



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, July 12, 2017
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for A-1, GW-1988
47-081-00824-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: A-1, GW-1988
Farm Name: BROOKS, ROY A. - HEIRS
U.S. WELL NUMBER: 47-081-00824-00-00
Vertical / Plugging
Date Issued: 7/12/2017

Promoting a healthy environment.

07/14/2017

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.

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

Date: January 24, 2017
Operator's Well
Well No. 122481 (Newman A1 GW1998)
API Well No.: 47 081 - 00824

OK 22315
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: 1983 ft. Watershed: Marsh Fork
Location: Trap Hill County: Raleigh Quadrangle: Arnett 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 Gary Kennedy
Name: 252 Circle Ave.
Address: Rainelle, WV 25962
- 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 *Gary Kennedy* Date 1/26/17

PLUGGING PROGNOSIS

Newman A-1, GW-1988 (12248)

Raleigh Co., West Virginia
 API # 47-081-00824
 District: Trap Hill

BY: Craig Duckworth
 DATE: Updated 01/24/17

CURRENT STATUS:

9 5/8" csg @ 1002' (cts)
 7" csg @ 2677' (cts)
 4 1/2" csg @ 6535' (753cu.ft)
 2 3/8" tbg @ 6348'

TD @ 6544'

Fresh Water @ 280', 340', 343', 380' Salt Water @ none reported
 Salt Sand @ 1240' Coal @ none reported

Gas shows @ none reported

Oil Shows @ none reported Elevation @ 1984'

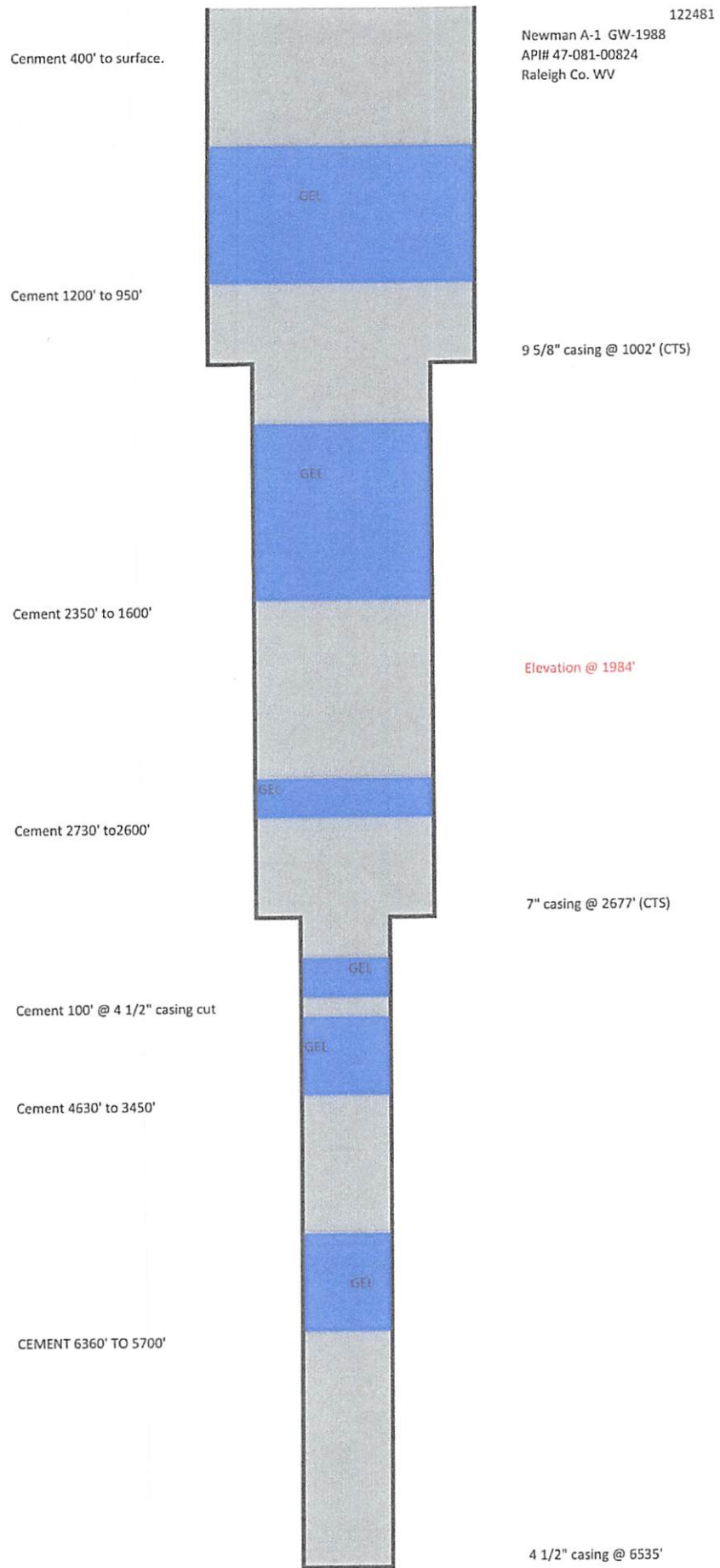
Stimulation: Rhinestreet 5868'to6360', U. Devonian 3605'-4530', Maxon 1690'-2352'

Check Rock Pressure

1. Notify State Inspector, Gary Kennedy 304-382-8402, and 24 hrs prior to commencing operations.
2. TIH w/ tbg @ 6360'; Set 660' C1A Cement Plug @ 6360' to 5700' (Perfs.6360' to 5868')
3. TOOH w/ tbg @ 5700'; Gel hole @ 5700' to 4630'
4. TOOH w/ tbg @ 4630'; Set 1180' C1A Cement Plug @ 4630' to 3450' (4530' to 3605')
5. TOOH w/ tbg @ 3450'; gel hole @ 3450' to 2730'
6. TOOH w/tbg Freepoint 4 1/2". Cut/shoot 4 1/2" at freepoint
7. Set a 100' C1A Cement Plug 50' in/Out of cut. Perf all FW, Coal, Oil & Gas Shows below 4 1/2" cut. Do not omit any plugs.
8. TIH w/ tbg @ 2730'; Set 130' C1A Cement Plug @ 2730' to 2600' (4 1/2" cut & 7" csg set)
9. TOOH w/ tbg @ 2600'; gel hole @ 2600' to 2352'
10. TOOH w/ tbg @ 2352'; Set 750' C1A Cement Plug @ 2350' to 1600' (Maxon perfs.2352'to1690')
11. TOOH w/ tbg @ 1600'; gel hole @ 1600' to 1200'
12. TOOH w/ tbg @ 1200'; Set 250' C1A Cement Plug @ 1200' to 950' (Salt Sand 1240' & 9 5/8" @ 1002')
13. Set a 100' C1A Cement Plug 50' in/Out of cut. Perf all FW, Coal, Oil & Gas Shows below 9 5/8" cut. Do not omit any plugs
14. TOOH w/ tbg @ 950'; gel hole @ 950' to 400'
15. TOOH w/ tbg @ 400'; Set 400' C1A Cement Plug @ 400' to 0' (FW @ 380', 343', 340', 280')
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications.

YK

81008240



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Office of Oil and Gas
JAN 26 2017

WV Department of
Environmental Protection
07/14/2017

8100824P

WR-35

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APR 24 1989

15-Jun-88

API # 47- 81-00824

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Operator's Report of Well Work

Form name: BROOKS, ROY A. - HEIRS Operator Well No.: A-1, JW-1988

LOCATION: Elevation: 1984.31 Quadrangle: ARNETT

District: TRAP HILL County: RALEIGH
Latitude: 3350 Feet South of 37 Deg. 48Min. 0 Sec.
Longitude 4350 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: OXY USA, INC.
P.O. BOX 873
CHARLESTON, WV

Asent: DELBERT G. OLIVER

Inspector: RODNEY G. DILLON
Permit Issued: 06/15/88
Well work Commenced: 8-6-88
Well work Completed: 4-9-89
Verbal Plugging
Permission granted on:
Rotary Cable Rid
Total Depth (feet) 6544'
Fresh water depths (ft) 280', 340',
343', 380'
Salt water depths (ft)
Is coal being mined in area (Y/N)? N
Coal Depths (ft):

Size	Used in	Left	Cement
Conductor			Fill Up
20"	26'	26'	Surface
Fresh Wtr			
9.625"	1002'	1002'	Surface
Inter- mediate			
7"	2677'	2677'	Surface
Production			
4.5"	6535'	6535'	753 cuft
Tubing			
2.375"		6348'	

OPEN FLOW DATA

Rhinestreet, Upper Devonian,
Producing formation Maxon Pay zone depth (ft) 1690-6360'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 381 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 370 psig (surface pressure) after 10 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.

Delbert G. Oliver, Appalachian Project Manager
For: OXY USA, INC.

By: Delbert G. Oliver
Date: April 21, 1989

RAL 0824

07/14/2017

NEWMAN A-1

Details of perforated intervals, fracturing or stimulating, physical change, etc.:

FORMATION

Rhinestreet Perforated 5868-6360' (71 holes). Frac'd w/ 50,000# sand, 96 BLW, 505 MCF N2.

Upper Devonian Perforated 3605-4530' (71 holes). Frac'd w/ 50,000# sand, 96 BLW, 288 MCF N2.

Maxton Perforated 1690-2352' (87 holes). Frac'd w/ 42,100# sand, 146 BLW, 538 MSCF N2.

WELL LOG:

<u>Formation</u>	<u>Top (Ft)</u>	<u>Bottom (Ft)</u>
Sand	0	90
Siltstone	90	368
Sand	368	467
Siltstone	467	592
Sand	592	711
Siltstone	711	881
Sand	881	928
Siltstone	928	1220
Sand	1220	1240
Siltstone	1240	1423
Sand	1423	1450
Siltstone	1450	1515
Ravencliff	1515	1603
Avis Limestone	1603	1635
Siltstone	1635	1944
Upper Maxton	1944	2008
Siltstone	2008	2158
Middle Maxton	2158	2208
Siltstone	2208	2316
Lower Maxton	2316	2352
Siltstone	2352	2364
Little Lime	2364	2424
Pencil Cave	2424	2485
Big Lime	2485	2846
Shale	2846	2908
Siltstone	2908	3028
Weir	3028	3126
Shale	3126	3425
Sunbury	3425	3442
Devonian Shale	3442	3605
Gordon	3605	3643
Devonian Shale	3643	4556
Lower Huron	4556	5361
Java	5361	5868
Rhinestreet	5868	6488
Marcellus	6488	6538
Onondaga	6538	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

6898

WW-4-A
Revised 6/07

1) Date: January 24, 2017
2) Operator's Well Number
122481 (Newman A1 GW1998)
3) API Well No.: 47 081 - 00824
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 Larry and Anna Brooks
Address P. O. Box 519
Fairdale, WV 25839
(b) Name Gary and Marilyn Brooks
Address 150 Brooks Drive
Glen Daniels, WV 25844
(c) Name _____
Address _____
6) Inspector Gary Kennedy
Address 252 Circle Ave.
Rainelle, WV 25962
Telephone (304) 382-8402

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Larry and Anna Brooks
P. O. Box 519
Address Fairdale, WV 25839
(c) Coal Lessee with Declaration
Name Alpha Natural Resources
Address 300 Running Right Road
Julian, WV 25521

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

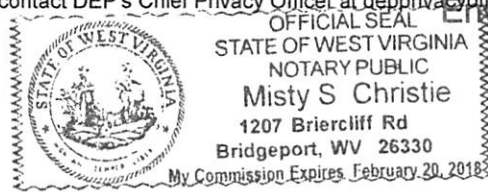
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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
By: Victoria J. Roark
Its: Permitting Supervisor
Address: PO Box 280
Bridgeport, WV 26330
Telephone: (304) 848-0076

Subscribed and sworn before me this 24th day of January, 2017
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 any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov



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WV Department of Environmental Protection

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY OP CODE: _____

Watershed (HUC 10): Marsh Fork Quadrangle: Arnett 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes__ No X

Will a pit be used? Yes X No__
If so, please describe anticipated pit waste: Formation Fluids
Will a synthetic liner be used in the pit? Yes X No__ Is so, what ml.? 20 -10 ml

Proposed Disposal Method for Treated Pit Wastes:
____ Land Application (if selected provide a completed form WW-9-GPP)
____ Underground Injection (UIC Permit Number _____)
X Reuse (at API Number -- Various _____)
X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
____ Other: (Explain _____)

Will closed loop system be used ? If so, describe: _____
Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____
Additives to be used in drilling medium? _____
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? _____

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 term 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

Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor - WV

Subscribed and sworn before me this 24th day of January, 2017

Misty S. Christie
My Commission Expires 2/20/18

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Office of Oil and Gas

JAN 26 2017

Notary Public

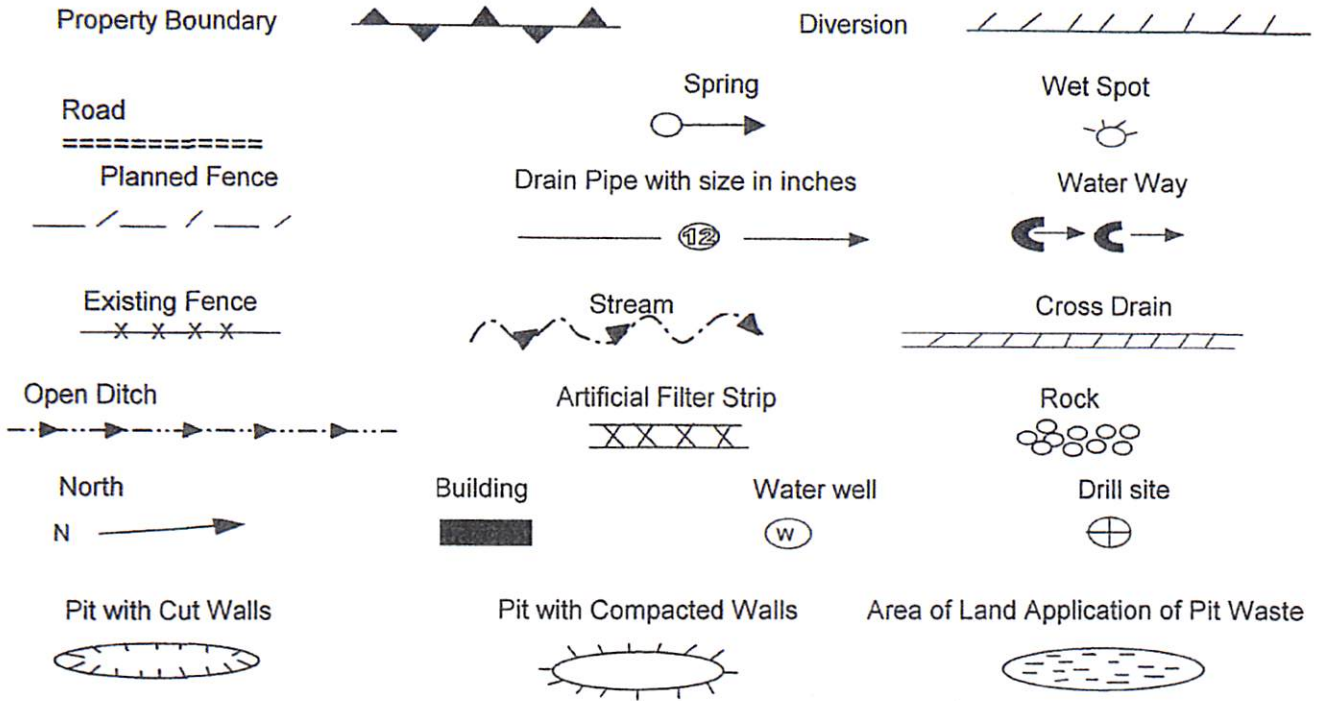


OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S. Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

07/14/2017

OPERATOR'S WELL NO.:
122481 (Newman A1 GW1998)

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: *Greg Kowalski*

Comments: _____

Title: *Inspector* Date: *11/26/17*

Field Reviewed? Yes No

8100824P

EQT Production Water plan
Offsite disposals

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

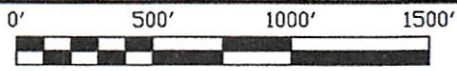
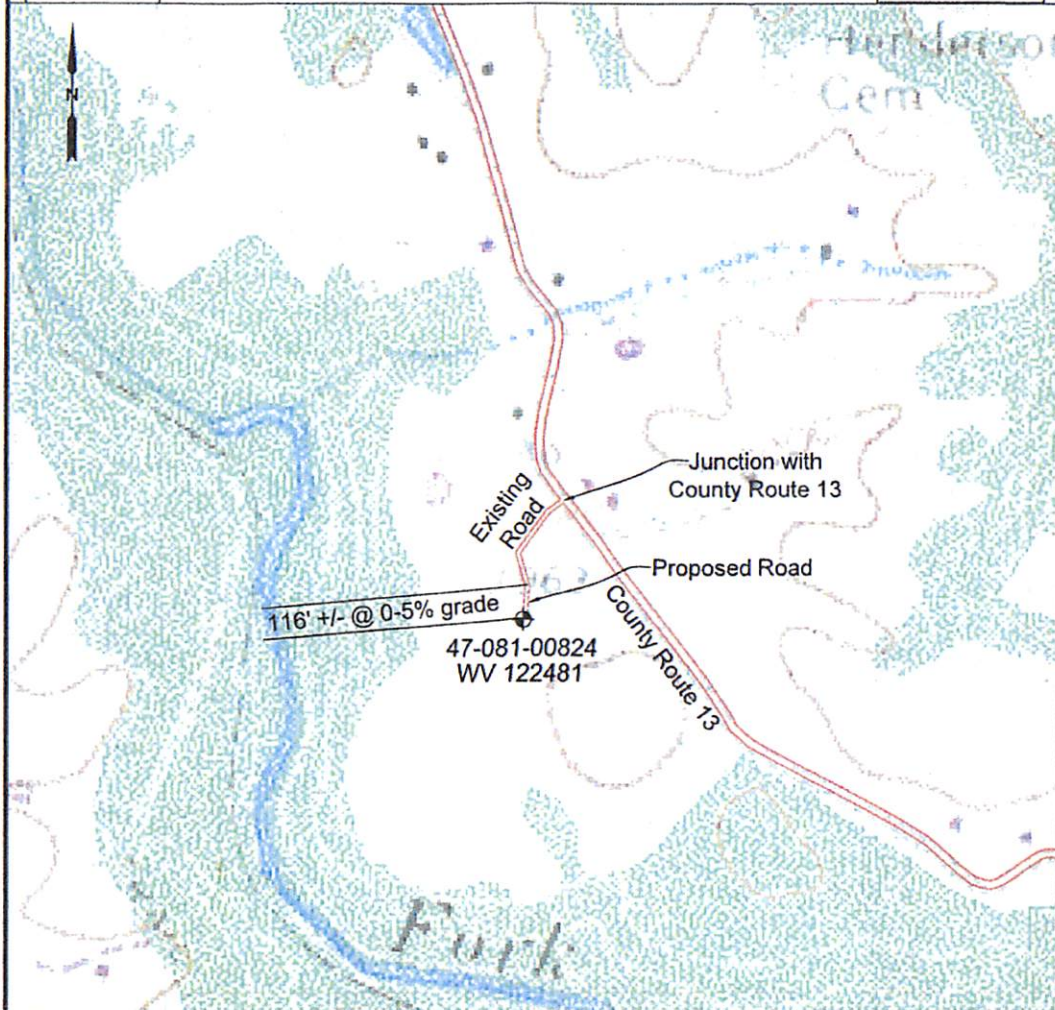
Waste Management - Northwestern Landfill

512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

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Environmental Protection
07/14/2017



C Denotes to install 15" minimum culvert **X** Denotes a proposed stream crossing (if applies) "see table for culvert detail"

Unless otherwise noted, all roads shown hereon are existing and shall be maintained in accordance with WV D.E.P., Office of Oil and Gas Erosion and Sediment Control Field Manual as revised 5/12

Entrances upon county/state roads shall be maintained in accordance with WV D.O.T. regulations, however, separate permits may be required by the WV D.O.T.

Sediment basins (traps) and appropriate erosion control barriers are to be constructed at all culverts and cross-drains as required in the aforementioned Erosion and Sediment Control Field Manual. Where field conditions dictate, alternative erosion control measures shall be enacted as required.

Earthwork contractors are responsible for notification to the operator and inspector prior to any deviation from this plan.

Temporary seed and mulch all slopes after construction of location.

Cut and stack all marketable timber.

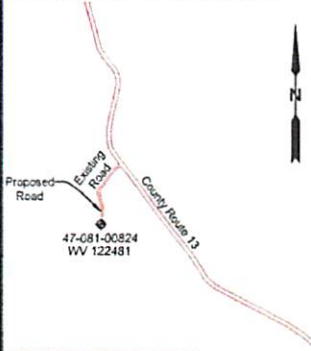
Stacked brush may be used for sediment control.

Applications for separate Public Land Corporation Permits on the access roads stream crossings have been prepared (if applies).

Additional culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector.

Operator is responsible for the coordination with contractor and Allegheny Surveys regarding any changes or additions the state may require.

**Existing Well # WV 122481
Loc. Detail 47-081-00824**



DRAWING IS NOT TO SCALE

SECTION OF THE Faimont West 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	
15" minimum diameter culverts	0 Culverts	Proposed Access Road	
18" minimum diameter culverts	0 Culverts	Approximate Total Disturbance	

DRAWN BY: Tim Rutledge DATE: January 19, 2017 FILE NO. 23-06-00-08 DRAWING FILE NO. 23-08 WV 122481 Rec Plan



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
Birch River Office
Phone: (304) 649-8606 237 Birch River Road
Fax: (304) 649-8608 Birch River, WV
26610

PROPERTY BOUNDARY	
ROAD	
DITCH	
SILT FENCE	
EXISTING WELL LOCATION	
BROAD BASED DIP	
EXISTING GATE	
EXISTING CULVERT	
PROPOSED CULVERT	
CROSS DRAIN	
PIT-CUT WALLS	
PIT-COMPACTED WALLS	
AREA OF LAND APPLICATION OF PIT WASTE	

8100824P

Topo Quad: Arnett 7.5'

Scale: 1" = 200'

County: Raleigh

Date: January 12, 2017

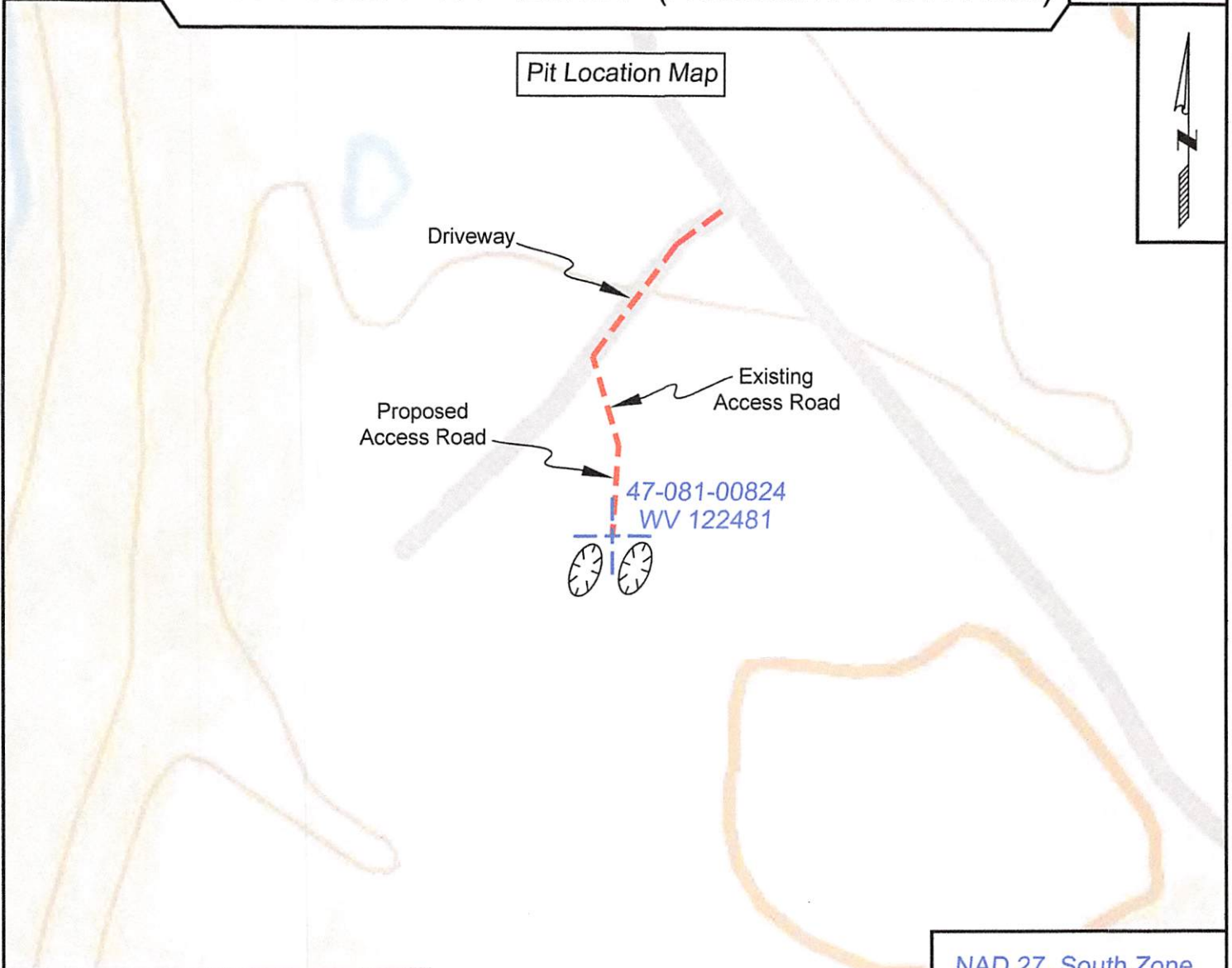
District: Trap Hill

Project No: 23-06-00-08

47-081-00824 WV 122481 (Newman A1 GW1998)

Topo

Pit Location Map



LEGEND

- PIT-CUT WALLS 
- PIT-COMPACTED WALLS 
- AREA OF LAND APPLICATION OF PIT WASTE 

NO LAND APPLICATION

NAD 27, South Zone
 N: 288,133.85
 E: 1,887,221.31
 WGS 84
 LAT: 37.790764
 LONG: -81.390102
 RECEIVED



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: Office of Oil and Gas

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330
 WV Department of Environmental Protection
 07/14/2017

8100824P

Topo Quad: Arnett 7.5' Scale: 1" = 500'

County: Raleigh Date: January 12, 2017

District: Trap Hill Project No: 23-06-00-08

Highway **47-081-00824 WV 122481 (Newman A1 GW1998)**

Pit Location Map



Marsh

Existing Access Road

47-081-00824
WV 122481



13

Fork

LEGEND

PIT-CUT WALLS



PIT-COMPACTED WALLS



AREA OF LAND APPLICATION OF PIT WASTE



NO LAND APPLICATION

NAD 27, South Zone
N: 288,133.85
E: 1,887,221.31
WGS 84
LAT: 37.790764
LONG: -81.390102
ELEV: 1,982.50
RECEIVED



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:

Office of Oil and Gas

EQT Production Company

JAN 20 2017
P.O. Box 280
Bridgeport, WV 26330

WV Department of Environmental Protection
07/14/2017

8100824P

Topo Quad: Arnett 7.5'

Scale: 1" = 2000'

County: Raleigh

Date: January 19, 2017

District: Trap Hill

Project No: 23-06-00-08

47-081-00824 WV 122481 (Newman A1 GW1998)

Topo



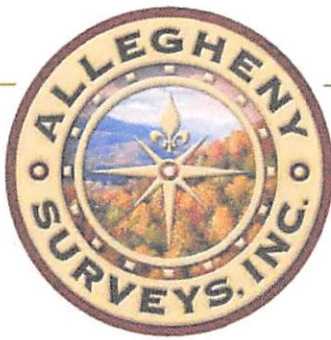
SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

JAN 26 2017
EQT Production Company
WV Department of
P.O. Box 280
Bridgeport, WV 26330
Environmental Protection

07/14/2017



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Newman A1 GW 1998 WV 122481 (47-081-00824)

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 477' +/- Owner: Lawrence Brooks
Address: 150 Brooks Drive, Glendaniel, WV 25844 Phone No. _____
Comments: Pond

Site: 2 Spacing: 489' +/- Owner: Larry Brooks
Address: PO Box 529, Fairdale, WV 25839 Phone No. _____
Comments: Pond

RECEIVED
Office of Oil and Gas

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: 304-263-3160
fax: 304-901-2182
JAN 26 2017
WV Department of
Environmental Protection

Topo Quad: Arnett 7.5'

Scale: 1" = 2000'

County: Raleigh

Date: January 19, 2017

District: Trap Hill

Project No: 23-06-00-08

Water

47-081-00824 WV 122481 (Newman A1 GW1998)

2 potential water sources within 1000'



NAD 27, South Zone
 N: 288,133.85
 E: 1,887,221.31
 WGS 84
 LAT: 37.790764
 LONG: 81.390102
 ELEV: 1,982.50
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 Office of Oil and Gas



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 289
 Bridgeport, WV 26330
 JAN 26 2017
 Department of Environmental Protection
 07/14/2017

WW-7
8-30-06



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

API: 47-081-00824 WELL NO.: WV 122481 (Newman A1 GW1998)

FARM NAME: Roy A. Brooks Heirs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Raleigh DISTRICT: Trap Hill

QUADRANGLE: Arnett 7.5'

SURFACE OWNER: Larry and Anna Brooks

ROYALTY OWNER: Edward N. and Cleo Newman, et al.

UTM GPS NORTHING: 4182672

UTM GPS EASTING: 465653 GPS ELEVATION: 604 m (1983 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.

Stephan
Signature

PS# 2180
Title

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Office of Oil and Gas
1/19/17
Date JAN 26 2017

WV Department of
Environmental Protection 07/14/2017