

Fracture Before 6/5/29   
 New Location   
 Drill Deeper   
 Redrill   
 Abandonment   
 Issued 5/24/74

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 SET. ROAD 1200' N OF LOG. = 970

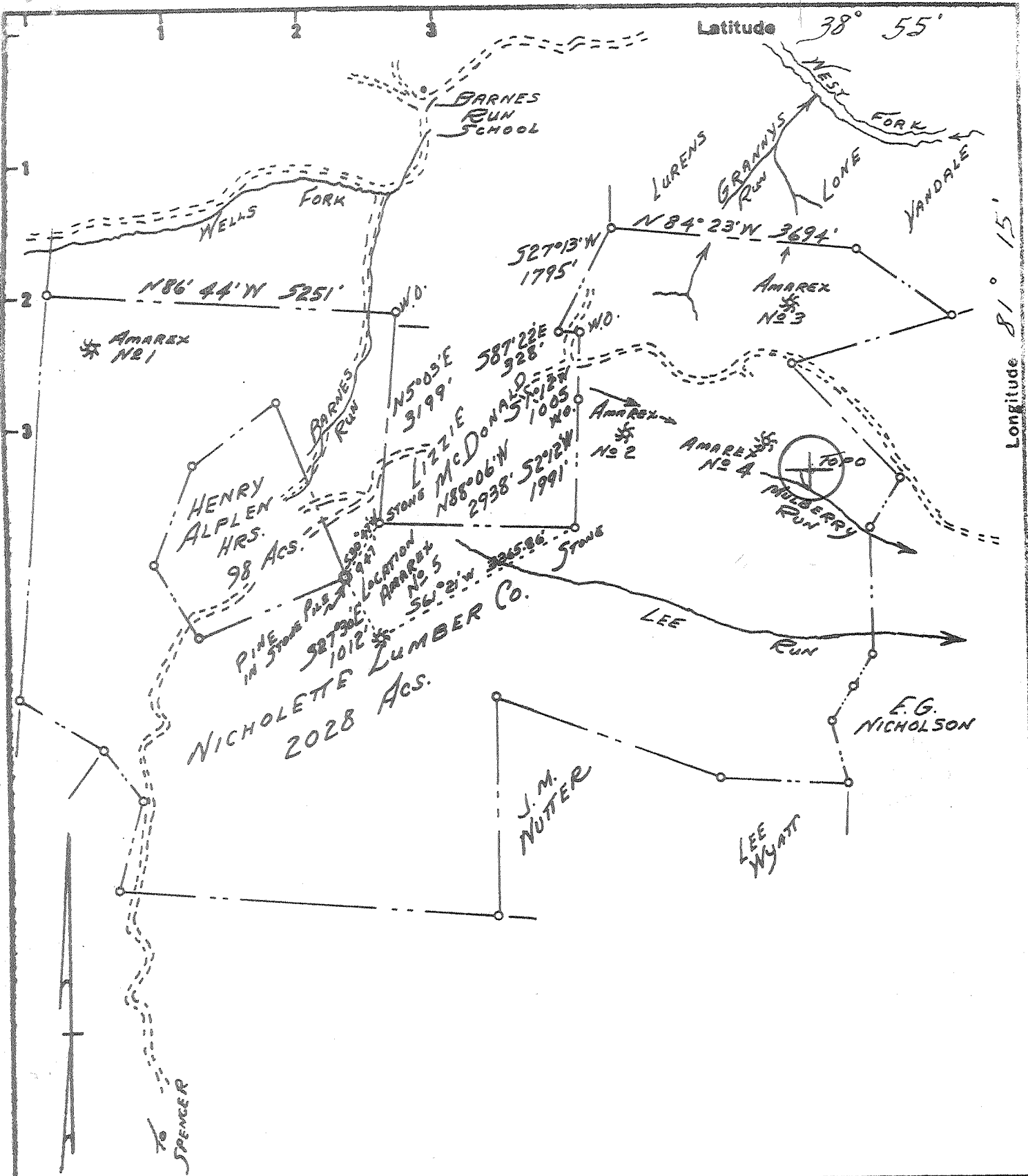
Company AMAREX, INC.  
 Address 200 NORTH HARVEY, OKLAHOMA CITY, OK. 73102  
 Farm NICHOLETTE LUMBER CO.  
 Tract 1-2-3-4 Acres 2028 Lease No. \_\_\_\_\_  
 Well (Farm) No. 5 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1060  
 Quadrangle SPENCER EC  
 County ROANE District SPENCER  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. 136-14-35 Drawing No. 73-72  
 Date JULY 19, 1973 Scale 1" = 2000'

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

**WELL LOCATION MAP**  
 FILE NO. Ro2-2002-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.

47-087 JUN 21 1974



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** *CT. BARRE 1200' N. OF LOG # 970*

Company AMAREX, INC.  
 Address 200 NORTH HARVEY, OKLAHOMA CITY, OK. 73102  
 Farm NICHOLETTE LUMBER CO.  
 Tract 1-2-3-4 Acres 2028 Lease No. \_\_\_\_\_  
 Well (Farm) No. 5 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1060  
 Quadrangle SPENCER EC  
 County ROANE District SPENCER  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. 136-14-35 Drawing No. 73-72  
 Date JULY 19, 1973 Scale 1" = 2000'

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

**WELL LOCATION MAP**  
 FILE NO. Ro2-2002

+ 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.

**47-087**



**RECEIVED**  
MAY 24 1974

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

**Oil and Gas Division**

**WELL RECORD 5**

Rotary  Cable \_\_\_\_\_ Recycling \_\_\_\_\_ Water Flood \_\_\_\_\_ Disposal \_\_\_\_\_  
Oil  Gas  Comb. \_\_\_\_\_ Storage  *Drift (K14)*

Quadrangle Spencer  
Permit No. Roa. 2002

39-00  
6-34  
(a)

Company Amarox, Inc.  
Address 200 North Harvey, Okla. City, Okla.  
Farm Nichollette Lumber Co. Acres 2028  
Location (waters) Mulberry Run  
Well No. 5 Elev. 1060  
District Spencer County Roane  
The surface of tract is owned in fee by Nichollette Lumber Co.  
Address Spencer, W. Va.  
Mineral rights are owned by Consolidated Gas Supply Co. Address Clarksburg, W. Va.  
Drilling Commenced Sept. 16, 1973  
Drilling Completed Oct. 25, 1973  
Initial open flow 0 cu. ft. \_\_\_\_\_ bbls.  
Final production 0 cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 20"	30'	30'	To Surface
13-10" 13 3/8	207	207	To Surface
9 5/8	2181	1200'	190 G.F.
8 5/8			
7			
5 1/2			
4 1/2	5925	3325	1000 G.F.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Gel water fracked. Brown Shale (5788' to 5846') Final open flow Marcellus  
Gel water fracked Sycamore grit. (5066 to 5078- small show gas. 443  
Gel water fracked Benson sand. (1436 to 1493 could not break 435  
formation down.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water 1475 Feet \_\_\_\_\_  
Producing Sand None Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay	Yellow	Soft	0	4		
Shale	Grey	Soft	4	107		
Sand	Grey	Hard	107	142		
Red Rock	Red	Soft	142	150		
Sand	White	Med.	150	220		
Shale	Grey	Soft	220	380		
Shale & R.R.	Red	Soft	380	1095		
Shale	Grey	Med.	1095	1465	Water	1475 Damo
Sand	White	Med.	1465	1515		
Sand & Sha	Grey	Med.	1515	1605		
Sand	Grey	Hard	1605	1630		
Shale	Grey	Med.	1630	1795		
Sand	Grey	Hard	1795	1985		
Lt. Lime	Grey	Hard	1985	2040		
B. Lime	L. Grey	Hard	2040	2107		
Injun Bd.	Brown	Hard	2107	2120		

(over)

\* Indicates Electric Log tops in the remarks section.

JUN 21 1974

Formation	Color	Hard or Soft	Top Feet &	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Grey	Med.	2120	2150		
Squaw	Grey	Hard	2150	2155		
Shale	Grey	Soft	2155	5956		
Limo Onond.	Grey	Hard	5956	6000		
Chert Hunt.	Grey	Hard	6000	6080		
Oriskany Sd.	White	Hard	6080	6100		

*all explor. Ct.*

*from gamma ray log*

Top of  
 Onondaga 5856  
 Oriskany 6066  
 Helderberg 6108  
 J. F. L.

*5956 6080  
 1060 6066  
 61896 5000*

Date May 25, 1929

APPROVED AMAREX - Inc Owner

By W. P. Shackelford Dist. Prod. S-P  
 (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG 9 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 31, 1973

Surface Owner Nicholette-Lumber Co.

Company Amarex, Inc.

Address Spencer, W. Va.

Address 109 Valley Dr., Ripley, W. Va.

Mineral Owner Consolidated Gas Supply Corp.

Farm Nicholette-Lumber Co Acres 2028

Address Clarksburg, W. Va.

Location (waters) Mulberry Run

Coal Owner None

Well No. 5 Elevation 1060

Address \_\_\_\_\_

District Spencer County Roane

Coal Operator None

Quadrangle Spencer

Address \_\_\_\_\_

INSPECTOR TO BE NOTIFIED

Box 221 PH 354-6731

Spentaville  
W. Va. 26147

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 12-9-73.

Robert L. 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 Mar. 29 1913 by John J. Carter made to Carter Oil Co. and recorded on the 9 day of April 1913, in Roane County, Book 22 Page 240

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) W.P. Shockey

Well Operator

Address of Well Operator

109 Valley Drive

Street

Ripley

City or Town

W. Va.

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

Roa-2002

PERMIT NUMBER

47-087

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:  
 NAME Lohman Johnson NAME W. P. Shockley  
 ADDRESS Charleston, W. Va. ADDRESS 199 Valley Dr., Ripley, W. Va.  
 TELEPHONE 304-343-0185 TELEPHONE 304-372-8211  
 ESTIMATED DEPTH OF COMPLETED WELL: 6135 ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XX 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 <del>XX</del>	20 Ft.	20 Ft.	To Surface
13 <del>XX</del>	200 Ft.	200 Ft.	To Surface
9 - 5/8	2185 Ft.	2185 Ft.	75 Bags
8 - 5/8			
7			
5 1/2			
4 1/2	6135 Ft.	6135 Ft.	125 Bags
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 160 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ 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