



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, March 23, 2017
WELL WORK PERMIT
Vertical / Plugging

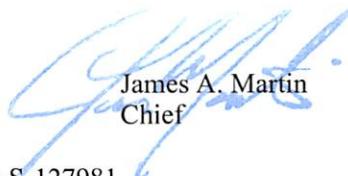
EQT PRODUCTION COMPANY (A)
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for A-8-S-127981
47-035-00147-00-00

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: A-8-S-127981
Farm Name: CARTE, ROGER
U.S. WELL NUMBER: 47-035-00147-00-00
Vertical / Plugging
Date Issued: 3/23/2017

Promoting a healthy environment.

03/24/2017

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.

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

Date: December 30, 2016
Operator's Well
Well No. 127981 (Putnam Company A-8)
API Well No.: 47 035 - 00147

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

CK 2216A
100⁰⁰

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: 711 ft. Watershed: Mathews Branch of Middle Fork
Location: Washington County: Jackson Quadrangle: Romance 7.5'
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 Jamie Stevens
Name: 105 Kentuck Road
Address: Kenna, WV 25248

9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

Operator will cover all
Oil & Gas bearing formation with
Cement

SEE ATTACHED PROJ

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 3-20-17

PLUGGING PROGNOS

***NOTE... POSSIBLE H2S WELL**

H2S will be tested for before the start of well operations, if H2S is detected in amounts above 10 ppm at any time during well operations, all well work will immediately cease, until further testing and evaluation is completed.

All personnel on location will have current H2S training and will have on their person H2S monitors during well operations.

Putnam Co. #8
127981
API# 47-033-00147
District, Washington
Jackson County, WV

BY: R Green
DATE: 11/15/16

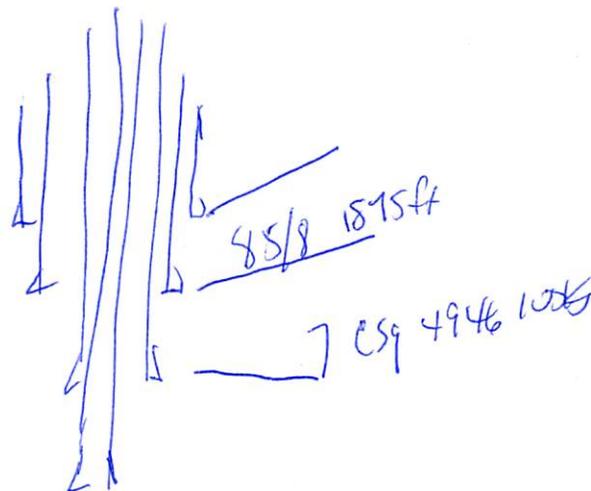
CURRENT STATUS:

TD @ 5042'

Elevation @ 710'

16" conductor @ 37'
10 3/4" casing @ 316'
8 5/8" casing @ 1875' (Cemented with 109 sks)
7" casing @ 4946' (Cemented with 10 sks)
2 3/8" @ 5050'

Fresh Water @ 40'
Saltwater @ 1305'
Oil Show @ 1275'
Gas shows @ 3476', 5005', & 5013'
Coal @ None Reported'



Will use late Cement on
All plugs to Elevation

1. Notify inspector, Jamie Stevens @ 304-206-7775, 24 hrs. prior to commencing operations.
2. RIH, check TD @ 5000' or lower.
3. Rig up and spot 30 bbl. of 6% gelled water, followed by a 400' C1A cement plug 5000' to 4600'. WOC 8 hrs., Tag TOC, add additional C1A cement if necessary.
4. Free point 7" casing, cut casing at free point, TOOH casing. $\approx 4600'$
5. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs. Gel hole to next plug.
6. TOOH to 3600', set 300' C1A cement plug 3600' to 3300'. Gel hole to next plug
7. TOOH to 3000', set 300' C1A cement plug 3000' to 2700'. Gel hole to next plug.
8. TOOH to 2000', set 300' C1A cement plug, 2000' to 1700' (8 5/8" casing seat). Gel hole to next plug.
9. Free point 8 5/8" casing, cut casing @ free point. TOOH casing. $\approx 1200'$
10. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOOH to 1350', set 250' C1A cement plug 1350' to 1100', (oil and gas shows @ 1275', & saltwater @ 1305') Gel hole to next plug.
12. TOOH to 750', set 100' C1A cement plug, 750' to 650'. (Elevation). Gel hole to next plug.

[Signature]
3 2017
03/24/2017

3500147P

13. Attempt to free point and cut and pull 10 3/4" casing, if unable to cut and pull 10 3/4" casing. TIH and perforate 10 3/4" casing with 4 holes each @ 300', 250', 200', 150' & 100'
14. Set 375' C1A cement plug 375' to surface.
15. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
16. Reclaim location and road to WV-DEP specifications.

See
ATTACHED

03/24/2017

3500147P

WR-35

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

06-Aug-96
API #47-035-00147 F

Well Operator's Report of Well Work

Putnam A-8

Farm Name: Carte, Roger Operator Well No.: A-8-S-127981
Location: Elevation: 710.88 Quadrangle: Romance
District: Washington County: Jackson
Latitude: 14750 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude: 6950 Feet West of 81 Deg. 35 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.
P.O. BOX 391, OS-2
ASHLAND, KY 41114-0391

Agent: James L. Stephens

Inspector: Homer Dougherty

Permit Issued: 11-18-96
Well Work Commenced: 09-26-96
Well Work Completed: 11-22-96
Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) 5042'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 16"	37'	37'	
10 3/4"	316.5	316.5	
8 5/8"	1875'	1875'	109 sx
7"	4946'	4946'	10 sx

NOTE: RECOMPLETION

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 5005-5022'

Gas: Initial open flow 168 Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static Rock Pressure 120 psig (surface pressure) after 24 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 _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static Rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: Ashland Exploration, Inc.

By: Deanna M. Rose Deanna M. Rose, Asst. Eng.
Date: _____ 01-13-97

Romance /

Dump 250 gal 15% HCl-Fe acid. SI 30 minutes. Swab tbg to 5032'.
30 minutes. Swab tbg to 5032'. Swab tbg to 5032'.

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Office of Oil and Gas
JAN 11 2017
WV Department of Environmental Protection
03/24/2017

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

Permit No	Jac-147	Gas Well	
Company	Columbian Carbon Co	Casing & Tubing	
Address	Box 1240, Charleston, W.Va.	16 37'4" 37'4"	
Farm	The Putnam Co Acres 1190	10 666'0" 316'5"	
Location	Mathews Branch	85/8 1875'7" 1875'7"	
Well No	8 (GW-492 Elev. 714.4 DF	7" 4946'9" 4946'9"	
District	Washington Jackson County	2 3/8 5050'1" 5050'1"	
Surface	Clara Hammack, Romance Route Sissonville, W. Va.		
Mineral	The Putnam Co, et al		
Commenced	Contact Col. Carbon for addresses 6-19-41		
Completed	9-1-41		
Shot	not shot		
Volume	7,465 MCF		
Rock Pressure	760 lbs 16 days		
Oil	show at 1275'		
Fresh Water	40' 1-15" Blr. in 1 hr-exhausted		
Salt Water	1305' 4-9" blrs. pr hr.; 1360' H.F.		

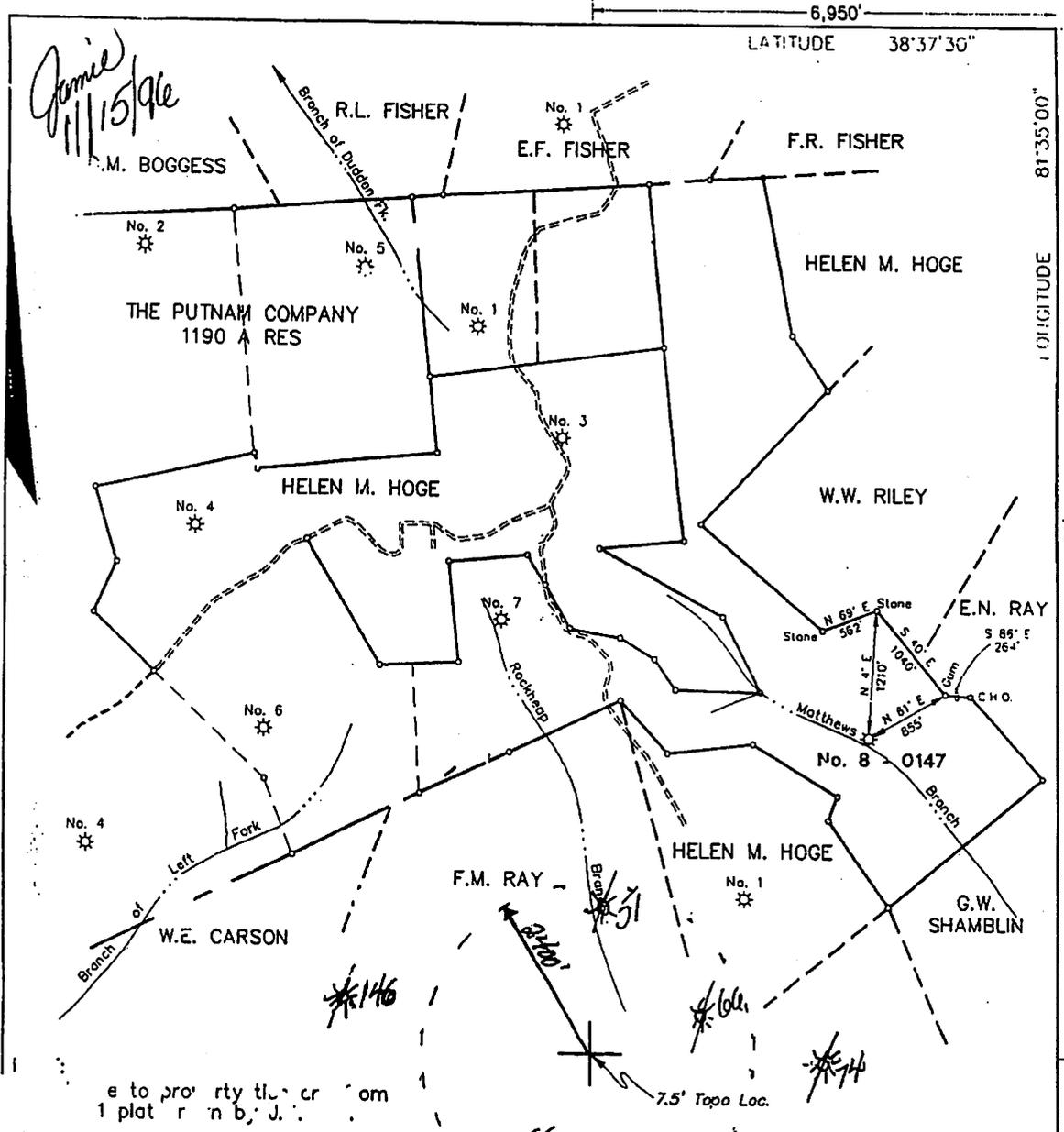
Surface	0--	12	Br. Shalo	1025	1043
Red Rock	12	40	Slate	1043	1192
Sand	40	45 F.W. 40	Limo	1192	1200
Red Rock	45	66 1-15" Blr.	Slate	1200	1275
Slate	66	100 pr. hr-	Salt Sand	1275	1500
Sand	100	103 exhausted	Limo Break	1500	1505
Limo	103	160	Maxon Sand	1505	1624
Red Rock	160	170	L. Limo	1624	1644
Slate	170	195	Slate	1644	1647
Sand	195	250	Limo	1647	1651
Red Rock	250	305	Slate	1651	1654 DLM
Limo	305	325	Big Limo SLM	1644	1798 1654'
Slate	325	345	Big Injun Sand	1798	1854 SLM
Red Rock	345	420	Limo	1854	1860 1644'
Slate	420	432	Bk. Limo	1860	1866 SLM
Red Rock	432	454	Groy Limo SLM	1866	1895
Slate	454	460	Sl. & Shells	1895	3476
Limo Shell	460	473	Br. Shalo	3476	3530
Red Rock	473	501	Sl. & Shells	3530	3904
Sand	501	513	Br. Shalo	3904	4088
Limo	513	536	Wh. Slate	4088	4535
Slate	536	546	Br. Shalo	4535	4819
Limo	546	549	Bk. Shalo	4819	4890 SLM
Red Rock	549	554	Corniferous L.	4890 SLM	5005 SLM
Slate	554	583	Oriskany Sand	5005 SLM	5035
Red Rock	583	593	Limo	5035	5038
Slate	593	634	TOTAL DEPTH		5038
Red Rock	634	639			
Slate & Lime Shells	639	659	Oil----1275 Show		
Sand	659	663	Gas----3476 Show		
Limo	663	698			
Slate	698	703			
Limo	703	730			
Sand	730	806			
Slate	806	836			
Limo	836	860			
Slate	860	885			
Sand	885	911			
Slate Shells	911	980			
Sand	980	1011			
Slate	1011	1025			

Oil----1275 Show
Gas----3476 Show
Pays: 5005-03; 5013-22

CEMENT RECORD
7-19-41-Cemented 8" casing.
Ran 109 sacks of Alpha cement
mixed with 2 sacks Aquagol.
20' solid cement in pipe.
8-19-41-Cemented 7"
Ran 10 sacks of Alpha cement
in dump trailer. 38' cement in
pipe.

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WV Department of
Environmental Protection
03/24/2017

3500147P



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

FILE NO. _____
 DRAWING NO. 110896-1
 SCALE 1" = 1320'
 MINIMUM DEGREE OF ACCURACY _____
 PROVEN SOURCE OF ELEVATION _____

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY

(SIGNED) Stephen Parks
 R.P.E. _____ L.L.S. 1707



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE November 7, 19 96
 OPERATOR'S WELL NO. #8 SN 127981
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 710.8 WATER SHED Matthews Branch of Middle Fork
 DISTRICT Washington COUNTY Jackson
 QUADRANGLE Romance

SURFACE OWNER Roger Carte
 OIL & GAS ROYALTY OWNER Cobot Corporation LEASE ACREAGE 530

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Well was drilled in 1941 by Columbia Carbon Production from Buckeye
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET INFORMATION Oriskany ESTIMATED DEPTH 5,042'
 WELL OPERATOR Oriskany Exploration, Inc. DESIGNATED AGENT Jim Stephens
 ADDRESS J.O. Box 391 ADDRESS Rt. 6 Box 178
Ashland, KY 41114

RECEIVED 001477
 STATE OF WEST VIRGINIA PERMIT
 Office of Oil and Gas
 JAN 11 2017
 WV Department of Environmental Protection
 03-24-2017

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

3500147P

WELL RECORD

Permit No. See 117

Oil or Gas Well GAS
(Kind)

Company.....	COLUMBIAN CARBON COMPANY	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address.....	Box 1240, Charleston, W. Va.	Size			
Farm.....	The Putnam Co. Acres 1190	16. " " " "	37+4"	37+4"	Kind of Packer
Location (waters).....	Mathews Branch	13. " " " "			No Packer
Well No.....	8 (GW 492) Elev. 714.4 DF	10. 3/4" "	666.0"	316.15"	Size of
District.....	Washington County Jackson	8 1/2 5/8" "	1875.7"	1875.7"	Depth set
The surface of tract is owned in fee by.....	Clara Hamack	6 1/2 7" "	4946.9"	4946.9"	Perf. top
.....	Romanco Route Address Siasonville, W. Va.	5 8/16. "			Perf. bottom
Mineral rights are owned by.....	The Putnam Co., et al	3. "			Perf. top
(Contact Columbian Carbon Co. for addresses)	Address	2. 3/8" "	5050.1"	5050.1"	Perf. bottom
Drilling commenced.....	6-19-41	Liners Used			Perf. top
Drilling completed.....	9-1-41				Perf. bottom
Date shot.....	Not Shot				
Open Flow /10ths Water in.....	Inch				
/10ths Merc. in.....	Inch				
Volume.....	7.65M Cu. Ft.	CASING CEMENTED.....	SIZE.....	No. Ft.....	Date.....
Rock Pressure.....	760 lbs. 16 Days hrs.	See Reverse Side			
Oil.....	1275' Show	COAL WAS ENCOUNTERED AT.....	FEET.....	INCHES.....	
Fresh water.....	40' 1-15" Blr. in 1 Hr. - Exhausted	FEET.....	INCHES.....	FEET.....	INCHES.....
Salt water.....	1305' 4-9" Blrs. per Hr.; 1360' Hole Full	FEET.....	INCHES.....	FEET.....	INCHES.....

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	12			
Red Rock			12	40			
Sand			40	45	Fresh Water	40	1-.5" Blr. per Hr. - Exhausted
Red Rock			45	66			
Slate			66	100			
Sand			100	103			
Lime			103	160			
Red Rock			160	170			
Slate			170	195			
Sand			195	250			
Red Rock			250	305			
Lime			305	325			
Slate			325	345			
Red Rock			345	420			
Slate			420	432			
Red Rock			432	454			
Slate			454	460			
Lime Shell			460	473			
Red Rock			473	501			
Sand			501	513			
Lime			513	536			
Slate			536	546			
Lime			546	549			
Red Rock			549	554			
Slate			554	583			
Red Rock			583	593			
Slate			593	634			
Red Rock			634	639			
Slate & Lime Shells			639	659			
Sand			659	663			
Lime			663	698			
Slate			698	703			
Lime			703	730			
Sand			730	806			
Slate			806	836			
Lime			836	860			
Slate			860	885			
Sand			885	911			
Slate Shells			911	980			
Sand			980	1011			
Slate			1011	1025			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Brown Shale			1025	1043			
Slate			1043	1192			
Lime			1192	1200			
Slate			1200	1275			
Salt Sand			1275	1500	Oil	1275	Show
Lime Break			1500	1505			
Marion Sand			1505	1624	Salt Water	1305	4-9" Sls./Br.
Little Lime			1624	1644	Salt Water	1300	Hole Full
Slate			1644	1647			
Lime			1647	1651			
Slate			1651	1654			
			1654' BLM =	1644' SLM			
Big Lime			1644 SLM	1798			
Big Injun Sand			1798	1854			
Lime			1854	1860			
Black Lime			1860	1866 SLM			
Grey Lime			1866 SLM	1895			
Slate & Shells			1895	3476			
Brown Shale			3476	3530	Gas	3476	Show
Slate & Shells			3530	3904			
Brown Shale			3904	4088			
White Slate			4088	4535			
Brown Shale			4535	4819			
Black Shale			4819	4890 SLM			
Corniferous Lime			4890 SLM	5005 SLM			
Oriskany Sand			5005 SLM	5035			
Lime			5035	5038			
TOTAL DEPTH				5038			
					PAYS: 5005-08; 5013-22		

CEMENT RECORD

7-19-41 - Cemented 8" casing. No cavings in hole. Ran 109 sacks of Alpha cement mixed with 2 sacks of Aquagel. Obtained circulation at 10'. 20' solid cement in pipe.
S. K. Johnson, Cementer - Halliburton Oil Well Cementing Co.

8-19-41 - Cemented 7" casing. No cavings in hole. Ran 10 sacks Superior cement in dump bailer. Picked pipe up one joint and set back down in cement. 38' cement in pipe.
Columbian Carbon Company crew.

Date December 11, 1941

APPROVED _____, Owner

COLUMBIAN CARBON COMPANY

By _____ (Title)

03/24/2017

3500147P

WW-4-A
Revised 6/07

1) Date: December 30, 2016
2) Operator's Well Number
127981 (Putnam Company A-8)
3) API Well No.: 47 035 - 00147
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 Nicole Ann Hansen
Address 109 Mountain Side Drive
Kings Mountain, NC 28086
(b) Name See Attachment
Address _____
(c) Name _____
Address _____
6) Inspector Jamie Stevens
Address 105 Kentuck Road
Kenna, WV 25248
Telephone (304) 206-7775

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Cabot Oil & Gas
P. O. Box 972875
Address Dallas, TX 75397-2875
(c) Coal Lessee with Declaration
Name None
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.

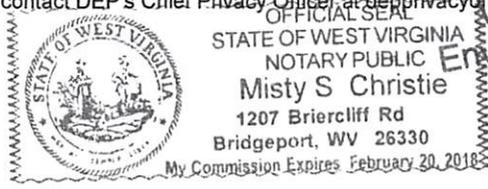
Well Operator: EQT Production Company
By: Victoria J. Roark
Its: Permitting Supervisor
Address: PO Box 280
Bridgeport, WV 26330
Telephone: (304) 848-0076

Subscribed and sworn before me this 4th day of January,
Misty S. Christie

Notary Public RECEIVED
Office of Oil and Gas

My Commission Expires: 2/20/17

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 privacy.officer@wv.gov.



03/24/2017

WW2-A

Additional Surface Owners

Angela Rene Carte
3241 Middle Fork Road
Kenna, WV 25248
304-988-1661 (TM7/51/44)(1ac)



Thomas F. Marion
97 Mathews Branch
Kenna, WV 25248 (TM 7-51-44.3 & 44.4) (1 ac.)

Orville Lester Wiseman
P. O. Box 214
Pinch, WV 25156 (TM 7-51-44.2 (23 ac)

Ralph & Sarah Shamblin
4834 Middle Fork Road
Advent, WV 25231 (TM 7-51-32)(30 ac)
304-988-9272

RECEIVED
Office of Oil and Gas
JAN 11 2017
WV Department of
Environmental Protection

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): Mathews Branch of Middle Fork Quadrangle: Romance 7.5'

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 ___

If so, please describe anticipated pit waste: _____ **Formation Fluids** _____

Will a synthetic liner be used in the pit? Yes X No ___ Is so, what ml.? 20 10ml

- 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 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 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.

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

Company Official Signature _____

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor - WV

Subscribed and sworn before me this 4th day of January, 2016 2017

My Commission Expires 2/20/18

RECEIVED
Office of Oil and Gas

JAN 11 2017

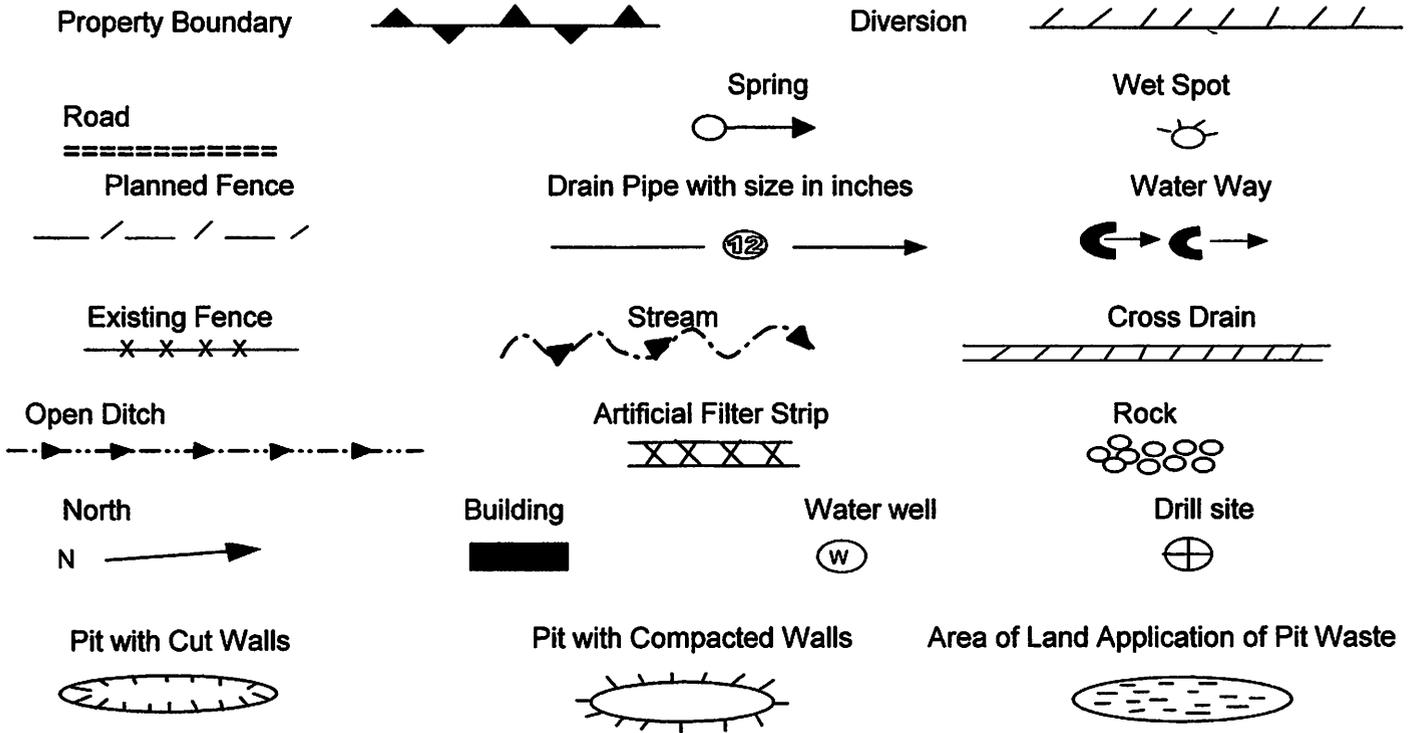
WV Department of Environmental Protection
Notary Public



OFFICE OF OIL AND GAS
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S. Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

03/24/2017

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: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? Yes No

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JAN 11 2017

WV Department of
Environmental Protection

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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WV Department of
Environmental Protection

03/24/2017

3500147P

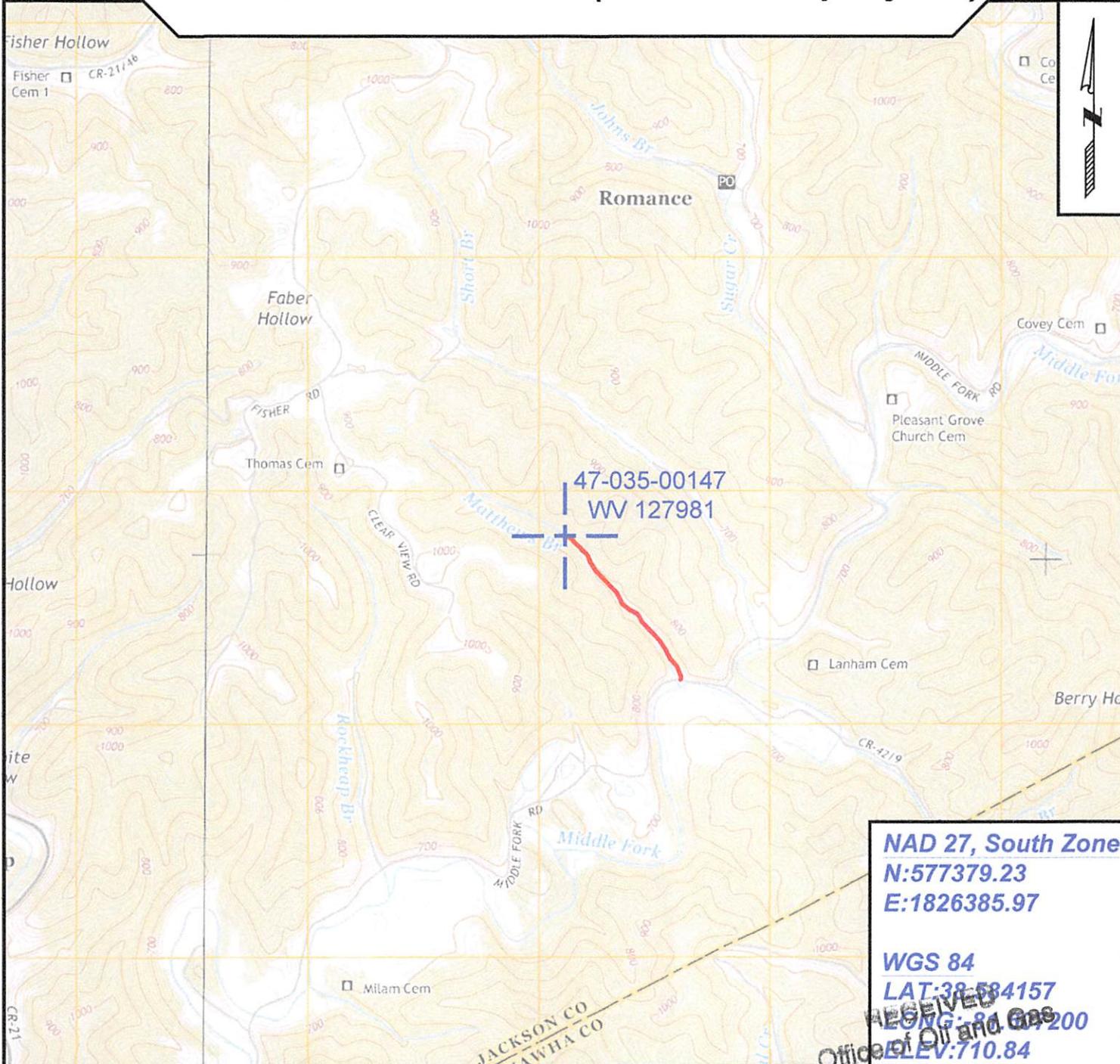
Topo Quad: Romance 7.5' Scale: 1" = 2000'

County: Jackson Date: November 08, 2016

District: Washington Project No: 266-33-00-16

47-035-00147 WV 127981 (Putnam Company A-8)

Topo



NAD 27, South Zone
N:577379.23
E:1826385.97

WGS 84
LAT:38.584157
LONG:-80.200
ELEV:710.84

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 Office of Oil and Gas
 Environmental Protection

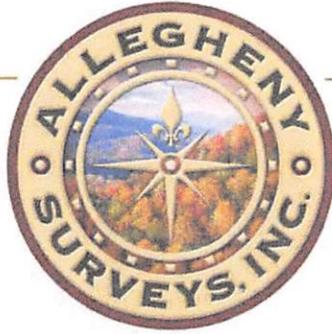


SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 RR Box 289
 Bridgeport, WV 26330
 Environmental Protection

JAN 11 2017

03/24/2017



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY INC.

LEASE NAME AND WELL No. Putnam Company A-8 - WV 127981 - 47-035-00147

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 316' Owner: Nicole Ann Hansen

Address: 109 Mountain Side Drive, Kings Mountain, NC 28086 Phone no. _____

Comments _____

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 Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

MARTINSBURG OFFICE

25 Lights Addition
Martinsburg, WV 25404
phone: 304-901-2182
fax: 304-901-2182

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Office of Oil and Gas
JAN 11 2017
WV Department of
Environmental Protection

3500147A

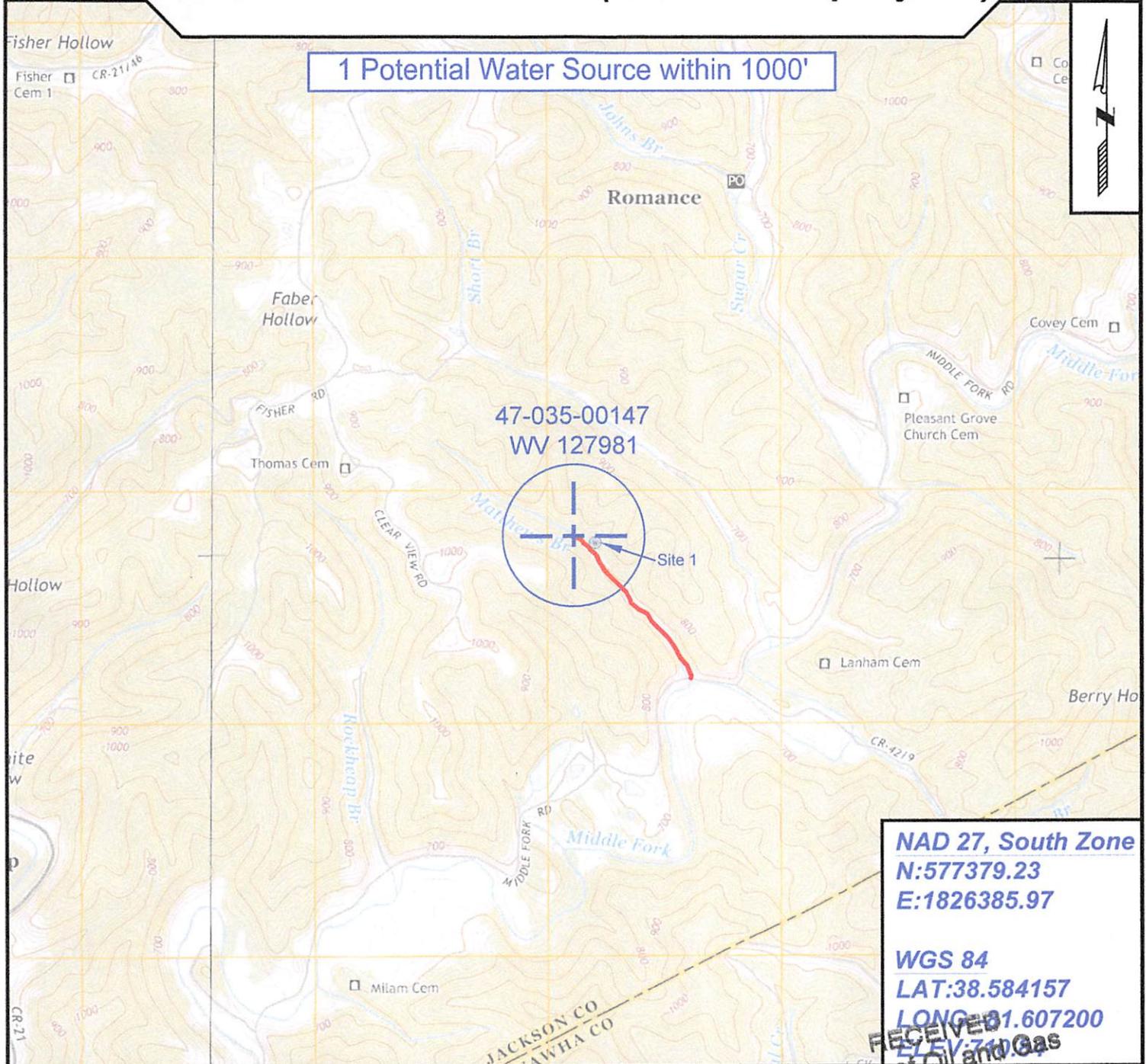
Topo Quad: Romance 7.5' Scale: 1" = 2000'

County: Jackson Date: November 08, 2016

District: Washington Project No: 266-33-00-16

Water

47-035-00147 WV 127981 (Putnam Company A-8)



NAD 27, South Zone
N:577379.23
E:1826385.97

WGS 84
LAT:38.584157
LONG:81.607200

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 ENVIRONMENTAL PROTECTION
 DEPARTMENT



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: Office of Oil and Gas
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26335
 NOV 11 2017
 WV Department of
 Environmental Protection
03/24/2017

WW-7
8-30-06



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

API: 47-035-00147 WELL NO.: WV 127981 (Putnam Company A-8)

FARM NAME: The Putnam Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Jackson DISTRICT: Washington

QUADRANGLE: Romance 7.5'

SURFACE OWNER: Nicole Ann Hansen

ROYALTY OWNER: Cabot Oil & Gas Corporation

UTM GPS NORTHING: 4270806

UTM GPS EASTING: 447115 GPS ELEVATION: 216 m (711 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.

Stacy Brown
Signature

PS# 2180
Title

12/2/16
Date