



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

Thursday, November 29, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 8131
47-033-00616-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: 8131
Farm Name: CUNNINGHAM, J.
U.S. WELL NUMBER: 47-033-00616-00-00
Vertical Plugging
Date Issued: 11/29/2018

Promoting a healthy environment.

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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.

2008-10-08

October 8, 2008
149351 JB Cunningham #5131

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

Well Type: Oil / Gas / Production / Storage / Shallow
/ Gas, Production / Storage / Shallow

Location: Elevation 1219 Watercourse Coburns Creek
District Union-Outside County Harrison Quadrangle West Milford

Well Operator EQT Production Company Designated Agent Jason Ranson
Address 2400 Ansys Drive- Suite 200 Address 120 Professional Place
Canonsburg PA 15317 Bridgeport WV 26330

Oil and Gas Inspector to be notified Name Sam Ward
Address PO Box 2327 Buckhannon WV 26201
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.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector SE D Wansett Date 11/8/2008

PLUGGING PROGNOS

149851
J.B.Cunningham
API# 47-033-00616
District, Union
Harrison County, WV

BY: R Green
DATE: 12/05/17

CURRENT STATUS:

*Original TD @ 3098'
Drilled Deeper in 1972 to 4493' (Plugged back to 3438' with cement)
Elevation @ 1226'*

7" casing @ 1492'
5 1/2" casing @ 2140'
4 1/2" casing @ 3435' (Cemented with 115 sks)
Perforations @ 3209' to 3310' (14 holes)

Fresh Water @ 995'
Saltwater @ None Reported
Oil Show @ None Reported
Gas shows @ 2063', 2380', & 3077'
Coal @ None Reported

Sam Ward 304-389-7583

1. Notify inspector, ~~Danny Mullins, @ 304-932-6844~~, 24 hrs. prior to commencing operations.
2. TIH, check TD @ or below 3360'.
3. TIH spot 30 bbl. of 6% gelled water, followed by a 300' CIA cement plug. 3360' to 3060' (Top perms @ 3209). WOC 8 hrs. Tag TOC, add additional CIA cement if necessary.
4. Free point 4 1/2" casing, cut casing @ free point. TOOH 4 1/2" casing.
5. Set 100' CIA cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
6. TOOH to 2190' set 100' CIA cement plug 2190' to 2090'. (5 1/2" casing seat).
7. Free point 5 1/2" casing, cut casing @ free point. TOOH 5 1/2" casing.
8. Set 100' CIA cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
9. TOOH to 1550' set a 450' CIA cement plug 1550' to 1100'. (Elevation & 7" casing seat)
10. Free point 7" casing, cut casing @ free point. TOOH 7" casing.
11. Set 100' CIA cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
12. TOOH to 600' set a 200' CIA cement plug, 600' to 400'. (Safety Plug).
13. TOOH to 200' set a 200' CIA cement plug 200' to surface.
14. Erect monument with API#, date plugged, & company name.
15. Reclaim location and road to WV-DEP specifications.

GEL SPACER BETWEEN ALL PLUGS

gwm

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OG-10
Rev. - 9-71



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NOV 7 1973

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Weston
~~CLARKSBURG~~
Permit No. HAR-616-DD

Rotary XX Oil _____
Cable _____ Gas XX
Recycling _____ Comb. _____
Water-Flood _____ Storage _____
Disposal _____ (Kind)

Company <u>Consolidated Gas Supply Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Clarksburg, W. Va.</u>				
Farm <u>J. B. Cunningham</u> Acres <u>2 1/2</u>	Size			115 Bags
Location (waters) <u>Coburns Creek</u>	20-16			
Well No. <u>8131</u> Elev. <u>1226'</u>	Cond.			
District <u>Union</u> County <u>Harrison</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8			
Address _____	8 5/8			
Mineral rights are owned by _____	7			
Address _____	5 1/2			
Drilling Commenced <u>10-16-72</u>	4 1/2	3 1/2	3 1/2	
Drilling Completed <u>10-20-72</u>	3			
Initial open flow <u>Exhausted</u> cu. ft. _____ bbls.	2			
Final production <u>1,838</u> Mcu. ft. per day _____ bbls.	Liners Used			
Well open <u>1 1/2</u> days hrs. before test <u>1,600</u> RP.				

Well treatment details:
Well fractured in Balltown from 3209' - 3310' with 1 1/2" holes, 50,000# sand
730 bbl water on 2-5-73
Perforations: 3209-3310' 1 1/2" holes

Attach copy of cementing record.

Coal was encountered at None Feet None Inches
Fresh water None Feet _____ Salt Water None Feet _____
Producing Sand Balltown Depth 3209-3310

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
STARTED DRILLING DEEPER				3098'		
Sand & Shale			3098	3175		
Balltown			3175	3313		
Sand & Shale			3313	4400		
BENSON			4400	4414	No gas in Benson	
Total Depth				4493'		
Well cemented solid back to Used 125 bags cement cemented with 115 bags.			Ran 3 1/2' of 4 1/2" casing and	3438'	Present T.D.	

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Consolidated Gas Supply Corporation
415 West Main Street
Clarksburg, W. Va.

(over)

* Indicates Electric Log tops in the remarks section.

Handwritten signature/initials



47-033-00616P
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JUN-5 1972

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary _____ Oil _____
Cable XX Gas XX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle CLARKSBURG

Permit No. - -

(Original Drilling Log - 616-00)

Company Consolidated Gas Supply Corporation

Address Clarksburg, W. Va.

Farm J. B. Cunningham Acres 2 1/2

Location (waters) Coburns Creek

Well No. 8131 Elev. 1226'

District Union County Harrison

The surface of tract is owned in fee by _____

Address _____

Mineral rights are owned by _____

Address _____

Drilling Commenced 2-15-13

Drilling Completed 4-14-13

Initial open flow - - cu. ft. _____ bbls.

Final production - - cu. ft. per day _____ bbls.

Well open - - hrs. before test _____ RP.

Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 8-10"	184	None	
9 5/8			
8 5/8	1060	None	
7	1492	1492	
5 1/2	2140	2140	
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record. No cementing

5th & Speechley exhausted - will drill thru Benson

Coal was encountered at None Feet _____ Inches _____

Fresh water 995' Feet _____ Salt Water None Feet _____

Producing Sand Exhausted - will seek new production in Benson

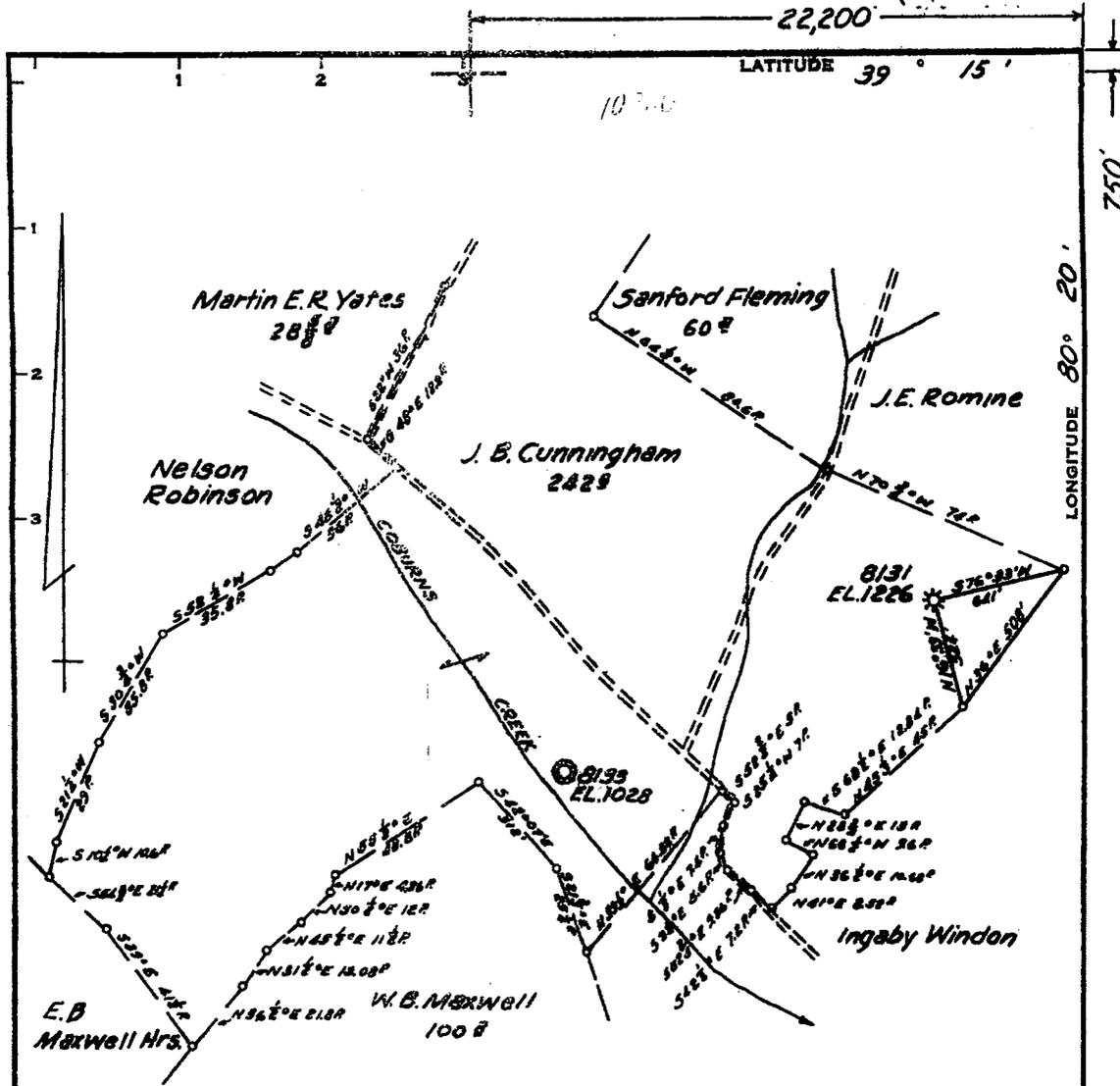
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Dunkard Sand			524	540		
Salt Sand			805	915	Water	995'
Maxton Sand			1310	1332		
Injun Sand			1488	1595		
Gantz Sand			1945	1975		
50' Sand			1990	2023		
30' Sand			2050	2073	Gas	2063'
Stray			2135	2144		
Gordon Sand			2210	2240		
4th Sand			2306	2320		
5th Sand			2379	2391	Gas	2380-85'
Speechley			3075	2086	Gas	3077'
Total Depth				3098'		
Will drill deeper to Benson						
					Consolidated Gas Supply Corporation 445 West Main Street Clarksburg, W. Va.	

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* Indicates Electric Log tops in the remarks section.

(over)

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Minimum Error of Closure 1' IN 200'
 Source of Elevation R. Fork at Robinson's Farm
ELEVATION 1043'
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and show all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." Env

- New Location
- Drill Deeper
- Abandonment

Map Sheet 55 5M:15 E11 FB.628 P7-10

Company Consolidated Gas Supply Corp.
 Address Clarksburg, W. Va.
 Farm J. B. Cunningham
 Tract _____ Acres 242 Lease No. 52209
 Well (Farm) No. _____ Serial No. 8131
 Elevation (Spirit Level) 1226'
 Quadrangle Weston
 County Harrison District Union
 Engineer Jackson M. Janard.
 Engineer's Registration No. 2397
 File No. _____ Drawing No. _____
 Date 6-2-72 Scale 1" = 40 Feet

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. MAR-616-DD

+ 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.

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WW-4A
Revised 6-07

1) Date: October 8, 2018
2) Operator's Well Number
149851 J B Cunningham #8131
3) API Well No.: 47 - 033 - 00616

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<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 Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator EQT Production Company
 By: Erin Spine
 Its: Regional Land Supervisor
 Address 2400 Ansys Drive, Suite 200
Canonsburg PA 15317
 Telephone (304) 848-0035

Subscribed and sworn before me this 11 day of October 2018
Rebecca L. Wanstreet Notary Public
 My Commission Expires 4-7-2020

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 Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 depprivacyoffier@wv.gov.

47-033-00616

149851 J.B. Cunningham # 8131

Owner(s) (Surface and Access)

Kencil and Audra Matheny
1145 Coburns Creek Rd.
Clarksburg WV 26301

Coal Owner(s)

Kencil and Audra Matheny
1145 Coburns Creek Rd.
Clarksburg WV 26301

Potential Water Owner(s):

Kencil and Audra Matheny
1145 Coburns Creek Rd.
Clarksburg WV 26301

Loren Matheny
266 Red Barn Road
Clarksburg WV 26301

Loretta Matheny and Norman Hinzman
46 Fleming Farm Road
Clarksburg WV 26301

John Adams
430 Red Barn Road
Clarksburg WV 26301

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47-033-00616 P

WW-9
(5/16)

API Number 47 - 033 - 00616
Operator's Well No.149851 J B Cunningham #8131

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Coburns Creek Quadrangle West Milford

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Formation Fluids

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 ml

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- 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, removed 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 Oil and Gas of any load of drill cuttings or associated waste rejected at any 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 Department 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.

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 [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

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OCT 17 2018

WV Department of
Environmental Protection

Subscribed and sworn before me this 11 day of October, 20 18

Rebecca L Wanstreet Notary Public

My commission expires 4-7-2020



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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Form WW-9

Operator's Well No. 149851 J B Cunningham #8131

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH

Time 3 Tons acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs acre

Mulch 2 Tons acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs acre	Seed Type	lbs acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

Attach:
 Map(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *S. J. DeLeon*

Comments:

Title: *OOG Inspector* Date: *11/8/2018*

Field Reviewed? () Yes () No

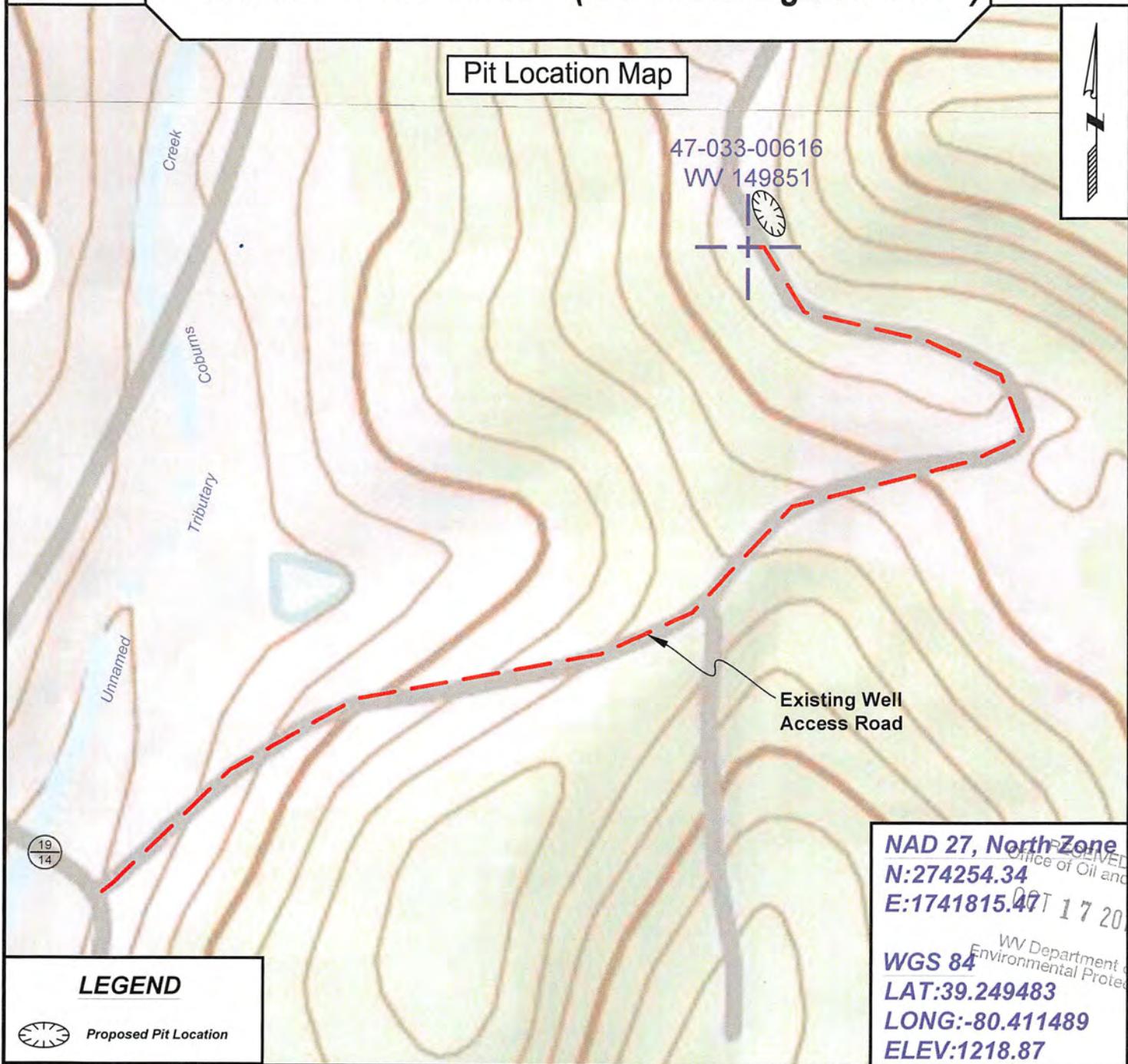
47-033-00616P

Topo Quad: West Milford 7.5'	Scale: 1" = 200'
County: Harrison	Date: September 25, 2018
District: Union-Outside	Project No: 70-36-00-08

47-033-00616 WV 149851 (J. B. Cunningham #8131)

Topo

Pit Location Map



19
14

LEGEND

Proposed Pit Location

NAD 27, North Zone
N:274254.34
E:1741815.47
WGS 84
LAT:39.249483
LONG:-80.411489
ELEV:1218.87

Office of Oil and Gas
 OCT 17 2018
 WV Department of Environmental Protection



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
 2400 Ansys Drive
 Canonsburg, PA 15317

47-033-00616P

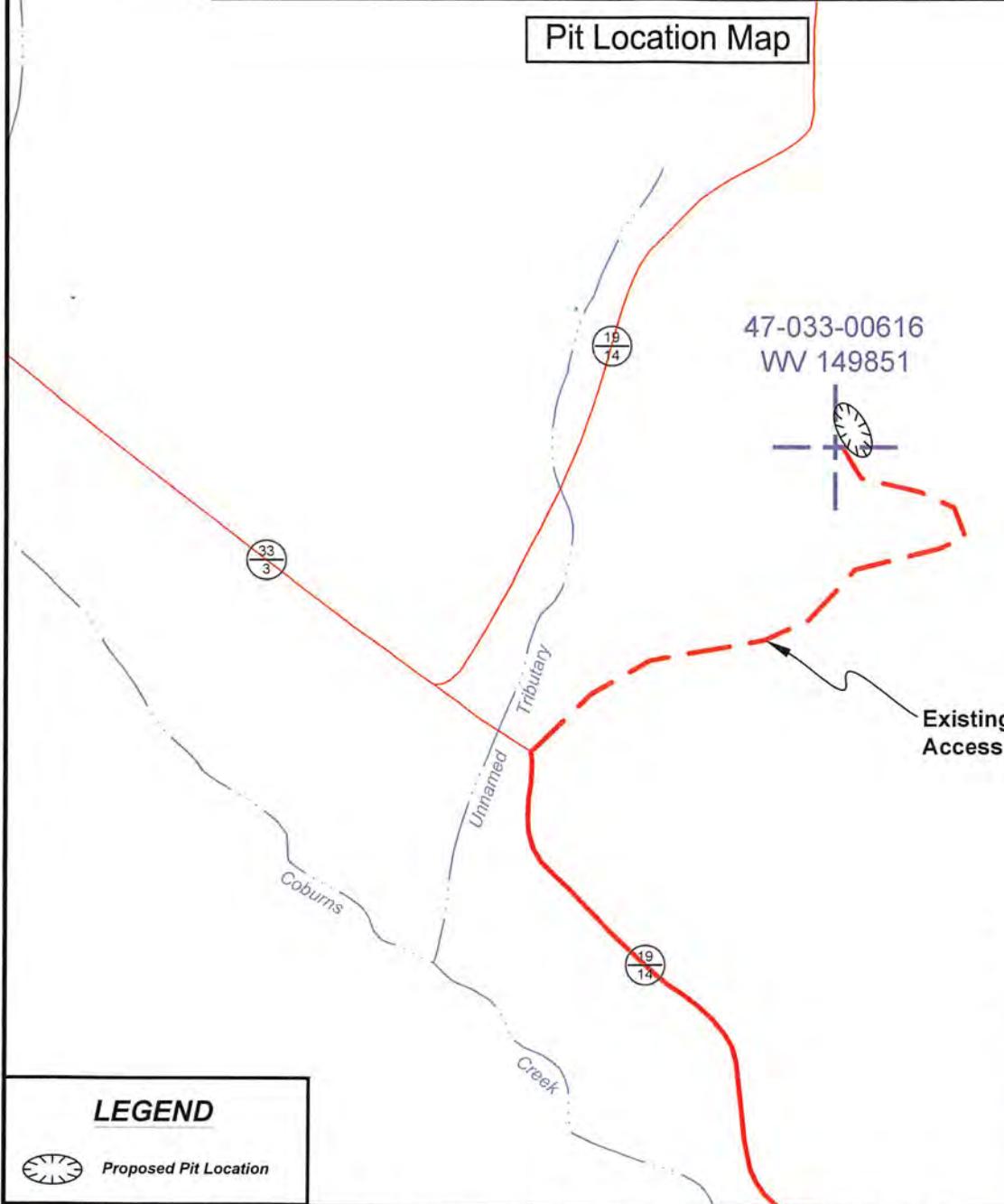
Topo Quad: West Milford 7.5' Scale: 1" = 500'

County: Harrison Date: September 25, 2018

District: Union-Outside Project No: 70-36-00-08

Highway **47-033-00616 WV 149851 (J. B. Cunningham #8131)**

Pit Location Map



47-033-00616
WV 149851

Existing Well
Access Road

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NAD 27, North Zone
N:274254.34
E:1741815.47

WGS 84
LAT:39.249483
LONG:-80.411489
ELEV:1218.87

LEGEND

Proposed Pit Location



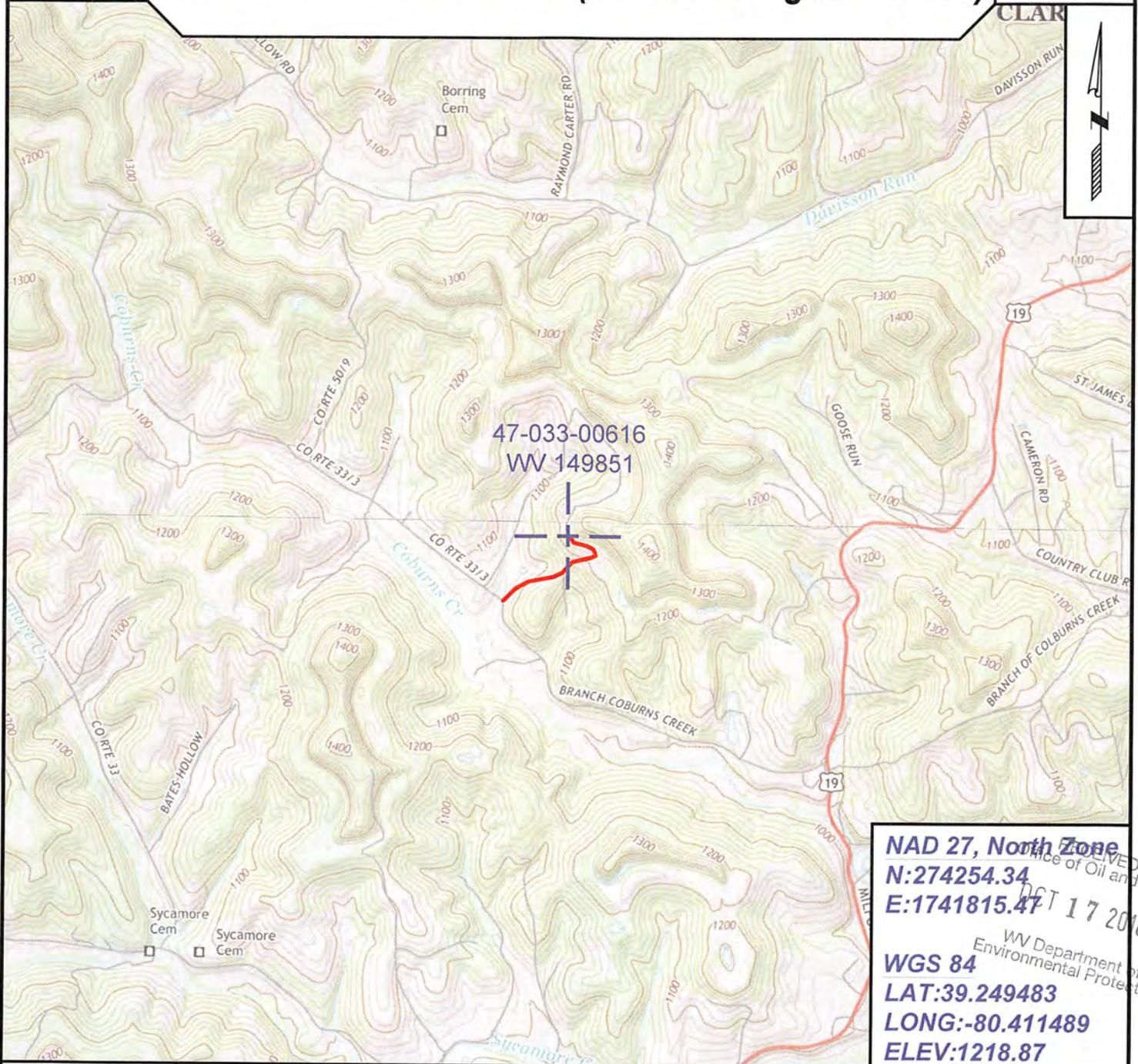
SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
2400 Ansys Drive
Canonsburg, PA 15317

Topo Quad: West Milford 7.5'	Scale: 1" = 2000'
County: Harrison	Date: September 25, 2018
District: Union-Outside	Project No: 70-36-00-08

47-033-00616 WV 149851 (J. B. Cunningham #8131)

Topo



47-033-00616
WV 149851

NAD 27, North Zone
N:274254.34
E:1741815.47
 WGS 84
LAT:39.249483
LONG:-80.411489
ELEV:1218.87



SURVEYING AND MAPPING SERVICES PERFORMED BY:
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 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
 2400 Ansys Drive
 Canonsburg, PA 15317

WW-7
8-30-06



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

API: 47-033-00616 WELL NO.: WV 149851 (J. B. Cunningham #8131)

FARM NAME: J. B. Cunningham

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Harrison DISTRICT: Union - Outside

QUADRANGLE: West Milford 7.5'

SURFACE OWNER: Kencil & Audra Matheny

ROYALTY OWNER: O. E. & Eva L. Corder, et al.

UTM GPS NORTHING: 4344628

UTM GPS EASTING: 550781 GPS ELEVATION: 371 m (1219 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

PS#2180
Title

9/26/18
Date

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