

*2.825
0.37W*

- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION UJGJ BM 605' EAST SIDE POCA RIVER

APPALACHIAN EXPLORATION & DEV. INC.
Company
Address BOX 628, CHARLESTON, W.VA.
Farm C.E. ALBERTSON
Pt. of 1000 Unit
Tract _____ Acres (35) Lease No. _____
Well (Farm) No. 1 Serial No. _____
Elevation (Spirit Level) 622.90
Quadrangle JT. ALBANS *NE*
County PUTNAM District POCATALICO
Engineer Charles W. Stinson
Engineer's Registration No. 915
File No. _____ Drawing No. _____
Date OCT. 9, 1967 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. PUT-735

- + Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD 2

Quadrangle Charleston
Permit No. Put-735-^WTrac

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

Company Appalachian Exploration & Dev., Inc.
Address P.O. Box 628, Charleston, W. Va. 25322
Farm C.E. Albertson Acres 1,000
Location (waters) Poca River
Well No. 1 Elev. 6229'
District Pocatalico County Putnam
The surface of tract is owned in fee by R.A. Smith,
etal
Address Winfield, W. Va.
Mineral rights are owned by Mrs. E.R. Albertson et al
Address 3665 Epsworth Avenue
Cincinnati, Ohio
~~Workover~~ Workover 1/15/74
~~Drilling~~ Completed 1/25/74
Initial open flow 401,000 cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open 6 hrs. before test 1060# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"	110	110	120 sks
9 5/8	1742	1742	133 sks
8 5/8			
5 1/2	5295	5295	150 sks
4 1/2			
3			
1-1/2"	4723	4723	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Oriskany- Fract with 1000 gals. acid, 20,000 lbs. 20/40 sand and 600 bbls gelled water.
Average pressure 4644 at 22 BPM. Instant shut-in 3900 psig.

New production from Fract Oriskany; old production from Newburg.

Coal was encountered at _____ Feet _____ Inches
Fresh water 40'-107' Feet _____ Salt Water _____ Feet _____
Producing Sand Newburg - Oriskany Depth 5331' to 5339' - 4604'-4625'
Newburg Oriskany

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	40	Water	
Sand			40	107	Water	
Sand and shale			107	518		
Sand			518	762		
Shale			762	808		
Sand and shale			808	1060		
Sand			1060	1114		
Salt sand			1114	1485		
Lime			1485	1627		
Lime and shale			1627	1676		
Sand			1676	1742		
Shale			1742	2107		
Sand and shale			2107	2230	Berea (no shows)	
Shale			2230	4509		
Lime			4509	4597		
Sand - Oriskany			4597	4618	Gas	

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(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Lime dolomite and anhydrite			4618	5331	Sour gas	
Sand - <i>Newburg</i>			5331	5339	<u>Gas</u>	
Dolomite and anhydrite <i>mk</i>			5339	5357		
Casing Record						
13-3/8" cemented with 120 sacks, November			3, 1967			
9-5/8" cemented with 133 sacks, November			5, 1967			
5-1/2" cemented with 150 sacks, November			13, 1967			

Date March 5 19 74

APPROVED *J. M. [Signature]* Owner

By District Production Superintendent
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston
Permit No. Put-735

WELL RECORD

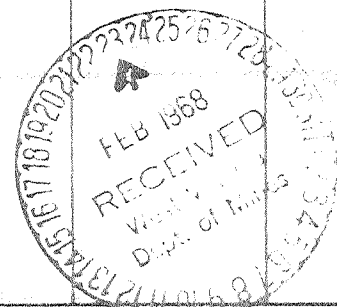
Oil or Gas Well Gas
(KIND)

Company Appalachian Exploration & Development, Inc.
Address P. O. Box 628, Charleston, W. Va.
Farm G.E. Albertson Acrea 1,000
Location (waters) Pocatalico River
Well No. 1 Elev. 622.90
District Poca County Putnam
The surface of tract is owned in fee by Roy A. Smith, et al
Address Winfield, W. Va.
Mineral rights are owned by Mrs. E.R. Albertson, et al
Address 3665 Epworth Ave., Cincinnati, Ohio
Drilling commenced November 3, 1967
Drilling completed January 27, 1968
Date Shot Not From To
With
Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
Volume 460 M Cu. Ft.
Rock Pressure Not measured lbs. hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) Fractured Newburg with 445 barrels of Kerosene, 10,000 pounds of sand
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1 MMcf per day 1,000 MCF
ROCK PRESSURE AFTER TREATMENT 1342 HOURS 48
Fresh Water 40' - 107' Feet Salt Water Feet
Producing Sand Newburg Depth 5331-5339

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>None</u>
16			
13-3/8	110	110	
9-5/8	1742	1742	Size of <u> </u>
8 1/4			
6 3/4			Depth set <u> </u>
5 1/2	5295	5295	
4 1/2			
3			Perf. top <u> </u>
2			Perf. bottom <u> </u>
Liners Used <u> </u>			Perf. top <u> </u>
			Perf. bottom <u> </u>

Attach copy of cementing record. See Back of Report.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT None FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale			0	40	Water	40	
Sand			40	107	Water	107	
Sand & Shale			107	518			
Sand			518	762			
Shale			762	808			
Sand & Shale			808	1060			
Sand			1060	1114			
Salt sand			1114	1485			
Lime <u>Big Lime</u>			1485	1627			
Lime & Shale			1627	1676			
Sand			1676	1742			
Shale			1742	2107			
Sand & Shale			2107	2230			
						2111-2121	Berea (no shows)
						(Log depth)	
Shale			2230	4509			
Lime <u>Onondaga</u>			4509	4597			Onondaga
Sand <u>Oriskany</u>			4597	4629	Gas	4606' 4603'-4624'	Oriskany-315 Mcf per day



(over)

Formation	Color	Hard or Soft	Top γ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime dolomite and anhydrite			4629	5330	Sour gas	4830'	
Sand <i>Newburg</i>			5330	5339	Gas	5334'	Newburg-462 Mcf
Dolomite & anhydrite <i>McKenzie</i>			5339	5357			T.D.
Casing Records:							
13-3/8" cemented with 120 sacks, November 3, 1967							
9-5/8" cemented with 133 sacks, November 8, 1967							
5-1/2" cemented with 150 sacks, November 13, 1967							

Date _____, 19____

APPROVED _____, Owner

By _____ (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JAN 14 1974

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Ray A. Smith, et al
Address Winfield, W. Va.
Mineral Owner Mrs. E.R. Albertson, et al
Address 3665 Epsworth Avenue
Cincinnati, Ohio
Coal Owner Same as above
Address _____
Coal Operator None
Address _____

DATE January 14, 1974
Company Appalachian Exploration & Development, Inc.
Address Box 628, Charleston, W. Va. 25322
Farm C.E. Albertson Acres 1,000
Location (waters) Poca River
Well No. 1 Elevation 622.9'
District Pocatalico County Putnam
Quadrangle St. Albans

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for fracturing. This permit shall expire if operations have not commenced by 5-14-74.

Robert H. Love

Deputy Director - Oil & Gas Division

GENTLEMEN:

INSPECTOR TO BE NOTIFIED Kenneth Butcher
RFD # 1 PH: 736-4885
Barboursville, WV.

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated September 1 19 65 by C.E. Albertson made to Cabot Corporation and recorded on the 6th day of October 1965, in Putnam County, Book 52 Page 315

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,
APPALACHIAN EXPLORATION & DEVELOPMENT, INC.
(Sign Name) *W. Albertson*
Well Operator

PLEASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Martinsburg, W. Va. 26505
Tel. 304-296-4461

Address
of
Well Operator

Box 628 Street
Charleston City or Town
West Virginia 25322 State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET P. 47

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME J.B. McPeters
 ADDRESS _____ ADDRESS Box 628, Charleston, W. Va. 25322
 TELEPHONE _____ TELEPHONE 344-8355
 ESTIMATED DEPTH OF COMPLETED WELL: 5357' ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany (4597-4612')
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title