



00918

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company APPALACHIAN EXPL. & DEV., INC.
 Address CHARLESTON, W. VA.
 Farm SHONK LAND COMPANY
 Tract _____ Acres 16,000 Lease No. _____
 Well (Farm) No. 30 Serial No. _____
 Elevation (Spirit Level) 1463'
 Quadrangle PEYTONA SE
 County BOONE District SHERMAN
 Engineer CHET WATERMAN
 Engineer's Registration No. 8788
 File No. 73003-129 Drawing No. _____
 Date 4/3/73 Scale 1" = 2000'

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

WELL LOCATION MAP
 FILE NO. Box-1042

+ 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

Quadrangle Peytona
Permit No. Boo-1042

Rotary Oil
Cable _____ Gas No. 1
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company <u>Appalachian Exploration & Development, Inc.</u> Address <u>Box 628, Charleston, W. Va.</u>	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Farm <u>Shonk Land Company</u> Acres <u>16,000</u>			
Location (waters) <u>Spruce fork of White Oak Creek</u>			
Well No. <u>#30</u> Elev. <u>1463'</u>	Size 20-16		
District <u>Sherman</u> County <u>Boone</u>	Cond.		
The surface of tract is owned in fee by _____	<u>13 3/8</u>	<u>72 KB</u>	<u>72KB</u>
<u>Shonk Land Company</u>	<u>9 5/8</u>	<u>1953</u>	<u>1953</u>
Attn: <u>Mr. J.E. Stevens</u>	<u>8 5/8</u>		
Address <u>Box 4047, Charleston, W. Va.</u>	<u>7</u>		
Mineral rights are owned by <u>same as above</u>	<u>5 1/2</u>		
Address _____	<u>4 1/2</u>	<u>3138</u>	<u>3138</u>
Drilling Commenced <u>6/12/73</u>	<u>3</u>		<u>4-1/2" packer sho</u>
Drilling Completed <u>6/27/73</u>	<u>2</u>		<u>@ 3138'</u>
Initial open flow _____ cu. ft. _____ bbls.	Liners Used		
Final production <u>1,930</u> cu. ft. per day _____ bbls.			
Well open <u>96</u> hrs. before test <u>750</u> RP.			

Well treatment details: Attach copy of cementing record.
Perforated Weir 2842-48' (6 holes) 2882-88' (6 holes) 2902-07' (5 holes) 2952-57' (5 holes)
Fraced Weir with 500 gallons acid, 1000 bbls. gelled water, 30,000#
20/40 sand and 30,000# 10/20 sand. Breakdown 2000 psi; maximum 2200 psi,
average 1927 psi.

Coal was encountered at none logged feet _____ Inches _____
 Fresh water 164' feet _____ Salt Water 1360' feet _____
 Producing Sand Weir Depth 2842-2957

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	92		
Sand and shale			92	164		
Sand and shale			164	277		
Shaly sand and sand			277	485		
Shale and shaly sand			485	687		
Sand and shale			687	956		
Shale and sand			956	1107		
Sand			1107	1237		
Sand			1237	1260		
Sand			1260	1359		
Salt sand			1359	1452		
Salt sand			1452	1513		
Salt sand			1513	1598		
Salt sand			1598	1660		
Sand			1660	1755		
Sand			1755	1814		
Sand			1814	1875		
Sand			1875	1958		
Sand			1958	1969		
Sand and shale			1969	2315		
Sand <u>maxon</u>			2315	2492		
Big lime and shale			2492	2702		
Sand-shale <u>weir</u>			2702	2905		

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DEPT. OF MINES

* Indicates Electric Log tops in the remarks section.

(over)

SEP 17 1973

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and shale			2905	3208		* - Log Tops
Sand and shale			3208	3635		
Sand and shale			3635	4032	Big Lime	2466-2718
Sand and shale			4032	4438	Weir	2810-3034
Sand and shale			4438	4731	Berea	3226-3250
Sand-shale			4731	4874	Onondaga	6074-6175
Shale and sand			4874	5216	Oriskany	6175-6210
Shale			5216	6087	Newburg	6816-6838
Lime and sand			6087	6546	Lime - McKenzie	6838-6885' T.D.
Sand and shale			6546	** 6885 T.D.		

545

** - Corrected T.D. from that shown on original OG-10.

6842
 3248

 3594 expl. ft.

Cement Record

Size	Company	No. of sacks
13-3/8"	Howco	25 Common 1 CaCl ₂
9-5/8"	Howco	320 Lite-poz - 1/4 lb. flocele per sack 150 Class "A" - 2% CaCl ₂
4-1/2"	Howco	120 Thixotropic
Cement plug	6770-6842	
Heavy mud	6770-3000'	

Date 6/10, 1973

APPROVED _____, Owner
 By J. M. R. T.
 (Title) Prof. Supt.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Shonk Land Company
Attn: Mr. J.E. Stevens
Address Box 4047, Charleston, W.Va.
Mineral Owner Same as above
Address _____
Coal Owner Same as above
Address _____
Coal Operator Bethlehem Mines
Attn: Mr. Roland Powell
Address 5216 McCorkle Avenue, S.E.
Charleston, West Virginia

DATE April 12, 1973
Company Appalachian Exploration & Development, Inc.
Address Box 628, Charleston, W.Va. 25322
Farm Shonk Land Co. Acres 16,000
Location (waters) White Oak Creek
Well No. 30 Elevation 1463'
District Sherman County Boone
Quadrangle Peytona

INSPECTOR TO BE NOTIFIED Mr. Kenneth Butcher
R.F.D. #1 PH: 736-4885
Barboursville
W.Va. 25504

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 drilling. This permit shall expire if
operations have not commenced by 8/17/73.
Robert L. Fodd
Deputy Director - Oil & Gas Division

GENTLEMEN:

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 April 28, 1939 by Donald C. Shonk made to Godfrey L. Cabot and recorded on the 25th day of May 1939, in Boone County, Book 14 Page 173
 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) [Signature] Well Operator
P.O. Box 628 Street
Charleston, City or Town
West Virginia 25322 State

Address
of
Well Operator

*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 BOND

Boo-1042 PERMIT NUMBER
[Signature]

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

PROPOSED WORK ORDER TO X ~~DRILL~~ DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Unknown _____ NAME J.B. McPeters _____
 ADDRESS _____ ADDRESS Box 628, Charleston, W.Va. 25322 _____
 TELEPHONE _____ TELEPHONE 344-8355 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 6565' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Newburg _____
 TYPE OF WELL: OIL _____ GAS X 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 xxx	30'	30'	Cement to surface
9 - 5/8	1800'	1800'	300 sks - circulate
8 - 5/8			
7	6350'	6350'	50 sks - 200' fill
5 1/2			
4 1/2			
3			Perf. Top
2	6350'	6350'	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS -- FEET SALT WATER 1700 FEET
 APPROXIMATE COAL DEPTHS 778'
 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