



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

February 11, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100564, 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: 1574
Farm Name: WHITING, LEE R.
API Well Number: 47-2100564
Permit Type: Plugging
Date Issued: 02/11/2014

Promoting a healthy environment.

02/14/2014

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.

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

Date: January 23, 2014
Operator's Well _____
Well No. 656201 Whiting 1574
API Well No.: 47 021 - 00564

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: 1113 Watershed: Cedar Creek of Little Kanawha River
Location: DeKalb 2 County: Gilmer Quadrangle: Tanner 634
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.

Tag all plugs

RECEIVED
Office of Oil and Gas

FEB 04 2014

WV Department 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 Bryan S. Harris Date 2-3-14

PLUGGING PROGNOSIS - Weston

Whiting # 1574 (656201)

GILMER, County, WV
API # 47-021-00564
DeKalb District

BY: Craig Duckworth
DATE: 11/13/13

CURRENT STATUS:

10" csg @ 176'
8 5/8" csg @ 1114'
3" tbg @ 1532' (packer @ 1480')

TD @ 1532'

Fresh Water @ None reported	Salt Water @ None reported	PERFS. 1504 - 1508
1" Salt Sand @ 1270'	Coal @ None reported	PERFS. 1518 - 1531
Gas shows @ 1520'; 1505'		
Oil Shows @ None reported		
Stimulation: None reported		

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. Attempt to pull 3" & packer (1480'). If unable to pull 3" cut at top of packer@ 1480' and pull 3"
3. TIH w/ tbg @ 1480'; Set 100' C1A Cement Plug @ 1480' to 1380' (gas show@ 1520' & 1505')
4. TOO H w/ tbg @ 1380'; gel hole @ 1380' to 1270'.
5. TOO H w/ tbg @ 1270'; Set 100' C1A Cement Plug @ 1270' to 1064'(Salt Sand @ 1270' & 8 1/4" csg @ 1114')
6. TOO H w/ tbg, Free Point 8 5/8", cut 8 5/8" @ free point, TOO H w/ 8 5/8" csg
7. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 5/8" cut. Do not omit any plugs
8. TIH w/ tbg @ 1064; gel hole @ 1064' to 550'
9. TOO H w/ tbg @ 550'; Set 100' C1A Cement Plug @ 550' to 450'(Safety Plug)
10. TIH w/ tbg @ 450'; gel hole @ 450' to 250'
11. TOO H w/ tbg @ 250'; Set 250' C1A Cement Plug @ 250' to 0'(10" csg @ 176')
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

6% BENTONITE GEL MUST BE PLACED BETWEEN PLUGS.

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Office of Oil and Gas
JAN 20 2014
WV Department of Environmental Protection

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

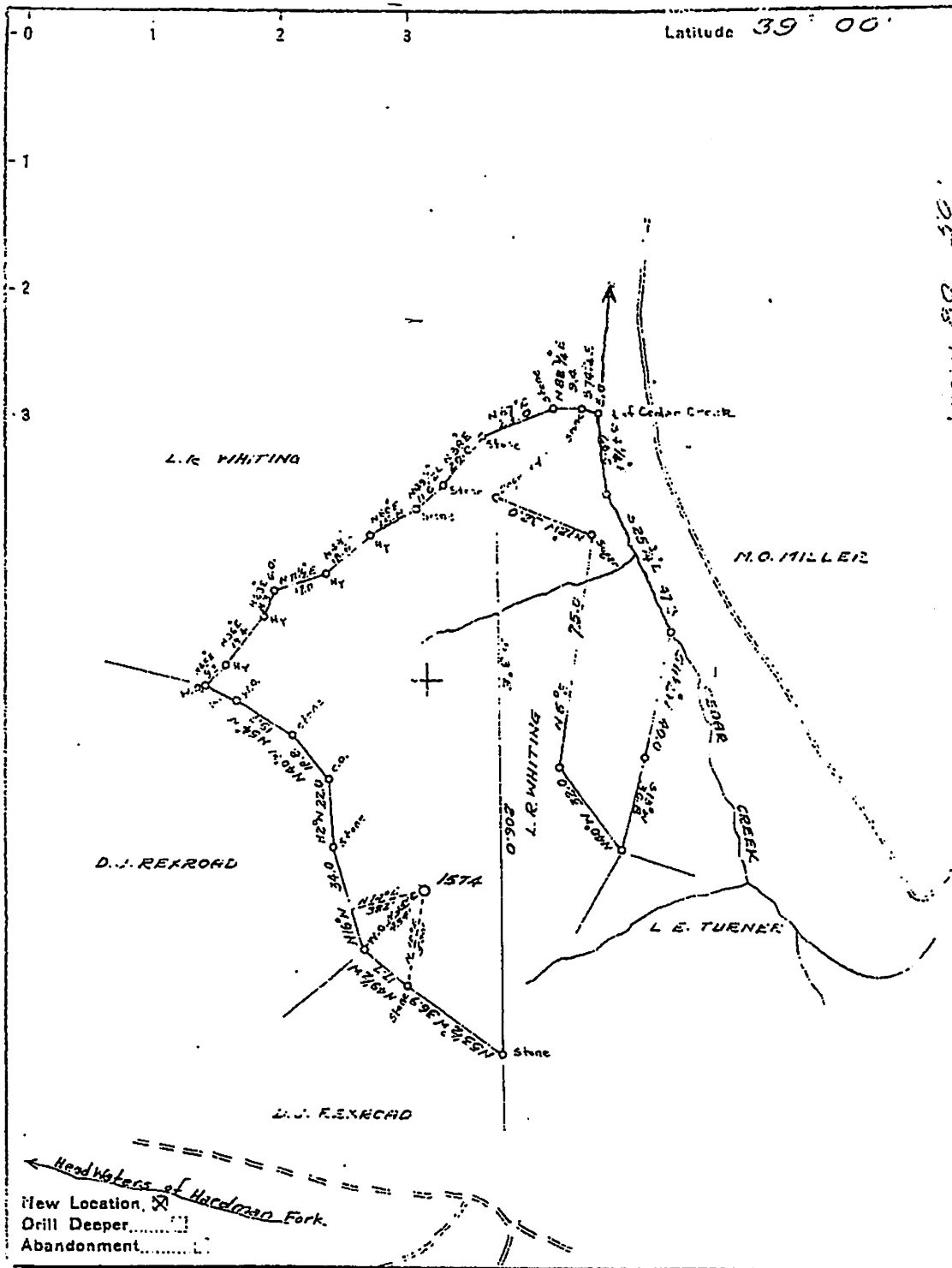
Permit No. Gil 564		Gas Well
Glenville N.W.		CASING & TUBING
Company	Carnegie Natural Gas Company	10 176 176
Address	1014 Frick Bldg., Pittsburg, Pa.	8½ 1114 1114
Farm	Lee R. Whiting Acres 62	3 1532 1532
Location	Cedar Creek	
Well No	1-1574	Elev. 1099.96
District	DeKalb	Gilmer County
Surface	Lee R. Whiting, Glenville, W.Va.	Bottom Hole Packer
Mineral	Lee R. Whiting, Glenville, W.Va.	8½ x 10" set 1114'
Commenced	Oct. 14, 1942	Anchor
Completed	Oct. 31, 1942	3" x 8½"
Flow	60/10ths W in 2"	Depth 1480
Volume	327,000 C.F.	Perf. top 1504
Rock Pressure	410 lbs. 72 hrs.	Perf. bot 1508
		Perf. top 1518
		Perf. bot 1531

Clay	R	S	0	10	
Lime	Dl	H	10	30	
Red Rock		S	30	110	
Slate	Gr	S	110	150	
Sand	Wh	H	150	182	
Slate	Wh	S	182	200	
Red Rock		S	200	225	
Sand	Wh	H	225	255	
Red Rock		S	255	270	
Limo	Wh	H	270	285	
Red Rock		S	285	320	
Slate	Lt	S	320	400	
Red Rock		S	400	470	
Slate	Lt	S	470	500	
Red Rock		S	500	600	
Slate	Lt	S	600	655	
Red Rock		S	655	685	
Slate	Lt	S	685	775	
Sand	Gr	H	775	800	Little Dunkard
Slate	Dk	S	800	860	
Sand	Lt	H	860	885	
Slate	Lt	S	885	900	
Sand	Lt	H	900	965	
Slate	Dk	S	965	1005	Big Dunkard
Sand	Lt	H	1005	1020	
Slate	Lt	S	1020	1095	
Sand	Gr	H	1095	1175	Gas Sand
Slate	Bk	S	1175	1270	
Sand	Lt	H	1270	1350	1st Salt Sand
Slate	Lt	S	1350	1430	
Sand	Lt	H	1430	1490	2nd Salt Sand
Slate	Lt	S	1490	1502	
Sand	Lt	H	1502		3rd Salt Sand
TOTAL DEPTH				1532'	

Gas 1505-8; 1520-28', 327,000 C.F.

Steel Line run at 1114' - 1510' - 1532'

SEARCHED
INDEXED
SERIALIZED
FILED
OCT 14 1942
FBI - PITTSBURGH



New Location
 Drill Deeper
 Abandonment

Company CARNERIE NATURAL GAS
 Address PITTSBURGH, PA.
 Farm L.R. WHITING
 Tract _____ Acres 6.2 Lease No. E-16722-20
 Well (Farm) No. 1 Serial No. 1574
 Elevation (Spirit Level) 1099.96
 Quadrangle GLENNVILLE, W.V.
 County GILMER District DEKALE
 Engineer G.T. BRITTON
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date AUG. 12 1942 Scale 1" = 25 ACRES

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

WELL LOCATION MAP
 FILE NO. G.I.L. - 564

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500. latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

180-4

WW-4-A
Revised 6/07

1) Date: January 23, 2014
2) Operator's Well Number
656201 Whiting 1574
3) API Well No.: 47 021 - 00564
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 Thelma V Brady (Life Estate) ✓
Address 1634 Lower Cedar Creek Rd
Glenville, WV 26351
(b) Name Debora J Dobbins ✓
Address 3951 Lower Cedar Creek Rd
Glenville, WV 26351
(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 Roberta Sue Jenkins
14944 Jack Run Road
Address Rockbridge, OH 43149-9680
Name SEE ATTACHED
Address _____
(c) Coal Lessee with Declaration
Name _____
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:
Name: _____
Address: _____
Telephone: _____

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

Subscribed and sworn before me this _____ day of _____, 2014
Pamela Sykes
My Commission Expires: 8-24-22

23 day of January, 2014
Notary Public

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.

WW2-A

Additional Coal Owners:

Sonya Post ✓
1107 Fordland Dr
Halifax, WV 24558-2695

Floy Smith ✓
1355 East Ave
Elyria, OH 44035-8169

Sally Diehl Smith ✓
RD 1 Box 279
Williamson, WV 25661-9749

Robert Hays ✓
32 Alpine Drive South
Winter Haven, FL 33881

David Hays ✓
4 Flamingo Blvd
Winter Haven FL 33880

Michael Hays ✓
2487 St Augustine Blvd
Haines City FL 33844-2420

Larry S Hall ✓
1919 Elm Ave
Cincinnati OH 45212-2527

Jeffery L Hall ✓
109 A Beckon Ridge Rd
Duncan, SC 29334-9776

Cathy L Carson ✓
852 Garrett Parkway
Newark, OH 43055-1663

Karla Jo Baxter ✓
3207 Scenic Bluff Dr
Columbus, OH 43231-6726

Heidi Lynn Bailey ✓
653 Hillard Rd Apt 2
Elyria OH 44035-3721

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JAN 9 2014
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Program

02/14/2014

Additional Coal Owners:

Dee A Hall ✓
118 Williams St Apt K 105
Elyria OH 44035-6128

Madalyn J Giles & Rhea Kaye Miller ✓
33467 Cherry St
Avon, OH 44011-2035

Anne Boswell ✓
1431 Winslow Dr
Hudson, OH 44236-3853

Sharon G Pottorf ✓
7020 Bramble Ave
Cincinnati OH 45227-3210

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Office of Oil and Gas
JAN 28 2014
Ohio Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: _____

Watershed: Cedar Creek of Little Kanawha River Quadrangle: Tanner

Elevation: 1113 County: Gilmer District: DeKalb

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X

Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:

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

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____

Landfill or offsite name/permit number? _____

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

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

Company Official Signature *Victoria Roark*

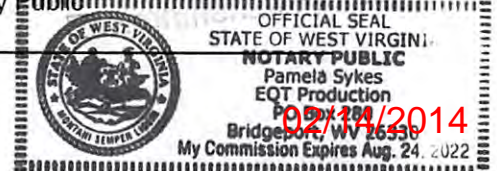
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23 day of January, 2014

Pamela Sykes Notary Public

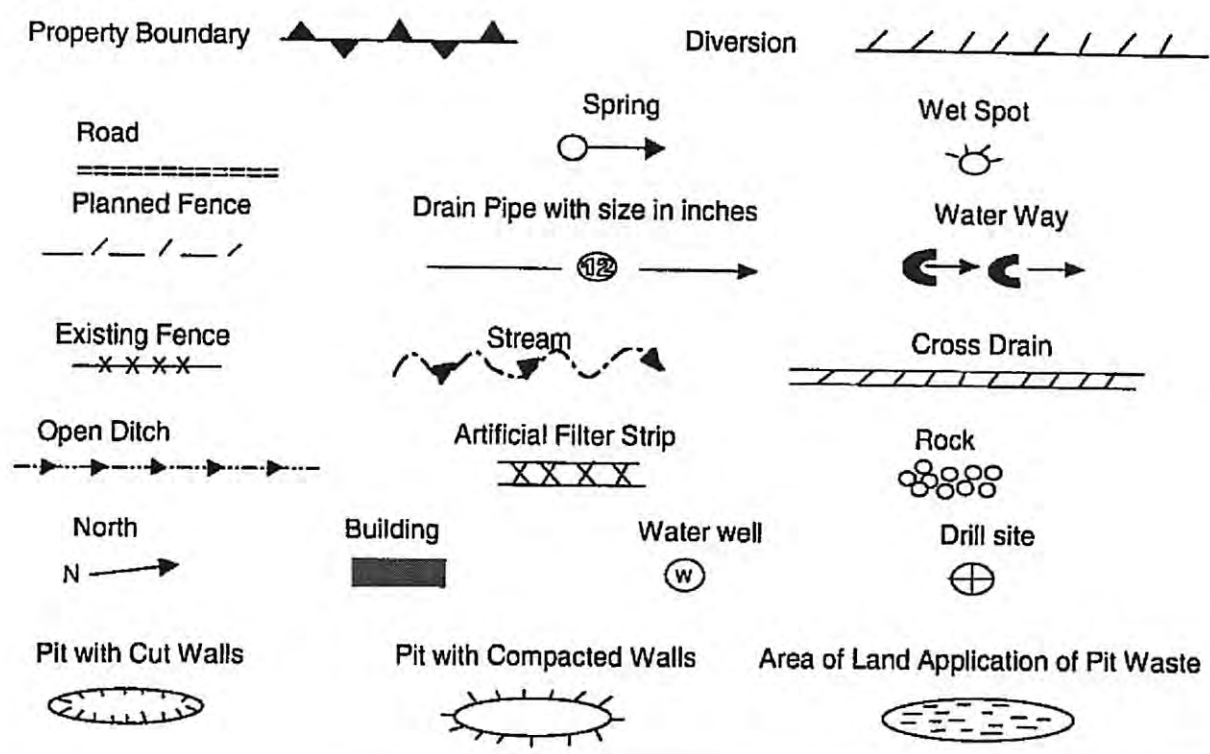
My Commission Expires 8-24-22



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OIL & GAS DIVISION

OPERATOR'S WELL NO.:
656201 Whiting 1574

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		

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Office of Oil and Gas

ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Bryan O'Hara

Comments: _____

FEB 04 2014

WV Department of Environmental Protection

Title: Oil & Gas Inspector Date: 2-3-14

Field Reviewed? Yes No

2100564P

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: December 16, 2013

District: Dekalb

Project No: 25-19-00-07

47-021-00564 WV 656201 (Lee R. Whiting 1574)

Topo



NAD 27, South Zone
 N: 700,835.54
 E: 2,025,041.16
 WGS 84
 LAT: 38.924671
 LONG: -80.911816
 ELEV: 1112.70



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

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
 02/14/2014

WW-7
8-30-06



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

API: 47-021-00564 WELL NO.: WV 656201 (Whiting 1574)
 FARM NAME: Lee R. Whiting
 RESPONSIBLE PARTY NAME: EQT Production Company
 COUNTY: Gilmer DISTRICT: Dekalb
 QUADRANGLE: Tanner 7.5'
 SURFACE OWNER: Deborah J. Dobbins
 ROYALTY OWNER: Carnegie Natural Gas Company, et al.
 UTM GPS NORTHING: 4308421
 UTM GPS EASTING: 507644 GPS ELEVATION: 339 m (1113 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.

Signature

Stacy O'Brien
1/6/14

Date

Title

PS #2180

02/14/2014



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Whiting 1574 - WV 656201 - API No. 47-021-00564

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 656201.

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JAN 23 2014

BIRCH RIVER OFFICE
P.O. Box 438 • 237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

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

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

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: December 16, 2013

District: DeKalb

Project No: 25-19-00-07

Water

47-021-00564 WV 656201 (Lee R. Whiting 1574)

No potential water wells within 1000'

47-021-00564
WV 656201

NAD 27, South Zone
N: 700,835.54
E: 2,025,041.16
WGS 84
LAT: 38.924671
LONG: -80.911816
ELEV: 1112.70



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FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

02/14/2014