

Latitude 38° 42' 30"
(15') 38° 45'

Longitude 81° 50' 00"

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure 1 - 200'
Source of Elevation ROAD FORKS NORTH OF WELL LOC.

"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, WV
 Farm LLOYD SHANK
 Tract _____ Acres 90 Lease No. 2608
 Well (Farm) No. 1 Serial No. 939
 Elevation (Spirit Level) 745.0' NC
 Quadrangle ELMWOOD 7.5' WINFIELD 15'
 County MASON District UNION
 Surveyor C. Y. Valley Jr.
 Surveyor Registration No. 92
 File No. BK 48 PG 67 Drawing No. _____
 Date 10-27-79 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. 47-053-0207

+ 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.

DEC 6 1979

Deep Well b-b Rock Castle (346)



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Elmwood

Permit No. MAS 207
53

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

Company DEVON CORPORATION
Address P. O. Box 1433, Charleston, WV
Farm Lloyd Shank Acres 93
Location (waters) Mudlick Fork
Well No. 939 Elev. 745
District Union County Mason
The surface of tract is owned in fee by _____
Lloyd Shank
Address PO Box 105, Eleanor, WV 25070
Mineral rights are owned by Same as above
_____ Address _____
Drilling Commenced 5/30/80
Drilling Completed 6/8/80
Initial open flow 96,000 cu. ft. XXXX
Final production 292,000 cu. ft. per day XXXX
Well open 4 hrs. before test 1750 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	214	214	100 sx (surf)
8 5/8			
7	2438	2438	100 sx (800')
5 1/2			
4 1/2		4671	225 sx (2520')
3			
2-3/8		4546	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well was fractured with 15,000# 80/100 sand, 30,000# 20/40 sand and 882 bbls water.
Ave. PSI 3600#; ave. rate 15 bbls/min. 187,000 SCF Total N₂

292 MCF

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sand Depth 4577-4579

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	14		<u>TOPS PROBABLY FROM KB ≈ 753'</u>
Shale			14	33		
Sand			33	56		
Shale			56	65		
Sand			65	80		
Shale			80	101		
Sand			101	221		
Shale			221	301		
Sand			301	319		
Shale			319	340		
Sand			340	352		
Shale			352	371		
Sand			371	384		
Shale			384	417		
Sand			417	433		
Shale			433	521		
Sand			521	537		
Shale			547	554		
Sand			554	568		
Shale			568	650		
Sand			650	664		
Shale			664	856		
Sand			856	885		

(over)

* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet /s	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			885	938		
Sand			938	978		
Shale			978	1021		
Sand			1021	1061		
Shale			1061	1126		
Sand			1126	1183		
Shale			1183	1195		
Sand			1195	1206		
Shale			1206	1211		
Sand			1211	1281		
Shale			1281	1416		
Sand			1416	1429		
Shale			1429	1481		
Sand			1481	1485		
Shale			1485	1494		
Sand			1494	1545		
Shale			1545	1608		
Sand			1608	1666		
Shale			1666	1670		
Sand			1670	1676		
Shale			1676	1686		
Sand			1686	1709		
Big Lime			1709	1876		
Shale			1876	1903		
Sand			1903	1909		
Shale			1909	1928		
Injun Sand			1928	2050		
Shale			2050	2349		
Coffee Shale			2349	2367		
Berea Sand			2367	2388		
Shale			2388	3530		
Brown Shale			3530	3959		
Shale			3959	4332		
Marcellus Shale			4332	4484		
Onondaga Limestone			4484	4566		
Oriskany Sand			4566	4586		
Helderberg Limestone			4586	4677		
T. D.			4677			

Date August 14, 1980

DEVON CORPORATION

APPROVED Paul Wiemann Owner

By Geologist

(Title)



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Lloyd Shank
Address PO Box 105, Eleanor, WV 25070
Mineral Owner Same as above
Address _____
Coal Owner Same as above
Address _____
Coal Operator Not Operated
Address _____

DATE November 9, 1979
Company DEVON CORPORATION
Address Box 1433, Charleston, W. Va.
Farm Lloyd Shank Acres 93
Location (waters) Mudlick Fork
Well No. 939 Elevation 745
District Union County Mason
Quadrangle Elmwood

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 7-19-80.

Robert F. [Signature]

Deputy Director - Oil & Gas Division

INSPECTOR Kenneth Butcher
TO BE NOTIFIED _____
ADDRESS _____
PHONE _____

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 December 12 1975 by Hollie F. Miller, et ux made to Commonwealth Gas and recorded on the _____ day of _____ 19____, in Mason County, Book 40 Page 352
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. *

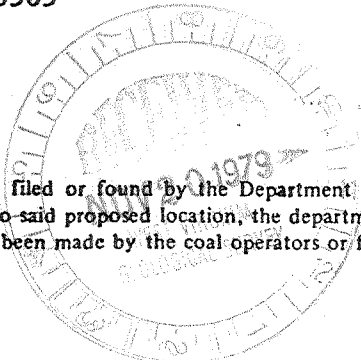
Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

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

MARKET BOND

47-053-0207 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."

Signed by _____

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 EWA Drilling Co. NAME Bill Endicott
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, WV.
 TELEPHONE 965-3379 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 4675 ROTARY _____ 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 surf.
8 - 5/8			
7	2425	2425	75 sax = 600'
5 1/2			
4 1/2		4675	225 sax=2400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ 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