



ACCURACY: 1P/200P

Source of Elevation MT. ZION CHURCH (1033')

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

Chet Waterman

Company DELAWARE VALLEY OIL & GAS ASSOC.
 Address TRENTON, N.J.
 Farm A. F. MULLENAX
 Tract _____ Acres 50 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1026'
 Quadrangle HOLBROOK C
 County RITCHIE District UNION
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 76003-407 Drawing No. _____
 Date 10/1/76 Scale 1" = 40P

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

WELL LOCATION MAP
 FILE NO. RIT-3670

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.

47-085

16-6 IRELAND PROPERTY



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Holbrook

Permit No. Rit.*3670

Company Delaware Valley Oil & Gas Associates

Address P.O. Box 5003 Trenton N.J. 08638

Farm A.F.Mullenax Acres 50

Location (waters) Adds Run

Well No. 1- Secteion one Elev. 1026

District Union County Ritchie

The surface of tract is owned in fee by _____

A. F. Mullenax Heirs Ira. Lamm

Address Belmont West Va.

Mineral rights are owned by A. F. Mullenax Heirs

Address Ira Lamm Agent Belmont W. Va.

Drilling Commenced November 2nd 1976

Drilling Completed November 30th 1976

Initial open flow Show cu. ft. Show bbls.

Final production 150 M cu. ft. per day 7 bbls.

Well open none hrs. before test 850 RP.

Well treatment details:

Attach copy of cementing record.

Well Fractured with 1900 hundred bbls. water 60,000 sand 500 gals. acid

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16	20'	0	90Sks To Surface
Cond. 13-10"	246'	246'	
9 5/8			150Sks 600 hundred ft, fill up
8 5/8	1068	0	
7			
5 1/2			
4 1/2		2349'	
3			
2		2345'	
Liners Used			

Coal was encountered at None Feet _____ Inches _____
Fresh water 125 Feet _____ Salt Water _____ Feet _____
Producing Sand Weir Depth 2270' to 2330'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay	Rd.	X	0	20'		
Red Rock	Rd	X	20'	75'		
Slate	bk.	X	75'	160'		
Red Rock	Rd.	X	160'	246'		
Slate	Bk.	X	246'	300'		
Red Rock	Rd.	X	300'	360'		
Slate Shells	Gy.	X	360'	440'		
Lime	Gy.	X	440'	470'		
Slate	Bk.	X	470'	540'		
Red Rock	Rd.	X	540'	660'		
Black Shale	Bk.	X	660'	690'		
Lime	Gy,	X	690'	710'		
Red Rock	Rd.	X	710'	835'		
Lime	Gy.	X	835'	845'		
Red Rock	Rd.	X	845'	875'		
Black Shale	Bk.	X	875'	920'		
Sand	Wh.	X	920'	940'		
Red Rock	Rd.	X	940'	1060'		
Black Slate	Bk.	X	1060'	1160'		
Sand	Wh.	X	1160'	1255'		
Slate	Bk.	X	1255'	1315'		
Sand	Wh.	X	1215'	1490'		
Black Slate	Bk.	X	1490'	1580'		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand	Wh.	X	1580'	1610'		
Black Slate	Bk.	X	1610'	1690'		
Sand	Wh.	X	1690'	1760'		
Slate	Bk.	X	1760'	1770'		
Sand	Wh.	X	1770'	1860'	Gas	1810' to 1815'
Slate	Bk.	X	1860'	1865'		
Big Lime	Gy.	X	1865'	1963'		
Sand B. Ingun	Wh.	X	1963'	2015'	Show Oil & Gas	1964' to 2000'
Slate	Bk.	X	2015'	2280'		
<u>Sand</u> <i>WEIR</i>	Wh.	X	2280'	<u>2330'</u>	* Show Oil & Gas	2286' to 2302'
Slate	Bk.	X	2330'	2350'	T.D.	

Date Jan 31st, 19 77

APPROVED C. E. Curney, Owner

By Sen Partner
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 12 1976

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 October 4th 1976

Surface Owner A.F. Mullenax Heirs

Company Delaware Valley Oil & Gas Associates

Address Ira Lamm Agent Belount West Va.

Address Trenton New Jersey P.O. Box 5003 08638

Mineral Owner A.F. Mullenax Heirs

Farm A.F. Mullenax Heirs Acres 25.50

Address Ira Lamm Belmont West Va.

Location (waters) Adds Run

Coal Owner _____

Well No. 2 Section One (1) Elevation 1033-1026

Address _____

District Union County Ritchie

Coal Operator _____

Quadrangle Holbrock

Address _____

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 2-28-77.

Robert H. Good
Deputy Director - Oil & Gas Division
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Paul Goodnight
PH: 477-2455 ADDRESS Smithville, W. Va.

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 Oct. 1st 1976 by Joemar Oil & Gas Associates made to Delaware Valley Oil & Gas Asso and recorded on the 1st day of October 1976, in Ritchie County, Book 121 Page 753

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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505

Very truly yours,
(Sign Name) Delaware Oil & Gas Associates
Well Operator
Post Office Box 5003 Trenton N.J. 08638
Street
E. C. Cuneo Jr. Gen Partner
City or Town Pullman W. Va. 26421
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.

RIT-3670

PERMIT NUMBER

47-085

Survey

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 H.H.Elder & Son NAME E.C.Currey Jr.
 ADDRESS Cario West Va. 26337 ADDRESS Pullman West Va. 26421
 TELEPHONE 304-628-3750 TELEPHONE Telephone 304-659-2823
 ESTIMATED DEPTH OF COMPLETED WELL: 2400 ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: Weir
 TYPE OF WELL: OIL _____ GAS _____ COMB. X 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	20'	None	
13 - 10	250 to 300	250 to 300	Top Surface
9 - 5/8	1150	none	
8 - 5/8			
7			
5 1/2			
4 1/2	2400	2400	80 Bags Approx.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS Surface 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