

15' Longitude 81° 50'
7.5' Topo 81° 50'

New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN 200
 Source of Elevation DEVON CORP. WELL No. 840 ELEV. 621'
TURKEY BRANCH

"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 CORPORATION
 Address Box 1433 CHARLESTON, WV
 Farm DELMER K. FOSTER
 Tract _____ Acres 101 Lease No. 2175
 Well (Farm) No. 1 Serial No. 844
 Elevation (Spirit Level) 927.0 C
 Quadrangle 15' WINFIELD 7.5' ELMWOOD
 County PUTNAM District BUFFALO
 SURVEYOR _____
 SURVEYOR'S _____
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 9-13-77 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. PUT-848

+ 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.

47-079 OCT 7 1977



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD - 4

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

Quadrangle Winfield 15'

Permit No. PUT-848
47-079

Company DEVON CORPORATION
Address Box 1433, Charleston, WV 25325
Farm Delmer Foster Acres 101
Location (waters) Turkey Branch of 18 mile crk.
Well No. 1-844 Elev. 927
District Buffalo County Putnam
The surface of tract is owned in fee by Delmer K. Foster
Address Box 271, Buffalo, WV
Mineral rights are owned by Same as above
Address _____
Drilling Commenced 9/23/77
Drilling Completed 10/2/77
Initial open flow 15 M cu. ft. _____ bbls.
Final production 207 cu. ft. per day _____ bbls.
Well open 6 hrs. before test 1475 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	668	668	250 Sax
8 5/8			
7	2621	2629	75 Sax
5 1/2			
4 1/2		5083	225 Sax
3			
2		4851	
Liners Used			

Well treatment details:

Attach copy of cementing record. Halliburton

Perforated Oriskany 4825-4826 & 4830-4832 with 8 shots/foot

Fractured with 1000 gal. acid, 610 BBL water & 35,000# sand. Breakdown at 4000 PSI.

Coal was encountered at 639 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sand Depth 4825-4832

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Shale			0	124		
Shale			124	179		
Red Rock			179	218		
Broken Sand			218	230		
Shale			230	278		
Red Rock			278	305		
Broken Sand			305	347		
Red Rock			347	355		
Broken Sand			355	386		
Shale			386	446		
Sand			446	475		
Shale			475	531		
Red Rock			531	580		
Sand			580	607		
Shale			607	639		
Coal			639	648		
Shale			648	695		
Broken Sand			695	724		
Red Rock			724	756		
Sand			756	783		
Red Rock			783	867		
Sand			867	896		
Shale			896	922		
Sand			922	972		

(over)

* Indicates Electric Log tops in the remarks section.

JAN 23 1978

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Broken Sand			972	1052		
Shale			1052	1155		
Sand			1155	1178		
Shale			1178	1187		
Sand			1187	1202		
Shale			1202	1296		
Sand			1296	1331		
Shale			1381	1336		
Sand			1336	1350		
Shale			1350	1363		
Sand			1363	1402		
Shale			1402	1453		
Sand			1453	1491		
Shale			1491	1610		
Sand			1610	1688		
Shale			1688	1709		
Sand			1709	1727		
Shale			1727	1777		
Sand			1777	1830		
Broken Sand			1830	1904		
Little Lime			1904	1941		
Big Lime			1941	2088		
Shale			2088	2120		
Injun Sand			2120	2178		
Shale			2178	2570		
Coffee Shale			2570	2592		
Berea			2592	2613		
Shale			2613	3778		
Brown Shale			3778	4209		
Shale			4209	4594		
Marcellus Shale			4594	4744		
Onondaga L.S.			4744	4818		
Oriskany Sand			4818	4840		
Helderburg L.S.			4840	5008		
Top of Silurian			5008			
Log Total Depth				5103		Salina

Date JAN. 10, 19 78

APPROVED DEVON CORP. Owner

By A. C. House
 (Title) GEOLOGIST
 DIST.



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 Delmer K. Foster
Address Box 271, Buffalo, W. Va.
Mineral Owner Same as above
Address _____
Coal Owner Union Carbide Corporation
Address Sanderson, W. Va.
Coal Operator Not Operated
Address _____

DATE September 13, 1977
Company DEVON CORPORATION
Address Box 1433, Charleston, WV 25325
Farm Delmer Foster Acres 101
Location (waters) Turkey Branch of 18 Mile Creek
Well No. 1-844 Elevation 927'
District Buffalo County Putnam
Quadrangle Elmwood 7 1/2' Winfield 15'

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 1-19-78.

INSPECTOR
TO BE NOTIFIED Martin Nichols
ADDRESS Clendenin, W. Va.
PHONE 548-6993

[Signature]
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 March 28 1972 by D. K. Foster, et ux made to Commonwealth Gas Corp. and recorded on the 13th day of April 1972 in Putnam County, Book 56 Page 437

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:

Very truly yours, DEVON CORPORATION
(Sign Name) [Signature]
A. C. Youse District Geologist
Box 1433
Street
Charleston,
City or Town
West Virginia 25325
State

W. VA. OIL & GAS CONSERVATION COMMISSION
613 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

PUT-848 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-079

Signed by [Signature]
Arthur C. Youse

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 W. Backus
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, W. Va.
 TELEPHONE 965-3379 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 5100 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	675	675	325 sax=to surface
8 - 5/8			
7	2650	2650	75 sax=625'
5 1/2			
4 1/2	5100	5100	150 sax=1800'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 631 feet
 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 Union Carbide Coal Corporation, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Union Carbide Coal Corporation 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

 Officer Title