



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 22, 2014

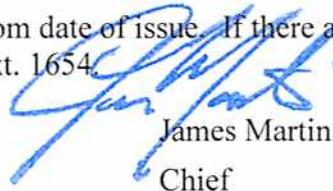
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2101396, 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: 160071 (STEINBECK # 6)

Farm Name: STEINBECK HEIRS

API Well Number: 47-2101396

Permit Type: Plugging

Date Issued: 04/22/2014

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. 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.

Date: 3-17-14
Operator's Well _____
Well No. 160071 (Steinbeck #6)
API Well No.: 47 021 - 01396

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: 1132' Watershed: Mudlick Run of Tanner Creek of Little Kanawha River
Location: Troy County: Gilmer Quadrangle: Gilmer 7.5'
District: _____
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil & Gas Bryan Harris 9) Plugging Contractor:
Name: P.O. Box 157 Name: HydroCarbon Well Service
Address: Volga, WV 26238 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 4-9-14

PLUGGING PROGNOSIS - Weston

Steinbeck Hrs. #6 (160071)

GILMER, County, WV
API # 47-021-01396
Troy District

BY: Craig Duckworth
DATE: 12/16/13

CURRENT STATUS:

10" csg @ 540'
8 1/4" csg @ 900' pulled
5 3/16" csg @ 1964' (85 sks cement)

TD @ 1964'

Elevation: 1050'

Fresh Water None Reported

Salt Water @ None Reported

1st Salt Sand @ 1150'

Coal @ 512'

Gas shows @ 870' Sand, 1410' 3rd Salt Sand, 1442' Sand, 1850' Kenner Sand, 1883' Injun Sand, 1892' Injun Sand

Oil Shows @ 680' Sand, 870' Sand, 1865' Big Lime

Stimulation: Fractured (Perfs. 1902'-1913')

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1902'; Set 200' C1A Cement Plug @ 1902' to 1702' (gas show @ 1892', 1882 Injun ; Oil Show @ 1865' Big Lime, gas show @ 1850' Kenner Sand)
3. TOOH w/ tbg, Free Point 5 3/16", cut 5 3/16" @ free point, TOOH w/ 5 3/16" csg
4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 5 3/16" cut. Do not omit any plugs.
5. TIH w/ tbg @ 1702; gel hole @ 1702' to 1442'.
6. TOOH w/ tbg @ 1442'; Set 132' C1A Cement Plug @ 1442' to 1310' (Gas Show @ 1442' Sand & 1410' 3rd. Salt Sand).
7. TOOH w/ tbg @ 1310; gel hole @ 1310' to 1150'.
8. TOOH w/ tbg @ 1150'; Set 150' C1A Cement Plug @ 1150' to 1000' (1st Salt Sand @ 1150' & Elevation @ 1050')
9. TOOH w/ tbg @ 1000'; gel hole @ 1000' to 870'
10. TOOH w/ tbg @ 870'; Set 100' C1A Cement Plug @ 870' to 770' (Oil & Gas Show @ 870')
11. TOOH w/ tbg @ 770'; gel hole @ 770' to 590' ^{680' csg}
12. TOOH w/ tbg @ 590'; Set ^{214'} C1A Cement Plug @ 590' to 462' (10" @ 540' & Coal @ 512') ^{Oil @ 680'}
13. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 10" cut. Do not omit any plugs.
14. TOOH w/ tbg @ 462'; gel hole @ 462' to 200'
15. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications

OK
9/11/14

Received

MAR 19 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION *b*

Quadrangle Glenville

WELL RECORD

Permit No. OIL-1396

Oil or Gas Well Gas

Company <u>Oilmer County Oil & Gas Properties</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>1514-23rd Street, Parkersburg, W. Va.</u>				
Farm <u>Steinbeck</u> Acres <u>590</u>	Size			
Location (waters) <u>Leading Creek</u>				
Well No. <u>6</u> Elev. <u>1050'</u>	16	10'	10'	Kind of Packer
District <u>Tracy</u> County <u>Oilmer</u>	15			
This surface of tract is owned in fee by <u>Steinbeck Heirs</u>	10	540'	540'	Size of <u>5-3/16</u>
Address <u>1212 Washington Ave. Parkersburg, W. Va.</u>	8 1/2	900'		Counted
Mineral rights are owned by <u>Steinbeck Heirs</u>	6 1/2			Depth set <u>1964'</u>
Address <u>1212 Washington Ave. Parkersburg, W. Va.</u>	5 3/16	196'	196'	
Drilling commenced <u>June 19, 1962</u>	3			Perf. top <u>1902'</u>
Drilling completed <u>July 18, 1962</u>	2			Perf. bottom <u>1908'</u>
Date Shot From To	Liners Used			Perf. <u>1913'</u>
With				Perf. bottom
Open Flow <u>23</u> /10ths Water in <u>009</u> Inch				
/10ths Merc. in _____ Inch				
Volume <u>20,000</u> Cu. Ft.				
Rock Pressure <u>250</u> lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
WELL ACIDIZED _____				
WELL FRACTURED <u>July 23, 1962</u>				
RESULT AFTER TREATMENT <u>500,000 cu. ft.</u>				
ROCK PRESSURE AFTER TREATMENT <u>425 lbs. - 24 hrs.</u>				
Fresh Water _____ Feet				
Salt Water _____ Feet				

CASING CEMENTED 5-3/16 INCH 85 Bags No. 7/18/62 Date

COAL WAS ENCOUNTERED AT 512' FEET 36 INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock	Red	soft	0	20			
Lime	Blue	hard	20	55			
Red Rock	Red	med.	55	65			
Slate	white	soft	65	105			
Sand	grey	med.	105	125			
Slate	white	med.	125	150			
Lime	white	hard	150	180			
Sand	white	hard	180	190			
Slate	white	soft	190	245			
Sand	white	hard	245	255			
Slate & Sh.	white	med	255	285			
Red Rock	red	soft	285	325			
Slate & Sh.	white	med.	325	340			
Pink Rock	Pink	soft	340	400			
Sand	grey	hard	400	430			
Slate	white	med.	430	440			
Red Rock	red	soft	440	450			
Lime	white	hard	450	480			
Sand	white	hard	480	512			
Coal	Black	soft	512	515			
Slate	Black	soft	515	530			
Lime	grey	hard	530	575			
Red Rock	Red	soft	575	590			
Slate	white	soft	590	600			
Lime	grey	hard	600	670			
Sand	white	med.	670	695			
Lime	white	hard	695	725			
Pink rock	pink	soft	725	740			
Slate & Sh.	white	med.	740	745			



011 680
Received

(over)

MAR 19 2014

GIL 1-23-62

Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime	gray	hard	745	770			
Slate & Sh.	white	med	770	815			
Sand	white	med.	815	855			
Slate & Sh.	white	med.	855	865			
Sand	gray	med.	865	885	Oil	870-80	show
Slate & Sh.	white	med.	885	950	Gas	870-80	bubble
Sand	gray	med.	950	1135			
Lime	black	hard	1135	11.50			
1st Salt S.	gray	med.	1150	1200			
Slate	black	soft	1200	1210			
2nd Salt S.	dark	med.	1210	1292			
Slate & Sh.	black	med.	1292	13.50			
Lime	gray	hard	1350	1400			
3rd Salt S.	white	hard	1400	1430	gas	1410-30	bubble
Slate & Sh.	black	med.	1430	1442			
Sand	dark	med.	1442	1505	Gas	1442-48	32/10 W. 1"
Slate & Sh.	black	med.	1505	1620			
Lime	gray	hard	1620	1635			
Slate	white	soft	1635	1645			
Lime	white	hard	1645	1670			
Red rock	red	med.	1670	1686			
Lime	dark	hard	1686	1690			
Red Rock	red	med.	1690	1700			
Slate & Sh.	white	med.	1700	1717			
Little Lime	dark	hard	1717	1734			
Slate Break	black	soft	1734	1735			
Big Lime	light	hard	1735	1745			
Slate	white	soft	1745	1750			
Big Lime	light	hard	1750	1754			
Slate	white	soft	1754	1760			
Big Lime	light	hard	1760	1835			
Slate	dark	soft	1835	1837			
Kenner Sand	light	hard	1837	1850	Gas	1850-53	bubble
Big Lime	dark	hard	1850	1858	Oil	1865-68	show
Injun Sand	white	hard	1858	1920	Gas	1883-87	bubble
Blue Fossom Sand	dark	med.	1920	1964	Gas	1892-1906	23/10 W. 1"
				1964 T.D.			

Received

Date: August 1, 1962
 GILMER COUNTY OIL & GAS PROPERTY
 APPROVED BY: [Signature] Owner
 By: MANAGER (Title)

MAR 19 2014

1) Date: 3-17-14
2) Operator's Well Number
160071 (Steinbeck #6)
3) API Well No.: 47 021 - 01396
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 Ernest L. Arbuckle Family Trust
Address Ernest L. Arbuckle Marital Trust
C/O Security National Trust Company
1300 Chapline St.
Wheeling, WV 26003
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Bryan Harris
Address P.O. Box 157
Volga, WV 26238
Telephone 304-553-6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Unknown
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.

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

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

Subscribed and sworn before me this 17 day of MARCH, 2014
My Commission Expires: 6/27/2018
Notary Public

received

2101396A

FIRST-CLASS MAIL
\$07.40
03/17/2014
ZIP 26330
0411L10228892

CERTIFIED MAIL™



7013 2630 0001 4239 3710
7013 2630 0001 4239 3710

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Po		

Sent To: Ernest L. Arbuckle Family Trust
Ernest L. Arbuckle Marital Trust
C/O Security National Trust Company
1300 Chapline St.
Wheeling, WV 26003
160071 plugging

PS Form 3800, August 2006 See Reverse for Instructions

Ernest L. Arbuckle Family Trust
Ernest L. Arbuckle Marital Trust
C/O Security National Trust Company
1300 Chapline St.
Wheeling, WV 26003
160071 plugging

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee

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 7013 2630 0001 4239 3710
(Transfer from service label)
PS Form 3811, July 2013 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
Ernest L. Arbuckle Family Trust
Ernest L. Arbuckle Marital Trust
C/O Security National Trust Company
1300 Chapline St.
Wheeling, WV 26003
160071 plugging

■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
■ Print your name and address on the reverse so that we can return the card to you.
■ Attach this card to the back of the mailpiece, or on the front if space permits.

Received

MAR 19 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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: Mudlick Run of Tanner Creek of Little Kanawha River Quadrangle: Gilmer 7.5'
Elevation: 1132' 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.? 30 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.

Received

Company Official Signature *Victoria Roark* MAR 19 2014

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV Office of Oil and Gas
WV Dept. of Environmental Protection

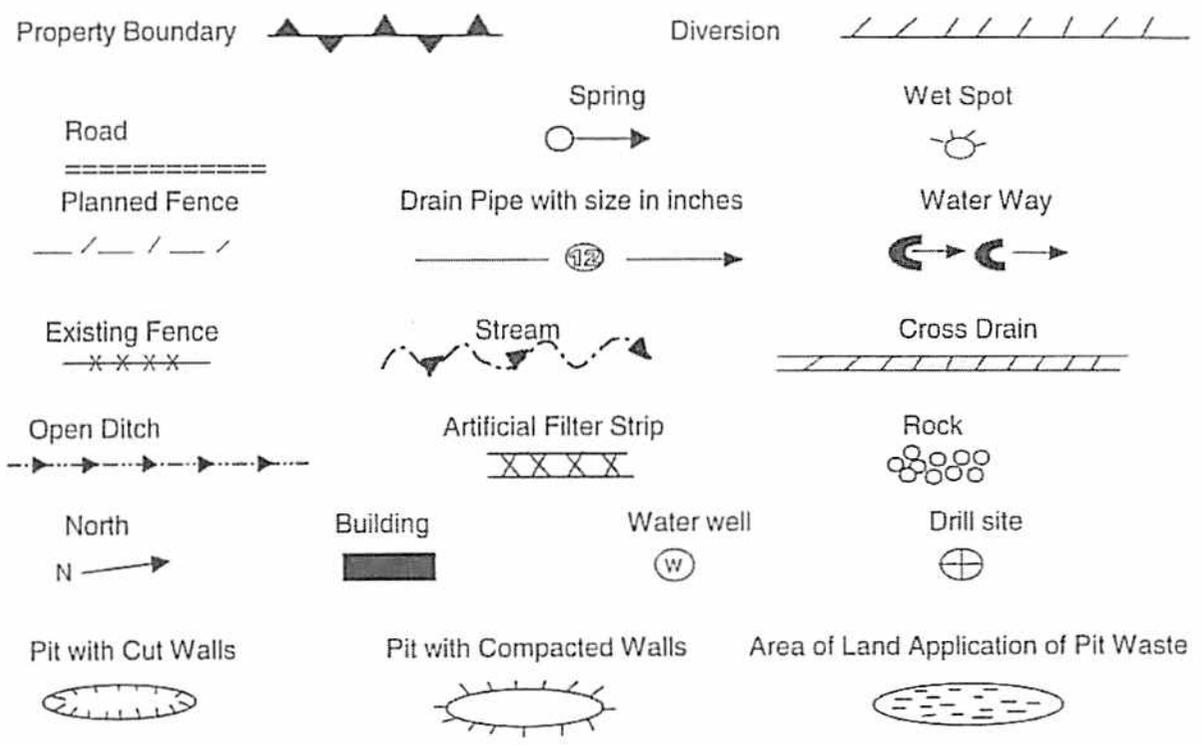
Subscribed and sworn before me this 17 day of MARCH, 2014

My Commission Expires 6/27/2018



OPERATOR'S WELL NO.:
160071 (Steinbeck #6)

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: *Raymond O'Hara*

Comments: _____

Title: Inspector Date: 4-9-14
Field Reviewed? Yes No

2101396A

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

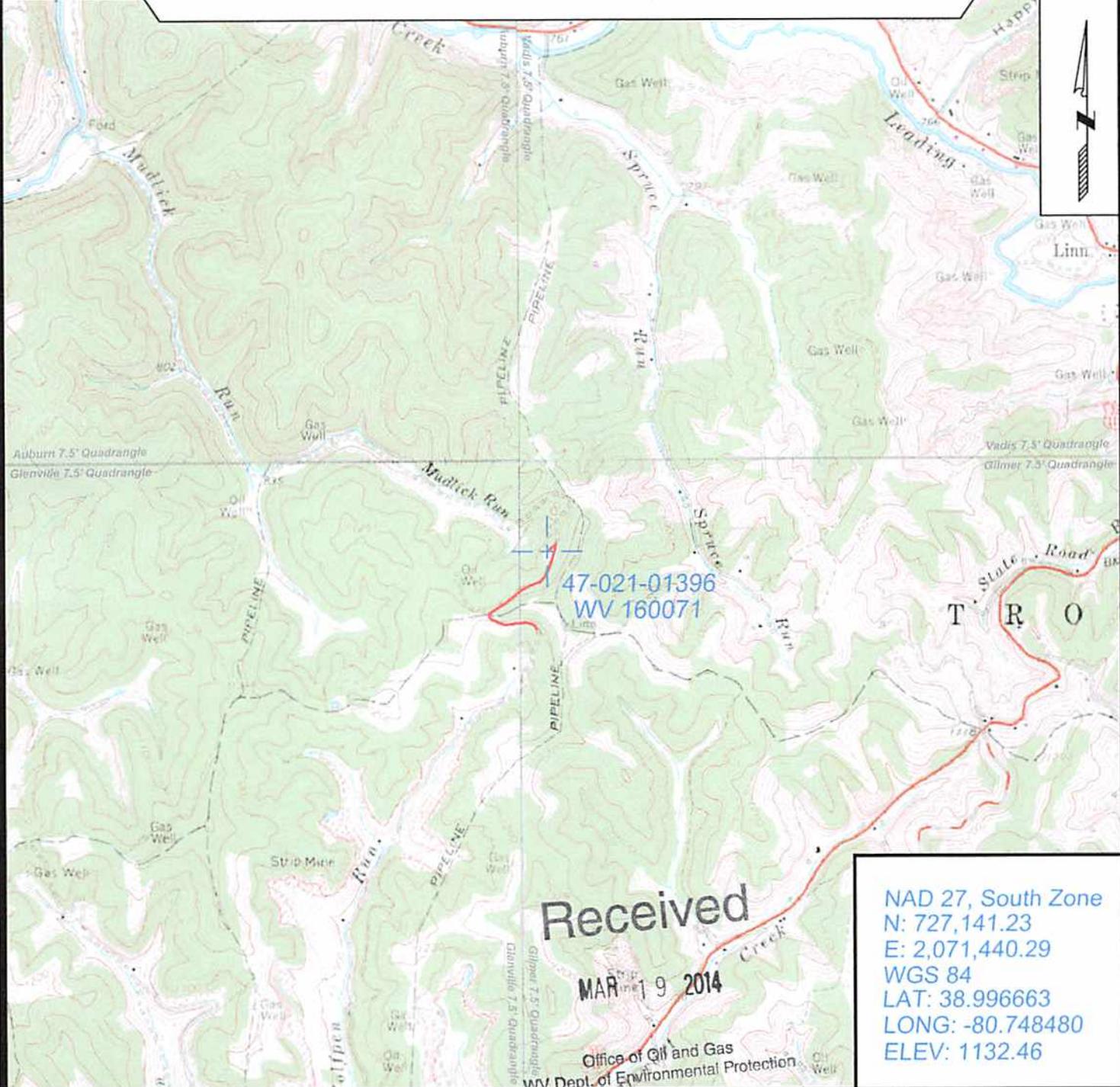
Date: February 27, 2014

District: Troy

Project No: 25-19-00-07

47-021-01396 WV 160071 (Steinbeck # 6)

Topo



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

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

Date: 3-17-14
Operator's Well
Well No. 160071 (Steinbeck #6)
API Well No.: 47 021 - 01396

*CK 172B
10000*

**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: 1132' Watershed: Mudlick Run of Tanner Creek of Little Kanawha River
Location: Troy 4 County: Gilmer Quadrangle: Gilmer 7.5' 365
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 Bryan Harris
Name: P.O. Box 157
Address: Volga, WV 26238

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

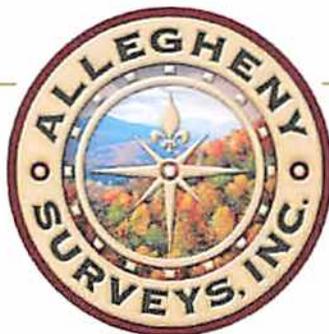
Work order approved by inspector _____

Date _____

Received

MAR 19 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Steinbeck # 6 - WV 160071 - API No. 47-021-01396

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 160071.

Received

MAR 19 2014

BIRCH RIVER OFFICE
 P.O. Box 438 • 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

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

Office of Oil and Gas
 WV Dept. of Environmental Protection
ALUM CREEK OFFICE
 P.O. Box 108 • 1413 Childress Road
 Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

2101396A

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: February 27, 2014

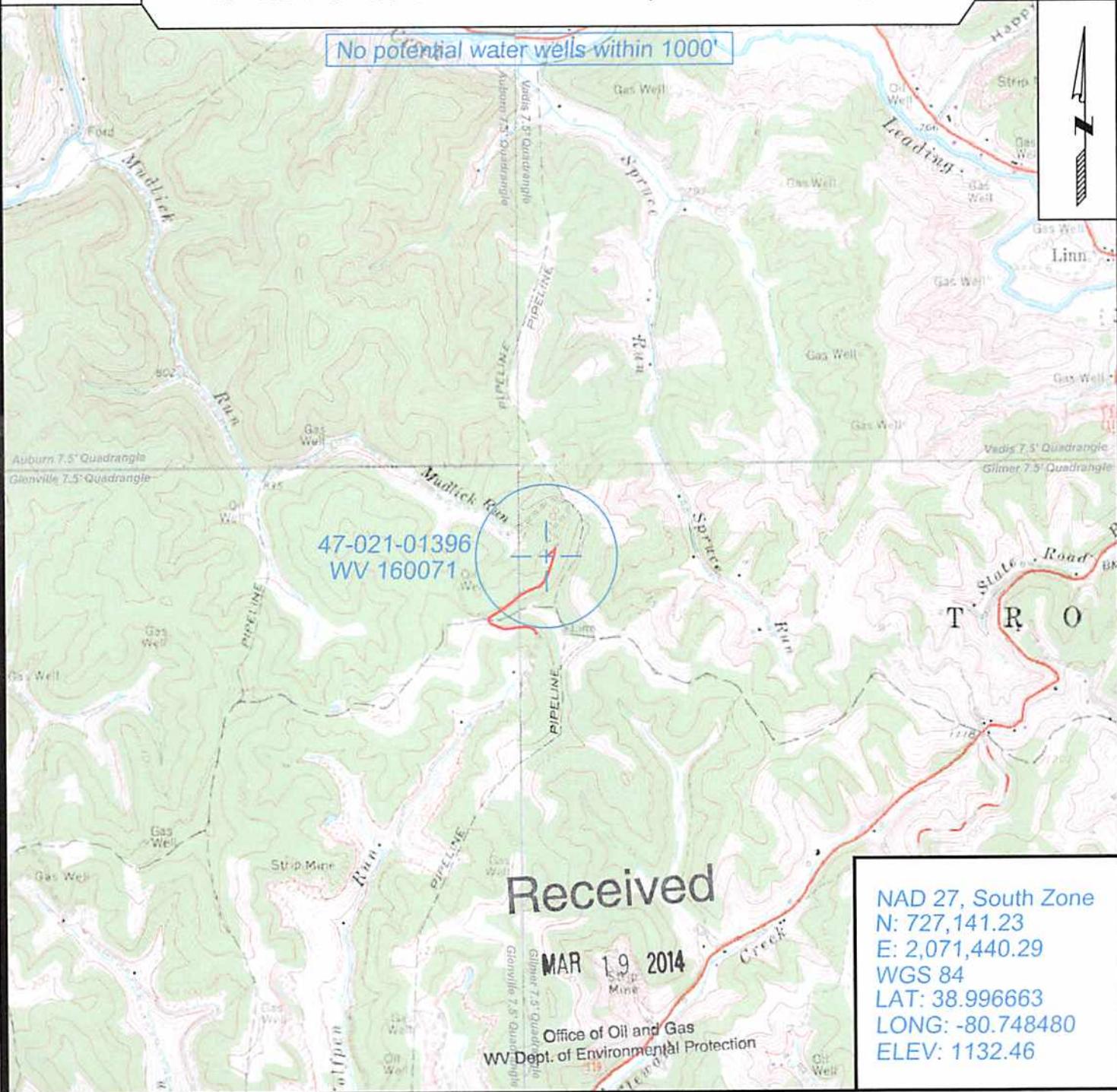
District: Troy

Project No: 25-19-00-07

Water

47-021-01396 WV 160071 (Steinbeck # 6)

No potential water wells within 1000'



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

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