



(15') 81° 45'  
Longitude 81° 47' 30"

12,900'

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure One Part in 200  
 Source of Elevation Road Forks 2000' N. north of well Loc.  
EI. 999.0'  
 "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."

Company DEVON CORP.  
 Address PO BOX 1433 CHARLESTON W.V.  
RAY HAUGHT  
 Farm WILLIAM HAUGHT, HRS.  
 Tract \_\_\_\_\_ Acres 105.5 Lease No. 2238  
 Well (Farm) No. 1 Serial No. 890  
 Elevation (Spirit Level): 901.0' NE  
 Quadrangle ELMWOOD 7.5; WINFIELD 15'  
 County MASON District UNION  
 Surveyor C. J. Yelley Jr.  
 Engineer's Registration No. LS. 92  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 2-19-79 Scale 1" = 500'

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

WELL LOGATION MAP  
 FILE NO. 47-053-0174

ON JAC. CO. BORDER.

+ 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.

MAR 15 1979

Deep Well 5000' Oriskany 6-b Rock Castle (346)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD "

Quadrangle Elmwood  
Permit No. 47-053-0174

Rotary XXX Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas XXX  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company DEVON CORPORATION  
Address PO Box 1433, Charleston, WV  
Farm William Haught, Hrs Acres 106  
Location (waters) Sapsucker Run  
Well No. 890 Elev. 901  
District Union County Mason  
The surface of tract is owned in fee by \_\_\_\_\_  
Ray Haught, et al  
Address 1909 Dunbar St., Dunbar, WV  
Mineral rights are owned by Same as above  
Address \_\_\_\_\_  
Drilling Commenced July 31, 1979  
Drilling Completed August 11, 1979  
Initial open flow 40 MCFD ~~xxx~~ ft. \_\_\_\_\_ bbls.  
Final production 395 MCFD ~~xxx~~ per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test 1170 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	246	246	100 sax = to sur
8 5/8			
7	2592	2592	75 sax=650'
5 1/2			
4 1/2		4972	225 sax=2400'
3			
2		4160	
Liners Used			

Attach copy of cementing record.

Well treatment details:  
Perforated 4 1/2" casing 4889-4891' with 16 shots. Frac Oriskany Sand with 38,000# sand with 38,000# sand and 862 BBL water. Oriskany tested 53 MCF and 2 BBL oil/day after frac. Set wireline bridge plug at 4220'. Perforated 4 1/2" casing 3990-4178' with 28 shots. Frac Brown Shale with 60,000# sand and 265 BBL water.  
395 MCF

Coal was encountered at None reported Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Brown Shale Depth 3990-4178

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	15		
Shale			15	115		
Sand			115	130		
Shale			130	210		
Sand			210	253		
Shale			253	630		
Sand			630	660		
Shale			660	718		
Sand			718	760		
Shale			760	1030		
Sand			1030	1042		
Shale			1042	1120		
Sand			1120	1137		
Shale			1137	1150		
Salt Sand			1150	1260		
Shale			1260	1315		
Salt Sand			1315	1512		
Shale			1512	1650		
Broken Sand			1650	1782		
Shale			1782	1837		
Sand			1837	1847		
Shale			1847	1900		
Maxon Sand			1900	1924		

(over)

JUL 7 1980

Formation	Color	Hard or Soft	Top Feet //	Bottom Feet	Oil, Gas or Water	Remarks
Big Lime			1924	2055		
Shale			2055	2085		
Injun Sand			2085	2214		
Shale			2214	2524		
Coffee Shale			2524	2551		
Berea Sand			2551	2562		
Shale			2562	3746		
Brown Shale			3746	4211		
Shale			4211	4616		
Marcellus Shale			4616	4784		
Onondaga L. S.			4784	4851		
Oriskany Sand			4851	4898		
Heiderberg L. S. ✓			4898	4984		
Log Total Depth						

Date October 11, 1979

APPROVED A. C. Gause  
District Geologist



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

FEB 21 1979

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 February 19, 1979

Surface Owner Ray Haught, et al  
Address 1909 Dunbar Street, Dunbar, WV  
Mineral Owner Ray Haught, et al 25064  
Address 1909 Dunbar St., Dunbar, W. Va.  
Coal Owner Same as above 25064  
Address \_\_\_\_\_  
Coal Operator Not operated  
Address \_\_\_\_\_

Company DEVON CORPORATION  
Address Box 1433, Charleston, W. Va.  
Farm William Haught, Hrs. Acres 106  
Location (waters) Sapsucker Run  
Well No 890 Elevation 901  
District Union County Mason  
Quadrangle Elmwood 7 1/2

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 10-22-79.

[Signature]  
Deputy Director - Oil & Gas Division

INSPECTION TO BE NOTIFIED Mr. Kenneth Butcher  
PH: 736-4885 ADDRESS Barboursville, W. Va.

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 July 11 19 72 by Ray Haught, et al made to Commonwealth Gas and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Mason County, Book 36 Page 203

XXX 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:

W. VA. OIL & GAS CONSERVATION COMMISSION  
1613 WASINGTON STREET, EAST  
CHARLESTON, WEST VIRGINIA 25311

Surveyor  
Address  
of  
Well Operator

Very truly yours,  
(Sign Name) A. C. Youse  
A. C. Youse, Dist. Geologist  
Box 1433  
Street  
Charleston  
City or Town  
West Virginia 25325  
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

47-053-0174

PERMIT NUMBER

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

PROPOSED WORK ORDER TO XXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME F W A Drilling Co. NAME Bill Endicott  
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, W. Va.  
 TELEPHONE 965-3379 TELEPHONE 342-3171  
 ESTIMATED DEPTH OF COMPLETED WELL: 5000 ROTARY XXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XXX 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	250	250	100 sax= to surface
8 - 5/8			
7	2600	2600	75 sax=625'
5 1/2			
4 1/2		5000	200 sax=2400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS None anticipated  
 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