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

August 04, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3502855, 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: PERKINS 511327
Farm Name: MILLER, BRIAN & KIMBERLY
API Well Number: 47-3502855
Permit Type: Plugging
Date Issued: 08/04/2014

Promoting a healthy environment.

3502855P

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.

3502855P

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

Date: 5-23-14
Operator's Well
Well No. 511327 EW Perkins 002428
API Well No.: 47 035 - 02855

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: 803 ✓ Watershed: Middle Fork of Pocatalico River
Location: Washington County: Jackson Quadrangle: Romance
District:

6) Well Operator: EQT Production Company
Address: 120 Professional Place
Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas Inspector Name: Jamie Stevens 304 206-7775
Address: 105 Kentuck Road
Kenna, WV 25248

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.

No well Record attached
See attached

OK Lateral Never Drilled
only top hole completed

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 [signature] Date 5/30/2014

3502825SP

47-035-02855P

PLUGGING PROGNOSIS –Weston

511327
Jackson County, West Virginia
API # 47-035-02855

BY: Beau Fry
DATE: 4/17/14

CURRENT STATUS:
13" csg @ 43'
9 5/8" csg @ 670' CTS
7" csg @ 1964' CTS
TD @ 1710'

Correct

Fresh Water @ 30' – 640' — Pittsburgh Sand
1st Salt Sand @ 1350'
Coal @ None reported
Gas Shows None Reported
Oil Shows @ None reported
Stimulation Not Fraced

1. Notify State Inspector, Jamie Stevens 304-206-7775, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1700'; Set 200' C1A Cement Plug @ 1700' to 1500' (7" csg pt – Big Lime)
3. TOOH w/ tbg @ 1500'; gel hole @ 1500' to 1350'.
4. TOOH w/ tbg @ 1350'; Set 100' C1A Cement Plug @ 1350' to 1250' (Salt Sand top)
5. TOOH w/ tbg @ 1250'; gel hole @ 1250' to 720'.
6. TOOH w/ tbg @ 720'; Set 150' C1A Cement Plug @ 720' to 570' (9 5/8" csg pt, FW show)
7. TOOH w/ tbg @ 570'; gel hole @ 570' to 200'.
8. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (Surface plug, FW show, 13" csg pt.)
9. Top off as needed
10. Set Monument to WV-DEP Specifications
11. Reclaim Location & Road to WV-DEP Specifications

Never chilled the lateral.
No completion Report only pipe tally.

Jamie Stevens 5/30/2014

35028255P

PLUGGING PROGNOSIS –Weston

511327
Jackson County, West Virginia
API # 47-035-02855

BY: Beau Fry
DATE: **4/17/14**

CURRENT STATUS: ELEV 803'
13" csg @ 43'
9 5/8" csg @ 670' CTS OK
7" csg @ 1964' CTS OK
TD @ 1710'

Fresh Water @ 30' – 640'
1st Salt Sand @ 1350'
Coal @ None reported
Gas Shows None Reported
Oil Shows @ None reported
Stimulation Not Fraced

1. Notify State Inspector, Jamie Stevens 304-206-7775, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1700'; Set 200' C1A Cement Plug @ 1700' to 1500' (7" csg pt – Big Lime) ✓
3. TOOH w/ tbg @ 1500'; gel hole @ 1500' to 1350'.
4. TOOH w/ tbg @ 1350'; Set 100' C1A Cement Plug @ 1350' to 1250' (Salt Sand top) ✓
5. TOOH w/ tbg @ 1250'; gel hole @ 1250' to 720'.
6. TOOH w/ tbg @ 720'; Set 150' C1A Cement Plug @ 720' to 570' (9 5/8" csg pt, FW show) ✓
7. TOOH w/ tbg @ 570'; gel hole @ 570' to 200'.
8. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (Surface plug, FW show, 13" csg pt.)
9. Top off as needed
10. Set Monument to WV-DEP Specifications
11. Reclaim Location & Road to WV-DEP Specifications

OK DWM

Received

MAY 28 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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MAY 28 2014
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WV Dept. of Environmental Protection

WELL #: 511327

PERMIT #: 47-035-02855

CrossRock 7

WELL RECORD

EQUITABLE PRODUCTION COMPANY

3502855P

WELL #: 511327

PERMIT #: 47-035-02855

WELL RECORD

EQUITABLE PRODUCTION COMPANY

Received
MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

FIELD

FARM

ACRES 30+/

CARTER COORD:

LONGITUDE: ° ' "

LATITUDE: ° ' "

ON WATERS OF Middle Frk of Pocatalico Crk.

DISTRICT Washington QUAD Romance

COUNTY Jackson

STATE WV

DATE SPUDDED

DATE COMPLETE

ELEVATION 803'

3502855P

TALLY OF PIPE USED IN NEW WELL
or
PIPE PULLED FROM ABANDONED WELL

Size 7" 8¾ hole Weight _____

Thread _____ Grade _____

FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1 42		41	20				
2 42	60	43	10				
3 39	70	37	10				
4 43	50	42	40				
5 43		42	50				
6 43	60	41	80				
7 42		42	40				
8 45		42	70				
9 43	80	41	10				
10 42	50	42	40				
11 42	50	42	30				
12 41	60	42	50				
13 42	50	41	50				
14 43	65	41	30				
15 43		42	60				
16 43	20	42	70				
17 42	50	42	60				
18 42	80	41	10				
19 43	10	42	70				
20 39	80	42	90				
21 41	10	43	50				
22 42	50	43	60				
23 42	20	42	50				
24 43	30	42	80				
25 35	50						

Length Run 1956 Feet

Total Joints Run 46 Pcs _____ SN

Total Depth Hole 1986

Unused 3 Jts 128.90 Feet

Unused Joints and Pieces:

3 JTS. 128.90'

Tallied By: Thomas Archer Date 10/22/08

TALLY OF PIPE USED IN NEW WELL
or
PIPE PULLED FROM ABANDONED WELL

Size _____ Weight _____

Thread _____ Grade _____

FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1							
2							
3							
4							
5							
6							
7							
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24							
25							

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Length Run _____ Feet

Total Joints Run _____ Pcs _____ SN

Total Depth Hole _____

Unused _____ Jts _____ Feet

Unused Joints and Pieces:

Tallied By: _____

35028555P

SURFACE CEMENTING RECORD

Surface Casing

Date 10/20/08 Service Co. BJ Services Time of Job 9:00 A.M.
Hole Size 12 3/8" Hole Depth 700' Casing Depth 670'
Casing: Size 9 5/8" Weight 32.3# Grade H-40 Thread 8-RD No. Jts. 15
Shoe: Type Guide Depth 670' Float: Type _____ Depth _____
No. Centralizers 5 Other Equipment 2 cement baskets

CEMENT DATA

(12)
Sacks 230 Sks. ⅜
Brand: _____
Type A
% Gel. _____
Other Admixes _____
Slurry Wt. 15.6 ppg. 1.18 yield

JOB DATA

Type: Circulate To surface Balance _____
Material Ran Ahead of Cement Water & gel
Cu. Ft. Cement Displaced _____
Pressure: Max. _____ Min. _____ Csg. Head _____
Cement Left in Pipe _____
How Measured: Displacement _____ Wireline _____
Fillup: Estimated _____ Actual _____
Type Cement Log _____

Remarks Circulated 6 BBLs. to surface

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MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

INTERMEDIATE CEMENTING RECORD

Date 10/22/08 Service Co. BJ Services Time of Job 11:00 A.M.
Hole Size 8 7/8" Hole Depth 1986' Casing Depth 1964'
Casing: Size 7" Weight 20# Grade J-55 Thread 8-RD No. Jts. 46
Shoe: Type Float Depth 1964' Float: Type _____ Depth _____
No. Centralizers 5 Other Equipment Cement baskets

CEMENT DATA

(13)
Sacks 119 Sks. 15/85 POZ, 100 Sks Type A
Brand: _____
Type _____
% Gel. _____
Other Admixes _____
Slurry Wt. 15/85 POZ = 12.3 ppg, 2.21 Yield
Type A: 15.6 ppg, 1.2 yield

JOB DATA

Type: Circulate _____ Balance _____
Material Ran Ahead of Cement Water & gel
Cu. Ft. Cement Displaced _____
Pressure: Max. _____ Min. _____ Csg. Head _____
Cement Left in Pipe _____
How Measured: Displacement _____ Wireline _____
Fillup: Estimated _____ Actual _____
Type Cement Log _____

Remarks Circulated 10 BBLs cement to surface

35028555P

FORMATION

NATURE OF STRATA	FROM	TO
Fill	0	20
Sand / Shale	54	204
Sand / Shale	204	504
Sand / Shale	504	700
Shale / Sand	700	900
Shale / Sand	910	1112
Shale / Sand	1112	1360
Maxton Sand Saltsand	1350	1670
Little Lime	1670	1710
Big Lime	1710	

(6)

RECORD

State depth and amount of all Gas, Oil, Water and Caves. Indicate whether water is Fresh or Salty.

Damp 30' ✓
Damp 640' ✓

(7)

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Office of Oil and Gas
WV Dept. of Environmental Protection

3502855P

TALLY OF PIPE USED IN NEW WELL
or
PIPE PULLED FROM ABANDONED WELL

Size 13 3/8" Weight

Thread 8-RD Grade

FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1 43							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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22							
23							
24							
25							

Length Run 43 Feet

Total Joints Run _____ Pcs _____ SN

Total Depth Hole 42

Unused _____ Jts _____ Feet

Unused Joints and Pieces:

Tallied By: Tom Archer Date 10/19/08

(24)

TALLY OF PIPE USED IN NEW WELL
or
PIPE PULLED FROM ABANDONED WELL

Size 9 5/8" Weight 32#

Thread 8-RD Grade H-40

FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1 44							
2 44	10						
3 44	10						
4 44							
5 44	10						
6 44	10						
7 44	10						
8 44	20						
9 44	20						
10 44	20						
11 44	20						
12 44	20						
13 44	20						
14 44	20						
15 44	20						
16 44	20						
17							
18							
19							
20							
21							
22							
23							
24							
25							

706.50

Length Run 662 Feet

Total Joints Run 15 Pcs _____ SN

Total Depth Hole 700'

Unused 1 Jts 44.2 Fee

Unused Joints and Pieces:

1 JT. 44.2'

Tallied By: Tom Archer Date 10/20/08

(25)

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MAY 28 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

3502855 P

TALLY OF PIPE USED IN NEW WELL
or
PIPE PULLED FROM ABANDONED WELL

Size 7" 8 3/4 hole Weight _____

Thread _____ Grade _____

FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1 42		41	20				
2 42	60	43	10				
3 39	70	37	10				
4 43	50	42	40				
5 43		42	50				
6 43	60	41	80				
7 42		42	40				
8 45		42	70				
9 43	80	41	10				
10 42	50	42	40				
11 42	50	42	30				
12 41	60	42	50				
13 42	50	41	50				
14 43	65	41	30				
15 43		42	60				
16 43	20	42	70				
17 42	50	42	60				
18 42	80	41	10				
19 43	10	42	70				
20 39	80	42	90				
21 41	10	43	50				
22 42	50	43	60				
23 42	20	42	50				
24 43	30	42	80				
25 35	50						

Length Run 1956 Feet

Total Joints Run 46 Pcs _____ SN

Total Depth Hole 1986

Unused 3 Jts 128.90 Feet

Unused Joints and Pieces:

3 JTS. 128.90'

Tallied By: Thomas Archer Date 10/22/08

(28)

TALLY OF PIPE USED IN NEW WELL
or
PIPE PULLED FROM ABANDONED WELL

Size _____ Weight _____

Thread _____ Grade _____

FEET	IN.	FEET	IN.	FEET	IN.	FEET	IN.
1							
2							
3							
4							
5							
6							
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21							
22							
23							
24							
25							

Length Run _____ Feet

Total Joints Run _____ Pcs _____ SN

Total Depth Hole _____

Unused _____ Jts _____ Feet

Unused Joints and Pieces:

Tallied By: _____ Date _____

(29)

Received

MAY 28 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

3502855P

BJ Feb 24/10

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

API # 4709502855

Farm Name MILLER, BRIAN, & KIMBERLY — Well Number 511327

Location Elevation 803 — Quadrangle ROMANCE

District Washington — County Jackson, WV

			Degree	Minute	Second
Latitude	13280	FSL	38.00	37.00	30.00
Longitude	10750	FWL	81.00	32.00	30.00

Company EQT Production Company
1710 Pennsylvania Avenue Charleston, WV 25328

Agent Cecil Ray

Inspector Jamie Stevens

Permit Issued 01/04/2008

Well Work Commenced 10/19/2008

Well Work Completed 10/24/08

Verbal Plugging
Permission granted on

Rotary Rig X Cable Rig

Total Depth 1,986

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cubic Ft
13 3/8	43	43	
9 5/8	670	670	278.30
7	1,964	1,964	386.20

Water Encountered

Type	From
Salt Water	Wet @ 1350'
Salt Water	4" @ 1986'

RECEIVED
Office of Oil & Gas
FEB 9 2010
WV Department of Environmental Protection

Coal & Open Mines

Type	From
none reported	

RECEIVED
Office of Oil & Gas
JUL 16 2010
WV Department of Environmental Protection

Open Flow Data

Producing Formation

Pay Zone Depth (ft): See attached for details

Gas: Initial Open Flow 0 MCF 10/28/09 Date — Oil: Initial Open Flow ____ Bbl/d

Final Open Flow 0 MCF ____ Date — Final Open Flow ____

Time of open flow between initial and final tests 0 hours

Static Rock Pressure 0 after 0 hours

Second Producing Formation ____ Pay Zone Depth (ft) ____

Gas: Initial Open Flow ____ MCF ____ Date — Oil: Initial Open Flow ____ Bbl/d

Final Open Flow ____ MCF ____ Date — Final Open Flow ____

Time of open flow between initial and final tests ____ hours

Static Rock 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, a systematic detailed geological record of all formations including coal encountered in the well bore

For Possible Production Company

By [signature]

Date 2-3-2010

3502855P

Well Number 511327

EQT Company
WR-35 Completion Report - Attachment
Well Treatment Summary

API #

Stage1	
Date	
FracType	
Zone	
# of Perfs	
From/To	—
BD Press	
ATP Psi	
Avg Rate	
Max Press Psi	
ISIP Psi	
10min SIP	5 min.
Frac Gradient	
Sand Proppant	
Water-bbl	
SCF N2	
Acid-gal	gal

Formation Name	Depth To	Depth Botto	Formation Thick
Sand and Shale	0.00	1,332	1,331.90
SALT SAND	1,331.90	1,674	341.99
LITTLE LIMESTONE	1,673.89	1719	45.11
BIG LIME	1,719.99	1,744	23.86
P1	1,743.85	1,774	29.95
P2	1,773.80	1,798	24.12
P3	1,797.92	1,817	19.14
P4	1,817.06	1,836	19.13
P5	1,836.19	1,845	9.00
P6	1,845.34	1,854	8.32
BIG INJUN SAND	1,853.66	1,986	132.34

Gas Tests

Depth	Remarks

not Reported

3502855P

WW-4-A
Revised 6/07

1) Date: 5-23-14
2) Operator's Well Number
511327 EW Perkins 002428
3) API Well No.: 47 035 - 02855
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: Brian & Kimberly Miller
Address: 5110 Middle Fork Rd
Advent, WV 25321

(b) Name
Address

(c) Name
Address

6) Inspector: Jamie Stevens
Address: 105 Kentuck Road
Kenna, WV 25248
Telephone: 304.206.7775

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

(b) Coal Owner(s) with Declaration
Name: EW Perkins Heirs
P.O. Box 273
Address: Charleston, WV 25321

Name
Address

(c) Coal Lessee with Declaration
Name: None
Address

Received
MAY 28 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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

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 27 day of May, 2014
Pamela Sykes Notary Public
My Commission Expires: 8-24-22

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.

3502855P

EQT

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

neopost
05/23/2014
US POSTAGE
FIRST-CLASS MAIL
$01.61
ZIP 26330
041L10228892

Received
MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Jamie Stevens
105 Kentuck Road
Kenna, WV 25248
Plugging 511327

35028559

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

SENDER: COMPLETE THIS SECTION

- 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.

1. Article Addressed to:

Brian & Kimiberly Miller
5110 Middle Fork Rd.
Advent, WV 25321
Plugging 511327

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

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

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service lab
7014 0510 0000 4439 4367

PS Form 3811, July 2013 Domestic Return Receipt

7014 0510 0000 4439 4367
7014 0510 0000 4439 4367

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 $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here

Total
Sent To
Street, or PO
City, St

Brian & Kimiberly Miller
5110 Middle Fork Rd.
Advent, WV 25321
Plugging 511327

PS Form 3800, August 2006 See Reverse for Instructions

Brian & Kimiberly Miller
5110 Middle Fork Rd.
Advent, WV 25321
Plugging 511327

Received
MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

neopost
05/23/2014
US POSTAGE
$07.61
ZIP 26330
041L10228892
FIRST CLASS MAIL

3502855P

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

SENDER: COMPLETE THIS SECTION

- 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.

1. Article Addressed to:

E.W. Perkins Heirs
P.O. Box 273
Charleston, WV 25321
Plugging 511327

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7014 0510 0000 4439 4350

PS Form 3811, July 2013 Domestic Return Receipt

CERTIFIED MAIL™

7014 0510 0000 4439 4350

7014 0510 0000 4439 4350

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 $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here
Total Pc

Sent To
E.W. Perkins Heirs
P.O. Box 273
Charleston, WV 25321
Plugging 511327
Street, Ap or PO Bo
City, State

PS Form 3800, August 2006 See Reverse for Instructions

E.W. Perkins Heirs
P.O. Box 273
Charleston, WV 25321
Plugging 511327

Received
MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

FIRST-CLASS MAIL
neopost
05/23/2014
US POSTAGE
$07.61
ZIP 26330
041L10228839

35 02855P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
511327 EW Perkins 002428
3) API Well No.: 47 035 - 02855

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: Middle Fork of Pocatalico River Quadrangle: Romance

Elevation: 803 County: Jackson District: Washington

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 MIL.

Proposed Disposal Method for Treated Pit Wastes:

- X 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
MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Company Official Signature ____

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 27 day of May, 2014

Notary Public ____

My Commission Expires 8-24-22

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

API# 47-035-02855 P

OPERATOR'S WELL NO.:
511327 EW Perkins 002428

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

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 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

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Area II

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopies section of involved 7.5' topographic sheet.

47-035-02855P

Plan approved by: James S. Stevens, Jr.

Comments:

Title:

Date: 5/30/2014

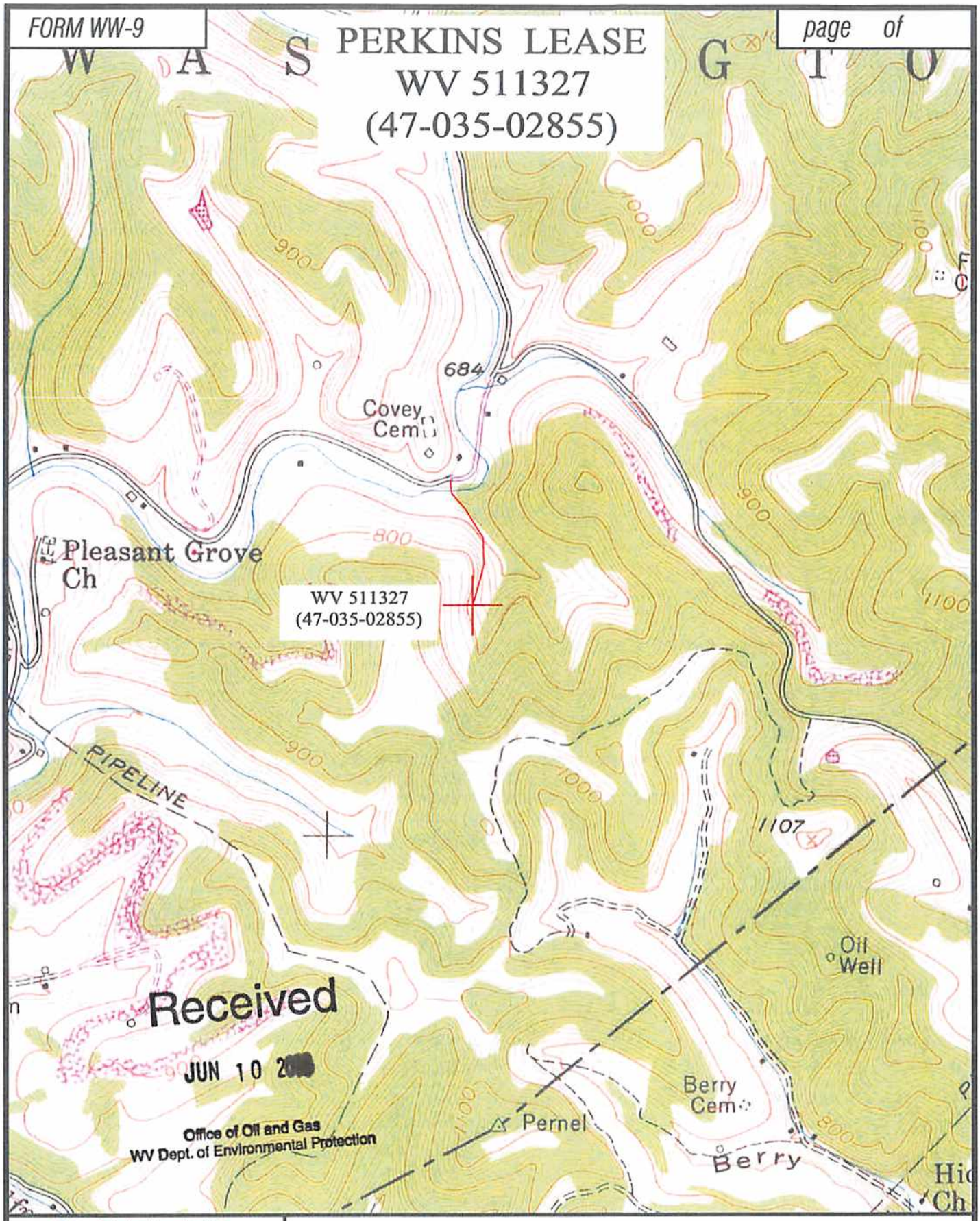
Field Reviewed? ✓ Yes ____ No

35 02855P

FORM WW-9

page of

PERKINS LEASE
WV 511327
(47-035-02855)



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING
SLS

TOPO SECTION OF: ROMANCE 7.5'

FILE NO. 8247 DATE: 06/09/14 SCALE: 1"=1,000'

35 02855P

WW-7
8-30-06

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

API: 47-035-02855 WELL NO.: WV 511327

FARM NAME: Perkins Lease

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Jackson DISTRICT: Washington

QUADRANGLE: Romance 7.5'

SURFACE OWNER: Brian E. & Kimberly R. Miller

ROYALTY OWNER: Perkins Heirs

UTM GPS NORTHING: 4271275

UTM GPS EASTING: 449565 GPS ELEVATION: 240 m (787 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 ____

Received

JUN 10 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

C. Victor Mayne — Signature

Senior Surveyor, PS 849 — Title

6/9/14 — Date

35 02855P

FORM WW 6

PERKINS LEASE
30,000 ACRES±
WELL NO. WV 511327

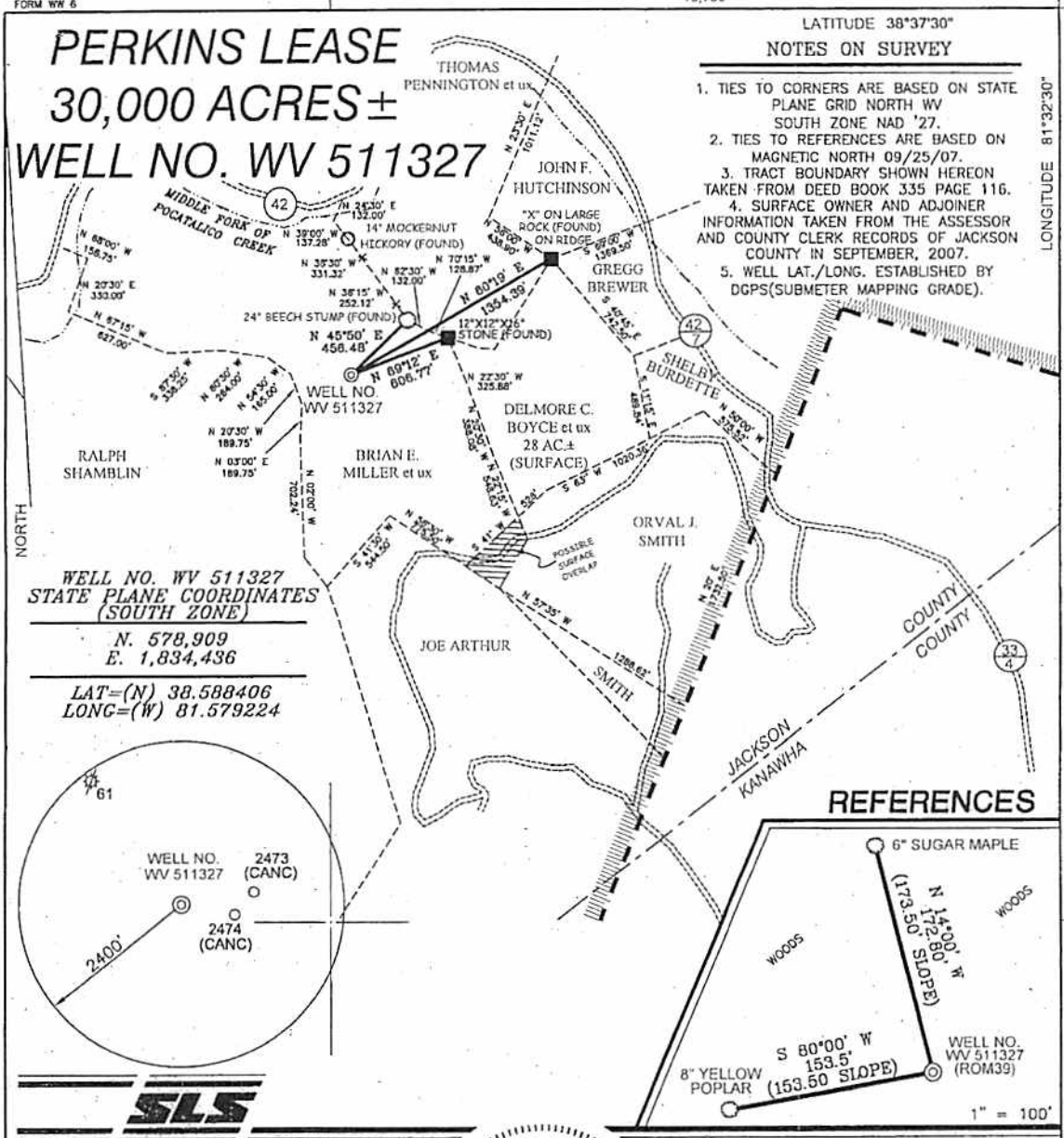
LATITUDE 38°37'30"

LONGITUDE 81°32'30"

10,750'

13,280'

NORTH



NOTES ON SURVEY

1. TIES TO CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 09/25/07.
3. TRACT BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 335 PAGE 116.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF JACKSON COUNTY IN SEPTEMBER, 2007.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

WELL NO. WV 511327
STATE PLANE COORDINATES (SOUTH ZONE)

N. 578,909
E. 1,834,436

LAT=(N) 38.588406
LONG=(W) 81.579224

REFERENCES

SLS

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE OCTOBER 15, 20 07

OPERATORS WELL NO. WV 511327

API WELL NO. 47 — 035 — 02855P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5478P511327 (247-21)

SCALE 1" = 800'

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
ELEVATION 803' WATERSHED MIDDLE FORK OF POCATALICO CREEK
DISTRICT WASHINGTON COUNTY JACKSON QUADRANGLE ROMANCE 7.5'
SURFACE OWNER BRIAN E. & KIMBERLY R. MILLER ACREAGE 60±
ROYALTY OWNER PERKINS HEIRS LEASE ACREAGE 30,000±
PROPOSED WORK: LEASE NO 002428
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION DEVONIAN SHALE
ESTIMATED DEPTH 5,500'

COUNTY NAME

PERMIT

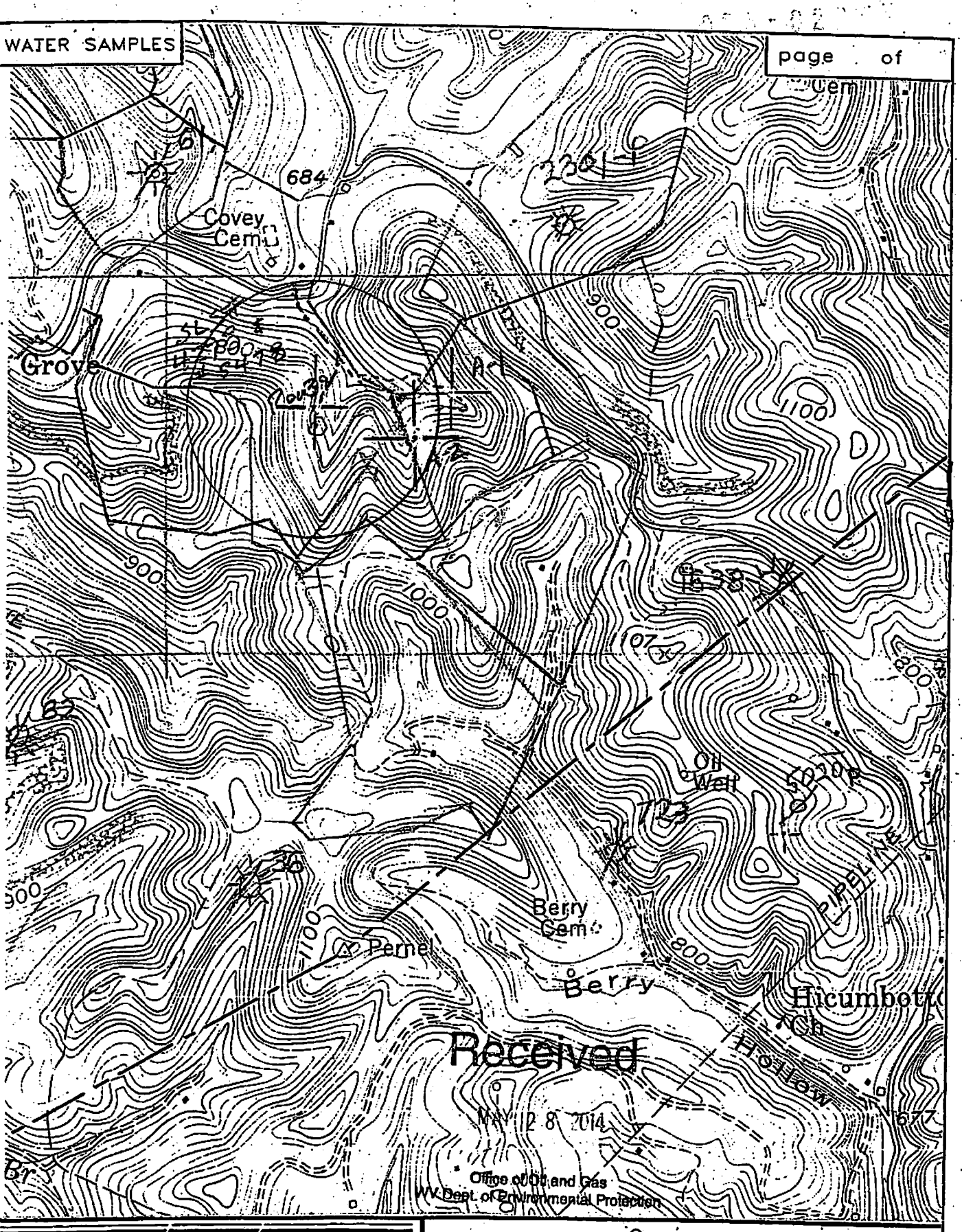
Received
MAY 2 8 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

WELL OPERATOR EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT L. TODD TETRICK
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

3502855P

WATER SAMPLES

page of



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MAY 28 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

SLS

SMITH LAND SURVEYING
P.O.BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF Romance 7.5'

FILE NO. 5478 DATE 10-15-07 SCALE 1" = 1000'