



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN 200
 Source of Elevation U.S.G.S. BM. E.I. 592 PARCHMENT VALLEY ROAD

"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 P.O. Box 1433 CHARLESTON W.Va.
 Farm W. WOODWARD
 Tract _____ Acres 106.68 Lease No. 2381
 Well (Farm) No. 1 Serial No. 867
 Elevation (Spirit Level) 598'
 Quadrangle 7.5 COTTAGEVILLE SE
15. RAVENSWOOD
 County JACKSON District RIPLEY
 Surveyor James D. Sifton
 Surveyor's Registration No. 149
 File No. _____ Drawing No. _____
 Date 4-7-78 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. JAC -1429

+ 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.

47-035



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

1979
DEPT. OF MINES

Quadrangle Cottageville
Permit No. JAC-1429

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

Company DEVON CORPORATION
Address Box 1433, Charleston, WV
Farm W. W. Woodard Acres 107 ac
Location (waters) Roundknob Run
Well No. 867 Elev. 598
District Ripley County Jackson
The surface of tract is owned in fee by W. W. Woodard
Address Evans, W. Va.
Mineral rights are owned by Same as above
Address _____
Drilling Commenced October 25, 1978
Drilling Completed October 31, 1978
Initial open flow 9 MCFD ~~XXX~~ bbls.
Final production 252 M cu. ft. per day bbls.
Well open 6 hrs. before test 1040 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	205	205	100 sax=to surface
8 5/8			
7	2340	2340	75 sax=625'
5 1/2			
4 1/2		4763	200 sax=2400'
3			
2		4432	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing 4708'-4710. Frac oriskany with 1000 bbls water & 11,500# sand. No result after frac. Set bridge plug at 4500' with 10' cement plug dn tbp.
Perforated 4 1/2" csg. 4365-4455 w/17 shots foam frac w/309 bbl water & 60,000# sand. Set bridge plug at 4000'. Perforated 4 1/2" casing 3625 to 3918 w/25 shots. Frac with 1047 bbl water & 60,000# sand. Drilled out bridge plug at 4000'.

Coal was encountered at None reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Marcellus & Brown Shale Depth 4365-4455 & 3625-3918

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	17		
Shale			17	170		
Sand			170	178		
Shale			178	203		
Sand			203	214		
Shale			214	590		
Sand			590	613		
Shale			613	968		
Sand			968	1054		
Shale			1054	1110		
Sand			1110	1183		
Shale			1183	1200		
Sand			1200	1245		
Shale			1245	1284		
Sand			1284	1307		
Shale			1307	1511		
Sand			1511	1520		
Shale			1520	1555		
Sand			1555	1567		
Shale			1567	1580		
Maxon Sand			1580	1653		
Big Lime			1653	1786		
Shale			1786	1840		
Injun Sand			1840	1894		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1894	2277		
Coffee Shale			2277	2300		
Berea Sand			2300	2312		
Shale			2312	3504		
Brown Shale			3504	3990		
Shale			3990	4414		
Marcellus Shale			4414	4590		
Onondaga L.S.			4590	4663		
Oriskany Sand			4663	4714		
Heiderberg L. S.			4714	4806		
Log Total Depth				4806'		

Date January 4 1979

DEVON CORPORATION

APPROVED

A. C. Youse
A. C. Youse

Owner

By

District Geologist

(11)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
APR 10 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 April 7, 1978

Surface Owner W. W. Woodard
Address Evans, W. Va. 25241
Mineral Owner W. W. Woodard
Address Evans, W. Va. 25241
Coal Owner _____
Address _____
Coal Operator Not Operated
Address _____

Company DEVON CORPORATION
Address Box 1433, Charleston, W. Va.
Farm W. W. Woodard Acres 107 ac
Location (waters) Roundknob Run
Well No. 1-867 Elevation 598
District Ripley County Jackson
Quadrangle Cottageville

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
operations have not commenced by 8-11-78

INSPECTOR Richard Morris
TO BE NOTIFIED
ADDRESS Grantsville, W. Va.

[Signature]
Deputy Director - Oil & Gas Division

PHONE 354-7259

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 May 26 19 76 by W. W. Woodard, et ux made to Devon and Eason and recorded on the 30th day of May 19 76 in Jackson County, Book 137 Page 719
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) A. C. Youse
Well Operator, Dist. Geologist
Box 1433
Street
Charleston,
City or Town
West Virginia
State

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

Address
of
Well Operator

BLANKET BOND

*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.

JAC-1429 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 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: 4800 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	200	200	100 sax = to surface
8 - 5/8			
7	2350	2350	75 sax = 700'
5 1/2			
4 1/2		4800	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 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