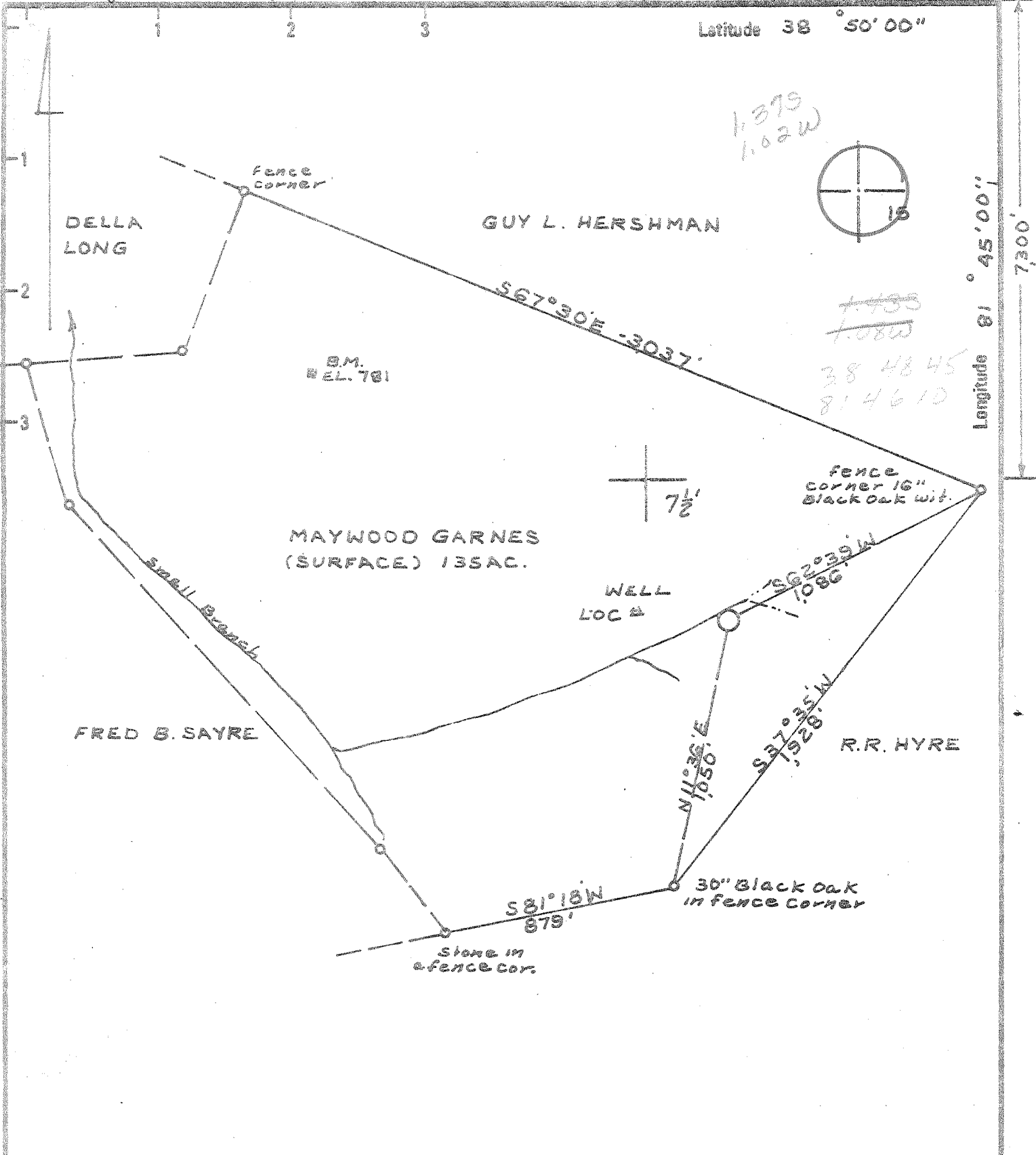


Latitude 38° 50' 00"



1.375
1.02W
1.433
1.08W
38 48 45
81 46 10
Longitude 81° 45' 00"

Minimum Error of Closure one Part in 200
 Source of Elevation U.S.G.S. B.M. on a knob N. 59° W. - 1846' from well location
 "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."

New Location
 Drill Deeper
 Abandonment

Company DEVON CORP.
 Address PO BOX 1433 CHARLESTON WVA
 Farm MAYWOOD GARNES
 Tract _____ Acres 135 Lease No. 3276
 Well (Farm) No. _____ Serial No. 902
 Elevation (Spirit Level) 768.0' SE
 Quadrangle COTTAGEVILLE 7.5; RAVENSWOOD 15'
 County JACKSON District RIPLEY
 Surveyor C. S. Jolley Jr.
 Engineer's Registration No. 44592
 File No. _____ Drawing No. _____
 Date 8-19-78 Scale 1"=500'

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

WELL LOCATION MAP
 FILE NO. JAC-1466

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Deep Well 47-035 OCT 17 1978

5000' Dickman 6-6 Providence (359)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD 22

RECEIVED

SEP - 4 1979

47-035-1466

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Cottageville

Permit No. JAC-1466

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

Company DEVON CORPORATION
Address PO BOX 1433, Charleston, WY
Farm Maywood Garnes Acres 135 ac
Location (waters) Isaacs Run
Well No. 902 Elev. 768
District Ripley County Jackson
The surface of tract is owned in fee by _____
Maywood Garnes
Address Evans, W. Va.
Mineral rights are owned by Maywood Garnes
Address Evans, W. Va.
Drilling Commenced November 1, 1978
Drilling Completed November 9, 1978
Initial open flow 7 MCFD ~~XXX~~ bbls.
Final production 247 M/D ~~XXX~~ per day bbls.
Well open 4 hrs. before test 1140 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Size)
Size 20-16			
Cond. 13-10"			
9 5/8	203	203	100 sax=to surface
8 5/8			
7	2472	2472	75 sax=625 feet
5 1/2			
4 1/2		4921	200 sax-2400'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" csg. 4550' to 4658' with 20 shots. Frac Marcellus Shale with 347 bbl water, 407,000 SCF nitrogen and 60,000# sand. Set drillable bridge plug at 4500' perforated 4 1/2" csg 3979' to 4118' with 20 shots. Foam frac Br. Shale with 300 bbl water, 609 SCF nitrogen and 60,000# sand.

247 MCF

Coal was encountered at None reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Brown Shale and Marcellus Depth 3979-4118 & 4550-4658
Dev Sh MRCL

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	9		
Shale			9	38		
Sand			38	60		
Shale			60	280		
Sand			280	345		
Shale			345	488		
Sand			488	510		
Shale			510	635		
Sand			635	663		
Shale			663	705		
Sand			705	755		
Shale			755	800		
Sand			800	825		
Shale			825	905		
Sand			905	935		
Shale			935	1130		
Sand			1130	1145		
Shale			1145	1195		
Sand			1195	1245		
Shale			1245	1285		
Sand			1285	1375		
Broken Sand			1375	1488		
Shale			1488	1615		
Sand			1615	1690		

(over)

* Indicates Electric Log tops in the remarks section.

47-035-1466

Formation	Color	Hard or Soft	Top Feet ²²	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1690	1720		
Maxon Sand			1720	1812		
Big Lime			1812	1965		
Shale			1965	1982		
Injun Sand			1982	2074		
Shale			2074	2433		
Coffee Shale			2433	2459		
Berea Sand			2459	2467		
Shale			2467	3660		
Brown Shale			3660	4154		
Shale			4154	4580		
Marcellus Shale			4580	4745		
Onondaga L. S.			4745	4829		
Oriskany Sand			4829	4879		
Heilderberg L. S.			4879	4931		
Log Total Depth				4931'		

Date January 9, 19 79

DEVON CORPORATION

APPROVED A. C. Toyse (Owner)

Dist. Geologist

By _____ (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

SEP 22 1978

Oil and Gas Division
OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE September 22, 1978
Company DEVON CORPORATION
Address Box 1433, Charleston, WV 25325
Farm Maywood Garnes Acres 135 ac
Location (waters) Isaacs Run
Well No. 902 Elevation 768
District Ripley County Jackson
Quadrangle Cottageville 7 1/2"

Surface Owner Maywood Garnes
Address Evans, W. Va.
Mineral Owner Maywood Garnes, et al
Address Evans, W. Va. 25241
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 1-22-79.

Robert T. Bell
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Richard Morris
PH: 354-7259 ADDRESS Grantsville, W. Va.

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 Maywood Garnes et al made to Devon & Eason and recorded on the _____ day of _____ 19____, in Jackson County, Book 131 Page 342

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, W. Va. 26505

Very truly yours, DEVON CORPORATION
(Sign Name) A. C. Youse
A. C. Youse, District Geologist
P. O. Box 1433
Street
Charleston
City or Town
West Virginia
State

Address
of
Well Operator

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

**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 M. Endicott
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, WV
 TELEPHONE 965-3379 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 5000 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 surface
8 - 5/8			
7	2500	2500	75 sax = 625 feet
5 1/2			
4 1/2		5000	200 sax = 2400 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