



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

Source of Elevation ELEVATION AT $\frac{1}{4}$ MI SE (985)

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.

Minimum accuracy, one part in 200

Company APPALACHIAN ENERGY INC. dba LDR
 Address PITTSBURGH, PA.
 Farm THOS. E. HARBERT, ARLIE & GLENDA SPRY
 Tract Acres 60 Lease No. 1387
 Well (Farm) No. B-1158 Serial No. A-E-18
 Elevation (Spirit Level) 1061 C
 Quadrangle WALLACE 7 1/2, CLARKBURG 15'
 County HARRISON District EAGLE
 Engineer Walter P. Kuper
 Engineer's Registration No. 7410
 File No. _____ Drawing No. 21
 Date 4-26-78 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. HAR-1919

+ 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.

47-033 SEP 1 1978



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle WALLACE

Permit No. HAR-1919

47-033

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

Company Appalachian Energy, Inc. d/b/a LDR
Address 728 Washington Rd. Pgh, PA 15228

Farm Thomas E. Harbert #1 Acres 60

Location (waters) Jones Creek

Well No. A-E-18 Elev. 1061'

District Eagle County Harrison

The surface of tract is owned in fee by Archie & Glenda Spry

Address Rt. #1, Box 113, Lumberport, WV 26386

Mineral rights are owned by Jesse I. Taylor,

Agent Address Box 114, Lumberport WV 26386

Drilling Commenced September 2, 1978

Drilling Completed September 8, 1978

Initial open flow 270 cu. ft. -- bbls.

Final production 1750 Mcu. ft. per day -- bbls.

Well open 72 hrs. before test 1375# RP.

Well treatment details:

Attach copy of cementing record.

Stimulation Record:

Interval Perforated:	FROM	TO	AMT. FLUID	AMT. SAND
DATE: <u>9-29-78</u>				
<u>Benson</u>	<u>4365</u>	<u>4377</u>	<u>536 BBLs.</u>	<u>45,000#</u>
	<u>3713</u>	<u>3808</u>	<u>432 BBLs.</u>	<u>30,000#</u>
	<u>3166</u>	<u>3219</u>	<u>667 BBLs.</u>	<u>60,000#</u>

Coal was encountered at 320, 696, 770 Feet _____ Inches
Fresh water 70 Feet _____ Salt Water _____ Feet
Producing Sand Benson-Sheffield, Balltown Depth 4375' - 3725' - 3212'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Dirt Fill			0	9		
Shale			9	30		
Sand			30	70		
Sandy Shale			70	185		Water @ 70'
Sand			185	250		
Sandy Shale			250	300		
Sand			300	315		
Shale			315	320		
Coal			320	322		
Sandy Shale			322	375		
Sand			375	425		
Sandy Shale			425	645		
Sand			645	696		
Coal			696	700		
Sand			700	735		
Sandy Shale			735	767		
Coal			767	770		
Sand			770	1045		
Red Rock & Shale			1045	1240		
Little Lime			1240	1255		
Shale			1255	1265		
Big Lime			1265	1305		

(over)

Indicates Electric Log tops in the remarks section.

FEB 9 1979

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1305	1405		
Sandy Shale			1405	1520		
Sand			1520	1560		
Sandy Shale			1560	1635		
Sand			1635	1675		
Sandy Shale			1675	1855		
Sand			1855	1925		
Sandy Shale			1925	1960		
Sand			1960	2015		
Sand & Shale			2015	2235		
Shale			2235	2360		
Sandy Shale			2360	2855	Gas @ 2730'	
Sand			2855	2900		
Sandy Shale			2900	4360	Gas @ 3075' & 4315'	
<u>Benson</u>			4360	4385		
Sandy Shale			4385	4500		
Drillers' T. D.				4500		

Date Jan 15 1974

APPROVED Donald R. Laughlin Owner

By President
(Title)



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.

DATE August 1, 1978

Surface Owner Archie and Glenda Spry
Address Rt. 1, Box 113, Lumberport, WV 26386
Mineral Owner Jesse I. Taylor, Agent
Address Box 144, Lumberport, WV 26386
Coal Owner Michael Coal Co.
Address Box 267, Clarksburg, WV 26301
Coal Operator _____
Address _____

Company Appalachian Energy, Inc. d/b/a L.D.R.
Address 728 Washington Rd, Pittsburgh, PA 15228
Farm Thos. E. Harbert Acres 60
Location (waters) Jones Creek
Well No. A-E-18 (B-1158) Elevation 1061'
District Eagle County Harrison
Quadrangle Wallace

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

INSPECTOR

for drilling. This permit shall expire if TO BE NOTIFIED Paul Garrett

operations have not commenced by 12-15-78 ADDRESS Clarksburg, WV 26301

PHONE (304) 622-3871

Robert H. Dodd
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 14, 1918 by T. E. Harbert, et ux made to South Penn Oil Co. (Consol) and recorded on the 28th day of June, 1918 in Harrison County, Book 105 Page 170

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 this 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,

(Sign Name) Donald B. Laughlin
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

728 Washington Road
Street
Pittsburgh
City or Town
Pennsylvania 15228
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 BOND

HAR-1919 PERMIT NUMBER

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 S. W. Jack Drilling Company NAME Mr. Alvin Sorcan
 ADDRESS P. O. Box 697, Indiana, PA 15701 ADDRESS Rt. 4 - Box 444, Buckhannon, WV 26201
 TELEPHONE (412) 463-9191 TELEPHONE (304) 472-0007
 ESTIMATED DEPTH OF COMPLETED WELL: 4575' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Benson
 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 - 10 11 3/4"	30'		
9 - 5/8			
8 - 5/8	1000	1000	250
7			
5 1/2			
4 1/2	4575	4575	250
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET _____ SALT WATER 700 FEET _____
 APPROXIMATE COAL DEPTHS 220 _____
 IS COAL BEING MINED IN THE AREA? _____ 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