

Latitude 39° 00'

Longitude 79° 25'

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. *Paul G. Dean*

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION ~~3660~~ TGT. ELEV. NW. OF L.P. = 3550

Company TRAVERSE CORP  
 P.O. BOX 7036  
 Address TRAVERSE CITY, MICHIGAN 49604  
 Farm LAKIN W.H. WOLFORD  
 Tract 32A.17P Acres OF 143 OF 495.25 UNIT Lease No. \_\_\_\_\_  
 Well (Farm) No. ONE Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 3660  
 Quadrangle ONEGO NW  
 County TUCKER District DRY FORK  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. C.V. # 2-23 Drawing No. 73-107  
 Date OCT 31, 1973 Scale 1" = 20' POLAR = 330'

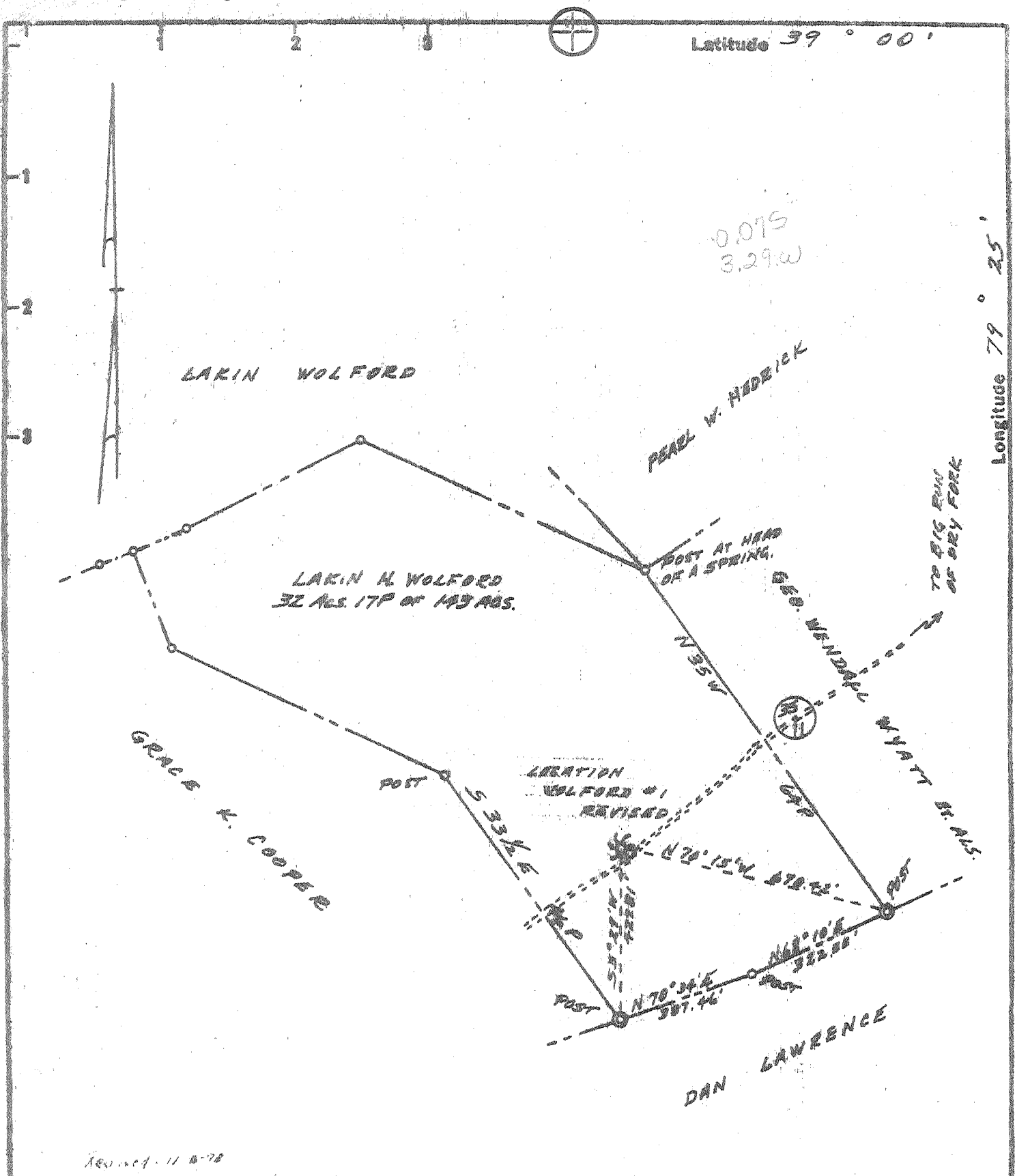
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. TUC-41

+ 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.

**47-093**



Revised 11-10-78

Fracture   
 Before 6/5/29   
~~Abandonment~~   
 Drill Deeper   
 Redrill   
 Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. *Paul Dean*  
 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.  
 PROVEN ELEVATION ~~AND THE ELEVATION OF LOG = 3660~~

Company TRAVERSE CORP.  
 Address PO. BOX 7036 TRAVERSE CITY, MICHIGAN 49684  
 Farm LAKIN W. H. WOLFORD  
 Tract 32A.17P Acres OF 143 OF 143.35 UNIT Lease No. \_\_\_\_\_  
 Well (Farm) No. ONE Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 3660  
 Quadrangle ONEGO NW  
 County TUCKER District DRY FORK  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. C.V. # 2-23 Drawing No. 73-107  
 Date OCT 31, 1973 Scale 1" = 20 POLES = 330'

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

WELL LOCATION MAP  
 FILE NO. TUC-41-P

⊕ 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.

47-093



RECEIVED

FEB 27 1974

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

39-00  
① 1-2

Quadrangle Onego

Permit No. TUC-41

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas ✓  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal Dry Hole c. hole  
(Kind)

Company Traverse Corporation  
Address P.O. Box 1036 Traverse City, Mich.  
Farm Lakin W. Wolford Acres 143  
Location (waters) \_\_\_\_\_  
Well No. 1 Elev. 3671 KB  
District Dry Fork County Tucker  
The surface of tract is owned in fee by \_\_\_\_\_  
Lakin W. Wolford  
Address 11 Russell Ave. Gaithersburg, Md.  
Mineral rights are owned by Lakin W. Wolford  
Address same as above  
Drilling Commenced 12-7-73  
Drilling Completed 2-7-74  
Initial open flow Dry cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ 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" 13-3/8	79'	79'	Cmtd w/50 sx common
9 5/8	3193.93'	3193.93'	Cmtd w/950 sx common + 2% gel + 2% calcium chloride
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at none Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 148' & 1040' Feet \_\_\_\_\_ Salt Water 8750' Feet \_\_\_\_\_  
Producing Sand Dry & Abandoned Depth 8770'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale & lime			0	562		Fresh water at 140'
Shale & sandstone			562	647		
Lime			647	890		
Shale & lime			890	930		
Shale & limey sand			930	989		
Red rock & shale			989	1190		Water at 1040'
Shaley sand & shale			1190	1370		
Shale			1370	1502		
Sand			1502	1710		
Sand & shaley sand			1710	2300		
Lime & sand			2300	2370		
Sand & shaley sand			2370	2545		
Shale			2545	2688		
Sand			2688	2820		
Shale			2820	3040		
Sand white			3040	3090		
Sand & shale			3090	3610		
Sand			3610	3740		
Sand & sandy shale			3740	3940		
Shale & sandy shale			3940	4630		
Shale			4630	4750		
Shaley sands & siltstone			4750	5230		
Shaley sand & shale			5230	5540		

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 8 1974

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sandy shale & shale			5540	6510		
Sand w/shale streaks			6510	6540		
Shale			6540	6730		
Sand & lime			6730	6790		
Shale			6790	7110		
Sand & shaley sand			7110	7160		
Shale & sandy shale			7160	7850		
Shale			7850	7980		
Limestone (Tully)			7980	8010		
Shale			8010	8340		Gas on connection at 8030'
Siltstone			8340	8400		est. 100 MCFGPD
Shale			8400	8480		
Limestone			8480	8510		
Chert			8510	8575		
Shaley Chert			8575	8595		
Shale			8595	8620		
Sandstone - Orisk.			8620	8770		T.D. salt water at 8750'
<u>*Log Tops</u>						
Tully			7972			
Onondaga			8466			
Huntersville Chert			8512			8466
Needmore			8593			3675
Oriskany			8617			4771

Date February 25 19 74

APPROVED Traverse Corporation Owner

By Franklyn R. Engler  
(Title)  
Franklyn R. Engler, Agent



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

SEP 26 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 September 24, 1973

Surface Owner Lakin W. Wolford  
Address Davis, West Virginia

Company Traverse Corporation  
Address Box 1036, Traverse City, Mich. 49684

Mineral Owner Same  
Address Same

Farm Lakin W. Wolford Acres 143 A 07  
Location (waters) Big Run / Dry Fork / Red Creek 495.55 Unit

Coal Owner None  
Address None

Well No. 1 Elevation 3557.3660'  
District Dry Fork County Tucker

Coal Operator None  
Address None

Quadrangle Davis / Dry Fork

Address None

DIRECTOR TO BE NOTIFIED Mr. Paul Thomas  
Box 120 PH: 472-6418  
Buckhannon  
W. Va. 26201

All provisions being in accordance with Chapter 26 of the W. Va. Code, the location is hereby approved for Drilling. This permit shall expire if operations have not commenced by 3-16-74.

Robert L. Fork  
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 February 28 19 64 by Lakin W. Wolford made to Mina Corporation and recorded on the 4th day of October 19 64 in Tucker County, Book 10 Page 496

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 None 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, Original signed by  
J. R. Preston, Pres.  
(Sign Name) Traverse Corporation  
Well Operator

Address  
of  
Well Operator

P. O. Box 1036  
Street  
Traverse City  
City or Town  
Michigan 49684  
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

Dec-41 PERMIT NUMBER  
47-093

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

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Unknown NAME Larry Skeen  
 ADDRESS \_\_\_\_\_ ADDRESS 216 Main Street, Ripley, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 266-6191  
 ESTIMATED DEPTH OF COMPLETED WELL: 8800 ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X 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 50' - 100'			
9 - 5/8 2000'			
8 - 5/8			
7			
5 1/2 8800'			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS unknown FEET SALT WATER unknown FEET  
 APPROXIMATE COAL DEPTHS none  
 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