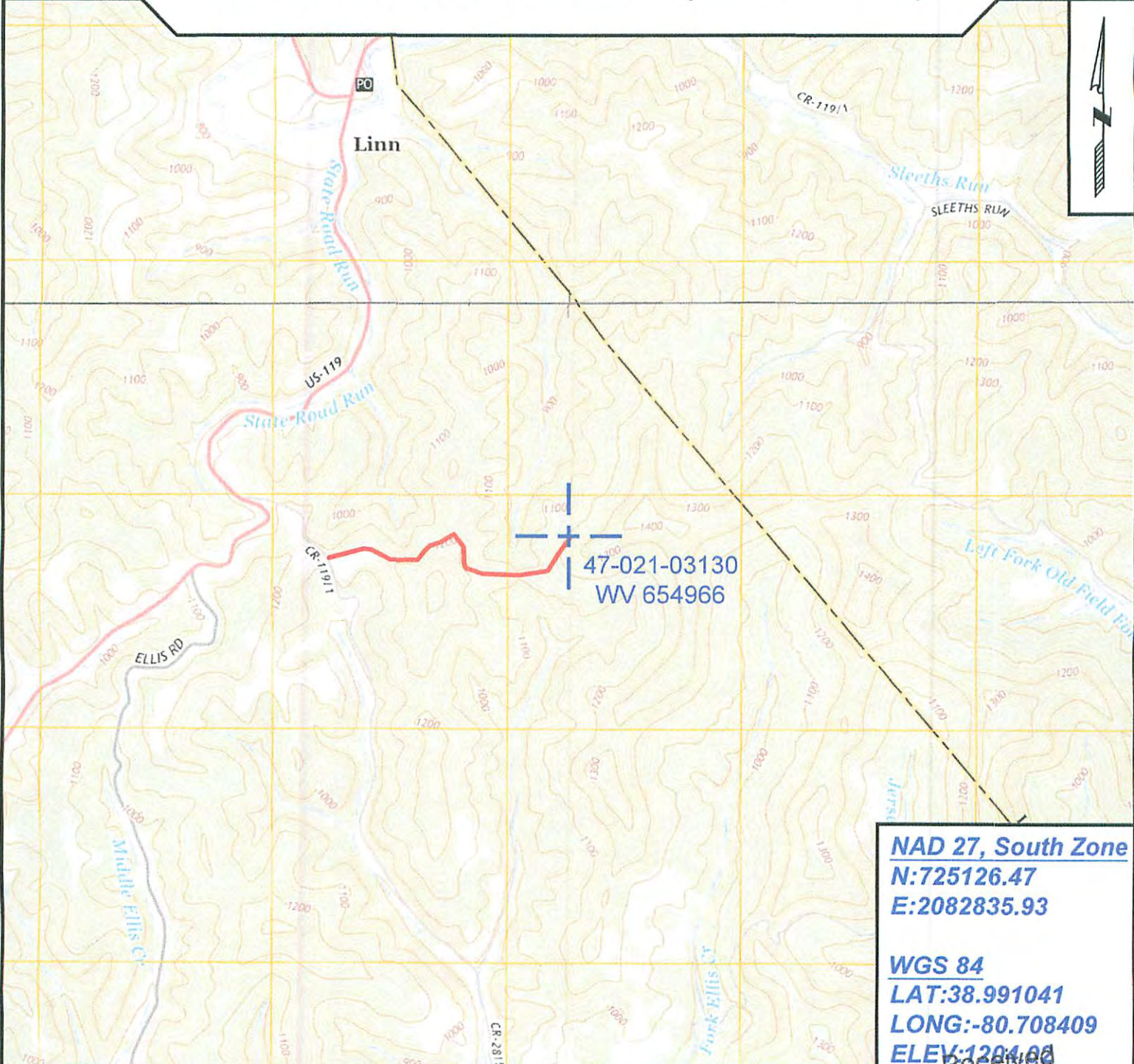
Date: February 26, 2016

District: Troy

Project No: 25-19-00-07

47-021-03130 WV 654966 (Smith #1204)

Topo



47-021-03130
WV 654966

NAD 27, South Zone
N:725126.47
E:2082835.93

WGS 84
LAT:38.991041
LONG:-80.708409
ELEV:1204.00



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
 Office of Oil & Gas
 P.O. Box 280
 Bridgeport, WV 26330
 04/08/2016

WW-7
8-30-06



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

API: 47-021-03130 WELL NO.: WV 654966 (Smith #1204)

FARM NAME: C. Smith

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Troy

QUADRANGLE: Gilmer 7.5'

SURFACE OWNER: Kenneth Lee Chambers, et al.

ROYALTY OWNER: Regina Cain, et al.

UTM GPS NORTHING: 4315823

UTM GPS EASTING: 525253 GPS ELEVATION: 367 m (1204 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
Office of Oil & Gas

MAR 14 2016

Steph Oborn
Signature

PS# 2180
Title

3/2/16
Date

04/08/2016



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Smith #1204 - WV 654966 - API No. 47-021-03130

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 654966.

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Office of Oil & Gas

MAR 14 2016

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

MARTINSBURG OFFICE

25 Lights Addition Drive
Martinsburg, WV 25404
phone: 304-901-2162
fax: 304-901-2182

04/08/2016

2/03/2016

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: February 26, 2016

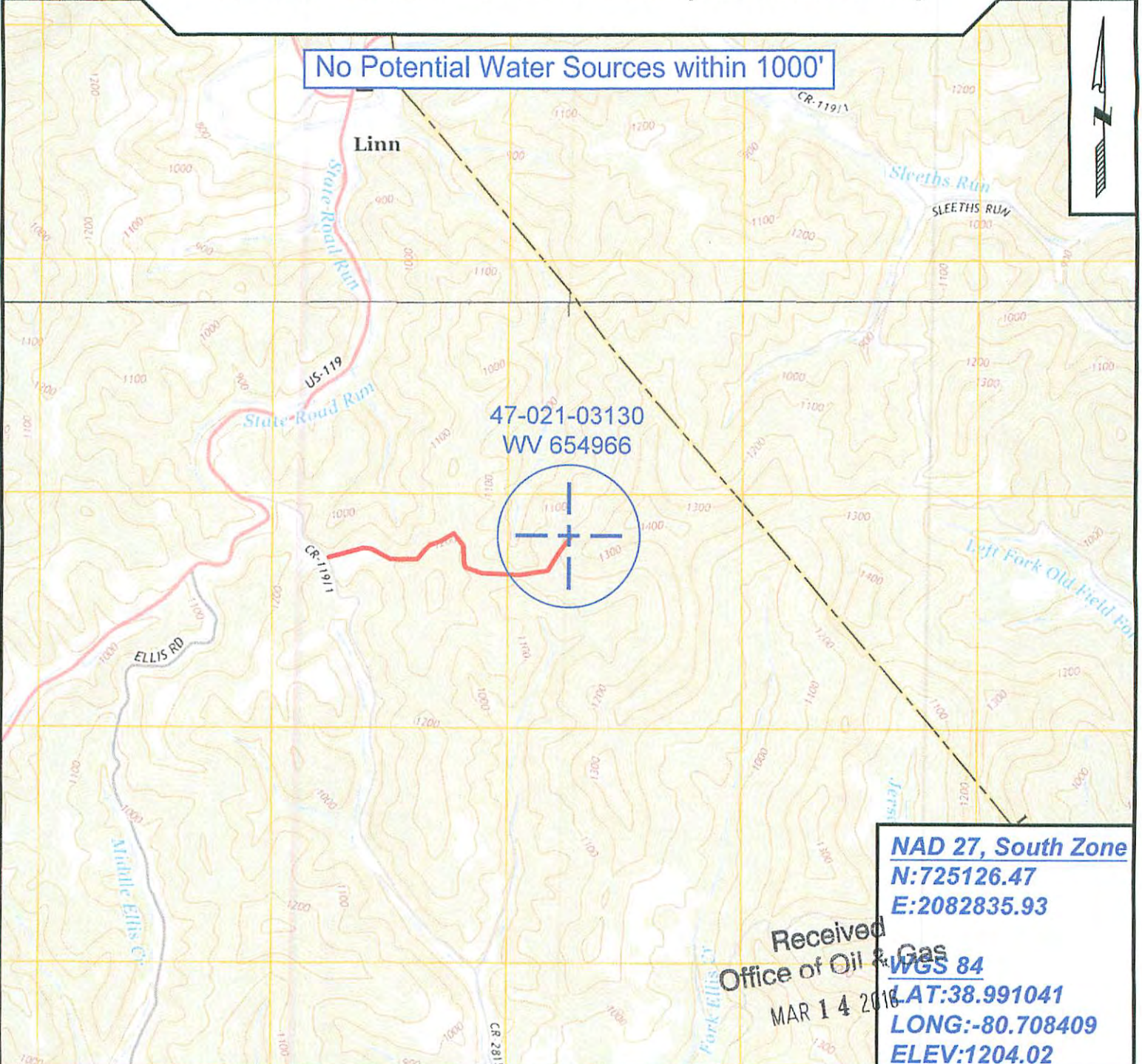
District: Troy

Project No: 25-19-00-07

Water

47-021-03130 WV 654966 (Smith #1204)

No Potential Water Sources within 1000'



47-021-03130
WV 654966

NAD 27, South Zone
N:725126.47
E:2082835.93
WGS 84
LAT:38.991041
LONG:-80.708409
ELEV:1204.02

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PREPARED FOR:
EQT Production Company
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 Bridgeport, WV 26330
04/08/2016