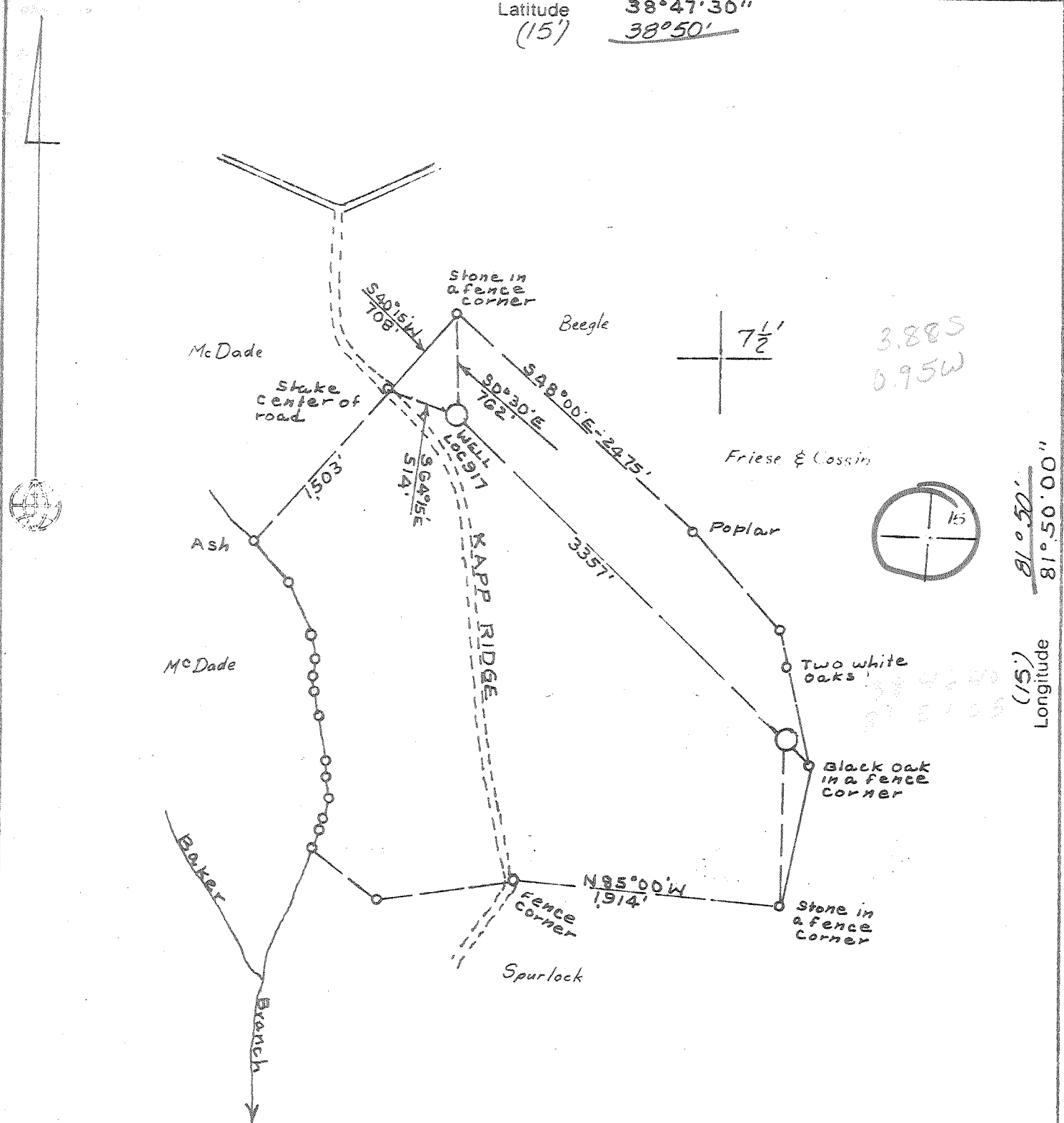


Latitude 38°47'30"  
(15') 38°50'



Longitude 81°50'00"  
(15') 81°51'18"

Source of Elevation Road Forks  
1500'± Northwest of Well Location  
Elevation 984.00'

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"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 the rules and regulations of the oil and gas section of the mining laws of West Virginia.  
Minimum degree of accuracy is one part in 200  
Land Surveyor License N992 Legg Star Route BDX 549 B  
Sissonville W Va 25320  
Signed C. Y. Yalby Jr.

Company DEVON CORP.  
 Address PO. BOX 1433 CHARLESTON, W.V.  
 Farm BELLE FRIESE PETER & DORIS EICKER  
 Lease 3500 Acres 200  
 Well Farm No. 1 Ser. No. 917  
 Elevation - Spirit Level 935.0' SC  
 Quadrangle COTTAGEVILLE 7.5 RAVENSWOOD 15'  
 Township or District UNION  
 County MASON  
 Sec., Lot, Qr.        T        R         
 Coordinates         
 File No.        Dwg. No.         
 Date 5-17-78 Scale 1"=1,000'

**WELL LOCATION MAP**  
STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

**MAS - 148**

Scale 15'  7 1/2'

**47-053 JUN 1 1978**

*4810' Company*

*Deep Well 6-b Providence (359)*



RECEIVED

*allison*

SEP - 4 1979

47-053-0148

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION

Oil and Gas Division DEPT. OF MINES

WELL RECORD 30

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

Quadrangle Cottageville

Permit No. MAS-148

Company DEVON CORPORATION  
Address Box 1433, Charleston, W. Va.  
Farm Belle Friese Acres 200 ac  
Location (waters) Horse Cave Run  
Well No. 917 Elev. 935  
District Union County Mason  
The surface of tract is owned in fee by Peter & Doris Elecker  
Address Miller Addn. Ravenswood, WV  
Mineral rights are owned by Belle Friese  
Address Rt. 2, Cottageville, WV  
Drilling Commenced November 25, 1978  
Drilling Completed December 4, 1978  
Initial open flow 17 MCFD ~~XXX~~ bbls.  
Final production 188 MCFD ~~XXX~~ per day bbls.  
Well open 4 hrs. before test 1600 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	217	217	100 sax=to surfac
8 5/8			
7	2566	2566	75 sax=625 feet
5 1/2			
4 1/2		4778	200 sax=2400 feet
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing at 4724-4726 with 16 shots

Fractured Oriskany with 921 BBL water and 42,000# sand

188 MCF

Coal was encountered at None reported Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Oriskany Sand Depth 4724-4726

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	10		
Shale			10	192		
Sand			192	265		
Shale			265	523		
Sand			523	550		
Shale			550	648		
Sand			648	667		
Shale			667	845		
Sand			845	913		
Shale			913	1025		
Sand			1025	1035		
Shale			1035	1190		
Sand			1190	1259		
Shale			1259	1293		
Sand			1293	1320		
Shale			1320	1350		
Sand			1350	1438		
Shale			1438	1462		
Broken Sand			1462	1519		
Shale			1519	1638		
Sand			1638	1723		
Shale			1723	1794		
Maxon Sand			1794	1864		

(over)

\* Indicates Electric Log tops in the remarks section.

47-053-C148

Formation	Color	Hard or Soft	Top Feet $\approx$	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1864	2004		
Shale			2004	2024		
Injun Sand			2024	2149		
Shale			2149	2486		
Coffee Shale			2486	2506		
Berea Sand			2506	2522		
Shale			2522	3666		
Brown Shale			3666	4101		
Shale			4101	4492		
Marcellus Shale			4492	4628		
Onondaga L. S.			4628	4706		
Oriskany Sand			4706	4731		
Helderberg L. S.			4731	4792		
Log Total Depth				4792'		

Date January 5, 1979

APPROVED: A. C. Youse (Owner)  
 By District Geologist (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
MAY 19 1978

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 May 9, 1978  
Company DEVON CORPORATION  
Address Box 1433, Charleston, W. Va.  
Farm Belle Friese Acres 200 ac  
Location (waters) Horse Cave Run  
Well No. 917 Elevation 935  
District Union County Mason  
Quadrangle Cottageville

Surface Owner Peter & Doris Elicker  
Address Miller Addn., Ravenswood, W. Va.  
Mineral Owner Belle Friese  
Address Rt. 2, Cottageville, W. Va. 25239  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator Not operated  
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 9-22-78.

INSPECTOR  
TO BE NOTIFIED Kenneth Butcher  
ADDRESS Barboursville, W. Va.  
PHONE 736-4885

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 October 18 1976 by John A. Friese, et ux made to Devon & Eason and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Mason County, Book 41 Page 201

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  
A. C. Youse, Dist. Geologist  
PO Box 1433  
Street  
Charleston  
City or Town  
West Virginia 25325  
State

VA. OIL & GAS CONSERVATION COMMISSION  
13 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.

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 Endicott  
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, W. Va.  
 TELEPHONE 965-3379 TELEPHONE 342-3171  
 ESTIMATED DEPTH OF COMPLETED WELL: 4810 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	2550	2550	75 Sax=625'
5 1/2			
4 1/2		4810	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