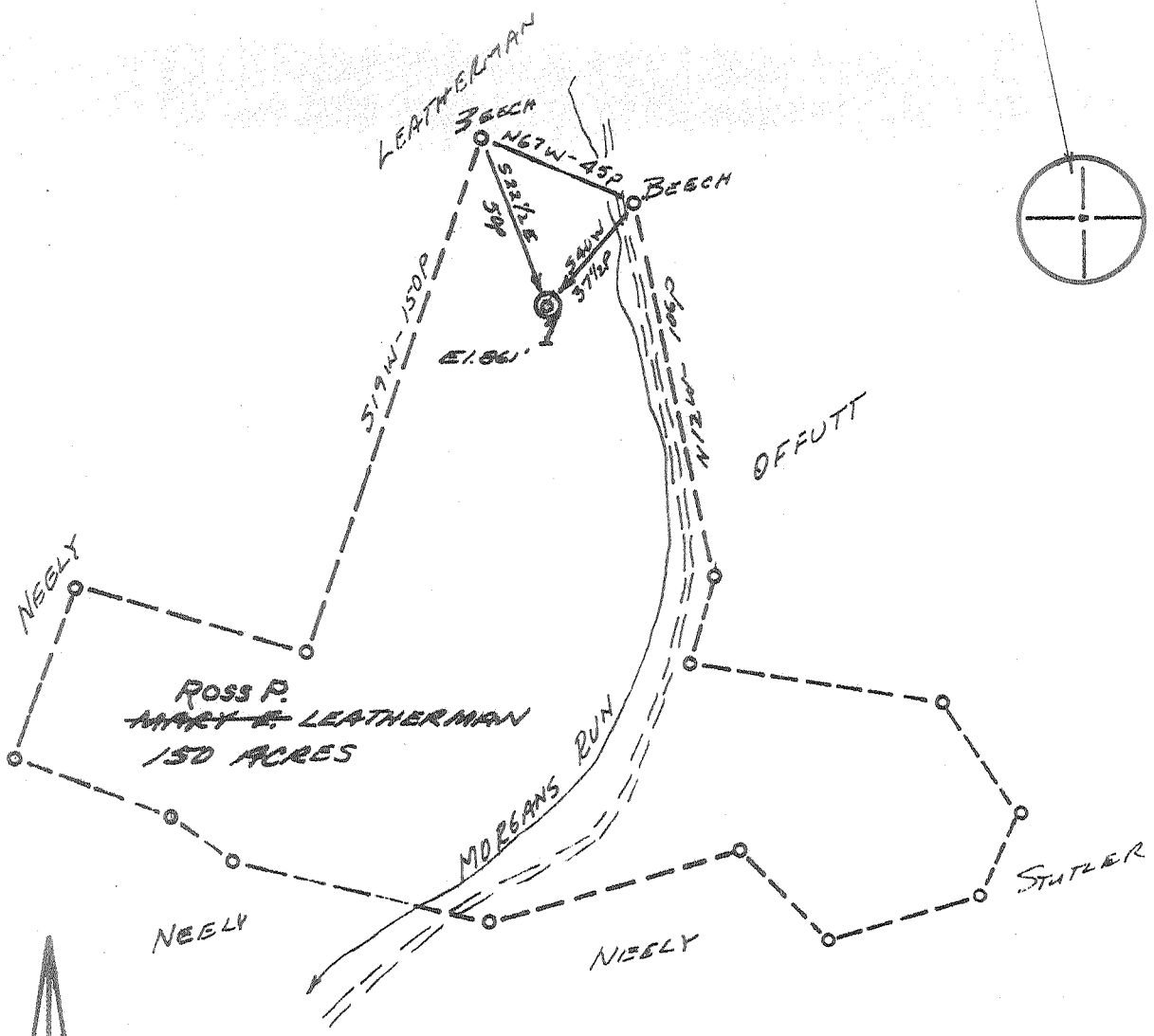


Latitude 39° 20'

2.78 Mi. S.
1.10 Mi. W.

Longitude 80° 40'



ACCURACY: 1/1200P

Source of Elevation RAILROAD @ MORGANSVILLE (812)

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

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.

Chet Waterman

Company MURKIN OIL COMPANY
 Address OLNEY, ILLINOIS
 Farm ROSS P. MARY A. LEATHERMAN
 Tract _____ Acres 150 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 861'
 Quadrangle CENTERPOINT SW
 County PORRIDGE District GRANT
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 23003-331 Drawing No. _____
 Date 7/10/73 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. ROSS-1740

⊙ 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. 47-017



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

39-30
7-34
②

Quadrangle Centerpoint
Permit No. DOD-1740

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

Company <u>Murvin Oil Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Box 297, Olney, Ill. 62450</u>	Size			
Farm <u>Leatherman</u> Acres <u>150</u>	20-16			
Location (waters) <u>Morgans Run</u>	Cond.			
Well No. <u>1</u> Elev. _____	13-10"			
District <u>Grant</u> County <u>Doddridge</u>	9 5/8			
The surface of tract is owned in fee by <u>Ross P. Leatherman, West Union, West Virginia</u>	8 5/8	490	490	140 Sks.
Address _____	7			
Mineral rights are owned by <u>(same as above)</u>	5 1/2			
Address _____	4 1/2	1865	1865	
Drilling Commenced <u>7/22/73</u>	3			
Drilling Completed <u>7/25/73</u>	2			
Initial open flow <u>150,000</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>700,000</u> cu. ft. per day _____ bbls.				
Well open <u>12</u> hrs. before test <u>60</u> RP.				

Well treatment details: Attach copy of cementing record.
Copy of Frac Bill attached
Big Injun Perforated: 1687-1700 - 10 shots
1706-1712 - 4 shots
1720-1726 - 4 shots
1729-1736 - 7 shots
1744-1752 - 10 shots

Coal was encountered at 440 Feet _____ Inches
Fresh water 80 Feet 440 Salt Water None Feet _____
Producing Sand Big Injun Sand Depth (see perforating information)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red rock			0	75		Water at 80 ft.
Shale			75	160		
Sand			160	195		Water at 440 ft.
Red rock			195	240		
Shale			240	375		
Sand			375	410		
Shale			410	650		
Red Rock			650	725		
Sand			725	740		
Slate and shells			740	1060		
Sand			1060	1100		
Slate and shells			1100	1235		
Sand			1235	1265		
Slate and shells			1265	1335		
Sand			1335	1375		
Slate and shells			1375	1600		
Big Lime			1600	1680		Gas 1680-1760
Big Injun Sand			1680	1800		
Shale			1800			
		T.D.	1953			



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUL 11 1973
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 July 11, 1973

Surface Owner Ross P. Leatherman
Address West Union, W. Va.
Mineral Owner Ross P. Leatherman
Address West Union, W. Va.
Coal Owner Ross P. Leatherman
Address West Union, W. Va.
Coal Operator None
Address _____

Company Murvin Oil Corporation,
Address Olney, Illinois 62450
Farm Ross P. Leathersman Acres 150
Location (waters) Morgans Run / Buckeye ck.
Well No. One Elevation 861'
District Grant County Doddridge
Quadrangle Centerpoint

Mr. Wm. Blosser
INSPECTOR TO BE NOTIFIED
Box 1857 PH: Fairmont
Calfax 363-9105
W. Va. 26566

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 11-11-73
Robert J. Ford
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 November 3, 1964 by Ross & Phyllis Leatherman made to Hope Natural Gas Co. and recorded on the _____ day of _____ 19____, in Doddridge County, Book 85 Page 264

_____ 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,
(Sign Name) Peter A. Morse Secy-Treas
Well Operator

Address
of
Well Operator

MURVIN OIL CORPORATION
Street
P.O. Box 297,
City or Town
Olney, Illinois 62450
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

Dodd-1740 PERMIT NUMBER
47-017

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: WARREN R. HAUGHT
 NAME GLENN L. HAUGHT & SONS NAME ~~XXXXXXXXXXXXXXXXXXXX~~
 ADDRESS Smithville, W. Va. 26178 ADDRESS Smithville, W. Va. 26178
 TELEPHONE 477-3222 TELEPHONE 477-2222
 ESTIMATED DEPTH OF COMPLETED WELL: 1950 ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: BIG INJUN
 TYPE OF WELL: OIL _____ GAS _____ COMB. XX 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			
8 - 5/8	200'	200'	70 Sacks
7			
5 1/2			
4 1/2	1950'	1950'	110 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 75 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____ 550' _____
 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