



New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure One part in 200'  
 Source of Elevation Forks road at mouth of Bee Run  
EI. 641.0'  
 "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 P.O. BOX 1433 CHARLESTON W.V.  
RUSSELL FORBIS  
 Farm NETTIE FORBIS, Iva Forbis  
 Tract \_\_\_\_\_ Acres 132 Lease No. 3588  
 Well (Farm) No. 1 Serial No. 889  
 Elevation (Spirit Level) 753.0'  
 Quadrangle ELMWOOD, WINFIELD 15' NE  
 County MASON District UNION  
 Surveyor C. J. Yalley Jr.  
 Engineer's Registration No. LS 92  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 2-17-79 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. 47-053-0183

+ 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 21 1979

*Original Copy 4550 Deep Well 6-6 Rock Castle (346)*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 13

Quadrangle Elmwood  
Permit No. 47-053-0183

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

Company DEVON CORPORATION  
Address Box 1433, Charleston, WV  
Farm Ivan Forbis Acres 132  
Location (waters) Little Spruce Run  
Well No. 889 Elev. 753  
District Union County Mason  
The surface of tract is owned in fee by \_\_\_\_\_  
Russell Forbis  
Address 512 E. Columbus St, Columbus, OH  
Mineral rights are owned by Ivan Forbis  
477 Morrill Ave., Columbus, OH  
Drilling Commenced July 23, 1979  
Drilling Completed July 31, 1979  
Initial open flow 15 MCFD ~~xxxxx~~ bbls.  
Final production 169 MCFD ~~xxxxx~~ day bbls.  
Well open \_\_\_\_\_ hrs. before test 1000 RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	269	269	100 sax=to sur
8 5/8			75 sax=650'
7	2460	2460	
5 1/2			200 sax=2400'
4 1/2		4838	
3			
2		4036	
Liners Used			

Attach copy of cementing record.

Perforated 4 1/2" casing 3856'-4051' with 27 shots. 169 MCF  
Frac Brown Shale with 60,000# sand and 269 BBL water.

Coal was encountered at None reported Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water None Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Brown Shale Depth 3856-4051

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	20		Tops probably from KB - ABOUT 761
Sand			20	50		
Shale			50	358		
Sand			358	384		
Shale			384	500		
Sand			500	538		
Shale			538	595		
Sand			595	607		
Shale			607	652		
Sand			652	678		
Shale			678	870		
Sand			870	880		
Shale			880	900		
Sand			900	922		
Shale			922	1035		
Salt Sand			1035	1135		
Shale			1135	1180		
Sand			1180	1240		
Shale			1240	1262		
Sand			1262	1303		
Shale			1303	1503		
Sand			1503	1647		
Shale			1647	1710		

(over)

JUL 7 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Maxon Sand			1710	1796		
Big Lime			1796	1925		
Shale			1925	1957		
Injun Sand			1957	2084		
Shale			2084	2391		
Coffee Shale			2391	2418		
Berea Sand			2418	2430		
Shale			2430	3616		
Brown Shale			3616	4086		
Shale			4086	4496		
Marcellus Shale			4496	4666		
Onondaga L. S.			4666	4732		
Oriskany Sand			4732	4779		
Helderberg L. S.			4779	4872		
Log Total Depth				4872		

Date October 22, 1979  
 APPROVED A. C. Youse Owner  
 By A. C. Youse, District Geologist  
 (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

FEB 23 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 Russell Forbis Company DEVON CORPORATION  
 Address 512 E. Columbus St., Columbus, Ohio Address Box 1433, Charleston, W. Va.  
 Mineral Owner Ivan Forbis, et al Farm Ivan Forbis Acres 132 ac  
 Address 477 Maxwell Avenue, Columbus, O 43200 Location (waters) Little Spruce Run of 13 Mile Cre  
 Coal Owner Same as above Well No. 889 Elevation 753  
 Address \_\_\_\_\_ District Union County Mason  
 Coal Operator Not Operated Quadrangle Elmwood 7 1/2  
 Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 20 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 11-2-79

*[Signature]*  
Deputy Director - Oil & Gas Division  
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Kenneth Butcher  
PH: 736-4885 ADDRESS Barnboursville, 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 May 18 19 76 by Ivan Forbis, et al made to Devon & Eason and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Mason County, Book 41 Page 101  
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.

Very truly yours, DEVON CORPORATION  
(Sign Name) A. C. Youse  
A. C. Youse, Well Operator, Dist. Geologist  
P. O. Box 1433  
Street  
Charleston  
City or Town  
W. Va. 25325  
State

PLEASE SEND COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

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

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

47-053-0183

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 FWA 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: 4850 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	2450	2450	75 sax=625'
5 1/2			
4 1/2		4850	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