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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, June 01, 2018

WELL WORK PLUGGING PERMIT  
Vertical Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 70A  
47-039-03627-00-00

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

Operator's Well Number: 70A  
Farm Name: EASTERN GAS & FUEL  
U.S. WELL NUMBER: 47-039-03627-00-00  
Vertical Plugging  
Date Issued: 6/1/2018

## 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.

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### CONDITIONS

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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.

Date: April 5, 2018  
Operator's Well  
Well No. 090961 Eastern Gas and Fuels 70  
API Well No.: West ' 039 - 03627

4703903627P

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: 2075 Watershed: Toms Branch of Paint Creek  
Location: Cabin Creek County: Kanawha Quadrangle: Powellton  
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 Terry Urban 9) Plugging Contractor:  
Name: PO Box 1207 Name: HydroCarbon Well Service  
Address: Clendenin WV 25045 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.**

*SEE PROS for changes*

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Office of Oil and Gas  
APR 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 4-23-18

PLUGGING PROGNOSIS

Eastern Gas & Fuel # 70-A  
090961  
API# 47-039-3627  
District, Cabin Creek  
Kanawha County, WV

47 039 03627

BY: R Green  
DATE: 3/10/16

**CURRENT STATUS:**  
TD @ 4006'  
Elevation @ 2076'

20" casing @ 21'  
13 3/8" casing @ 925'  
8 5/8" casing @ 2380'  
4 1/2" casing @ 4006'  
2 3/8" tbg @ 3660' (set on packer @ 3374')

Fresh Water none reported.  
Saltwater @ none reported.  
Oil Shows, none reported  
Gas shows @ 2640', 3170' & 3770'  
Coal @ 185', 395', & 847'

OPERATOR TO SET Phys  
AT CASING SEAT & COAL - Freshwater  
DO NOT OMIT  
Phys

*[Signature]*  
4-23-16

1. Notify inspector Terry Urban, 304-549-5915, 24 hrs. prior to commencing operations.
2. Release packer and TOOH tbg and packer. TIH and check TD.
3. TIH tbg to 3950' gel hole 3950' to 3800'.
4. TOOH tbg to 3800', set 250' C1A cement plug 3800' to 3550', (Gordon perfs).
5. TOOH tbg 3550', gel hole 3550' to 3250'.
6. TOOH tbg to 3250', set 250' C1A cement plug 3250' to 3000', (Weir Perfs)
7. TOOH tbg to 3000', gel hole 3000' to 2750'.
8. TOOH tbg to 2750', set 450' C1A cement plug 2750' to 2350'. (Maxton perfs and 8 5/8" casing seat). TOOH tbg.
9. Free point 4 1/2" casing, cut casing at free point, (est@2300')TOOH casing.
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. Gel hole to next plug at 2125'
11. TOOH tbg to 2125', set 100' C1A cement plug 2125' to 2025', (Elevation)
12. TOOH tbg to 2025'. Gel hole 2025' to 1000'.
13. TOOH tbg to 1000' set 200' C1A cement plug, 1000' to 800', (coal @ 847' & 13 3/8" casing seat)
14. TOOH tbg to 800', gel hole 800' to 500'.
15. TOOH tbg to 500', set 500' C1A cement plug 500' to surface. (Coal @ 185' 395' and 20" casing seat).
16. Erect monument with API#, date plugged, company name.
17. Reclaim road and location to WV-DEP specifications.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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4703903627P

Oil and Gas Division

OIL & GAS DIVISION

WELL RECORD DEPT. OF MINES

Quadrangle Powellton  
Permit No. 3627

Cable      Gas X  
Recycling      Comb.       
Water Flood      Storage       
Disposal      (Kind)     

Company Ashland Exploration, Inc.  
Address P. O. Box 391, Ashland, Ky. 41101  
Farm Eastern Gas & Fuel Acres 22,000+  
Location (waters) Tom's Branch of Paint Creek  
Well No. 70-A Elev. 2076.4'  
District Cabin Creek County Kanawha  
The surface of tract is owned in fee by Eastern Associated Coal Corp.  
Address 1701 Koppers Bldg., Pittsburgh, PA  
Mineral rights are owned by Same as above  
Address       
Drilling Commenced 9/3/80  
Drilling Completed 9/27/80  
Initial open flow 298 M cu. ft.      bbls.  
Final production \*677 M cu. ft. per day      bbls.  
Well open 3 hrs. before test 450 RP.  
Well treatment details: 430

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 20"	21'	21'	18 sks
Cond. 13-10" 13 3/8"	925'	925'	400 sks
9 5/8"			
8 5/8"	2380'	2380'	650 sks
7"			
5 1/2"			
4 1/2"	4006'	4006'	260 sks
3"			
2 2 3/8"		3660	Pkr @ 3374'
Liners Used			

See below

Attach copy of cementing record.

Perf Gordon 18H/3770-3782 - Frac'd  
Perf Upper Weir 20H/3170-3180 - Frac'd  
Perf Maxton 4H/2640-2644 & 15H/2666-2681 - Frac'd  
\* Completed as dual producer from Gordon @ 119 MCF/D 450#.  
Weir & Maxton 558 MCF/D 430#

Coal was encountered at      Feet      Inches  
Fresh water      Feet Salt Water      Feet  
Producing Sand Gordon, Weir & Maxton Depth Gordon 3768, Weir 3154  
Maxton 2607

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	212		
Sand			212	380		
Shale			380	520		
Sand			520	914		
Shale & Sand			914	1110		
Sand			1110	1312		
Shale			1312	1358		
Salt Sand			1358	2009		
Shale			2009	2159		
Sand			2159	2183		
Shale			2183	2607		
Lower Maxton			2607	2692		
Little Lime			2692	2761		
Pencil Cave			2761	2778		
Big Lime			2778	3013		
Shale			3013	3019		
Injun			3019	3114		
Shale			3114	3154		
Upper Weir			3154	3186		
Shale			3186	3251		
Lower Weir			3251	3284		
Shale			3284	3525		
Coffee Shale			3525	3548		
Berea			3548	3590		
Devonian Shale			3590	3768		
Gordon			3768	3785		
Shale			3785	4006		

DTD 4001  
LTD 4006

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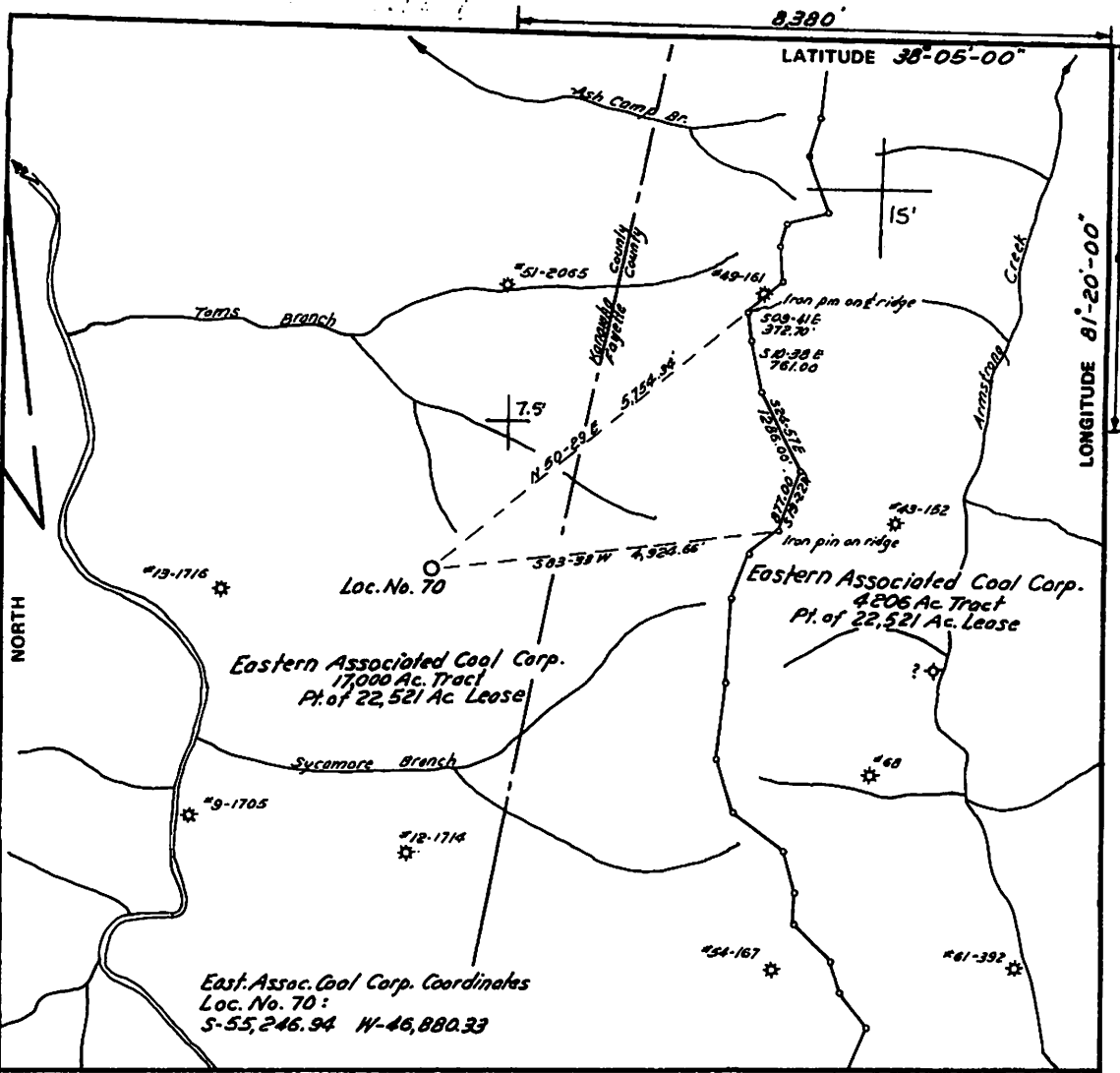
APR 23 2018

WV Department of  
Environmental Protection

Date November 12, 1980

APPROVED ASHLAND EXPLORATION, INC.

*L. D. Preston*  
L. D. Preston, Engineer



703903627P

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2,000'  
 MINIMUM DEGREE OF ACCURACY 1 in 13,000  
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. on R.R. Bridge on Armstrong Cr.

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 MINES.  
 (SIGNED) John H. Burdette  
 R.P.E. 1442 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 2067.4 WATER SHED Toms Branch of Point Creek  
 DISTRICT Cabin Creek COUNTY Kanawha  
 QUADRANGLE Powellton 7.5 MONTGOMERY 15'  
 SURFACE OWNER Eastern Associated Coal Corp. ACREAGE 22,000±  
 OIL & GAS ROYALTY OWNER Eastern Associated Coal Corp. LEASE ACREAGE 22,521  
 LEASE NO. 11909  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Brown Shale ESTIMATED DEPTH 3900'  
 WELL OPERATOR Ashland Exploratio, Inc. DESIGNATED AGENT H. H. Griffith  
 ADDRESS Box 391, Ashland, Ky. 41101 ADDRESS Box 156, Brenton, W. Va. 24818

DATE May 13 19 80  
 OPERATOR'S WELL NO. 70-Ser 090151  
 API WELL NO. 47-039-3627-P  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



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WV Department of Environmental Protection



# WVGES O&G Record Reporting System

47-039-03627P

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703903627	EQT Production Company	2016	0												

## Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703903627	Original Loc	Salt Sands (undiff)	Well Record	1358	Reasonable	651	Reasonable	2067	Ground Level
4703903627	Original Loc	Lo Maxton	Well Record	2607	Reasonable	84	Reasonable	2067	Ground Level
4703903627	Original Loc	Lite Lime	Well Record	2692	Reasonable	69	Reasonable	2067	Ground Level
4703903627	Original Loc	Greenbrier Group	Electric Log	2693	Reasonable	360	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	Pencil Cave	Well Record	2761	Reasonable	17	Reasonable	2067	Ground Level
4703903627	Original Loc	Big Lime	Well Record	2778	Reasonable	235	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	Big Lime	Electric Log	2778	Reasonable	235	Reasonable	2067	Ground Level
4703903627	Original Loc	Greenbrier Group	Well Record	2778	Reasonable	40	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	Loyalhanna	Electric Log	3013	Reasonable	95	Reasonable	2067	Ground Level
4703903627	Original Loc	Big Injun (Price & eq)	Well Record	3019	Reasonable	537	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	Price Fm & equivs	Electric Log	3053	Reasonable	33	Reasonable	2067	Ground Level
4703903627	Original Loc	Weir	Well Record	3251	Reasonable	23	Reasonable	2067	Ground Level
4703903627	Original Loc	Sunbury Sh	Well Record	3525	Reasonable	22	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	Sunbury Sh	Electric Log	3525	Reasonable	43	Reasonable	2067	Ground Level
4703903627	Original Loc	Berea Ss	Well Record	3547	Reasonable	42	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	Berea Ss	Electric Log	3548	Reasonable	0	Reasonable	2086	Kelly Bushing
4703903627	Original Loc	U Dev undf Ber/LoHURN	Well Record	3590	Reasonable	17	Reasonable	2067	Ground Level
4703903627	Original Loc	Gordon	Well Record	3788	Reasonable			2086	Kelly Bushing

## Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	
4703903627	90	4016			N, G, T, D, I, C, *	Y	N	90	3982	2380	4000			2380	4010	2310			4016	2390	4000	Y	Y

Comment: \*logs:Caliper Log Analysis,

**Downloadable Log Images:** We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

**Quick Reference Guide for Log File Names:** For more info about WVGES scanned logs click [here](#)

### geologic log types:

- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other<sup>1</sup>
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

### mechanical log types:

- b cement bond
- c caliper
- o other<sup>1</sup>
- p perforation depth control or perforate

<sup>1</sup>Other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

FILENAME
4703903627ood.tif
4703903627i.tif
4703903627l.tif
4703903627a.tif

## Plugging Information:

API	PLG_DT	DEPTH_PBT
4703903627	11/25/1980	0

There is no Sample data for this well



Kanawha-3627

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

<u>Eastern Associated Coal Corp.</u> <small>COAL OPERATOR OR OWNER</small>	<u>Ashland Exploration, Inc.</u> <small>NAME OF WELL OPERATOR</small>
<u>1701 Koppers Bldg.</u> <small>ADDRESS</small>	<u>P. O. Box 391</u> <small>COMPLETE ADDRESS</small>
<u>Pittsburgh, PA</u> <small>COAL OPERATOR OR OWNER</small>	<u>Ashland, Kentucky 41101</u> 19 <small>WELL AND LOCATION</small>
<u>Eastern Associated Coal Corp.</u> <small>LEASE OR PROPERTY OWNER</small>	<u>Cabin Creek</u> District
<u>Same as above</u> <small>ADDRESS</small>	<u>Kanawha</u> County
	Well No. <u>70</u>
	<u>Eastern Gas &amp; Fuel</u> Farm

STATE INSPECTOR SUPERVISING PLUGGING Martin Nichols

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Kanawha ss:  
Roy Lawson and Marvin Walker (Whipkey Drilling Co.)  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Ashland Exploration, Inc. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 8 day of August, 1980, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSS PULLED	CSS LEFT IN
Sand & Shale 0-1543	PLUGGING RECORD		NONE	13 3/8 @ 33'
Salt Sand 1541-2060			NONE	7" @ 2090'
Shale 2060-2338	0-969 Gel		2875'	4 1/2" @ 3160'
Upper Maxton 2338-2398	969-1069 Cement			
	1069-1938 Gel			
Sd & Shale 2398-2607	1938-2138 Cement			
	2138-4006 Shale Cavings			
L. Maxton-2607-2692				
L. Lime 2692-2761	NOTE: 285' 4 1/2" csg struck			
Big Lime 2778-3063	in open hole w/top			
U. Weir 3154-3186	of csg @ 2800' KB.			
L. Weir 3251-3286				
Berea 3548-3590				
Gordon 3768-3785				
TD @ 4006				
COAL SEAMS				
(NAME)	Coal @ 185-197			
(NAME)	@ 395-408			
(NAME)	@ 847-853			
(NAME)				

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OIL & GAS DIVISION  
DEPT. OF MINES

and that the work of plugging and filling said well was completed on the 25 day of November, 1980

And further deponents saith not.

Sworn to and subscribed before me this 25<sup>th</sup> day of November, 1980

My commission expires: May 21, 1982 Notary Public.

Permit No. \_\_\_\_\_

FORM IV-2  
(Obverse)  
[08-78]

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

Date: May 13 1980

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 70, Ser. #090151

API Well No. 47-039-1627

WELL TYPE: Oil  Gas  (If "Gas", Production  Underground storage  Deep  Shallow )

LOCATION: Elevation: 2067.4' Watershed: Armstrong

District: Cabin Creek County: Kanawha Quadrangle: Powellton

WELL OPERATOR Ashland Exploration, Inc. DELEGATED AGENT Harold Griffith  
(Address P. O. Box 391 ADDRESS P. O. Box 156  
Ashland, Kentucky 41101 Brenton, WV 24818)

OIL & GAS ROYALTY OWNER Eastern Associated Coal Corp. COAL OPERATOR None  
Address 1701 Koppers Bldg. Address \_\_\_\_\_  
Pittsburgh, Pa. 15219

Acres 22.521 COAL OWNER(S) WITH DECLARATION ON RECORD: Eastern Associated Coal Corp.

SURFACE OWNER Same Address 1701 Koppers Bldg.  
Pittsburgh, Pa. 15219

Acres 22 COAL LESSEE WITH DECLARATION ON RECORD: \_\_\_\_\_

FIELD SALE (IF MADE) Name F & F Mining Corporation  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED Name Martin Nichols Address P. O. Box 408  
Clendenin, WV Engt Bank, WV 25067

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  lease  other contract  dated July 19 59 to United Producing Co., Inc. from Eastern Gas and Fuel Associates

[If said deed, lease, or other contract has been reported: Recorded on Sept. 3 19 59, in the office of the Clerk of the County Commission of Kanawha County, West Virginia, in lease Book 145 at page 163. A permit is requested as follows:

PROPOSED WORK: Drill  Drill deeper  Redrill  Fracture on stimulate   
Plug off old formation  Perforate new formation   
Other physical changes in well (specify) \_\_\_\_\_

planned as shown on the work order on the reverse side hereof.  
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code 5-22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plan and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing of this permit Application to the Department of Mines at Charleston, West Virginia.

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MAY 15 1980

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

OIL & GAS DIVISION ASHLAND EXPLORATION, INC.  
DEPT. OF MINES Well Operator  
J. H. Burtnett  
J. H. Burtnett, Regional CIVIL Engineer

BLANKET BOND

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY.

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN)

R. H. Whipkey Co.

Address

Box 498  
Parkersburg, WV 26101

GEOLOGICAL TARGET FORMATION, Brown Shale

Estimated depth of completed well, 3900 feet

Approximate water strata depths: Fresh, \_\_\_\_\_ feet

Approximate coal seam depths: 50,740,860

(Open Mine)

Is coal being mined in the area? Yes

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT PILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	13 3/8	H-40	48.00	X		30	30	15 sks	Kinds
Fresh water									
Coal	9 5/8	H-40	29.30	X		900	900	Circulate in	Size
Intermediate	7"	K-55	20.00	X		2080	2080	along & grout	op
Production	4 1/2	K-55	10.50	X		3900	3900	Circulate	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-4, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23; (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-4a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate permit is required for fracturing or stimulating a well. This permit shall be filed with the Department as such on the Form IV-20 and in connection therewith.

All provisions being in accordance with Chapter 22-4 of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if operations have not commenced by 1-27-81

Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

The undersigned coal operator \_\_\_\_\_ owner \_\_\_\_\_ lessee \_\_\_\_\_ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has 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.

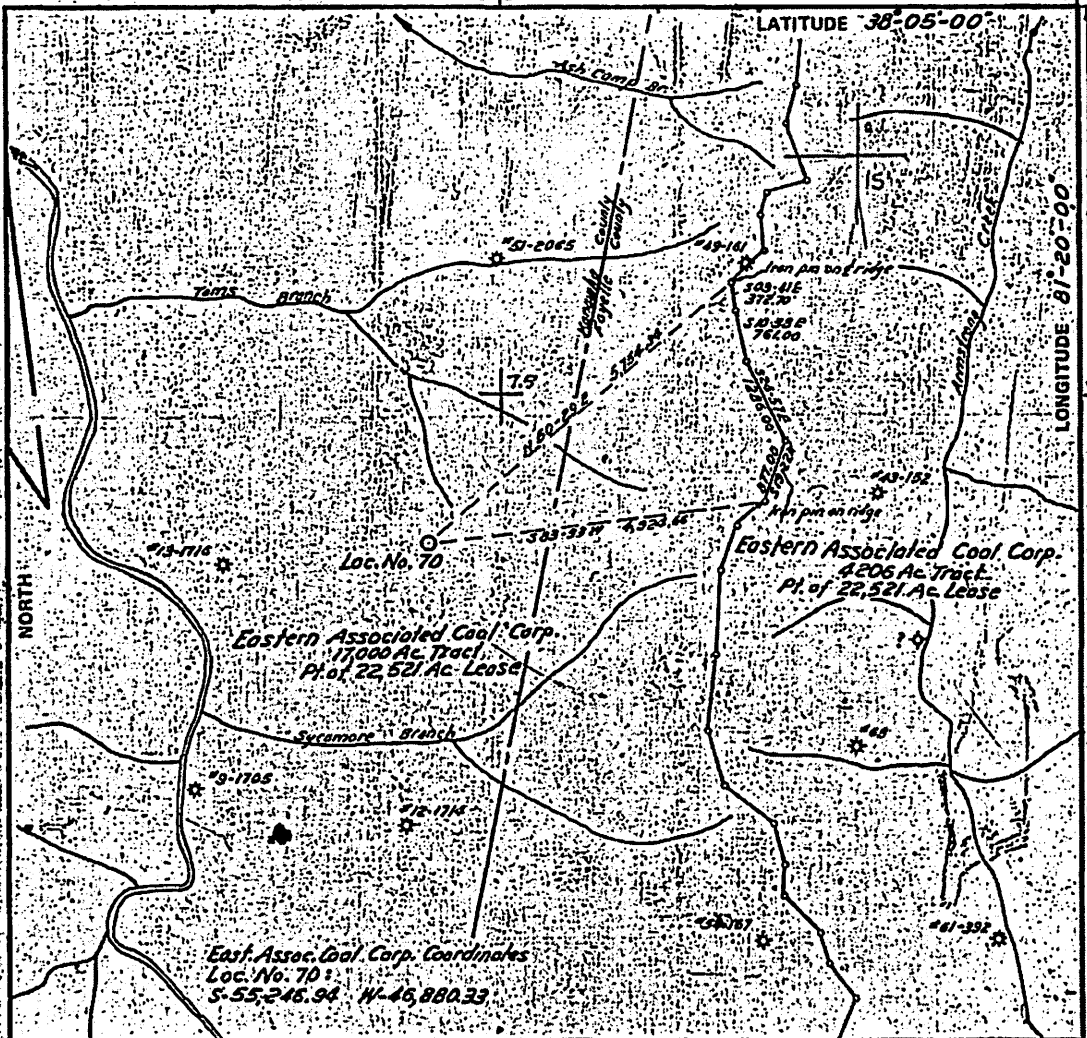
Date: \_\_\_\_\_ 19 \_\_\_\_\_

DEPT. OF MINES

OIL & GAS DIVISION

CLERK BOARD

8-4 10 5.20.80 0390



East. Assoc. Coal Corp. Coordinates  
 Loc. No. 70:  
 S-55-24.94 W-46,880.33

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2,000'  
 MINIMUM DEGREE OF ACCURACY 1 in 13,000  
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. on R.R. Bridge on Armstrong Cr.

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 MINES  
 (SIGNED) John H. Griffith  
 R.P.E. 1982 I.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE May 13 19 80  
 OPERATOR'S WELL NO. 70-Sub 090151  
 API WELL NO. \_\_\_\_\_  
47-039-3627-P  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 2067.4 WATER SHED Toims Branch of Point Creek  
 DISTRICT Coblin Creek COUNTY Kanawha  
 QUADRANGLE Powellton T5. MONTGOMERY 15  
 SURFACE OWNER Eastern Associated Coal Corp. ACREAGE 22,000?  
 OIL & GAS ROYALTY OWNER Eastern Associated Coal Corp. LEASE ACREAGE 22,521  
 LEASE NO. 11909  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Brown Shale ESTIMATED DEPTH 3900'  
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT H. H. Griffith  
 ADDRESS: Box 391, Ashland, Ky. 41101 ADDRESS Box 156, Brenton, W. Va. 24618

Date: May 13, 19 80

Operator's Well No. 70 Ser. 809D151

API Well No. 87-039

State County Terrett

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

RECLAMATION PLAN

WELL OPERATOR Ashland Exploration, Inc.

DESIGNATED AGENT Harold Griffith

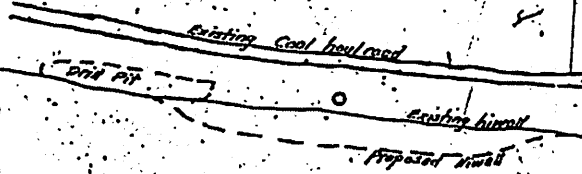
Address P. O. Box 391  
Ashland, Ky. 41101

Address P. O. Box 156  
Brenton, WV 24818

The well operator hereby agrees to carry out the reclamation requirements of Code § 22-2-12b in the manner set out below.

This plan has      / has not X / been reviewed with the district oil and gas inspector.

SKETCH: (Locate and show the (1) well location, (2) existing access road, (3) access road to be constructed, (4) well site, (5) drilling pits, and (6) necessary drainage features, including drains (natural and manmade), silt traps, etc.)



STATEMENT OF RECLAMATION PLAN (Complete on reverse side if necessary)

As shown by the above portion of U.S.G.S. topo map (Scale: 1" = 2,000'), the proposed location No. 70 is beside an existing active coal-haul road. It will be necessary to widen the location as shown on the above sketch.

By use of proper grading and by sloping the location toward the hiwall there should be a minimum of run-off during construction. There should be no run-off during operation.

The drill pit will be constructed so that there is no seepage, lining being used if required.

Upon completion the location and pit will be reclaimed, retaining only an area sufficient to operate the well. All unused areas will be seeded, fertilized and mulched as needed.

RECEIVED

MAY 15 1980

OIL & GAS DIVISION  
DEPT. OF MINES

ASHLAND EXPLORATION, INC.  
Well Operator

By Harold Griffith  
Regional Civil Engineer

(08-78)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY.  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-15 UPON COMPLETION.

DRILLING CONTRACTOR (IF KNOWN)

R. H. Whipkey Co.

Address: Box 498  
Parkersburg, WV 26101

GEOLOGICAL TARGET FORMATION: Brown Shale

Estimated depth of completed well, 3900 feet Rotary Cable

Approximate water strata depths: Fresh, 2835 feet salt sand, 1530-2030 feet

Approximate coal seam depths: 50, 740, 860 Is coal being mined in the area? Yes No X  
(Open Mine)

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE FOR DRILLING	INTERVALS LEFT IN WELL	CEMENT FILL-UP OR SACKS (Cubic feet)	SACKS
	Size	Grade	Weight per ft	New Used				
Conductor	13 3/8	H-40	48.00	X	30	30	15 skw	Kinds
Fresh water								
Coil	9 5/8	H-40	29.30	X	900	900	Circulate into mine & grout	circulation
Intermediate	7"	K-55	20.00	X	2080	2080	Circulate	circulation
Production	4 1/2	K-55	10.50	X	3900	3900	As needed	circulation
Tubing								
Liners								

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in the form thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if the consent required by Code § 22-4-8a from the owner of any water well or drilling within 300 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is issued and is noted as such on the Form IV-2 filed in connection therewith.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

WAIVER

The undersigned coal operator, owner, lessee of the coal under this well location, has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has 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: 5/19/80 19

By

Its

J. F. Mining Corp  
C. P. Ryle  
Chas. Press



# RIVERTON COAL COMPANY

9TH FLOOR — UNION BUILDING  
723 KANAWHA BLVD., E.  
CHARLESTON, W. VA. 25301

PHONES: (304) 345-8210  
345-8211  
345-8212

We've Moved!  
Our New Address is:  
Post Office Box 4417 of  
4701 MacCorkle Ave. SE  
Charleston, WV 25304  
Phone 925-0481

May 19, 1980

RECEIVED

MAY 21 1980

CERTIFIED MAIL

OIL & GAS DIVISION  
DEPT. OF MINES

Mr. Robert L. Dodd  
Deputy Director  
Oil and Gas Division  
W. Va. Dept. of Mines  
1613 Washington Street East  
Charleston, W. Va. 25305

RE: Ashland Exploration Inc.  
Well No. 70 - 090151  
API Well No. 47-039  
Gas Well Permit Application  
dated May 13, 1980

Dear Mr. Dodd:

Riverton Coal Company leases coal reserves at the projected gas well location. Although detailed mine plans have not been initiated, the referenced gas well will interfere with the future mining plans of the Peerless coal seam. Therefore, Riverton requests that the projected gas well be relocated to a mutually agreeable location.

Sincerely yours,

C. H. Williams, Jr.  
Vice President Engineering

CHW, Jr./ig

cc.: Mr. M. D. Eddy, Jr.  
Mr. J. H. Burnett





# RIVERTON COAL COMPANY

9TH FLOOR — UNION BUILDING  
723 KANAWHA BLVD., E.  
CHARLESTON, W. VA. 25301

PHONES: (304) 345-8210  
345-8211  
345-8212

We've Moved!  
Our New Address is  
Post Office Box 4417 of  
4701 MacCorkle Ave. SE  
Charleston, WV 25304  
Phone 925-0481

May 13, 1980

Mr. Robert L. Dodd  
Deputy Director  
Oil and Gas Division  
W. Va. Department of Mines  
1613 Washington Street East  
Charleston, W. Va. 25305

RE: Ashland Exploration, Inc.  
Well No. 70-090151  
API Well No. 47-039  
Gas Well Permit  
Application dated May 13, 1980

Dear Mr. Dodd:

Based on a conference with Ashland Exploration, Riverton  
withdraws its objections to the subject well.

Very truly yours,

*C. H. Williams, Jr.*  
C. H. Williams, Jr.  
Vice President Engineering

CHW, Jr./lg

cc.: Mr. M. D. Eddy, Jr.  
Mr. J. H. Burnett  
Mr. A. Cetinbas

RECEIVED  
MAY 27 1980  
OIL & GAS DIVISION  
DEPT. OF MINES



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**RECEIVED**

NOV 13 1980

**Oil and Gas Division**

OIL & GAS DIVISION

**WELL RECORD DEPT. OF MINES**

Quadrangle Powellton  
029-  
Permit No. 3627

Cable      Gas X  
Recycling      Comb.       
Water Flood      Storage       
Disposal      (Kind)

Company Ashland Exploration, Inc.  
Address P. O. Box 391, Ashland, Ky. 41101  
Farm Eastern Gas & Fuel Acres 22,000+  
Location (waters) Tom's Branch of Paint Creek  
Well No. 70-A Elev. 2076.4'  
District Cabin Creek County Kanawha  
The surface of tract is owned in fee by Eastern Associated Coal Corp.  
Address 1701 Koppers Bldg., Pittsburgh, PA  
Mineral rights are owned by Same as above  
Address       
Drilling Commenced 9/3/80  
Drilling Completed 9/27/80  
Initial open flow 1298 M cu. ft.      bbls.  
Final production \*677 M cu. ft. per day      bbls.  
Well open 3 hrs. before test 450 RP.  
Well treatment details: 430

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-1/2 20"	21'	21'	18 sks
Cond. 13-10" 13 3/8"	925'	925'	400 sks
9 5/8"			
8 5/8"	2380'	2380'	650 sks
7"			
5 1/2"			
4 1/2"	4006'	4006'	260 sks
3"			
2 2 3/8"		3660'	Pkr @ 3374'
Linets Used			

See below

Attach copy of cementing record.

Perf Gordon 18H/3770-3782 - Frac'd  
Perf Upper Weir 20H/3170-3180 - Frac'd  
Perf Maxton 4H/2640-2644 & 15H/2666-2681 - Frac'd  
\*Completed as dual producer from Gordon @ 119 MCF/D 450#  
Weir & Maxton 558 MCF/D 430#

Coal was encountered at      Feet      Inches  
Fresh water      Feet      Salt Water      Feet  
Producing Sand Gordon, Weir & Maxton Depth Gordon 3768, Weir 3154  
Maxton 2607

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			0	212		
Sand			212	380		
Shale			380	520		
Sand			520	914		
Shale & Sand			914	1110		
Sand			1110	1312		
Shale			1312	1358		
Salt Sand			1358	2009		
Shale			2009	2159		
Sand			2159	2183		
Shale			2183	2607		
Lower Maxton			2607	2692		
Little Lime			2692	2761		
Pencil Cave			2761	2778		
Big Lime			2778	3013		
Shale			3013	3019		
Injun			3019	3114		
Shale			3114	3154		
Upper Weir			3154	3186		
Shale			3186	3251		
Lower Weir			3251	3284		
Shale			3284	3525		
Coffee Shale			3525	3548		

\* Indicates Electric Log tops in the remarks section.

(over)



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

RECEIVED  
AUG 22 1980

INSPECTOR'S WELL REPORT

Permit No. 039-3627

OIL & GAS DIVISION  
DEPT. OF MINES

Company Ashland Exploration Inc

Address Ashland, Ky

Firm Eastern Associated Coal Corp

Well No. 70-501 090151

District Cabin Creek County, Kanawha

Drilling commenced 8-16-80

Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_

Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_

Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch

Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.

Block pressure \_\_\_\_\_ lbs \_\_\_\_\_ hrs.

Oil \_\_\_\_\_ bbls. 1st 24 hrs.

Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet

Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	Left in well	PACKERS
Size			
16			Kind of Packer
13 7/8	29	29	
10			Size of
8 1/2			
6 7/8	2094	2094	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 7 1/2 SIZE 2094 No. FT. 2-20-80

NAME OF SERVICE COMPANY: Dowell

COAL WAS ENCOUNTERED AT 185 TO 197 FEET INCHES

385 TO 408 FEET INCHES 847 TO 853 FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names \_\_\_\_\_

Remarks: Basket at 60 ft down, Cemented with 500 bags 50/50 pos 4x 100 bags next. - Reduced height. 956 ft. No open mines. Cement did not circulate going to cement from top down.

8-20-80  
DATE

508  
Master B. Nichols  
DISTRICT WELL INSPECTOR

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

RECEIVED

SEP - 5 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 039-3627

Oil or Gas Well Gas

Company <u>Ashland Exploration Inc.</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>Ashland - Ky</u>	Size			
Firm <u>Eastern Associated Coal</u>				Kind of Packer
Well No. <u>70-A- Ser 090151</u>				Size of
District <u>Cabot Creek</u> County <u>Kanawha</u>				Depth set
Drilling commenced <u>9-3-80</u>				Perf. top
Drilling completed				Perf. bottom
Total depth				Perf. top
Date shot				Perf. bottom
Depth of shot				Perf. top
Initial open flow				Perf. bottom
/10ths Water in				
Inch				
Open flow after tubing				
/10ths Merc. in				
Inch				
Volume				
Cu. Ft.				
Block pressure				
lbs.				
hrs.				
Oil				
bbls. 1st 24 hrs.				
Fresh water				
feet				
feet				
Salt water				
feet				
feet				

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_

NAME OF SERVICE COMPANY \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks:

Ashland plugged well no-70- moved- 45ft-  
Redrilling a new well- saying they will change imp-plet.

9-3-80

NAME OF FIELD \_\_\_\_\_ 508  
COAL WAS \_\_\_\_\_  
Marion B. Nichols  
DISTRICT WELL INSPECTOR

Drillers' Names \_\_\_\_\_

Remarks:

NO I.D. ON WELL  
GOING TO TALK TO CO. ABOUT THIS

11/1/80  
DATE

Red Dutton  
DISTRICT WELL INSPECTOR



RECEIVED

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION

DEPT. OF MINES

NOTICE OF INTENTION TO PLUG AND ABANDON WELL

(REQUIRED BY SECTION 9, ARTICLE 4, CHAPTER 22 OF THE CODE)

TO THE DEPARTMENT OF MINES, Charleston, W. Va.

Eastern Associated Coal Corp.

Coal Operator

1701 Koppers Bldg.

Address

Pittsburgh, PA

Coal Owner

Address

Eastern Associated Coal Corp.

Lease or Property Owner

Same as above

Address

Ashland Exploration, Inc.

Name of Well Operator

P. O. Box 391

Complete Address

Ashland, Kentucky 41101

Date

WELL TO BE ABANDONED

Cabin Creek

District

Kanawha

County

Well No. 70

Farm

Inspector Martin Nichols

Telephone

TO BE NOTIFIED 24 HOURS IN ADVANCE OF PLUGGING OPERATIONS

Gentlemen:—

The undersigned well-operator is about to abandon the above described well and will commence

the work of plugging and abandoning said well on the date inspector is notified (which date shall not be less than five days after the day on which this notice so mailed is received, or in due course should be received by the Department of Mines).

This notice is given 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 represented the undersigned will proceed on that date, or shortly thereafter, to plug and fill said well in the manner required by Section 10, Article 4, Chapter 22 of the Code and given in detail on the reverse side of this notice, in "Work Order."

This notice is being mailed by registered mail to each of you at the above addresses on the above date.

Very truly yours,

Raymond A. Preston Well Operator

NOTE: Upon the abandonment of any well drilled prior to June 1, 1929, a plat prepared by a registered engineer, shall be filed with THREE COPIES OF APPLICATION, (OG-9) AND "WORK ORDER" AND TWO COPIES OF THE WELL RECORD, (OG-10). The map must show the district and county in which the tract of land is located, the name and acreage of same, the name or names of the owners and names of adjacent tracts and the location of the well to be abandoned, determined by survey with the courses and distances of such well from two permanent points or landmarks on said tract, in compliance with Rule 5 of the Rules and Regulations.

NOTE: In case plugging is not commenced within four months from the date of permit, same shall expire and be of no further force or effect.

NOTE: PERMIT IS NON TRANSFERABLE.

BLANKET BOND

3627

Permit Number

AFFIDAVIT, FORM OG-8, MANNER WELL PLUGGED MUST BE SUBMITTED TO OBTAIN RELEASE OF WELL UNDER BOND.



PROPOSED MANNER OF PLUGGING AND FILLING WELL

(REQUIRED BY RULES AND REGULATIONS)

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WORK ORDER

Well to be plugged and filled as follows:

Top of stuck 4 1/2" csg. @ 2875'

Shale savings @ 2138'

Well to be plugged as follows:

969-1069	Gel
1069-1938	Cement
1938-2138	Gel
	Cement

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTICE OF INTENTION TO PLUG AND FILL WELL

The undersigned well operator is about to plug and fill the above described well in accordance with the above instructions.

This notice is being filed with the Department of Mines for its information and to advise the public of the proposed work.

To the Department of Mines Coal Owner or Operator, Lease or Property Owner. PLEASE SUBMIT REVISED WELL RECORD WHEN WORK IS COMPLETED.

Gentlemen:

This "work order" is submitted for your approval and concurrence and unless notified of your disapproval or non-concurrence, the undersigned will proceed with the plugging and filling of said well in the above described manner on the date inspector is notified after permit is issued.

Very truly yours, Harry D. Prester, Well Operator

No objections have been filed by the coal owner or coal operator, or any available adjacent lease or property owners or interposed by the Department of Mines to the manner herein described for the plugging and filling of the well above mentioned. Therefore, the same is hereby approved this 8th day of August 1930.

DEPARTMENT OF MINES Oil and Gas Division By: [Signature]

NOTE: This "work order" shall be filed in triplicate, one copy for the files of the Department of Mines; one to be approved or corrected and returned to the well operator as his authority for plugging said well; and one for the well inspector.

RECEIVED DEPT. OF MINES AUG 10 1930



RECEIVED  
JUN 6 - 1984

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
May 4, 1984

COMPANY Ashland Exploration, Inc.  
P. O. Box 391  
Ashland, Kentucky 41101

PERMIT NO. 039-3627-P  
FARM & WELL NO Eastern Gas & Fuel #70  
DIST. & COUNTY Cabin Creek/Kanawha

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to Starting Work	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input type="checkbox"/>	<input type="checkbox"/>
17.02	Method of Plugging	<input type="checkbox"/>	<input type="checkbox"/>
18.01	Materials used in Plugging	<input type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input type="checkbox"/>	<input type="checkbox"/>
17.06	Statutory Affidavit	<input type="checkbox"/>	<input type="checkbox"/>
7.06	Parties Responsible	<input type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Loed. Wilton  
DATE 5/3/84

Your Affidavit of Plugging was received and reclamation requirements approved. The well designated by the above permit number has been released under your bond.

T. H. B.  
Administrator-Oil & Gas Division

June 7, 1984

DATE



RECEIVED  
DEC 17 1980

1.0 API well number: (If not assigned, leave blank; 14 digits.)	47 - 039 - 03627 -				
2.0 Type of Determination being sought: (Use the codes found on the front of this form.)	103	Section of NGPA Category Code			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4006	feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Ashland Exploration, Inc.		000909		
	Name P. O. Box 391		Seller Code		
	Street Ashland, KY		41101		
	City State		Zip Code		
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Paint Creek		Field Name		
	Kanawha		-WV		
	County		State		
(b) For OCS wells:	Area Name		Block Number		
	Date of Lease:		OCS Lease Number		
	Mo. Day Yr.				
(c) Name and identification number of this well: (35 letters and digits maximum.)	Eastern Gas & Fuel #70 - 90151				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)					
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp		004030		
	Name		Buyer Code		
(b) Date of the contract:	033060				
	Mo. Day Yr.				
(c) Estimated total annual production from the well:	25 Million Cubic Feet				
	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	\$/MMBTU	2.329	0.279	0.010	2.618
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	\$/MMBTU	2.329	0.279	0.010	2.618
9.0 Person responsible for this application:	A. R. Garges Administrator of Gas Sales & Supply				
Agency Use Only	Name		Title		
Date Received by Juris. Agency	Signature				
DEC 17 1980	November 21, 1980		(606) 329-4197		
Date Received by FERC	Date Application is Completed		Phone Number		

PARTICIPANTS:

DATE: MAY 7 1981

BUYER-SELLER CODE

WELL OPERATOR: Ashland Exploration, Inc.

000909

FIRST PURCHASER: Columbia Gas Trans. Corp.

004030

OTHER:

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
 90-12-17-103-079-3627  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

Check map 1500  
 Qualifies *J. Huggins*

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- ITEM NO.
1. FERC -121  Items not completed - Line No. \_\_\_\_\_
  2. IV-1 Agent H. H. Griffith
  3. IV-2 Well Permit
  4. IV-6 Well Plat
  5. IV-35 Well Record  Drilling  Deepening
  6. IV-36 Gas-Oil Test: Gas Only  Was Oil Produced?  Ratio \_\_\_\_\_
  7. IV-39 Annual Production \_\_\_\_\_ years
  8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_
  9. IV-48 Application For certification. Complete?
  - 10-17. IV Form 51 - 52 - 53 - ~~54~~ - 55 - 56 - 57 - 58 Complete?  Affidavit Signed
  - 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
  - (1) Date commenced: 9-3-80 Date completed: 9-27-80 Deepened \_\_\_\_\_
  - (2) Production Depth: 3769, 3154, 2607
  - (3) Production Formation: Gordon, Weir, Maxton
  - (4) Final Open Flow: 677 mcf
  - (5) After Frac. R. P. 450# 430# 3 hrs
  - (6) Other Gas Test: \_\_\_\_\_
  - (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
  - (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
  - (8) Line Pressure: \_\_\_\_\_ PSIG from Daily Report: \_\_\_\_\_
  - (5) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_
  - 10-17. Does lease inventory indicate enhanced recovery being done NO
  - 10-17. Is affidavit signed?  Notarized?
  - Does official well record with the Department confirm the submitted information? yes
  - Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
  - Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

TS

Date: December 15, 19 80

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

Operator's Well No. 70-90151  
API Well No. 39 3627  
State West Virginia County Putnam

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL

UGPA Section 102:

DESIGNATED AGENT: HAROLD GRIFFITH  
ADDRESS: P.O. BOX 156  
BRENTON, W.VA. 24818

WELL OPERATOR ASHLAND EXPLORATION, INC.  
ADDRESS P.O. BOX 391  
ASHLAND, KY. 41101

LOCATION: Elevation 2076  
Watershed Toms Branch  
Cabin Creek  
Dist Kanawha Quad Powellton

GAS PURCHASER COLUMBIA GAS TRANSMISSION INC.  
ADDRESS P.O. BOX 1273  
CHARLESTON, W. VA. 25325

Contract No. 6257  
Meter Chart Code NA  
Date of Contract 3-30-1980

Date surface drilling was begun: September 3, 1980

Indicate the bottom hole pressure of the well and explain how this was calculated:

450# Rock Pressure  
Three Hour Test

AFFIDAVIT

I, Paul W. Sturm, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 16, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 16, 1977, and which is capable of producing gas in commercial quantities. I state further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Paul W. Sturm

STATE OF ~~KENTUCKY~~ KENTUCKY  
COUNTY OF Boyd TO WIT:

I, Martha R. Knipp, a Notary Public in and for the state and county aforesaid, do certify that Paul W. Sturm, whose name is signed to the writing above, bearing date the 15th day of December, 1980, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 15th day of December, 1980. My term of office expires on the 31st day of August, 1982.

(NOTARIAL SEAL)

Martha R. Knipp  
Notary Public  
Comm. 8-31-82

**RECEIVED**

JUN 10 1981

1.0 API well number: (If not available, leave blank. 14 digits.)	47-039-03627			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	(c) (4)	Devonian Shale Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	2076 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Ashland Exploration, Inc. P. O. Box 391 Street Ashland City		KY	41101 State Zip Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Paint Creek Field Name Kanawha County			
	(b) For OCS wells: Area Name _____ Block Number _____ Date of Lease: _____ Mo. Day Yr. OCS Lease Number _____			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Eastern Gas & Fuel #70 - 90962			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp. Name		004030 Buyer Code	
(b) Date of the contract:	03 30 1960 Mo. Day Yr.			
(c) Estimated annual production:	43 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.460	0.295	0.010	2.765
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	Deregulated	_____	_____	_____
9.0 Person responsible for this application:	Algn R. Garges Name Title Administrator of Gas Sales & Supply Signature June 10, 1981 Date Application is Completed (606) 329-4197 Phone Number.			
Agency Use Only Date Received by Juris. Agency JUN 10 1981 Date Received by FERC				

PARTICIPANTS:

DATE:

JUL 22 1981

JUL 22 1981

BUYER-SELLER CODE

WELL OPERATOR:

Ashland Exploration, Inc

023608

FIRST PURCHASER:

Columbia Gas Trans. Corp

004630

OTHER:

W. Va. Department of Mines, Oil & Gas Division  
WELL DETERMINATION FILE NUMBER

81-6-10 107.039-3627

Use Above File Number on all Communications  
Relating to Determination of this Well

23%

*Ludlow J. Huggins*

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 1 Items not completed - Line No. 9.0 Deregulated
- 2. IV-1 Agent ✓ H.H. Griffith
- 3. IV-2 Well Permit ✓
- 4. IV-6 Well Plat ✓
- 5. IV-35 Well Record ✓ Drilling ✓ Deepening ✓
- 6. IV-36 Gas-Oil Test: Gas Only ✓ Was Oil Produced? - Ratio -
- 7. IV-39 Annual Production - years
- 8. IV-40 90 day Production - Days off line: -
- 9. IV-48 Application for certification. Complete? ✓
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete? ✓ Affidavit Signed ✓
- 18-28. Other: Survey - Logs - Geological Charts -  
Structure Map - 1: 4000 Map - Well Tabulations -  
Gas Analyses -
- (5) Date commenced: 9-3-80 Date completed 9-27-80 Deepened -
- (5) Production Depth: 13764 3154 2607
- (5) Production Formation: Gordon, West, Maxton
- (5) Final Open Flow: 677 mcf
- (5) After Frac. R. P. 450# 3 hrs.
- (6) Other Gas Test: -
- (7) Avg. Daily Gas from Annual Production: -
- (8) Avg. Daily Gas from 90-day ending w/1-120 days: -
- (8) Line Pressure: - PSIG from Daily Rec: -
- (5) Oil Production: - From Completion Report -
- 0-17. Does lease inventory indicate enhanced recovery being done NO
- 0-17. Is affidavit signed? ✓ Notarized? ✓
- Does official well record with the Department confirm the submitted information? yes
- Additional information - Does computer program confirm? -
- As Determination Objected to - By Whom? -

*5*

Date June 10, 1981

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

Contractor's Well No 70-90962 API Well No 039 3627 STATE COUNTY TOWNSHIP

EASTERN GAS & FUEL #70

WELL CLASSIFICATION FORM: HIGH COST GAS WELL - DEVONIAN SHALE

CGPA Section 1C7

DESIGNATED AGENT: H. H. Griffith ADDRESS: P. O. Box 156 Brenton, WV 24818 WELL OPERATOR: Ashland Exploration, Inc. LOCATION: Elevation 2076 Watercourse: Toms Branch DISTRICT: Toms Branch COUNTY: Kanawha QUAD: Powellto GAS PURCHASER: Columbia Gas Transmission Corp. CONTRACT NO.: 6257 ADDRESS: P. O. Box 1273 Charleston, WV 25325 Meter Chart Code: N/A Date of Contract: 3-30-1960

Date surface drilling began: September 3, 1980

Indicate the bottom hole pressure of the well and explain how this was calculated. SLP = 450 (464.7 psia) Tavg = Vco(85 = 71.4 F) (531.4 R) BHT = 85 F (545 R) 1st BHP = .25 x (SLP / 100) x (3776 / 100) + 464.7 = 508.6 psia MIDPOINT = 3776 Pavg = V(464.7)(545) = 486.2 psia Sp.Gr = .58 (Assumed) Zavg = .939 BHP = Pw e^((.01877 Gx) / (Tavg - 531.4)) = 464.7 e^((.01877 x .58 x 3776) / (531.4 x .939)) = 504.6 psia

AFFIDAVIT

I, John T. Mellinger Jr, having been first sworn according to law, state that, I have calculated the percentage of footage of the producing interval which is not Devonian shale as indicated by a Gamma Ray Index of less than 0.7 if a Gamma Ray log described subparagraph (3)(1) or (3)(1)(A) has been filed, or as indicated by the report described in subparagraph (3)(1)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

Signature of John T. Mellinger Jr

STATE OF KENTUCKY COUNTY OF BOYD TO WIT:

I, Martha R. Knipp, a Notary Public in and for the state and county aforesaid, do certify that John T. Mellinger Jr whose name is signed to the writing above, bearing date the 10th day of June, 1981, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 10th day of June, 1981. My term of office expires on the 31st day of August, 1982.

Signature of Martha R. Knipp, Notary Public

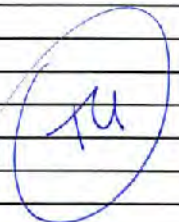
[NOTARIAL SEAL]

1) Date: April 5, 2018  
2) Operator's Well Number  
090961 Eastern Gas and Fuels 70  
3) API Well No.: 47 039 - 03627  
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

47 03 9 03 6 2 7

4) Surface Owner(s) to be served:  
(a) Name Quercus West Virginia LLC  
Address 19045 Stone Mountain Rd.  
Abingdon WV 24210  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Terry Urban  
Address PO Box 1207  
Clendenin WV 25045  
Telephone 304-549-5915

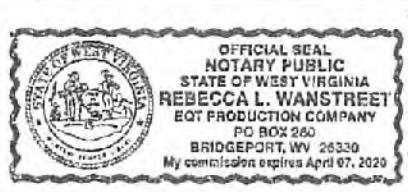


5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
  
(b) Coal Owner(s) with Declaration  
Name Pardee Minerals LLC  
135 corporate Dr.  
Address Suite 510  
Scott Depot WV 25560  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator: EQT Production Company  
By: Erin Spine  
Its: Regional Land Supervisor  
Address: 2200 Energy Drive  
Canonsburg PA 15317  
Telephone: (304) 848-0035

Subscribed and sworn before me this 18 day of April, 2018  
Rebecca L. Wanstreet Notary Public  
My Commission Expires: 4-7-2020

2) Operator's Well Number

090961 Eastern Gas and Fuels 70

3) API Well No.: Wes039 - 03627

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

4703903627

Operator Name: EQT PRODUCTION COMPANY OP CODE: \_\_\_\_\_

Watershed (HUC 10): Toms Branch of Paint Creek Quadrangle: Powellton

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: FW 42318

Will a synthetic liner be used in the pit? Yes X No \_\_\_ Is 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 \_\_\_\_\_)
  - 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 :  
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 Erin Spine

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 18 day of April, 2018

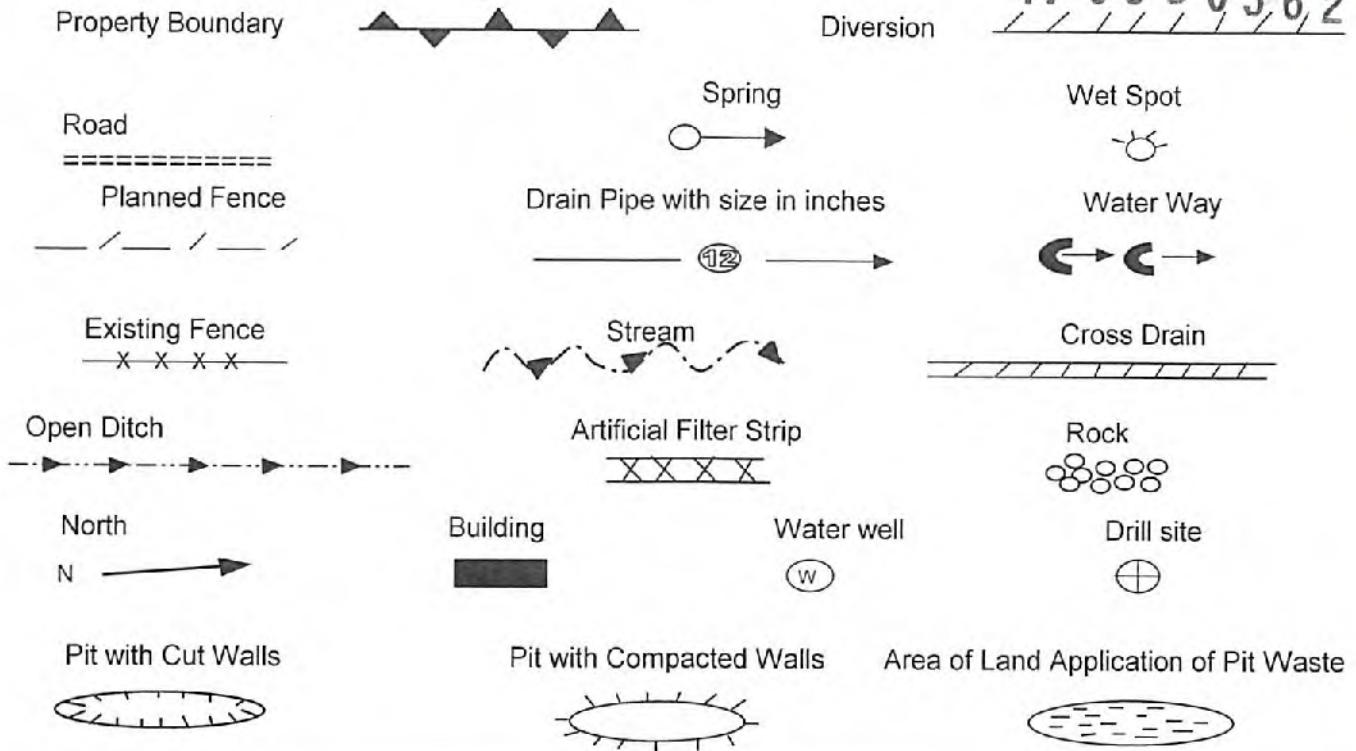
Rebecca L. Wanstreet  
My Commission Expires 4-7-2020





4703 0036, 274

**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		

RECEIVED  
Office of Oil and Gas

**ATTACH:**

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

Plan approved by: [Signature]

Comments: \_\_\_\_\_

Title: Insp. Site Gas Date: 4-23-18  
 Field Reviewed? Yes  Yes  No

APR 23 2018

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

47 03 9 03 6 27

**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

APR 23 2018

WV Department of  
Environmental Protection

Topo Quad: Powellton 7.5'

Scale: 1" = 200'

County: Kanawha

Date: December 14, 2017

District: Cabin Creek

Project No: 52-14-00-07

47 03 9 03 6 2 7 P

**47-039-03627 WV 090961 (Eastern Gas & Fuel #7)**

Topo

**Pit Location Map**




Existing Well  
Access Road

47-039-03627  
WV 090961

**NAD 27, South Zone**  
N:389119.26  
E:1895716.00

**WGS 84**  
LAT:38.068189  
LONG:-81.362077  
ELEV:2074.79

**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**

P.O. Box 280  
Bridgeport, WV 26330

RECEIVED

Office of Oil and Gas

APR 9 3 2018

WV Department of  
Environmental Protection

Topo Quad: Powellton 7.5'

Scale: 1" = 500'

County: Kanawha

Date: December 14, 2017

District: Cabin Creek

Project No: 52-14-00-07

47 039 0362 7P

Highway

**47-039-03627 WV 090961 (Eastern Gas & Fuel #70)**

**Pit Location Map**




47-039-03627  
WV 090961

Existing Well  
Access Road



**LEGEND**

 Proposed Pit Location

**NAD 27, South Zone**  
N:389119.26  
E:1895716.00

**WGS 84**  
LAT:38.068189  
LONG:-81.362077  
ELEV:2074.79



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

RECEIVED

Office of Oil and Gas

APR 23 2018

WV Department of  
Environmental Protection

Topo Quad: Powellton 7.5'

Scale: 1" = 2000'

County: Kanawha

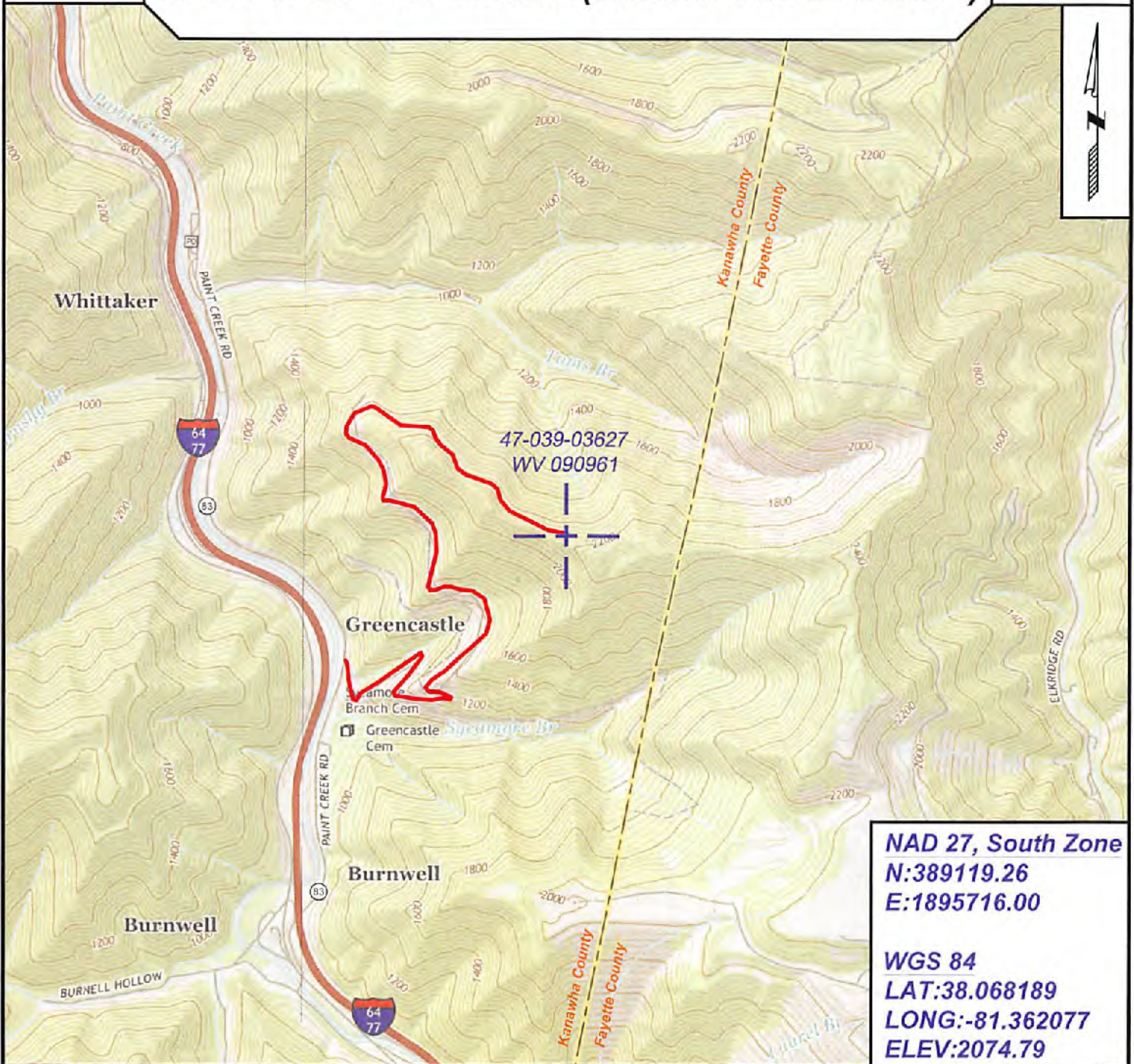
Date: December 14, 2017

District: Cabin Creek

Project No: 52-14-00-07 **47 03 9 03 6 2 7 P**

# 47-039-03627 WV 090961 (Eastern Gas & Fuel #70)

Topo



**NAD 27, South Zone**  
**N:389119.26**  
**E:1895716.00**

**WGS 84**  
**LAT:38.068189**  
**LONG:-81.362077**  
**ELEV:2074.79**



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**  
 RECEIVED  
 Office of Oil and Gas  
 P.O. Box 280  
 Bridgeport, WV 26330  
 APR 20 2018

WV Department of  
 Environmental Protection



47 03 9 036 27P

## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Eastern Gas & Fuel - WV 090961 - API No. 47-039-03627

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water sources within the required 1000 feet of the existing well WV 090961.

RECEIVED  
Office of Oil and Gas

APR 23 2018

WV Department of  
Environmental Protection

**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: Powellton 7.5'

Scale: 1" = 2000'

County: Kanawha

Date: December 14, 2017

District: Cabin Creek

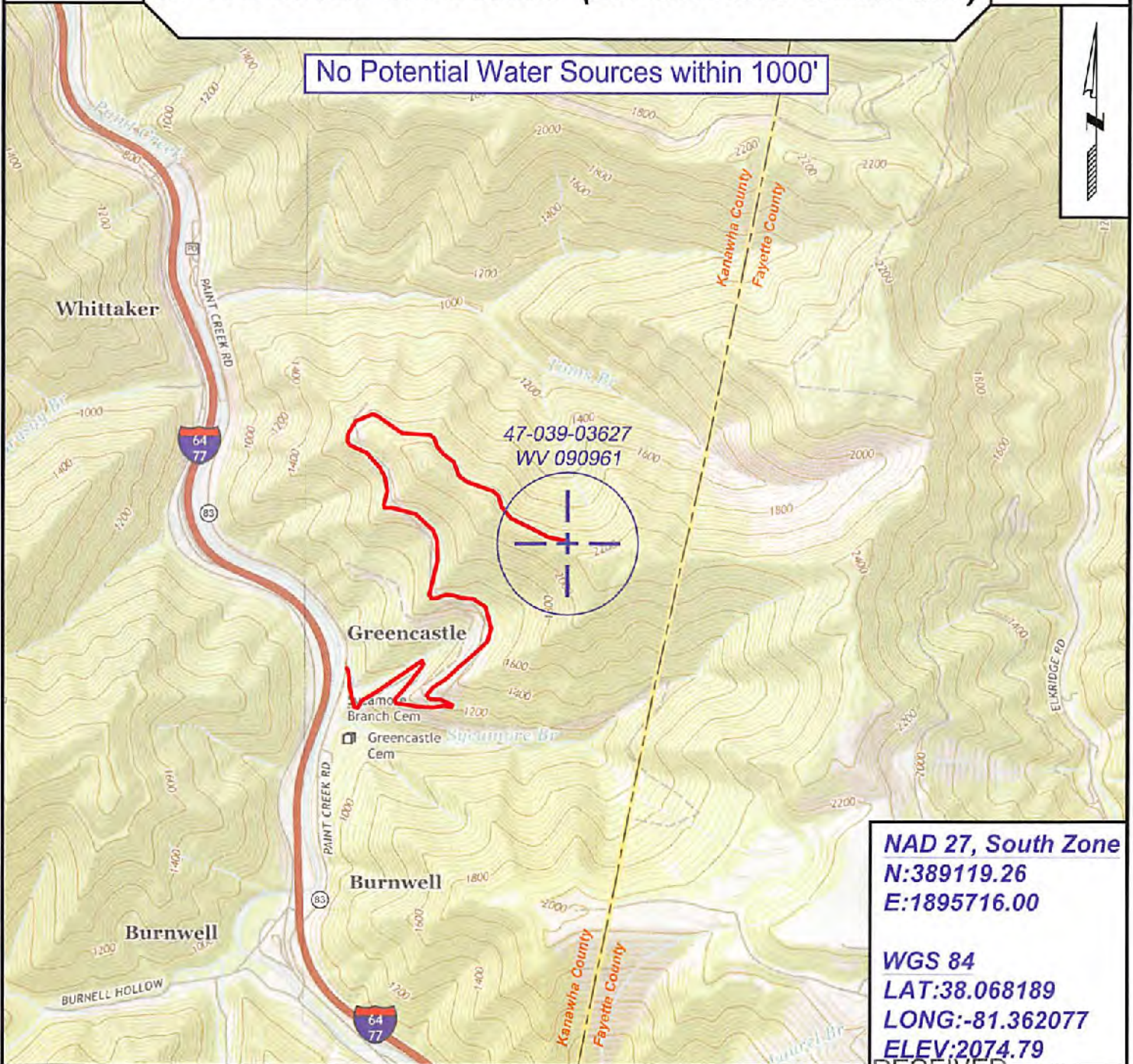
Project No: 52-14-00-07

47 039 0362 7P

Water

# 47-039-03627 WV 090961 (Eastern Gas & Fuel #70)

No Potential Water Sources within 1000'



**NAD 27, South Zone**  
N:389119.26  
E:1895716.00

**WGS 84**  
LAT:38.068189  
LONG:-81.362077  
ELEV:2074.79



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 26330

RECEIVED  
APR 3 2018  
WV Department of  
Environmental Protection

**EQT PRODUCTION**  
Well: EASTERN GAS & FUEL # 70  
Well#: 090961  
API: 47-039-03627  
In Emergency, Please Call  
**1-800-926-1759**





WW-7  
8-30-06



47 039 03627P

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

API: 47-039-03627 WELL NO.: WV 090961 (Eastern Gas & Fuel #70)

FARM NAME: Eastern Gas & Fuel

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Kanawha DISTRICT: Cabin Creek

QUADRANGLE: Powellton 7.5'

SURFACE OWNER: Quercus West Virginia LLC

ROYALTY OWNER: Pardee Minerals LLC

UTM GPS NORTHING: 4213443

UTM GPS EASTING: 468240 GPS ELEVATION: 632m (2075ft)

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
 Real-Time Differential \_\_\_\_\_  
 Mapping Grade GPS X : Post Processed Differential X  
 Real-Time Differential \_\_\_\_\_

- 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]  
Signature

PS # 2180  
Title

12/29/17  
Date

RECEIVED  
Office of Oil and Gas  
APR 23 2018  
WV Department of  
Environmental Protection