



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

May 20, 2014

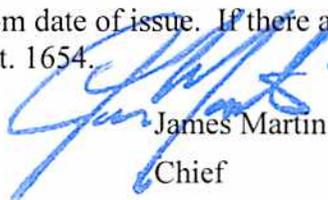
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100780, 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: W 160051 (STEINBECK HEIRS #4
Farm Name: ARBUCKLE, ERNEST L. FAMILY

API Well Number: 47-2100780

Permit Type: Plugging

Date Issued: 05/20/2014

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

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

Date: 5-13-14
Operator's Well
Well No. 160051(Steinbeck Heirs #4)
API Well No.: 47 021 - 00780

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

OK #17814
\$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: 1157' Watershed: Mudlick Run of Tanner Creek of Little Kanawha River
Location: Troy County: Gilmer Quadrangle: Glenville 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 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.

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. 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 _____ Date _____

OK JMM
FOR Bryan Harris

PLUGGING PROGNOSIS - Weston

Steinbeck Hrs. # 4 (160051)

Gilmer, Co., West Virginia
 API # 47-021-00780
 District: Troy

BY: Craig Duckworth
 DATE: 3/5/14

CURRENT STATUS:

10" csg @ 20'
 8 1/4" csg @ 512'
 6 5/8" csg @ 1670' (packer @ 1409') *6 7/8" x 8 1/4"*
 2" tbg @ 1970' (packer @ 1402') *HOOK WALL*

TD @ 1970'

Fresh Water @ None Reported **Salt Water @ None Reported**
1st Salt Sand @ 814' **Coal @ 978'-979'**
Gas Shows @ 1426' to 1443' & 1900'
Oil Shows @ None reported
Stimulation @ Shot 1900' to 1910' & Perfs @ 1412' to 1416'
Elevation @ 1152'

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. TOO H w/ tbg, Free Point 6 5/8", cut 6 5/8" @ free point, TOO H w/ 6 5/8" csg
3. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs *GEL SHOT HOLE*
4. TIH w/ tbg @ 1900'; Set 280' C1A Cement Plug @ 1900' to 1620' (6 5/8" csg @ 1670' & Gas Show @ 1900' Big Injun)
5. TOO H w/ tbg @ 1620'; gel hole @ 1620' to 1412'
6. TOO H w/ tbg @ 1412'; Set 100' C1A Cement Plug @ 1412' to 1312' (Gas Shows @ 1412'-1416')
7. TOO H w/ tbg @ 1312'; gel hole @ 1312' to 1152'.
8. TOO H w/ tbg @ 1152'; Set 224' C1A Cement Plug @ 1152' to 928' (Elevation @ 1152' & Coal 978'-979')
9. TOO H w/ tbg @ 928'; gel hole @ 928' to 814'
10. TOO H w/ tbg @ 814'; Set 100' C1A Cement Plug @ 814' to 714' (Salt Sand @ 814')
11. TOO H w/ tbg @ 714' gel hole @ 714' to 560'.
12. TOO H w/ tbg @ 560'; Set 100' C1A Cement Plug @ 560' to 460' (8 1/4" @ 512')
13. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
14. TOO H w/ tbg @ 460' gel hole @ 460' to 200'.
15. TOO H w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (Surface & 10" @ 20')
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications

Received

MAY 14 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

OK gmm

Mineral
Commenced
Completed
Date shot
Volume
Rock Pressure
No water

Parkersburg, W.Va.

Same

Aug. 10, 1948

Sept. 17, 1948

Oct. 23, 1900 to 1910 with 20 qts.

50 MCF

Not taken

No coal

2100780

2" packer at 1402

Hook Wall

6 5/8 x 8 1/2 Packer

at 1409

Perf. top 1412

" bot 1416

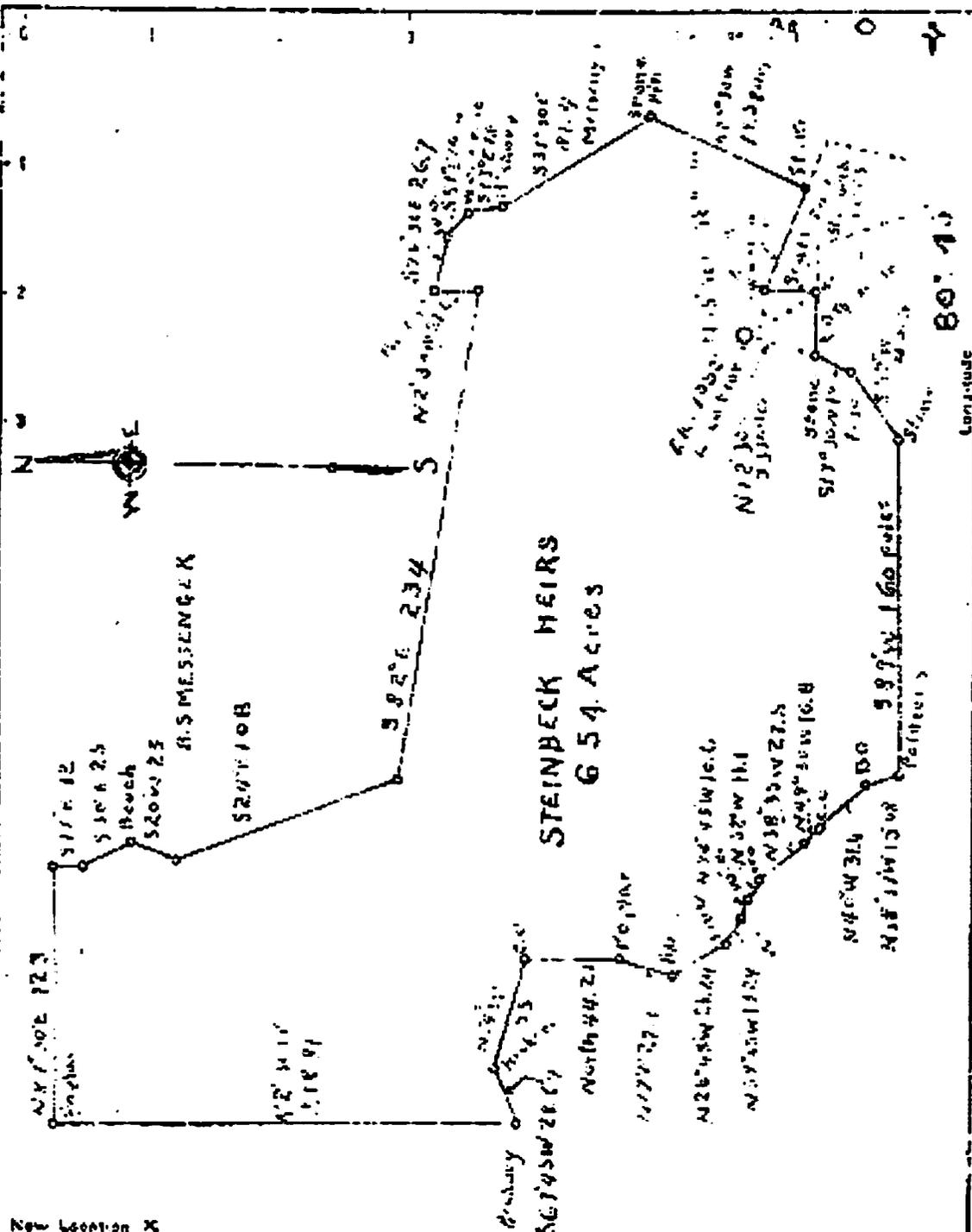
Sand	Wh	487	534
Sand		683	709
Sand	First Salt	814	834
Sand		940	978
Coal		978	979
Sand		1010	1130
Slate	Black	1130	1265
Sand		1265	1302
Sand		1375	1500
Sand		1602	1628
Rsd Rock		1650	1665
Limo	Black	1665	1670
Limo	White Little Limo	1765	1774
Limo	White Big Limo	1780	1838
Sand	Big Injun	1838	1950
Total depth			1970

Gas 1426-1443

Gas 1900

Received

MAY 14 2014



New Location X
 Drill Casing
 Abandonment

Company E. G. BISH
 Address Clarksburg, W. Va.
 Farm Steinbeck Heirs
 Tract _____ Acres 654 Lease No _____
 Well Farm No 5 Serial No. _____
 Elev. to Spout Level 1052
 Quadrangle Glennville
 County Gilmer District Troy
 Engineer M. L. B. Linger
 Engineer's Registration No 261
 File No. _____ Drawing No. _____
 Date July 21, 1940 Scale 1" = 60' or less

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

WELL LOCATION MAP
 FILE NO. 67L-780

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

- Denotes new iron forces on under and
 of original casing

Received

MAY 14 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

27625

- 1) Date: 5-13-14
 2) Operator's Well Number
160051(Steinbeck Heirs #4)
 3) API Well No.: 47 021 - 00780
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 C/O Security National Trust Co.
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 _____

Received

MAY 14 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

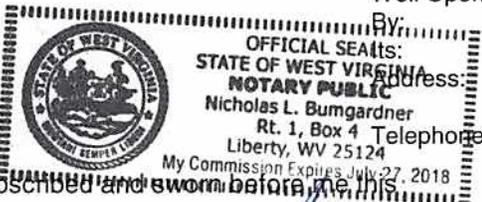
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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:

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



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

2100780P

FIRST-CLASS MAIL
\$07.40
neopost
05/13/2014
US POSTAGE
ZIP 26330
041L10228892

**U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Post		

Sent To
Ernest L. Arbuckle Family Trust
C/O Security National Trust Co.
1300 Chapline St.
Wheeling, WV 26003
Plugging 160051

PS Form 3800, August 2006 See Reverse for Instructions

Ernest L. Arbuckle Family Trust
C/O Security National Trust Co.
1300 Chapline St.
Wheeling, WV 26003
Plugging 160051

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
Ernest L. Arbuckle Family Trust
C/O Security National Trust Co.
1300 Chapline St.
Wheeling, WV 26003
Plugging 160051

2. Article Number
7014 0510 0000 4439 4343
(Transfer from service label)

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

4. Restricted Delivery? (Extra Fee)
 Yes
 No

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

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

A. Signature
 Agent
 Addressee

COMPLETE THIS SECTION ON DELIVERY

PS Form 3811, July 2013 Domestic Return Receipt

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

2100780P

POSTAGE CLASS 141

\$02.24

neopost

05/12/2014

US POSTAGE



ZIP 26330

041L10226892

Bryan Harris
P.O. Box 157
Volga, WV 26238

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

2100780P

WW-9
Revised 2/03

Page _____ of _____
2) Operator's Well Number
160051(Steinbeck Heirs #4)
3) API Well No.: 47 021 - 00780

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: Glenville 7.5'
Elevation: 1157' 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? _____

Received

Will closed loop system be used? _____ MAY 14 2014

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? _____

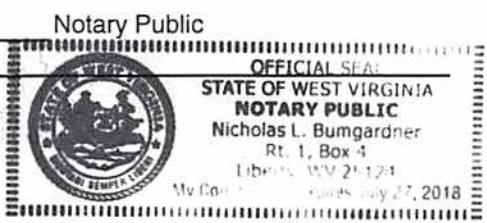
Office of Oil and Gas
WV Dept. of Environmental Protection

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

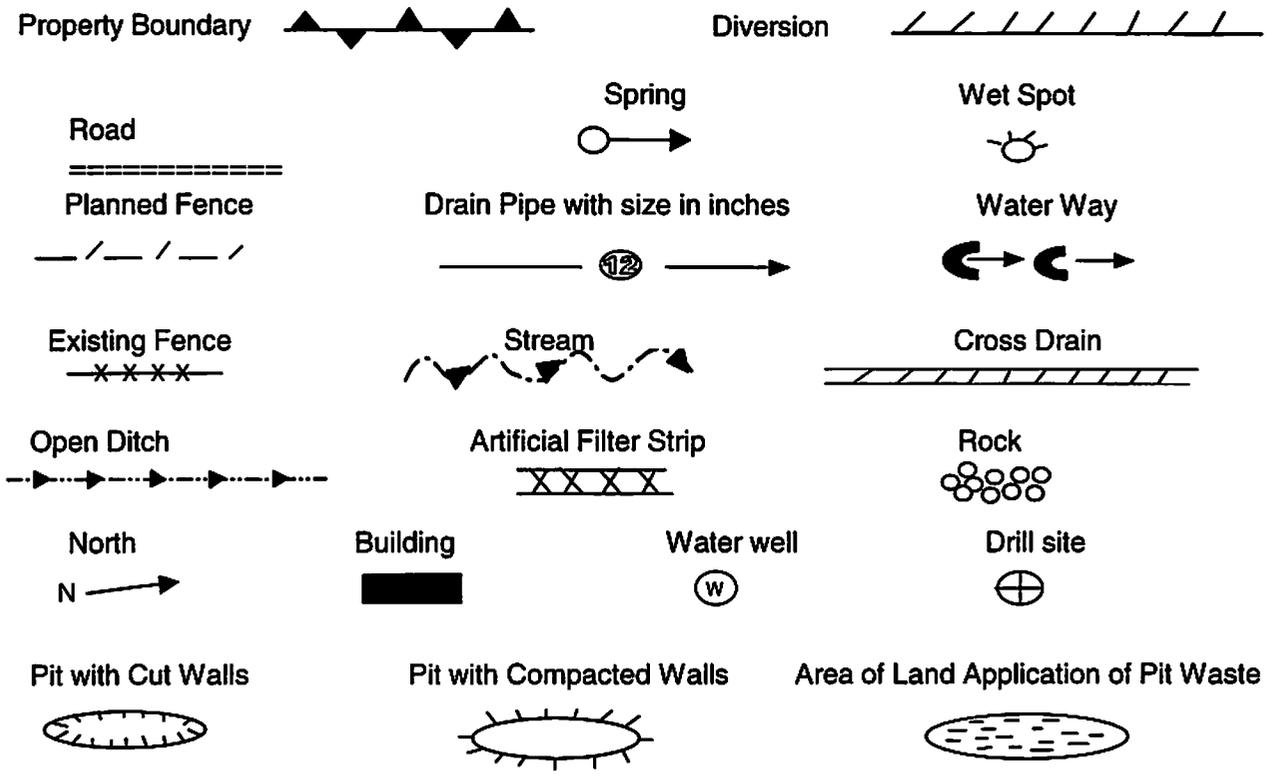
Company Official Signature *Victoria Roark*
Company Official (Typed or Printed) Victoria Roark
Company Official Title Permitting Supervisor-WV
Subscribed and sworn before me this 12 day of MAY, 2014

My Commission Expires 6/27/2018



OPERATOR'S WELL NO.:
160051(Steinbeck Heirs #4)

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.

Received

Plan approved by: _____

MAY 14 2014

Comments: _____

Title: _____ Date: _____
 Field Reviewed? Yes No WV Dept. of Environmental Protection

2100780P

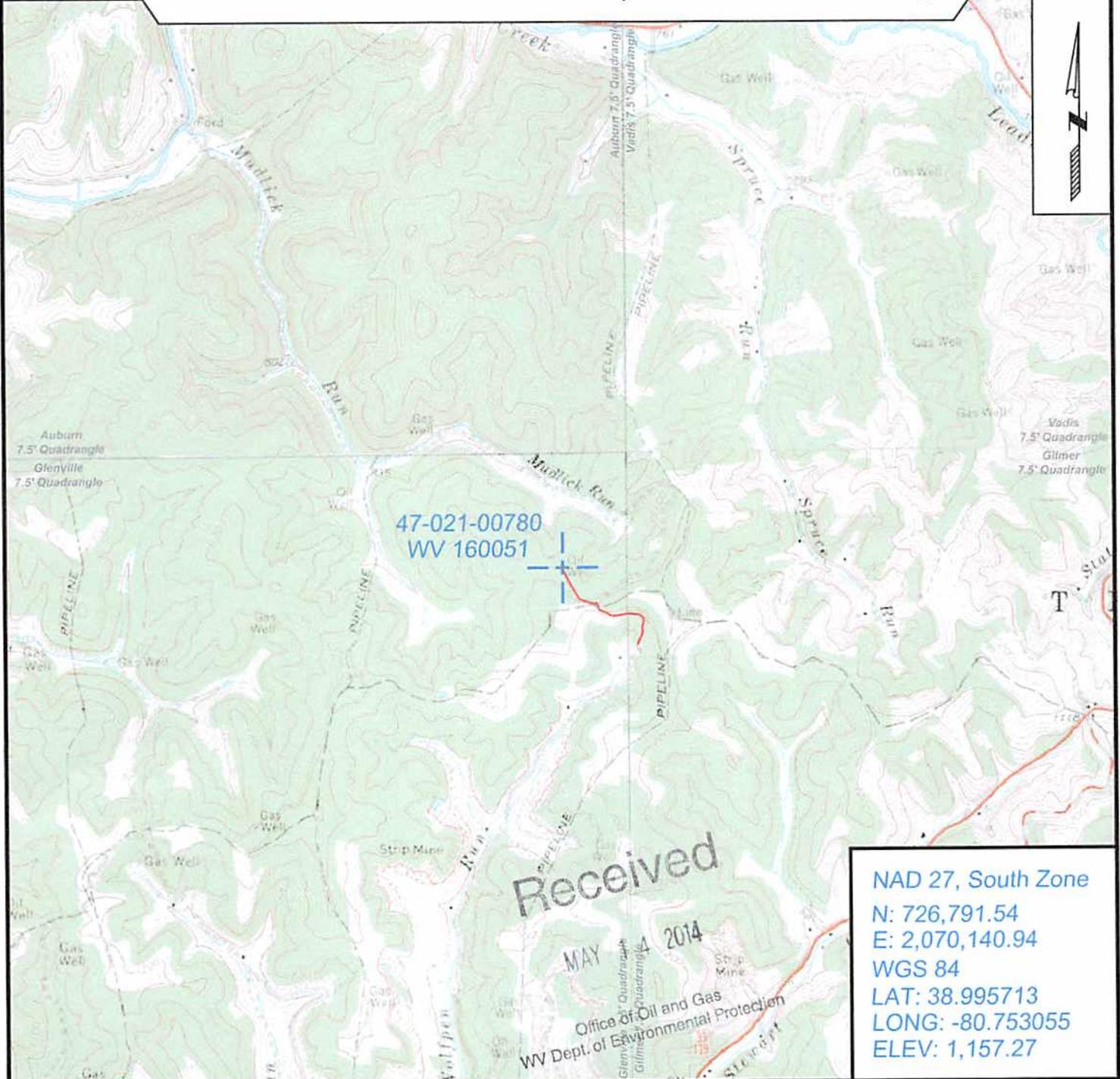
Topo Quad: Glenville 7.5' Scale: 1" = 2000'

County: Gilmer Date: April 21, 2014

District: Troy Project No: 25-19-00-07

47-021-00780 WV 160051 (Steinbeck Heirs #4)

Topo



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

21 00780 P

WW-7
8-30-06



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

API: 47-021-00780 WELL NO.: WV 160051 (Steinbeck Heirs #4)

FARM NAME: Steinbeck Heirs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Troy 4

QUADRANGLE: Glenville 7.5' 372

SURFACE OWNER: Ernest L. Arbuckle Family Trust

ROYALTY OWNER: Ernest L. Arbuckle Family Trust, et. al.

UTM GPS NORTHING: 4316330

UTM GPS EASTING: 521385 GPS ELEVATION: 353 m (1157 ft)

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

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

Survey grade GPS : Post Processed Differential
Real-Time Differential

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

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

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Received

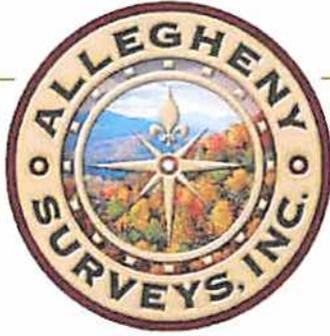
MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Signature

PS# 2180
Title

4/30/14
Date



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Steinbeck Heirs #4 - WV 160051 - API No. 47-021-00780

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 160051.

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
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

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

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

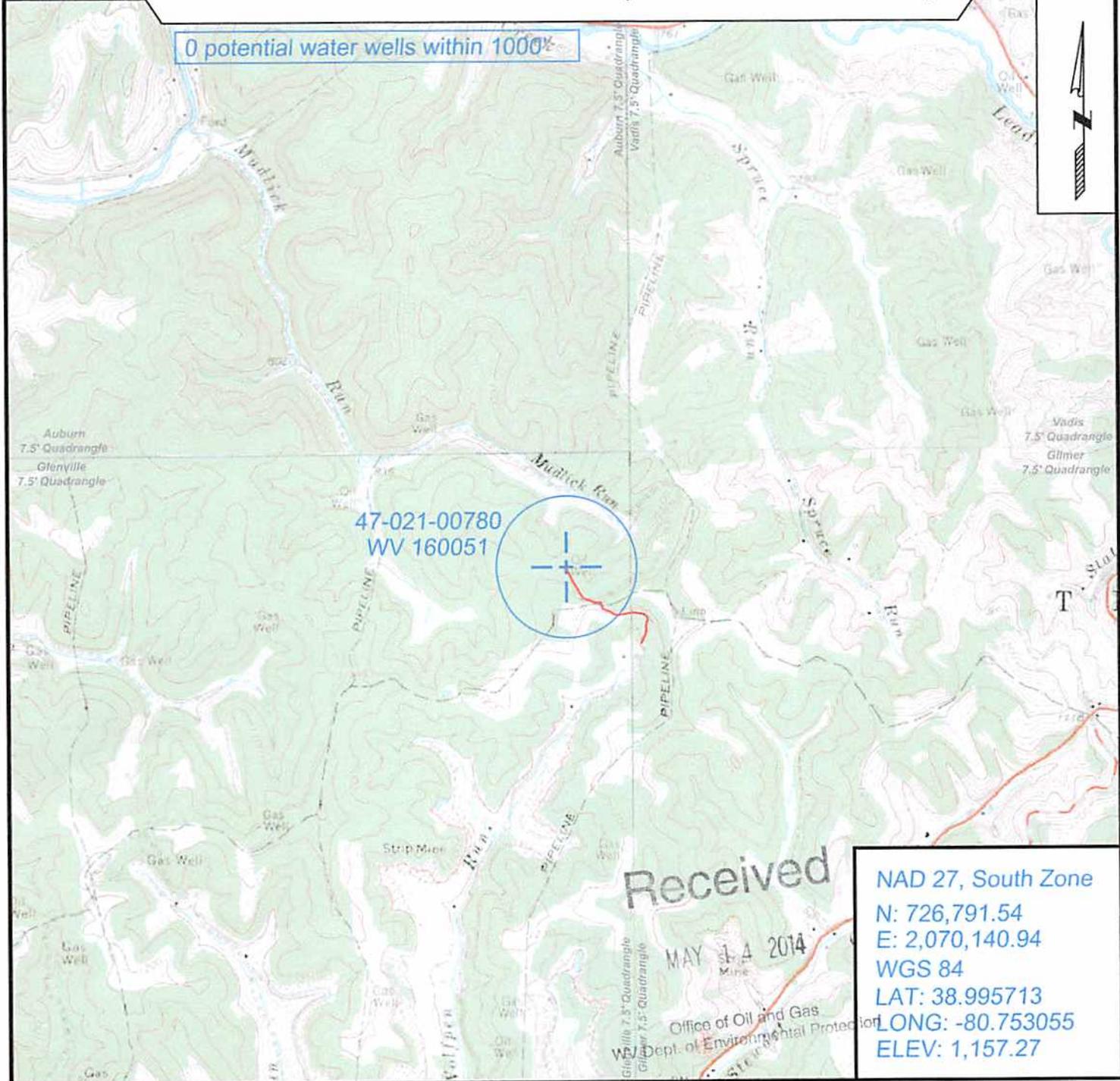
County: Gilmer Date: April 21, 2014

District: Troy Project No: 25-19-00-07

Water

47-021-00780 WV 160051 (Steinbeck Heirs #4)

0 potential water wells within 1000'



NAD 27, South Zone
 N: 726,791.54
 E: 2,070,140.94
 WGS 84
 LAT: 38.995713
 LONG: -80.753055
 ELEV: 1,157.27

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 MAY 14 2014
 Office of Oil and Gas
 Dept. of Environmental Protection



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 237 Birch River Road
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PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330