



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

May 20, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3302823, 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: 12777
Farm Name: CAIN, MARY
API Well Number: 47-3302823
Permit Type: Plugging
Date Issued: 05/20/2016

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.

ck #
20442

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

Date: April 12, 2016
Operator's Well
Well No. 452131 (Consolidated Coal Co. W-12777)
API Well No.: 47 33 - 02823

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: 1071 ft. Watershed: West Fork River
Location: Clay County: Harrison Quadrangle: Clarksburg 7.5'
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 Sam Ward
Name: P. O. Box 2327
Address: Buckhannon, WV 26201

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

S. J. DeWanna Date 5/12/2016

PLUGGING PROGNOSIS

Consolidated Coal # 12777 (452131)
 District Clay
 Harrison Co. WV
 API # 47-033-02823

BY: R. Green
 DATE: 10/5/15

CURRENT STATUS:

Elevation @ 1073'
 TD at 2741'

13" casing @ 137'
 85/8" csg @ 827'
 4 1/2" csg @ 2691'

Fresh Water @ 112', 165', & 945'
 Coal, @ 127'to133'
 Saltwater @ none reported
 Perforations from 2568' to 2602' (8 holes)

1. Notify State Inspector, Sam Ward, 304-389-7583, 24 hrs. in advance of commencing operations.
2. TIH tbg to 2650', ^{SPOT GEL} set 200' C1A cement plug 2650' to 2450'.
3. TOOH tbg to 2450', gel hole 2450' to 1500' TOOH tbg.
4. Free point 4 1/2" casing, cut casing @ free point (EST@1300'), TOOH csg.
5. Set 100' C1A cement plug 50' in/out of cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
6. TOOH tbg to 1250', gel hole 1250' to 1100'.
7. TOOH tbg to 1100' set 300' C1A cement plug 1100' to 800' (8 5/8" casing seat, elevation).
8. TOOH tbg to 800', gel hole 800' to 300'.
9. TOOH tbg to 300', set 300' C1A cement plug 300' to surface. (13" casing seat). ^{← cone}
10. Erect monument with API# and date.
11. Reclaim location and road to WV-DEP specifications.

SDW
 5/12/2016

(REVERSE)

HAR-2823

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

Fifth Sand fractured with 75,000# sand, 700 bbls. 20# gel and 500 gals. Mud Acid.
 Perforations: 2568-2573 with 5 holes, 2593-2590 with 1 hole and 2598-2602 with 2 holes.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Clay			0	5	
Sand & Rock			5	127	Water at 112'
Coal			127	133	
Sand			133	177	Water at 165'
Shale & Sand			177	397	
Red Rock			397	405	
Sand & Shale			405	905	
Sand			905	990	Water at 945'
Shale			990	1118	
Sand			1118	1195	
Shale			1195	1295	
Red Rock			1295	1500	
Lime			1500	1610	
Sand			1610	1681	
Shale			1681	1809	
Sand & Shale			1809	1908	
Shale			1908	2045	
Sand			2045	2100	
Shale			2100	2135	
Sand			2135	2200	
Shale & Sand			2200	2283	
Shale			2283	2332	
Sand			2332	2351	
Shale			2351	2426	
Sand			2426	2460	
Red Rock			2460	2491	
Sand			2491	2510	
Shale			2510	2575	
Sand			2575	2620	
Shale			2620	2750	T.D.
KBM 9' above G. L.					
Gamma Ray Tops					
Little Lime			1482	1496	
Big Lime			1530	1574	
Big Injun			1594	1680	
Pocono			1697	1719	
Berea			1804	1828	
Gantz A			2057	2103	
Fifty Foot			2130	2183	
Thirty Foot			2180	2226	
Gordon Stray			2238	-	
Gordon			-	2410	
Fourth			2418	2460	
Fourth A			2497	2528	
Fifth			2568	2603	
Total Depth				2741	

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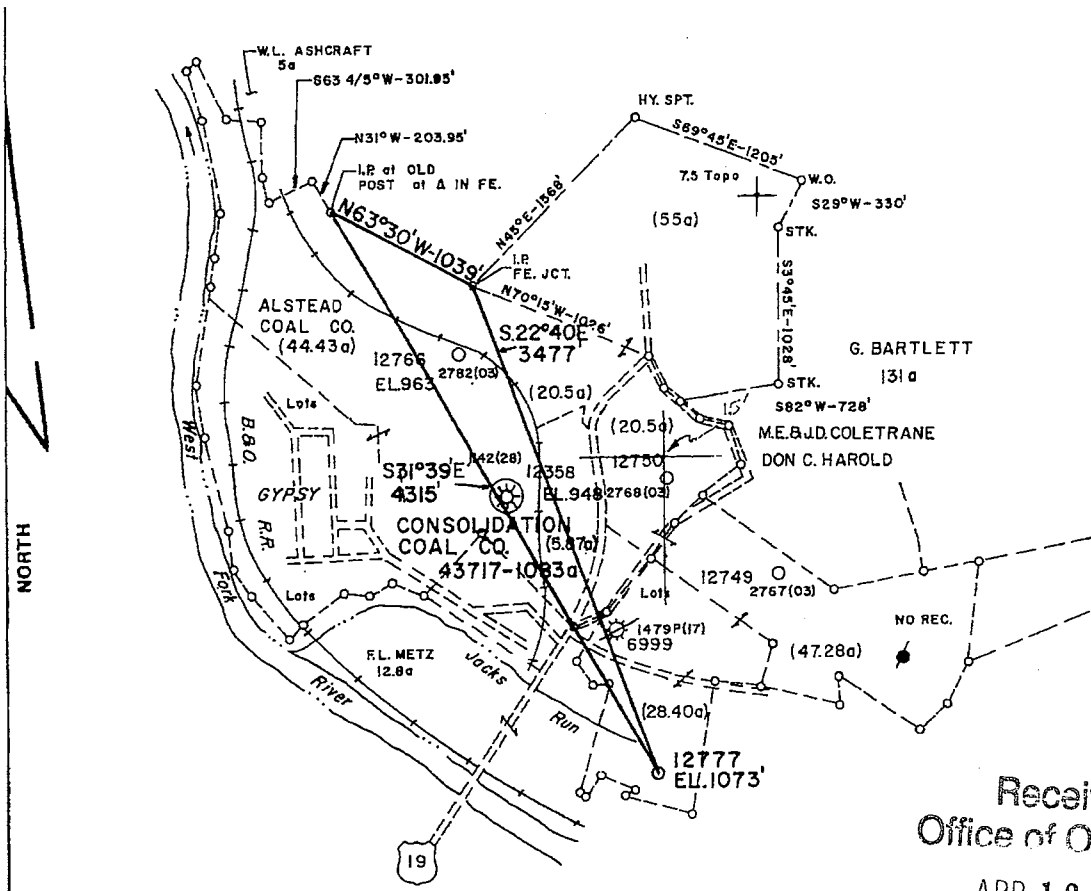
Consolidated Gas Supply Corp.
 Well Operator
 By: *J. E. Payne* Manager of Production
 Date: *12/6/82*

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic

3302823P

LATITUDE 39°22'30"

LONGITUDE 80°17'30"



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MAP SHEET 41-S7 E17 FB.2093 PG.34-37

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1' in 200'
PROVEN SOURCE OF
ELEVATION C.G.S.C. PLUGGED
WELL 12358 EL.948

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) Samuel M Radcliffe
R.P.E. _____ L.L.S. 74

PLACE SEAL HERE

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
FORM IV-6
(8-78)



DATE JUNE 16, 1982
OPERATOR'S WELL NO. 12777
API WELL NO. _____
47 - 033 - 2823
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS.") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 1073' WATER SHED WEST FORK RIVER
DISTRICT CLAY COUNTY HARRISON
QUADRANGLE CLARKSBURG 7.5
SURFACE OWNER MARY CAIN ACREAGE 16.73a
OIL & GAS ROYALTY OWNER CONSOLIDATION COAL CO. LEASE ACREAGE 1083a
LEASE NO. 43717
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ 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 _____ ESTIMATED DEPTH _____
WELL OPERATOR CON. GAS SUPPLY CORP. DESIGNATED AGENT THOMAS A. KUHN
ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET
CLARKSBURG, WEST VIRGINIA CLARKSBURG, WEST VIRGINIA

05/20/2016

1) Date: April 12, 2016
2) Operator's Well Number
452131 (Consolidated Coal Co. W-12777)
3) API Well No.: 47 33 - 02823
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:	5) (a) Coal Operator:
(a) Name <u>Gypsy LLC</u>	Name <u>None</u>
Address <u>P. O. Box 9</u>	Address _____
<u>Shinnston, WV 26431</u>	_____
(b) Name <u>Rick Hursey</u>	(b) Coal Owner(s) with Declaration <u>Attention: Alex O'Neill</u>
Address <u>P. O. Box 9</u>	Name <u>Murray Energy Corporation</u>
<u>Shinnston, WV 26431</u>	Address <u>46226 National Road</u>
_____	<u>St. Clairsville, OH 43950</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 2327</u>	Name <u>None</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>(304) 389-7583</u>	_____
_____	_____

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

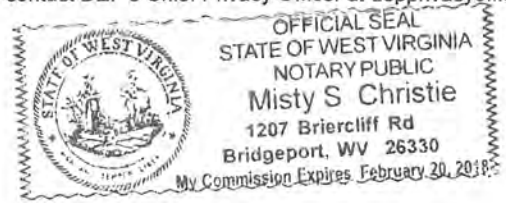
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have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

Subscribed and sworn before me this 15th day of April, 2016
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.



Office of Oil & Gas

APR 18 2016

05/20/2016

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: West Fork River Quadrangle: Clarksburg 7.5'
Elevation: 1071 ft. County: Harrison District: Clay

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.? 20 mil. TO ml

Proposed Disposal Method for Treated Pit Wastes:
 Land Application
 Underground Injection - UIC Permit Number
 Reuse (at API Number) - various
 Offsite Disposal Permit #. See attached.
 Other: Explain _____
SDW
5/12/2016

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? _____

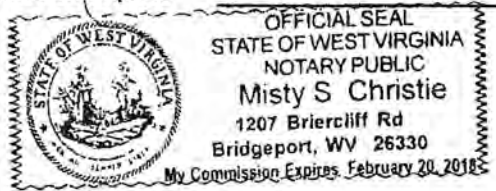
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of 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

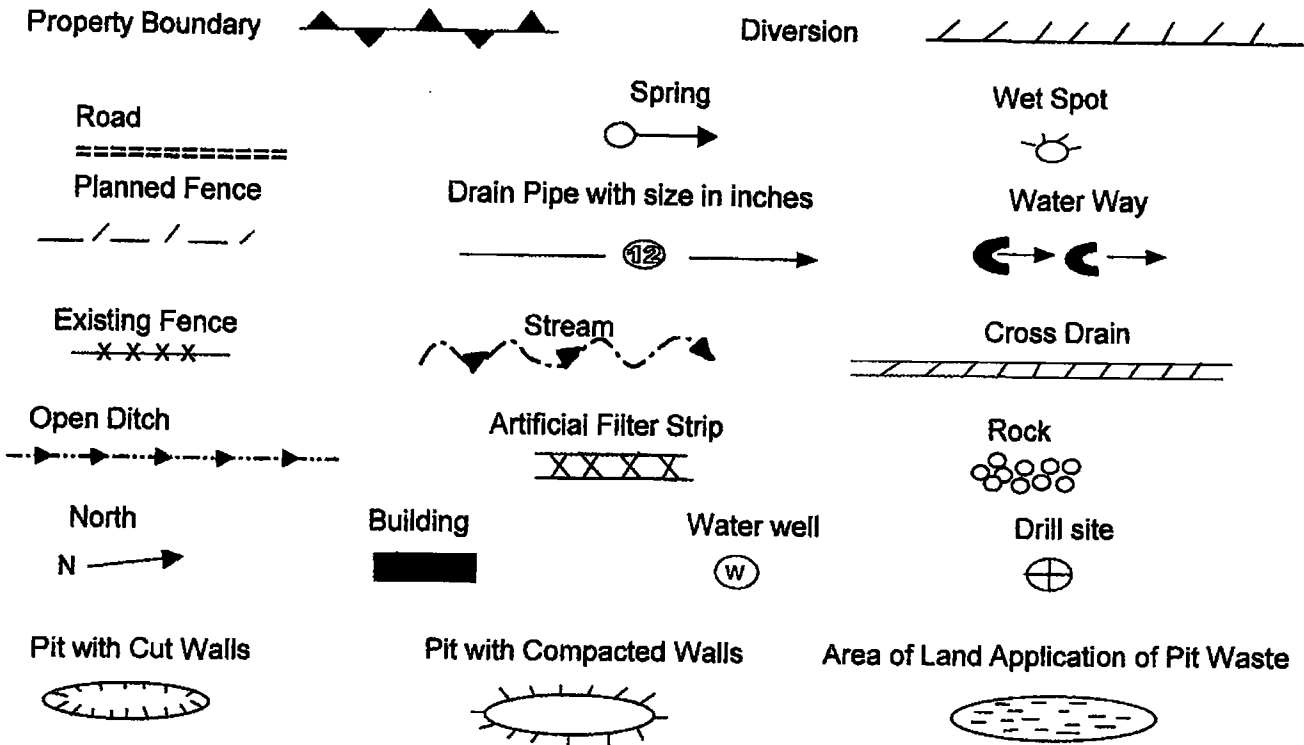
Subscribed and sworn before me this 2nd day of May, 2016

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



OPERATOR'S WELL NO.:
452131 (Consolidated Coal Co. W-12777)

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: *S. P. D. ...*

Comments: _____

Title: OCIG Inspector Date: 5/12/2016
 Field Reviewed? Yes No

3302823A

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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Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

05/20/2016



May 4, 2016

Mr. Jeff McLaughlin
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Revision of 47-033-02823

Dear Mr. McLaughlin,

Enclosed is an updated WW-9 for the above API number. The disposal method was updated from Land Application, which now requires a permit, to Reuse and Offsite Disposal. I have sent new pages to the inspectors for their signatures.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Enc.

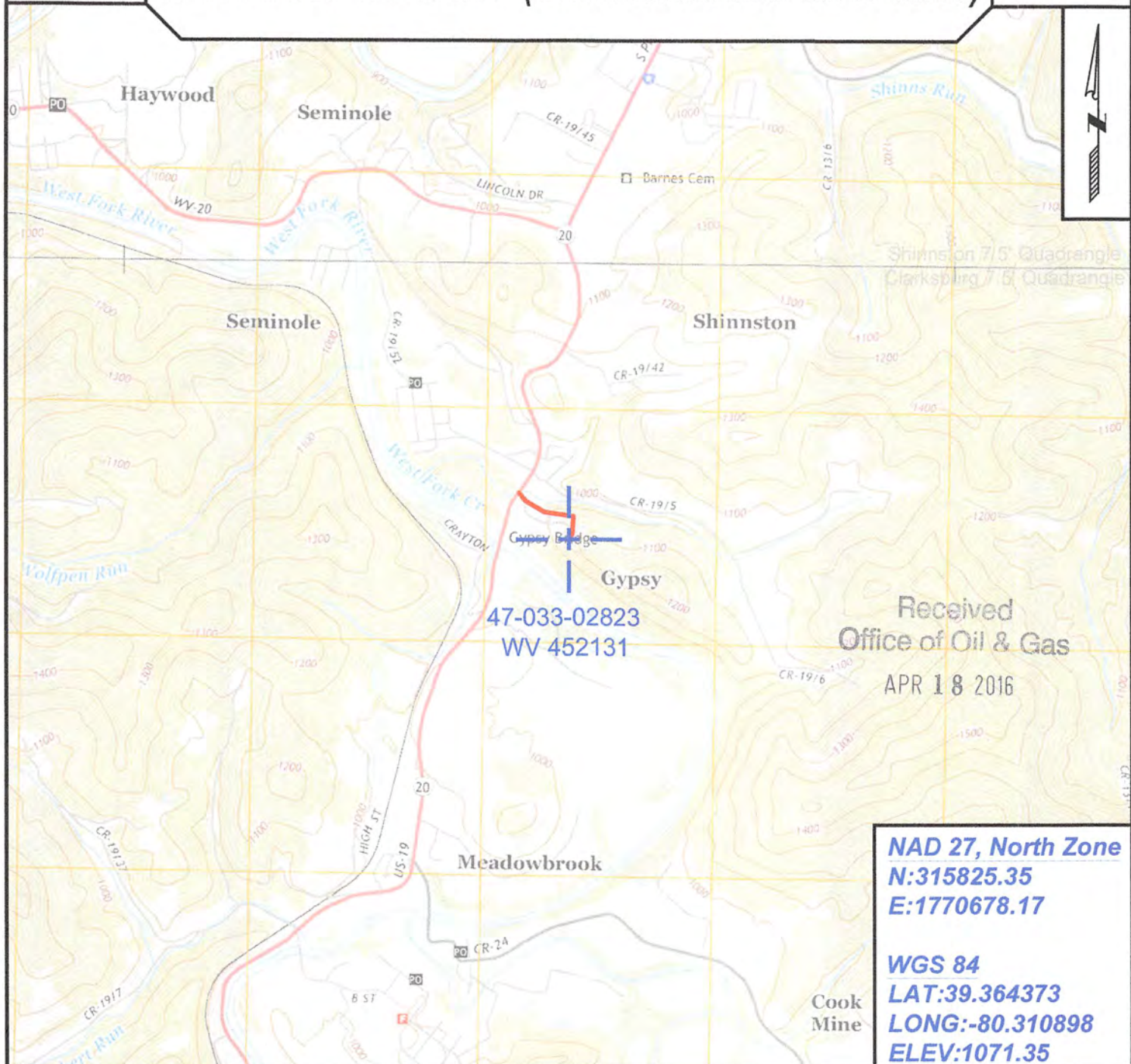
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Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

3302823P

Topo Quad: Clarksburg 7.5' Scale: 1" = 2000'
 County: Harrison Date: March 11, 2016
 District: Clay Project No: 70-36-00-08

47-033-02823 WV 452131 (Consolidated Coal Co. W-12777)

Topo



Received
 Office of Oil & Gas
 APR 18 2016

NAD 27, North Zone
N:315825.35
E:1770678.17

WGS 84
LAT:39.364373
LONG:-80.310898
ELEV:1071.35



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

05/20/2016



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Consolidated Coal Co. W-12777 - WV 452131 - API No. 47-033-002823.

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 953 +/- Owner: Chris Brookover
 Address: 316 Gypsy Hollow Road, Gypsy, WV 26361 Phone No. _____
 Comments: _____

Site: 2 Spacing: 840 +/- Owner: Zack Owens
 Address: 257 Gypsy Hollow Rd., Gypsy, WV 26361 Phone No. _____
 Comments: _____

Site: 3 Spacing: 583 +/- Owner: Lesli Martin
 Address: P.O. Box 68, Gypsy, WV 26361 Phone No. _____
 Comments: _____

Site: 4 Spacing: 820 +/- Owner: Chris Parks
 Address: 222 Gypsy Hollow Road, Gypsy, WV 26361 Phone No. _____
 Comments: _____

Site: 5 Spacing: 854 +/- Owner: Linda Martin
 Address: 222 Gypsy Hollow Road, Gypsy, WV 26361 Phone No. _____
 Comments: _____

Site: 6 Spacing: 722 +/- Owner: Donny Cottrill
 Address: P.O. Box 138, Gypsy, WV 26361 Phone No. _____
 Comments: _____

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Office of Oil & Gas

APR 18 2016

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
 PO 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: 304-901-2162
 fax: 304-901-2182

Site: 7 Spacing: 553 +/- Owner: Darrell & Vanesa Ramsey
Address: P.O. 53, Gypsy, WV 26361 Phone No. _____
Comments: _____

Site: 8 Spacing: 632 +/- Owner: Gypsy LLC
Address: P.O. Box 9, Shinnston, WV 26431 Phone No. _____
Comments: _____

Site: 9 Spacing: 848 +/- Owner: Justin & Karen Henderson
Address: 190 Sapphire Lane, Meadowbrook, WV 26404 Phone No. _____
Comments: _____

Site: 10 Spacing: 856 +/- Owner: William Lambert
Address: 130 Sapphire Lane, Meadowbrook, WV 26404 Phone No. _____
Comments: _____

Site: 11 Spacing: 219 +/- Owner: Gypsy LLC
Address: P.O. Box 9, Shinnston, WV 26431 Phone No. _____
Comments: Pond

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Office of Oil & Gas
APR 18 2016

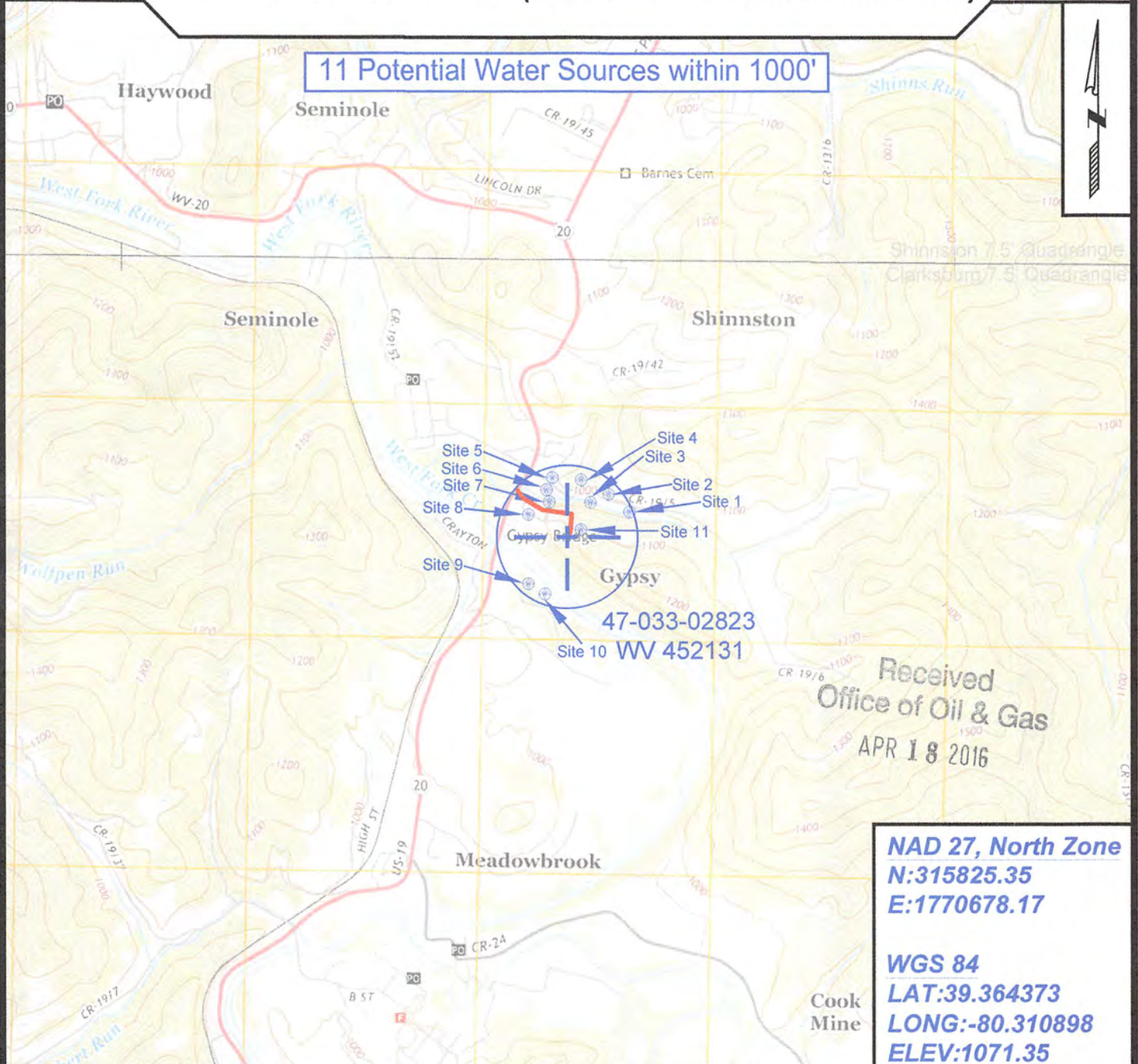
Topo Quad: Clarksburg 7.5' Scale: 1" = 2000'

County: Harrison Date: March 11, 2016

District: Clay Project No: 70-36-00-08

Water **47-033-02823 WV 452131 (Consolidated Coal Co. W-12777)**

11 Potential Water Sources within 1000'



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

05/20/2016