



FILE NO. BK 59 P 67
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION USGS Fork road north of loc. E1 648

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) C. S. Volney Jr.
 R.P.E. _____ L.L.S. 92

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MARCH 2, 1981
 OPERATOR'S WELL NO. 985
 API WELL NO. _____
47 - 035 - 1564
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 767.77 WATER SHED CEDAR RUN
 DISTRICT UNION COUNTY JACKSON
 QUADRANGLE RAVENSWOOD LIS EC
 SURFACE OWNER WAYNE HUGHES ACREAGE 27
 OIL & GAS ROYALTY OWNER WAYNE HUGHES LEASE ACREAGE 690
 LEASE NO. 2566
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 3900'
 WELL OPERATOR DEVON CORP DESIGNATED AGENT A.C. YOUSE
 ADDRESS P.O. BOX 1433 ADDRESS P.O. BOX 1433
CHARLESTON WVA. 25324 CHARLESTON, W.VA. 25325



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Ravenswood 7-1/2

Permit No. JAC-1564

API No. 47-035-1564

Company DEVON ENERGY CORPORATION
Address Box 1433, Charleston, W. Va. 25325
Farm Wayne Hughes Acres 690
Location (waters) Cedar Run
Well No. 985 Elev. 767.77
District Union County Jackson

The surface of tract is owned in fee by _____
Wayne Hughes, Rt. 1, Box 82,

Address Ravenswood, W. Va. 26164

Mineral rights are owned by Same as above

Address _____

Drilling Commenced June 29, 1981

Drilling Completed July 4, 1981

Initial open flow 40 MCFD xxxx bbls.

Final production 2.15 M/D cu. ft. per day _____ bbls.

Well open 3 hrs. before test 360 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	280	280	125 sax=to surfa
8 5/8			
7	1973	776	75 sax=650 feet
5 1/2			
4 1/2		3856	150 sax=1800 fee
3			
2		3780	
Liners Used			

Attach copy of cementing record.

Perforated 4-1/2" casing 3655 to 3838 with 31 shots

Fractured Brown Shale with 258 BBLs water, 60,000# sand & 700,000 SCF nitrogen.

Coal was encountered at None reported Feet _____ Inches _____

Fresh water _____ Feet _____ Salt Water _____ Feet _____

Producing Sand Devonian Brown Shale Depth 3655-3838

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	10		
Sand			10	70		
Shale			70	222		
Sand			222	280		
Shale			280	480		
Sand			480	508		
Shale			508	617		
Sand			617	637		
Shale			637	1025		
Sand			1025	1159		
Shale			1159	1189		
Sand			1189	1224		
Shale			1224	1272		
Sand			1272	1295		
Shale			1295	1526		
Sand			1526	1557		
Shale			1557	1617		
Sand			1617	1656		
Big Lime			1656	1781		
Shale			1781	1824		
Injun Sand			1824	1928		
Shale			1928	2232		
Coffee Shale			2232	2250		
Berea Horizon				2250		
Shale			2250	3402		

RECEIVED

SEP 22 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OCT 08 1981

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Brown Shale			3402	3868		
Shale			3868	3898		
Log Total Depth				3898		

Date September 22, 1981

DEVON ENERGY CORPORATION

APPROVED A. C. Youse

A. C. Youse

By Dist. Engr. Mgr

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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MAR - 3 1981

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 3, 1981

Surface Owner Wayne Hughes

Company DEVON CORPORATION

Address Rt. 1, Box 82, Ravenswood, W. Va. 26164

Address PO Box 1433, Charleston, W. Va. 25325

Mineral Owner Wayne Hughes, et al

Farm Wayne Hughes Acres 690 ac

Address _____

Location (waters) Cedar Run of Ohio River

Coal Owner Same as above

Well No. 985 Elevation 767.77

Address _____

District Union County Jackson

Coal Operator Not operated

Quadrangle Ravenswood 7-1/2

Address _____

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 11-30-81

INSPECTOR
TO BE NOTIFIED Richard J. Morris

ADDRESS Box 372, Grantsville, W. Va. 26147

PHONE 354-7259

Fred B. Russell
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 April 16, 19 75 by Wayne Hughes, et ux made to Devon & Eason and recorded on the _____ day of _____ 19____, in Jackson County, Book 130 Page 635

XX 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
Well Operator
A. C. Youse, Dist. Expl. Manager

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

PO 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

47-035-1564

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 Clint Hurt & Assoc. NAME Bill Endicott
 ADDRESS PO Box 388, Elkview, W. Va. 25071 ADDRESS PO Box 1433, Charleston, W. Va. 25325
 TELEPHONE 344-2401 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 3900 ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Brown Shale
 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	300	300	100 sax=to surface
8 - 5/8			
7	1950	1950	75 sax=650 feet
5 1/2			
4 1/2		3900	150 sax=1800 feet
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