



west virginia department of environmental protection

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

Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, January 30, 2018
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 96
47-005-01700-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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

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

James A. Martin
Chief

Operator's Well Number: 96
Farm Name: PARDEE LAND CO.
U.S. WELL NUMBER: 47-005-01700-00-00
Vertical / Plugging
Date Issued: 1/30/2018

Promoting a healthy environment.

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.

5-01700P

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

Date: January 15, 2018
Operator's Well
Well No. 217171 Pardee Land #96
API Well No.: 47 005 - 01700

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

CK #
23318
\$100.

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil Gas Liquid Injection Waste Disposal
If Gas, Production Or Underground storage Deep Shallow

5) Elevation: _____ Watershed: Toney Fork of Buffalo Creek
Location: Washington County: Boone Quadrangle: Lorado
District: _____

6) Well Operator EQT Production Company 7) Designated Agent: Jason Ranson
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Gary Kennedy 9) Plugging Contractor:
Name: HydroCarbon Well Service
252 Circle Ave Welo Old Church Ln. Address: PO BOX 995
Rainelle WV 25962 Pipestem WV 25979 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.

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Office of Oil and Gas
JAN 23 2018
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 [Signature] Date 1/22/18

PLUGGING PROGNOSES

214171

Pardee Land Co # 96

API# 47-005-01700

District, Washington

Boone County, WV

BY: R Green

DATE: 08/18/17

CCURRENT STATUS:**TD @ 6765'****Elevation @ 2479'**

13 3/8" casing @ 30' (Grouted)

9 5/8" casing @ 1194' (Cemented to surface with 478 cu.ft.)

7" casing @ 3064' (Cemented with 338 cu.ft.)

4 1/2" casing @ 6710' (Cemented with 542 cu.ft.)

Fresh Water 747'

Saltwater @ 1450' & 1477'

Gas Show @ 2731, 3395', 3544', 3986', 4515', 5697', & 6630'**Oil shows @ None reported**

Coal @ Open mine 743' to 745'

Perf record, L. Shale 6156' - 6544', 11 holes,

U. Shale, 4603' - 6052', 33 holes,

Berea, 4406' - 4420' 29 holes,

Maxton, 3250' - 3306', 28 holes

check Rock Pressure

1. Notify inspector, Gary Kennedy @ 304-382-8402, 24 hours prior to commencing operations.
2. TIH check TD @ or below 6550'.
3. Spot 40 bbl. of 6% gelled water, followed by a 500' C1A cement plug, 6550' to 6050', WOC 4 hrs. Tag TOC, add additional C1A cement if necessary.
4. TOOH to 6000', set 500' C1A cement plug 6000' to 5500', WOC 4 hrs. Tag TOC, add additional C1A cement if necessary.
5. TOOH to 5500', set 500' C1A cement plug, 5500' to 5000'. WOC 4 hrs. Tag TOC, add additional C1A cement if necessary.
6. TOOH to 5000' set 650' C1A cement plug 5000' to 4350', WOC 4 hrs. Tag TOC, add additional C1A cement if necessary.
7. TOOH to 3350', set 200' C1A cement plug, 3350' to 3150', WOC 4 hrs. Tag TOC, add additional C1A cement if necessary.
8. Free point 4 1/2" casing, cut casing at free point. TOOH 4 1/2" casing.
9. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
10. TOOH to 2550', set 200' C1A cement plug, 2550' to 2350'. (Elevation).
11. Free point 7" casing, cut casing at free point. (EST @ 1100') TOOH 7" casing.
12. Set a C1A cement plug 50' in casing cut to surface. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
13. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
14. *** Note WV- DEP Oil & Gas Inspector Gary Kennedy insists on assurance from all parties that there will be a monument on the wellhead once the coal company is done with their operations!**
15. Reclaim location and road to WV-DEP specifications.

JK

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5-01700P

WR-35
Oil & Gas
Permitting

29-Apr-99
API # 47- 005-01700

OCT 22 1999

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed _____

WV Division
Environmental P:

Well Operator's Report of Well Work

Farm Name: PARDEE LAND CO

Operator Well No.: 96

LOCATION: Elevation: 2,479.00 Quadrangle: LORADO
District: WASHINGTON County: BOONE
Latitude: 3320 Feet South of 37 DEG 50 MIN 0 SEC
Longitude: 9730 Feet West of 81 DEG 40 MIN 0 SEC

Company: BLAZER ENERGY CORPORATION
P.O. BOX 2347
CHARLESTON, WV 25328

Agent: Richard Smeltzer

Inspector: RICHARD CAMPBELL
Permit Issued: 5/3/99
Well work commenced: 7/17/99
Well work completed: 8/23/99

Verbal Plugging
Permission granted on: _____
Rotary Rig Cable Rig _____
Total Depth 6765 feet
Fresh water depths (ft) 747'
Salt water depths (ft) 1450', 1477'

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
13-3/8"	30'	30'	GRTD
9-5/8"	1194'	1194'	478 FT ³
7"	3064'	3064'	338 FT ³
4-1/2"	6710'	6710'	542 FT ³

Is coal being mined in area?
Coal Depths (ft): 743-745-Open Hole

OPEN FLOW DATA

Producing formation L. Shale, U. Shale, Berea, M. Maxton Pay Zone Depth (ft): See Reverse

Gas: Initial open flow 901 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow: 3676 MCF/d Final open flow: _____
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure 510 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay Zone Depth (ft): _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow: _____ MCF/d Final open flow: _____
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: BLAZER ENERGY CORPORATION

By: Barbara A. Hubbard
Date: 10/20/99

Admin Assit.
Dalg Lorado =
[Signature]

5-01700 P

EASTERN STATES OIL & GAS, INC.
 WR-35 COMPLETION REPORT - Attachment
 Well Treatment Summary

Well: Pardee 96

API# 47-005-01700

Date	08/19/99	08/19/99	08/19/99	08/19/99
Type Frac				
Acid, N., Foam, Water	N ²	N ²	75 Q Foam	75 Q Foam
Zone Treated	L. Shale	U. Shale	Berea	M. Maxton
# Perfs	11	33	29	28
From - To:	6156-6544	4603-6052	4106-4420	3250-3306
BD Pressure @ psi	4128	3253	1804	1630
ATP psi	3461	2430	1413	2415
Avg. Rate, B=B/M, S= SCF/M	38,760 S	51,764 S	20 B Foam	20 B Foam
Max. Treat Press psi	4223	3196	1787	3686
ISIP psi			1583	1400
Frac Gradient	.69	.47	.79	.43
10 min S-I Pressure	2735	1430	Vaccum	2236
Material Volume				
Sand-sks			465	425
Water-bbl				214
SCF N ₂	477,882	1,147,478	331,882	317,761
Acid-gal	500 gal 8.3%	1200 gal 8%	500 gal 14.4%	1500 gal 14.8%
NOTES:				

FORMATION NAME	TOP	BASE	REMARKS
Shale	38	336	
Sand Shale	336	492	
Sand	492	527	
Shale	527	532	
Sandy Shale	532	637	
Shale	637	645	
Sandy Shale	645	660	
Shale	660	672	
Sandy Shale	672	694	
Shale	694	699	
Sand	699	747	Open Mine 743-745'. Hole Damp @ 747'
Sandy Shale	747	796	
Sand	796	955	
Sandy Shale	955	1211	
Shale	1211	1215	
Sandy Shale	1215	1398	
Shale	1398	1402	
Sandy Shale	1402	1450	Hole damp @ 1450'
Sand	1450	1555	
Sandy Shale	1555	1975	
Sall Sand	2053	2818	GT 2731'=NS
Upper Maxton	2998	3039	
Lower Maxton	2450	3488	GT 3395'=2380 mcf, 3488'=2010 mcf
Little Lime	3510	3590	GT 3544'=1420 mcf
Big Lime	3590	3918	Hole damp @ 3755', GT 3862'=1420 mcf
Weir	3986	4055	GT 3986'=1420 mcf, GT 4142'=1270 mcf

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Sunbury	4374	4392	
Berea	4392	4422	
Upper Huron	4422	5491	GT 4515'=901 mcf
Gordon	4545		
Lower Huron	5491	6054	GT 5697'=901 mcf
Java	6054	6220	
Angola	6220	6530	
Rhinestreet	6530	NA	GT 6630'=1100 mcf
TD (Drillers)	6755		

Handwritten signature

5-01700A

FORM NW 5

LONGS 81°42'01.9"

9.730

PARDEE LAND COMPANY LEASE

LATITUDE 37°50'00"
47-005-1614

SOUTHERN LAND COMPANY ET AL

N. 87°30' E

278.723 AC. TRACT

26490.00

SOUTHERN LAND CO. A
DICKENSON 1/2 INTEREST
PARDEE LAND CO. 1/2 INTEREST

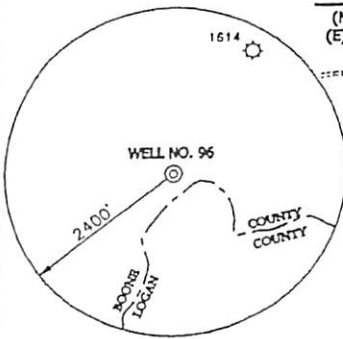
22,000 ACRES ± WELL NO. 96

NORTH

PARDEE LAND COMPANY
16,042 ACRES ±
(SURFACE)

WELL NO. 96
STATE PLANE
COORDINATES

(N) 300,867
(E) 1,797,660

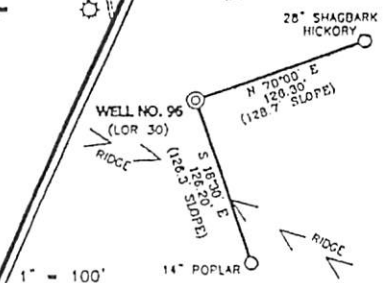


NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WY SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 2/23/89.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 2/12/94 AS PREPARED BY RONALD L. EASTHAM FOR A.P.I. NO. 47-005-1612.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BOONE AND LOGAN COUNTIES IN JANUARY, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

47-045-1205

JAN 23 2003
REFERENCES



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 ENERGY.

P.S. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 29, 19 99
 OPERATORS WELL NO. PARDEE LAND #96
 API WELL NO. 47-005-01700
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3906P96 (76-10)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 2532' SCALE 1" = 800'

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

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

LOCATION: ELEVATION 2479' WATERSHED TRIBUTARY OF SPRUCE LAUREL FORK
 DISTRICT WASHINGTON COUNTY BOONE QUADRANGLE LORADO 7.5'

SURFACE OWNER PARDEE LAND COMPANY ACREAGE 16,042
 ROYALTY OWNER PARDEE LAND COMPANY LEASE ACREAGE 22,000
 PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE 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 6900'

WELL OPERATOR BLAZER ENERGY CORPORATION DESIGNATED AGENT RICHARD SMELTZER
 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

Lorado 5
[Signature]

1) Date: January 15, 2018
2) Operator's Well Number
217171 Pardee Land #96
3) API Well No.: 47 005 - 01700
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>Pardee Land and Curtin Realty LLC</u>	Name <u>None</u>
Address <u>135 Corporate Center Dr.</u>	Address _____
<u>Suite 510</u>	_____
<u>Scott Depot WV 25560</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>PLC MINERALS LLC</u>
_____	Address <u>135 CORPORATE CENTER DR.</u>
_____	<u>SUITE 510</u>
(c) Name _____	<u>SCOTT DEPOT, WV 25560</u>
Address _____	Name _____
_____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>252 Circle Ave 66 Old Church Ln</u>	Name <u>None</u>
<u>Rainelle WV 25962 Pipestem WV</u>	Address _____
Telephone <u>304-382-8402</u> <u>25979</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.

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JAN 23 2018
WV Department of Environmental Protection

Well Operator:	<u>EQT Production Company</u>
By:	<u>Todd Klaner</u>
Its:	<u>Regional Land Manager</u>
Address:	<u>PO Box 280</u>
	<u>Bridgeport, WV 26330</u>
Telephone:	<u>(304) 848-0035</u>

Subscribed and sworn before me this 17th day of January, 2018
Rebecca L. Wanstreet Notary Public
My Commission Expires: 4-7-2020

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.



SURFACE OWNER WAIVER

Operator's Well Number 214171 Pardee 96

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW 4-A

The well operator named on page WW4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Division of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files for this Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For a Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

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Office of Oil and Gas

JAN 23 2018

WV Department of
Environmental Protection

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date

Name PLC TIMBERLANDS LLC

By JEFFREY A. BROWN

Its SENIOR VICE PRESIDENT

Signature [Signature] Date 1/11/2018

Operator's Well Number 214171 Partice 96

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The well operator named on the attached page WW-4(B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the date on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on the obverse side of this application

Note: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned operator _____ / owner X / lessee _____ of the coal under this well location has examined this proposed plugging work order. The undersigned has not no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 1/11/2018

PLC MINERALS LLC
By: [Signature]
Its: SENIOR VICE PRESIDENT

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JAN 23 2018
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY OP CODE: _____

Watershed (HUC 10): Toney Fork of Buffalo Creek Quadrangle: Lorado

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

Will a pit be used? Yes X No ___ *work tank - ?*
If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes X No ___ Is so, what ml.? 10 ml

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

Will closed loop system be used ? If so, describe: _____

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____
If left in pit and plan to solidify what medium will be used? (cement, Lime, sawdust) _____
Landfill or offsite name/permit number? _____

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. 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 Name) Todd Klaner

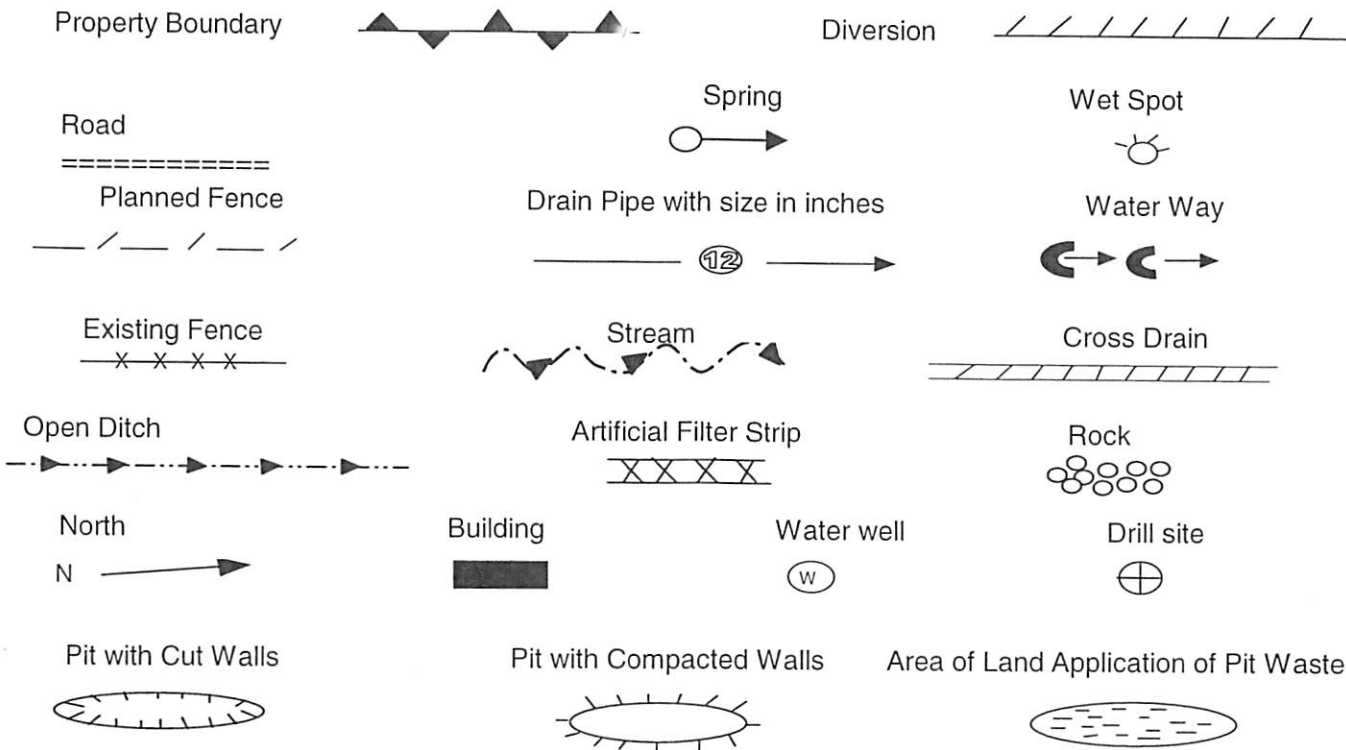
Company Official Title Regional Land Manager

Subscribed and sworn before me this 17th day of January, 2017

Rebecca L. Wanstreet Notary Public
My Commission Expires 4-7-2020

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JAN 23 2018
WV Department of Environmental Protection

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: *[Signature]*

Comments: _____

RECEIVED
Office of Oil and Gas

JAN 23 2018

WV Department of
Environmental Protection

Title: Inspector Date: 1/22/18

Field Reviewed? Yes No

5-01700P

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

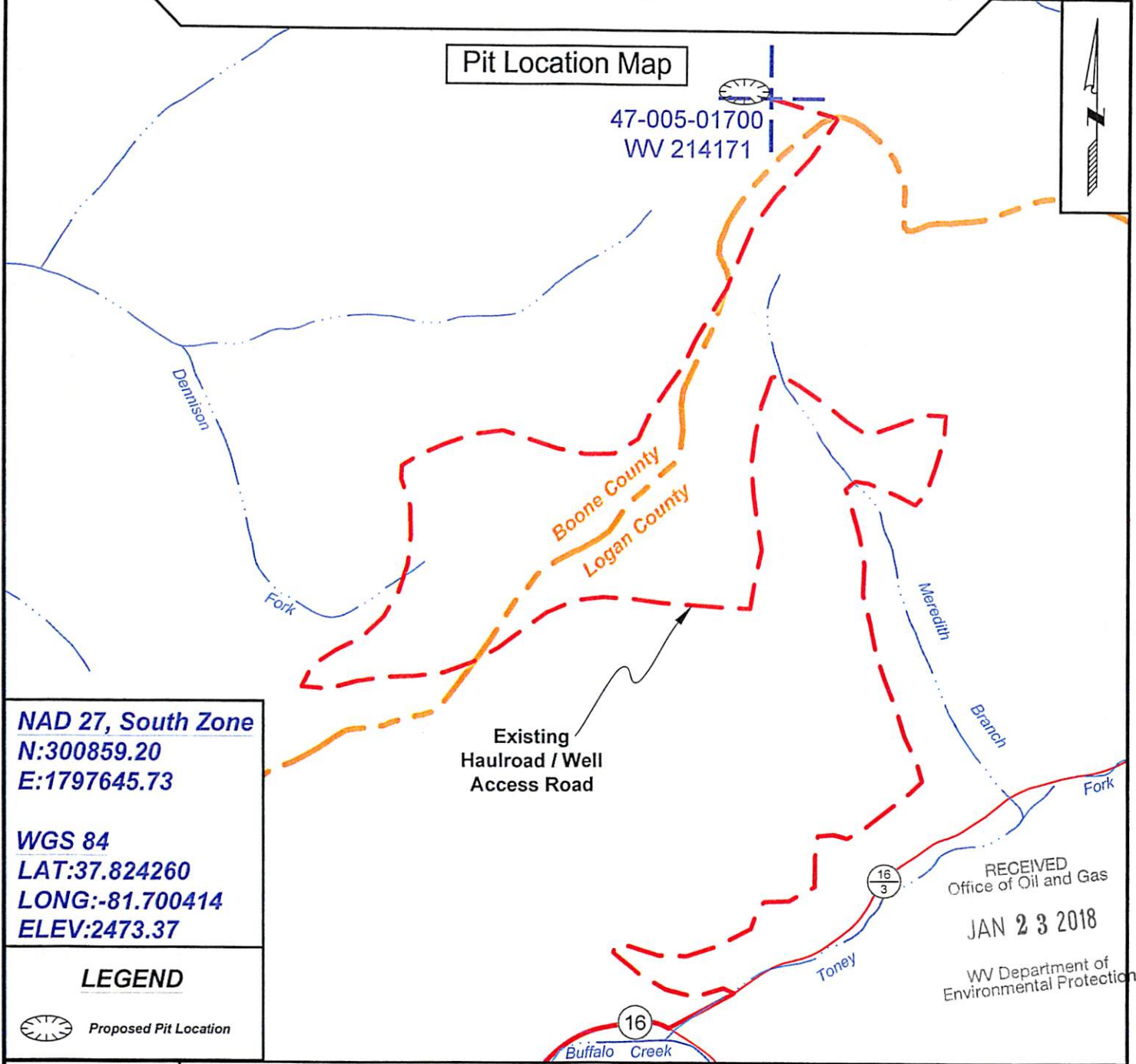
512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

5-01700P

Topo Quad: Lorado 7.5' Scale: 1" = 1000'
 County: Boone Date: January 02, 2018
 District: Washington Project No: 140-16-00-07

Highway **47-005-01700 WV 214171 (Pardee Land #96)**

Pit Location Map



NAD 27, South Zone
 N:300859.20
 E:1797645.73

WGS 84
 LAT:37.824260
 LONG:-81.700414
 ELEV:2473.37

LEGEND

Proposed Pit Location

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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

[Handwritten signature]

5-01700P

Topo Quad: Lorado 7.5' Scale: 1" = 200'

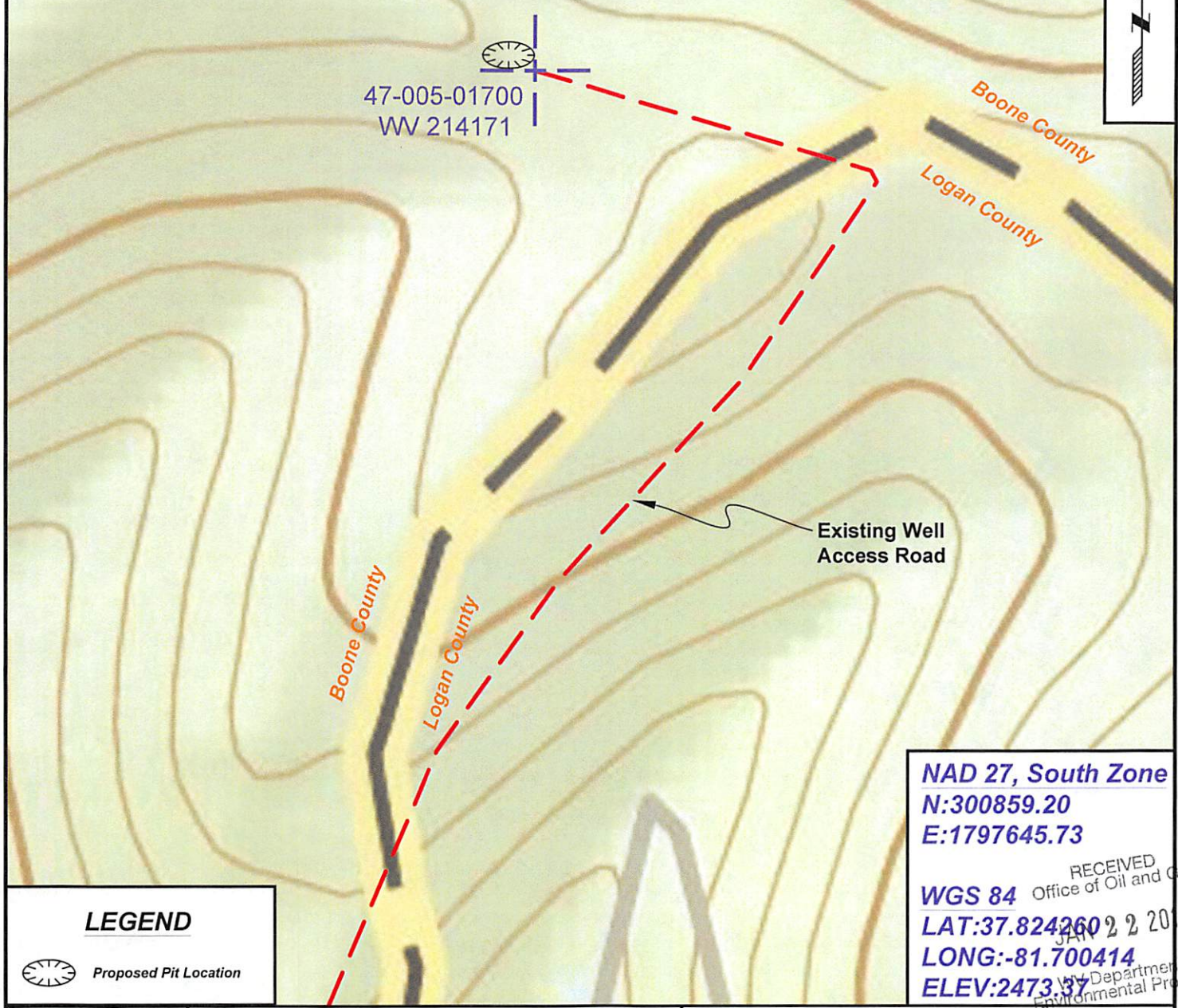
County: Boone Date: January 02, 2018

District: Washington Project No: 140-16-00-07

47-005-01700 WV 214171 (Pardee Land #96)

Topo

Pit Location Map



47-005-01700
WV 214171

Existing Well
Access Road

NAD 27, South Zone
N:300859.20
E:1797645.73

WGS 84
LAT:37.824260
LONG:-81.700414
ELEV:2473.37

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Environmental Protection

LEGEND

 Proposed Pit Location



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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:

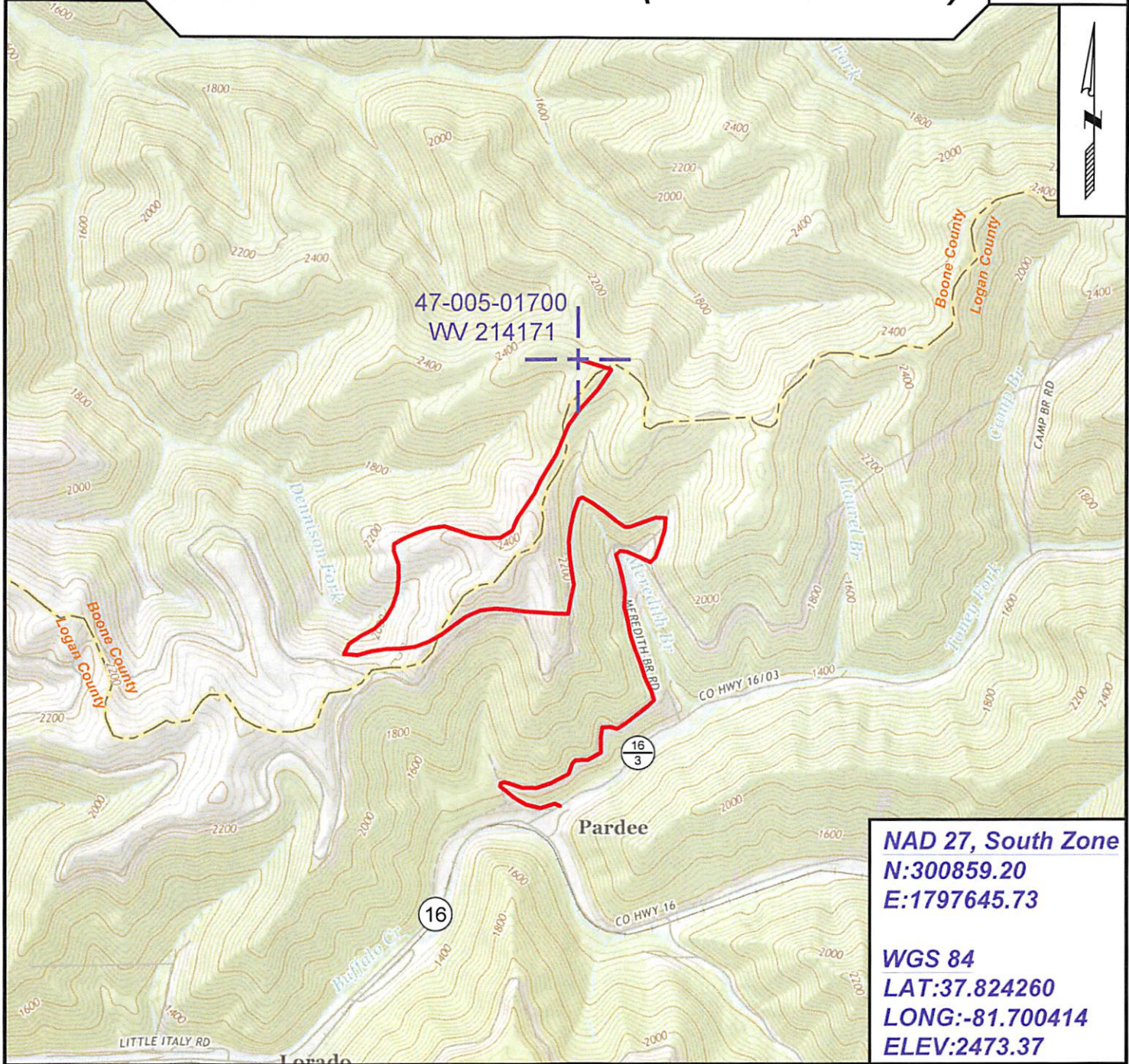
EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

Topo Quad: Lorado 7.5' Scale: 1" = 2000'
 County: Boone Date: January 02, 2018
 District: Washington Project No: 140-16-00 07

47-005-01700 WV 214171 (Pardee Land #96)

Topo



47-005-01700
WV 214171

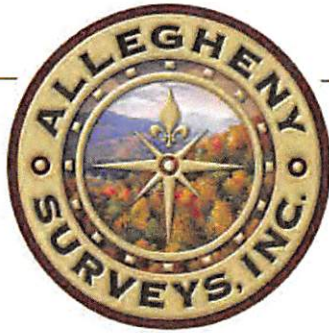
NAD 27, South Zone
N:300859.20
E:1797645.73

WGS 84
LAT:37.824260
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ELEV:2473.37



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PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Pardee Land #96 - WV 214171 - API No. 47-005-01700

POTENTIAL SAMPLE LOCATIONS

There appears to be no potential water sources within the required 1000 feet of the existing well WV 214171.

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BIRCH RIVER OFFICE

237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606 fax: 304-649-8608

BRIDGEPORT OFFICE

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

ALUM CREEK OFFICE

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

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

County: Boone Date: January 02, 2018

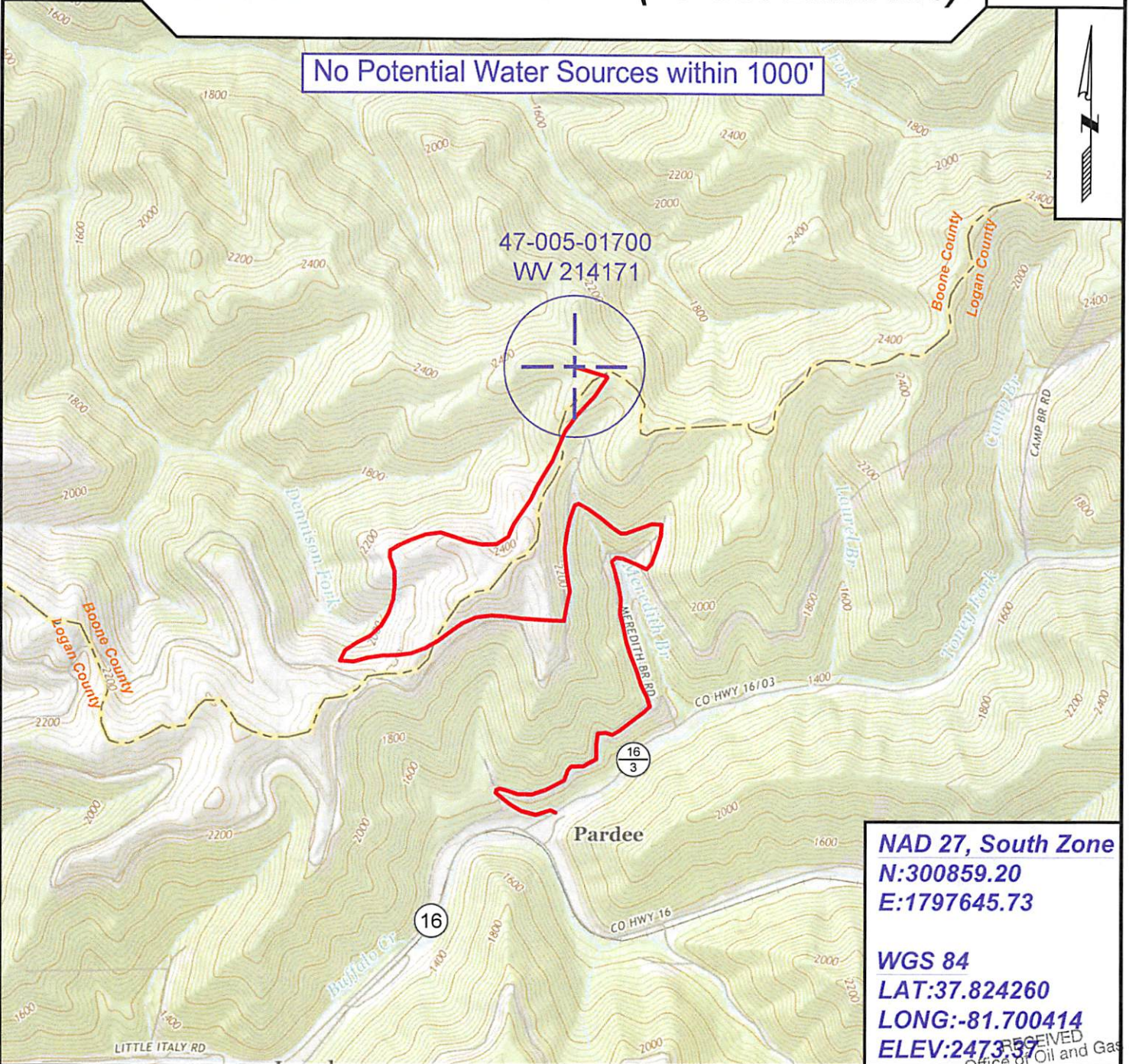
District: Washington Project No: 140-16-00-07

Water

47-005-01700 WV 214171 (Pardee Land #96)

No Potential Water Sources within 1000'

47-005-01700
WV 214171



NAD 27, South Zone
N:300859.20
E:1797645.73

WGS 84
LAT:37.824260
LONG:-81.700414
ELEV:2473.37

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 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

JAN 22 2018

WV Department of
 Environmental Protection



Miss Utility of West Virginia (WV811)
(Exhibit A)
Directions to Gas Well No. WV 214171
API No. 47-005-01700

- Beginning at the intersection of US Route 119 and WV State Route 73 (Logan Exit)
- Proceed Southeast along WV State Route 73, for approximately 2.3 miles, to the intersection with WV State Route 44.
- Turn left and continue along WV State Route 73, for approximately 0.6 mile, to the intersection with WV State Route 10.
- Continue straight onto WV State Route 10, for approximately 11.8 miles, to WV County Route 16 on the left.
- Turn left onto WV County Route 16 and proceed Northeast, for approximately 12.6 miles, to WV County Route 16/3 on the left. *(Point No. 1)*
- Turn left onto WV County Route 16/3 and proceed Northeast, for approximately 523 feet, to an existing haulroad and the Well Access Road on the left. *(Point No. 2)*
- Turn left onto the haulroad and Well Access Road and proceed North, for approximately 3.87 miles, arriving at Gas Well WV 214171. *(Point No. 3)*

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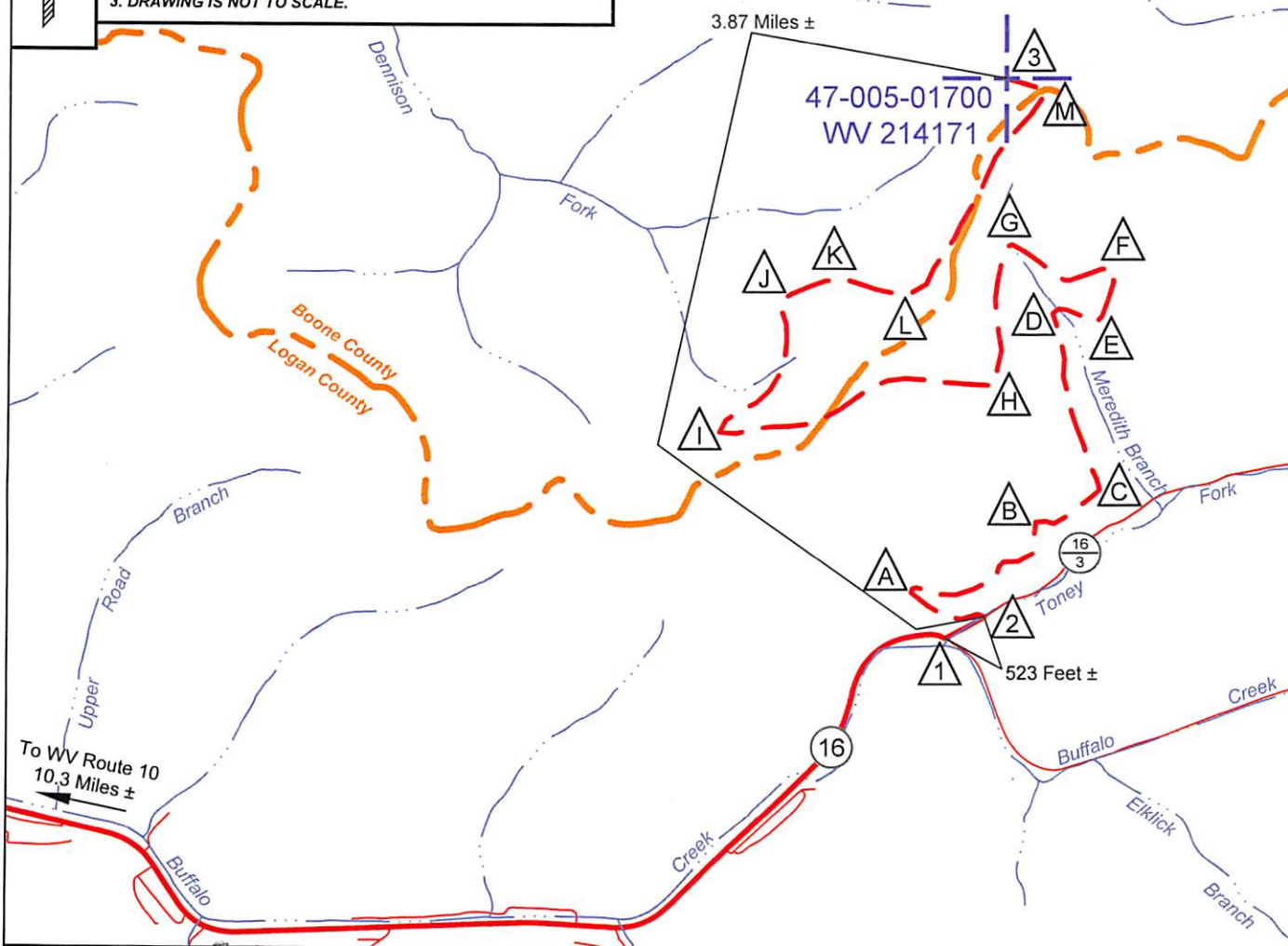
5-0100P

NOTES

1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO MISS UTILITY OF WEST VIRGINIA (WV 811).
3. DRAWING IS NOT TO SCALE.

**MISS UTILITY OF WEST VIRGINIA (WV 811)
(EXHIBIT B)**

**DIRECTIONS TO EXISTING GAS WELL NO. WV 214171
API NO. 47-005-01700**



SITE	LATITUDE	LONGITUDE
△1	37.806282	-81.702708
△2	37.806973	-81.701119
△3	37.824260	-81.700414
△A	37.807849	-81.704040
△B	37.810043	-81.699086
△C	37.811109	-81.696538
△D	37.816803	-81.698368
△E	37.816547	-81.696640
△F	37.817952	-81.696056
△G	37.818936	-81.700141
△H	37.814419	-81.701149
△I	37.812815	-81.711812
△J	37.816830	-81.709408
△K	37.817744	-81.707279
△L	37.817341	-81.704873
△M	37.823858	-81.698797



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
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Oil and Gas
ENVIRONMENTAL PROTECTION
DIVISION
JAN 22 2018
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

County: Boone
District: Washington
Date: January 2, 2018
Project No: 140-16-00-07
File Name: 140-07 WV 214171 PARDEE LAND CO

PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330

5-01700P

WW-7
8-30-06



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

API: 47-005-01700 WELL NO.: WV 214171 (Pardee Land #96)

FARM NAME: Pardee Land Co

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Boone DISTRICT: Washington

QUADRANGLE: Lorado 7.5'

SURFACE OWNER: Pardee and Curtin Reality LLC

ROYALTY OWNER: Pardee Minerals LLC

UTM GPS NORTHING: 4186548

UTM GPS EASTING: 438359 GPS ELEVATION: 754m (2473ft)

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

PS# 2180
Title

1/4/18
Date

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JAN 22 2018

WV Department of
Environmental Protection