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

July 23, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10300798, 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: 1-213
Farm Name: KILCOYNE, S. J.
API Well Number: 47-10300798
Permit Type: Plugging
Date Issued: 07/23/2015

Promoting a healthy environment.

10300798P

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.

103007980

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

CK # 19290
$100.00

Date: May 11, 2015
Operator's Well
Well No. 650516 (M. Barr #213)
API Well No.: 47 103 - 00798

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: 872 ft. Watershed: North Fork of Fishing Creek
Location: Grant County: Wetzel Quadrangle: Big Run
District:

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: Derek Haught, P. O. Box 85, Smithville, WV 26178

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 6-1-15

10 300798 P

PLUGGING PROGNOSIS

650516

M. Barr #213

API# 47-103-0798DD
District, Grant
Wetzel Co., WV

BY: R Green
DATE: 4/6/15
CURRENT STATUS:
10" @ 519'
8 1/4" @ 600'
7" @1858'
2 3/8"tbg @ 2715', set on 2"x 5 3/16" packer @ 2685'
T. D. –2762
PBTD@ 2720'in 1984

Fresh Water, none reported
Oil Shows, none reported
Gas shows @ 2685' (Bayard Sand)
Coal @ 600'-608'
Stimulation: None reported
Elevation @870'

1. Notify inspector, Derek Haught, cell# 304-206-7613, 24 hrs. prior to commencing operations.
2. We will try to plug well in place without a rig on the hole and tubing will be left in the well and cemented with solid cement to surface perforating 2" tubing up the hole.
3. TIH wireline, perforate 2" tbg @ 2680'.
4. Establish circulation, pump C1A cement plug from 2680' to 2280'.(gas show, packer)
5. Check TD inside tbg, if @ 2280', proceed to next step.
6. TIH wireline perforate 2" tbg, @ 2275'.
7. Establish circulation, pump C1A cement plug from 2275' to 1800'. (6 5/8" casing seat).
8. Check TD inside tbg, if @ 1800', proceed to next step.
9. TIH wireline to 1795' perforate 2" tbg & 6 5/8" csg. (2 holes).
10. Establish circulation, pump C1A cement plug from 1795'to 950'
11. Check TD inside tbg, if @ 950', proceed to next step
12. TIH wireline to 945' perforate 2" tbg & 6 5/8" casing, (2 holes).
13. Establish circulation, pump C1A cement plug, 945' to 500', (elevation, coal, 8 ¼" casing seat, 10" casing seat).
14. Check TD inside tbg if @ 500', proceed to next step.
15. TIH wireline to 495', perforate 2" tbg, 6 5/8" csg, 8 ¼" csg, 10" casing.
16. Establish circulation, pump C1A cement plug 495' to surface.
17. Erect monument with API#.
18. Reclaim location, road to WV-DEO specifications.

DMH
6-1-15

103007998P

-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date May 2, 1986
Operator's
Well No. 213 (Lease 6740)
Farm M. Barr
API No. 47 - 103 - 0798-D

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 870' Watershed North Fork of Fishing Creek
District: Grant County Wetzel Quadrangle Big Run

COMPANY Carnegie Natural Gas Company
ADDRESS 800 Regis Ave., Pgh., PA 15236
DESIGNATED AGENT J. C. Stephenson
ADDRESS Box 387, Mannington, WV 26582
SURFACE OWNER William Kilcoyne
ADDRESS Rt. 1, Smithfield, WV 26437
MINERAL RIGHTS OWNER Hope Natural Gas Co.
ADDRESS 445 W. Main St., Clarksburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, WV
PERMIT ISSUED August 31, 1984
DRILLING COMMENCED September 18, 1984 Clean Out
DRILLING COMPLETED July 29, 1985 Clean Out
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
XXX-10"	519'	519'	
9 5/8			
8 X 8 1/4	600'	600'	
7	1858'	1858'	
5 1/2			
4 1/2			
3			
2		2715'	
Liners used			

GEOLOGICAL TARGET FORMATION Bayard Depth 3200 feet
Depth of completed well 2720 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh - feet; Salt - feet
Coal seam depths: 600' - 608' Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Gantz Pay zone depth Below 2685 feet
Gas: Initial open flow - Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 15 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 170 psig (surface measurement) after 65 hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

The well was drilled in 1908 to a total depth of 2762' and tubed with 2762' of 3". The clean out was commenced on 9-18-84. 2720' of 3" tubing was cut and pulled and the well was cleaned out to 2720'. Fishing operations were discontinued on 7-29-85. The well was logged and 2715' of 2" tubing was run on a 5" x 2" Hookwall packer.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
Sand & Shale	0'	1790	
Little Lime	1790	1804	
Pencil Cave	1804	1819	
Big Lime	1819	1879	
Big Injun	1879	2099	
Shale	2099	2218	
Weir	2218	2299	
Shale	2299	2422	
Berea	2422	2467	
Shale	2467	2548	
Gantz	2548	2599	
Shale	2599	2720	
Cleaned Out Total Depth		2720'	

(Attach separate sheets as necessary)

Carnegie Natural Gas Company
Well Operator

By: Kenneth H. Dewey

Date: May 2, 1986

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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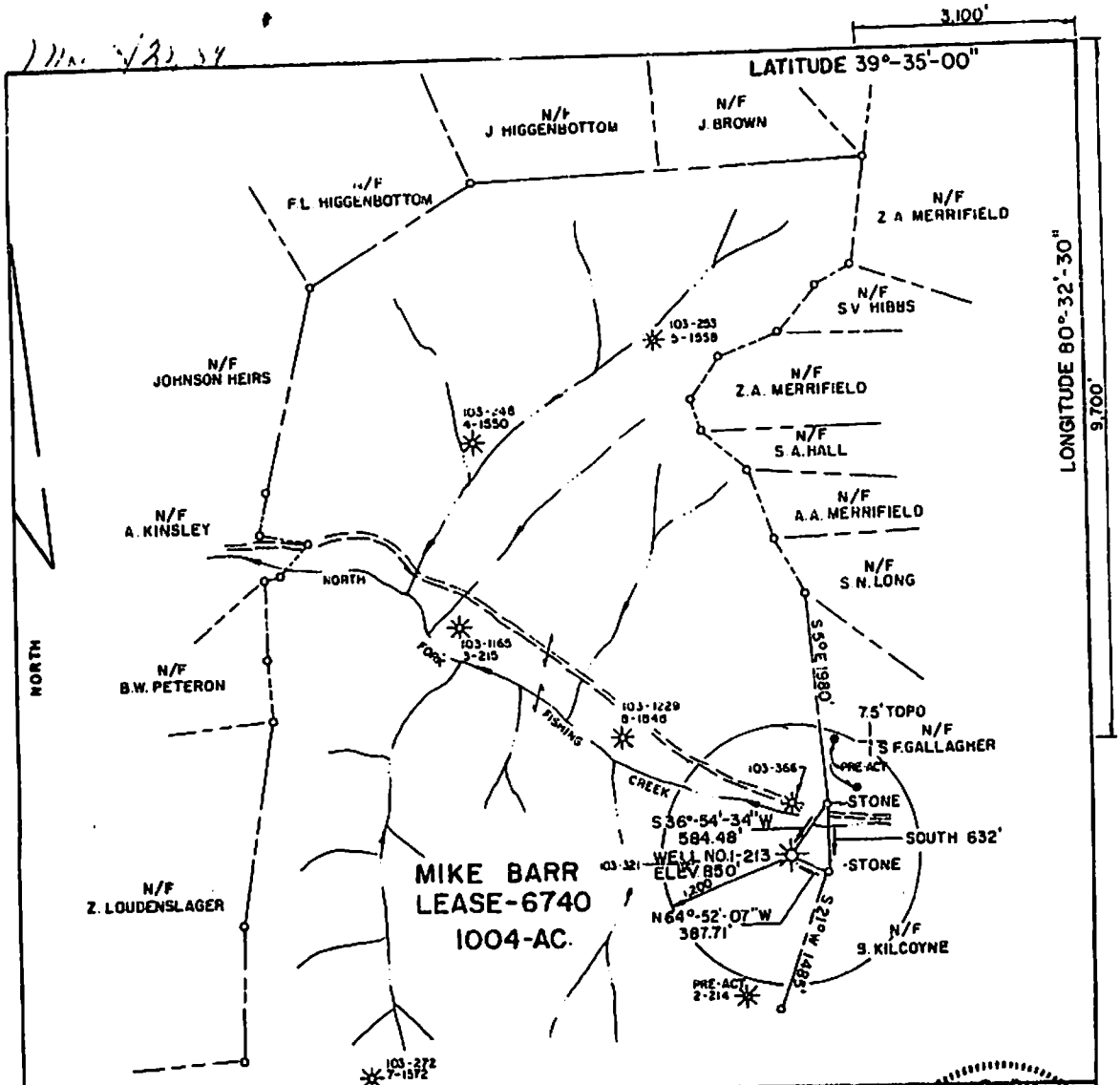

FILE NO.
DRAWING NO.
SCALE 1" = 1320'
MINIMUM DEGREE OF ACCURACY 1' IN 200'
PROVEN SOURCE OF ELEVATION B.M. AT MOBLEY
ELEV. = 885'

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 MINES.

(SIGNED) Duane R. Dishong
R.P.E. 8993 L.L.S.

DUANE R. DISHONG REGISTERED #8993 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

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

FORM IV-6
(8-78)

DATE JUNE 25, 19 84
OPERATOR'S WELL NO. 1-213
API WELL NO.
47 - 103 - 0798-DD
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 850' WATER SHED NORTH FORK FISHING CREEK
DISTRICT GRANT COUNTY WETZEL
QUADRANGLE BIG RUN
SURFACE OWNER BERNICE KILCOYNE ACREAGE 1004
OIL & GAS ROYALTY OWNER HOPE NATURAL GAS CO. LEASE ACREAGE 1004
LEASE NO. 6740
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BAYARD ESTIMATED DEPTH 3300'
WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT J.C. STEPHENSON, DIVISON SUPERINTENDENT
ADDRESS 800 REGIS AVE. ADDRESS P.O. BOX 387
PITTSBURGH, PA. 15236 MANNINGTON, WV 26582

L.E.M.

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10300798 P

3) API Well No. 47 State County Permit

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WV Department of Environmental Protection

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil ____ / Gas ____ /
B (If "Gas", Production X / Underground storage ____ / Deep ____ / Shallow ____ /

5) LOCATION: Elevation: 870' Watershed: North Fork of Fishing Creek
District: Grant County: Wetzel Quadrangle: Big Run

6) WELL OPERATOR Carnegie Natural Gas Co.
Address 800 Regis Avenue
Pittsburgh PA 15236

7) DESIGNATED AGENT J. C. Stephenson
Address Box 387
Mannington, WV 26582

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Louther
Address General Delivery
Middlebourne WV 26140

9) DRILLING CONTRACTOR:
Name Company Tools
Address

10) PROPOSED WELL WORK: Drill ____ / Drill deeper X / Redrill ____ / Stimulate ____ /
Plug off old formation ____ / Perforate new formation ____ /
Other physical change in well (specify) ____

11) GEOLOGICAL TARGET FORMATION, Bayard

12) Estimated depth of completed well, 3200 feet

13) Approximate trata depths: Fresh, Behind Pipe feet; salt, None feet.

14) Approximate coal seam depths: 600'-608' Is coal being mined in the area? Yes ____ / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water *	10"					519'	519'		
Coal *	1/4"					600'	600'		Sizes
Intermediate *	5/8"					1858'	1858'		
Production	5"	J-55	9.20	X			3200'		Depths set
Tubing									
Liners									Perforations:
									Top Bottom

*Existing Pipe In Well

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-0798-DD August 31, 19 84
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires August 31, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
		[illegible]	[illegible]	---

[signature]
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

Permit

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

Tally of 2 inch { casing / pipe

Weight _____ per Ft. Condition _____

Date Room Hill 213

Truck No. ANCHOR 28.75' Team 1.3' MID PACKER

No.	FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1	28	70	30	75	31	35	30	95	29	10		
2	31	65	31	10	30	70	28	70	30	90		
3	28	65	28	70	28	65	30	35	28	70		
4	28	45	31	15	30	40	31	55	31	70		
5	31	40	30	50	30	85	30	90	30	90		
6	28	10	29	65	31	05	31	50	28	65		
7	31	95	30	70	29	30	29	80	32	30		
8	30	30	31	30	30	75	28	70	30	85		
9	31	30	30	25	28	95	31	00	30	85	2693	50
10	29	50	30	60	30	80	29	00	31	65	OUT	
11	30	65	32	15	31	65	28	95	31	10	OUT	
12	31	40	30	10	29	60	30	90	28	90	OUT	
13	28	65	31	95	30	30	31	00	31	65	OUT	
14	29	90	31	50	31	50	28	95	30	00	OUT	
15	29	85	30	70	28	95	30	95	31	90	NO WELL	
16	29	00	30	75	31	05	30	70			OUT	
17	28	85	31	00	28	70	29	00				
18	31	70	30	75	30	75	28	80				
19	30	55	30	70	28	70	30	10				
20	28	95	28	95	31	80	28	30				
	600	—	613	45	606	—	600	10				

Total No. of Pieces _____ ; Length _____ ft. _____ in.

Remarks: PACKER AT 2685'

Tallied by TOTAL PIPE RUN W/PACKER 2715.25'

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Pitt
1030079 8P

Mike Barr 213 E-6740-74
August 13, 1985 2715 2"
Oil well Hook Wall 5" X 2" 2685

89 2" 1 2"

2686
2714
None
Mannington Whse. 2921 22/10 in ½"

2921
2715
206
2715
8
8½
8½
9
9½
170

2720 Billy J. Stiles

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MAY 12 2015
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	31	70	30	75	30	75	28	80				
	30	55	30	70	28	70	30	10				
	28	95	28	95	31	80	28	30				
	600	–	613	45	606	–	600	10				

Total No. of Pieces _____; Length _____ ft. _____ in.
Remarks: PACKER AT 2685'
Tallied by TOTAL PIPE RUN W/PACKER 2715.25'

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MAY 13 2015

WV Department of
Environmental Protection

103007980

WW-4-A
Revised 6/07

1) Date: May 11, 2015
2) Operator's Well Number
650516 (M. Barr #213)
3) API Well No.: 47 - 103 - 00798
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: John W. and Florence E. Kilcoyne
Address: Rt. #1 Box 28
Smithfield, WV 26437

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Derek Haught
Address: P. O. Box 85
Smithville, WV 26178
Telephone: (304) 206-7613

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

(b) Coal Owner(s) with Declaration
Name: Murray Energy Corporation
Address: 46226 National Road
St. Clairsville, OH 43950
Attn: Alex O'Neill

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: **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 12th day of May, 2015
Misty S. Christie Notary Public
My Commission Expires: 5/12/15

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.

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

103007798P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
660516 (M. Barr #213)
3) API Well No.: 47 103 - 00798

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: North Fork of Fishing Creek Quadrangle: Big Run

Elevation: 872 ft. County: Wetzel District: Grant

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:

X Land Application
___ Underground Injection - UIC Permit Number ____
___ Reuse (at API Number) ____
___ Offsite Disposal Permit #.
___ Other: Explain ____

DMH 6-1-15

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 12th day of May, 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

103000798P

OPERATOR'S WELL NO.:
650516 (M. Barr #213)

LEGEND

Property Boundary

Diversion

Road

Spring

Wet Spot

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

W

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		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: [illegible]

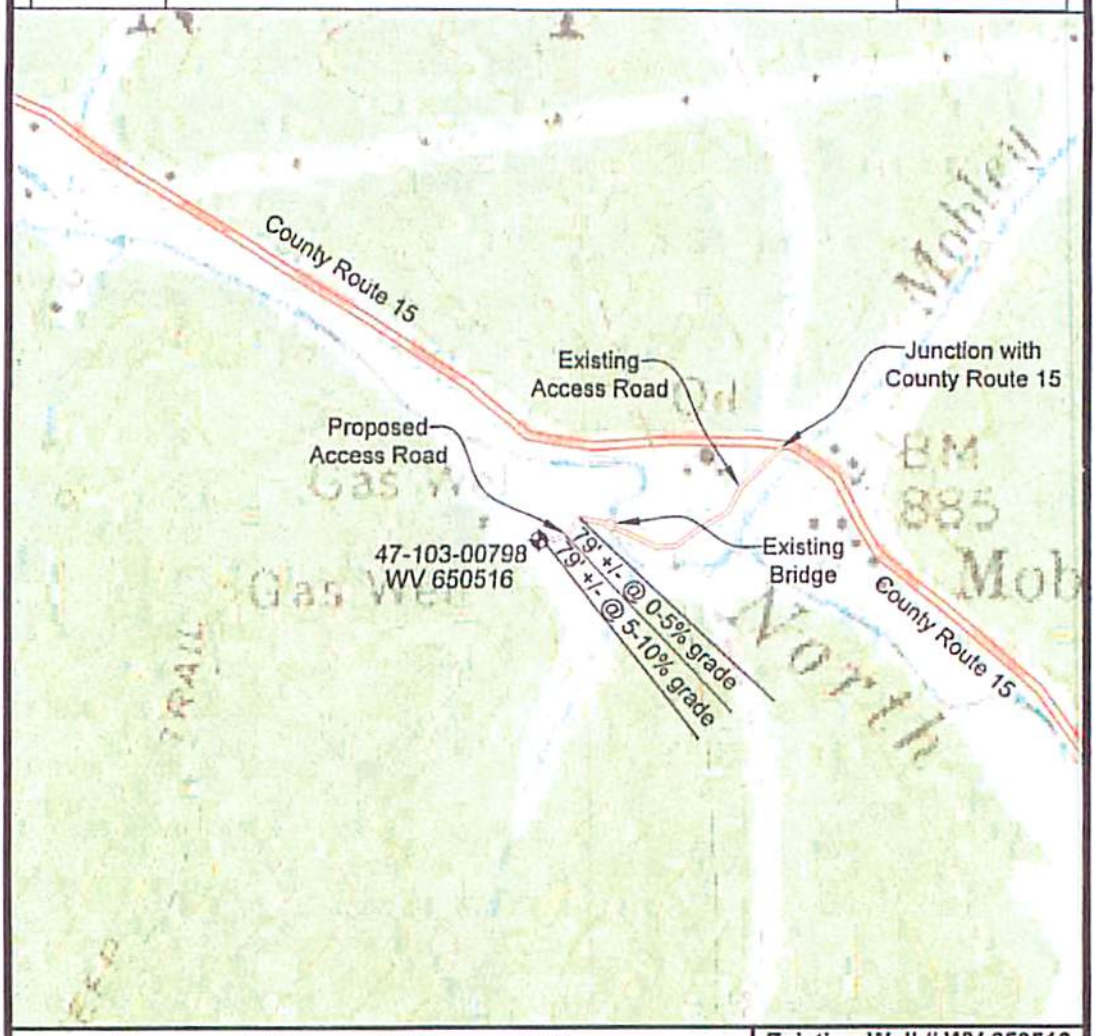
Comments: _____

Title: Oil & Gas Inspector Date: 6-1-15

Field Reviewed? ✓ Yes ____ No

10300798P

WW-9	47-103-00798 WV 650516 (M. Barr #213)	PAGE 1 OF 1



0' 500' 1000' 1500'

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 herson 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 seperate 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 650516
Loc. Detail 47-103-00798

DRAWING IS NOT TO SCALE

DRH 6-1-15

SECTION OF THE Vadis 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	DATE	FILE NO.	DRAWING FILE NO.
Tim Rutledge	March 10, 2015	40-34-00-09	40-09 WV 650516 Rec Plan

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

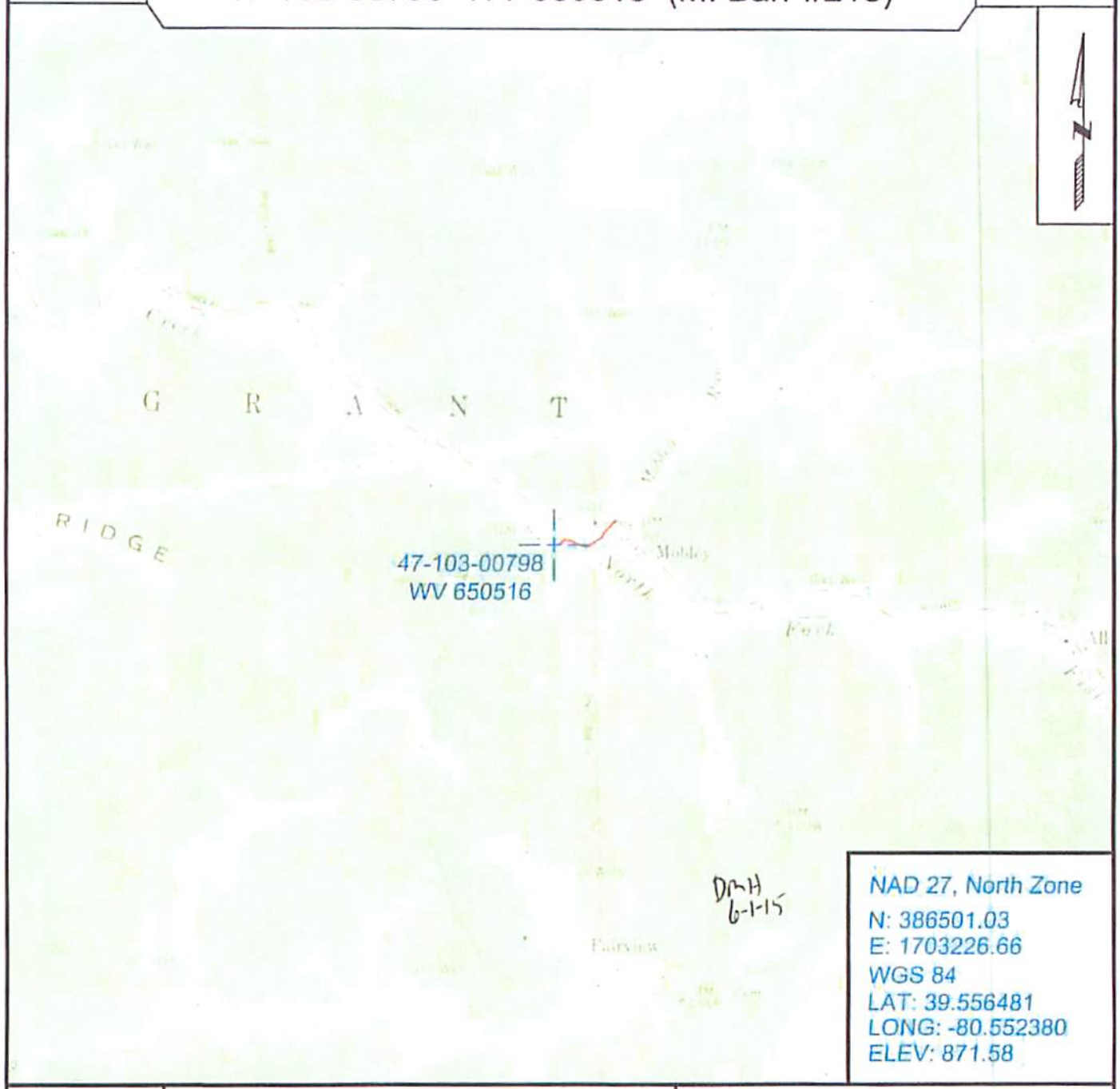
SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
Birch River Office
Phone: (304) 649-8606
Fax: (304) 649-8608
237 Birch River Road
Birch River, WV 26610
www.alleghenysurveys.com

10300798P

Topo Quad:	Big Run 7.5'	Scale:	1 " = 2000'
County:	Wetzel	Date:	March 06, 2015
District:	Grant	Project No:	40-34-00-09

47-103-00798 WV 650516 (M. Barr #213)

Topo



DMH
6-1-15

NAD 27, North Zone
N: 386501.03
E: 1703226.66
WGS 84
LAT: 39.556481
LONG: -80.552380
ELEV: 871.58

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

10300798P

WW-7
8-30-06

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

API: 47-103-00798 **WELL NO.:** WV 650516 (M. Barr #213)

FARM NAME: S. J. Kilcoyne

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel **DISTRICT:** Grant

QUADRANGLE: Big Run 7.5'

SURFACE OWNER: John W. and Florence E. Kilcoyne

ROYALTY OWNER: EQT Production Company

UTM GPS NORTHING: 4378629

UTM GPS EASTING: 538455 **GPS ELEVATION:** 266 m (872 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 and Gas
MAY 13 2015
WV Department of Environmental Protection

Signature	Title	Date
	PS #2180	4/7/15