



FILE NO. B 59 P 71
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1-200'
 PROVEN SOURCE OF ELEVATION Road Forks northwest of location
El 595.0'

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. Volley Jr.
 R.P.E. _____ L.S. 92

PLACE SEAL HERE

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



DATE March 7, 1981
 OPERATOR'S WELL NO. 982
 API WELL NO. 47-035-1561
 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 667.33 WATER SHED CEDAR RUN OF OHIO RIVER
 DISTRICT UNION COUNTY JACKSON
 QUADRANGLE RAVENSWOOD N15 NE
 SURFACE OWNER WAYNE W HUGHES ACREAGE 57
 OIL & GAS ROYALTY OWNER WAYNE W HUGHES LEASE ACREAGE 6.90
 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 3775
 WELL OPERATOR DEVON CORP DESIGNATED AGENT ARTHUR C. YOUSE
 ADDRESS P.O. BOX 1433 ADDRESS P.O. BOX 1433
CHARLESTON, W.VA. 25325 CHARLESTON, W.VA. 25325



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

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

Quadrangle Ravenswood

Permit No. JAC-1561

API No. 47-035-1561

Company DEVON ENERGY CORPORATION
Address Box 1433, Charleston, W. Va. 25325
Farm Wayne Hughes Acres 690
Location (waters) Cedar Run
Well No. 982 Elev. 667.33
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 July 24, 1981
Drilling Completed July 29, 1981
Initial open flow 7 MCFD xx ft. _____ bbls.
Final production 140 MCFD xx ft. xx day _____ bbls.
Well open 3 hrs. before test 320 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	270	270	100 sax=to surf.
8 5/8			
7	1836	740	75 sax=650 feet
5 1/2			
4 1/2		3733	150 sax=1800 ft.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4-1/2" casing 3516 to 3725 with 30 shots

8/17/81 Fractured Brown Shale with 258 BBLs water, 60,000# sand and 626,000 SCF nitrogen

Coal was encountered at None reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Devonian Brown Shale Depth 3516-3725

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	132		
Sand			132	229		
Shale			229	370		
Sand			370	435		
Shale			435	900		
Sand			900	1063		
Shale			1063	1160		
Sand			1160	1197		
Shale			1197	1275		
Sand			1275	1322		
Shale			1322	1364		
Sand			1364	1402		
Shale			1402	1433		
Sand			1433	1485		
Shale			1485	1561		
Sand			1561	1576		
Big Lime			1576	1666		
Shale			1666	1782		
Injun Sand			1782	1808		
Shale			1808	2106		
Coffee Shale			2106	2122		
Berea Horizon				2122		
Shale			2122	3266		
Brown Shale			3266	3728		

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
Shale	<i>DEUSH.</i>	Log Total Depth	3728	3795 3795		

Date September 21, 1981

APPROVED *Arthur C. Youse* Owner

By Dist. Exp. Mgr.
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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MAR - 9 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 9, 1981

Surface Owner Wayne W. Hughes

Company DEVON CORPORATION

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

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

Mineral Owner Wayne W. Hughes

Farm Wayne W. Hughes Acres 690

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

Location (waters) Cedar Run of Ohio River

Coal Owner Same as above

Well No. 982 Elevation 667.33

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

Frederick 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 1975 by Wayne Hughes, et ux made to Devon & Eason and recorded on the _____ day of _____ 19 in Jackson County, Book 130 Page 635.

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. Exp. Mgr.

PO Box 1433

Street

Charleston,

City or Town

W. Va. 25325

State

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

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

Address
of
Well Operator

BLANKET BOND

47-035-1561 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."

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) Clint Hurt & Assoc.

RESPONSIBLE AGENT: Bill Endicott

NAME Box 388, Elkview, W. Va. 25071

NAME PO Box 1435, Charleston, W. Va.

TELEPHONE 344-2401

TELEPHONE 342-3171 25325

ESTIMATED DEPTH OF COMPLETED WELL: 3775

ROTARY XXX CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: Brown Shale

TYPE OF WELL: OIL XXX GAS COMB. STORAGE DISPOSAL 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	1850	1850	75 sax=650 feet
5 1/2			
4 1/2		3775	150 sax=1800 feet
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top

APPROXIMATE FRESH WATER DEPTHS FEET
APPROXIMATE COAL DEPTHS FEET
None anticipated

IS COAL BEING MINED IN THE AREA? 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.

Requested 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