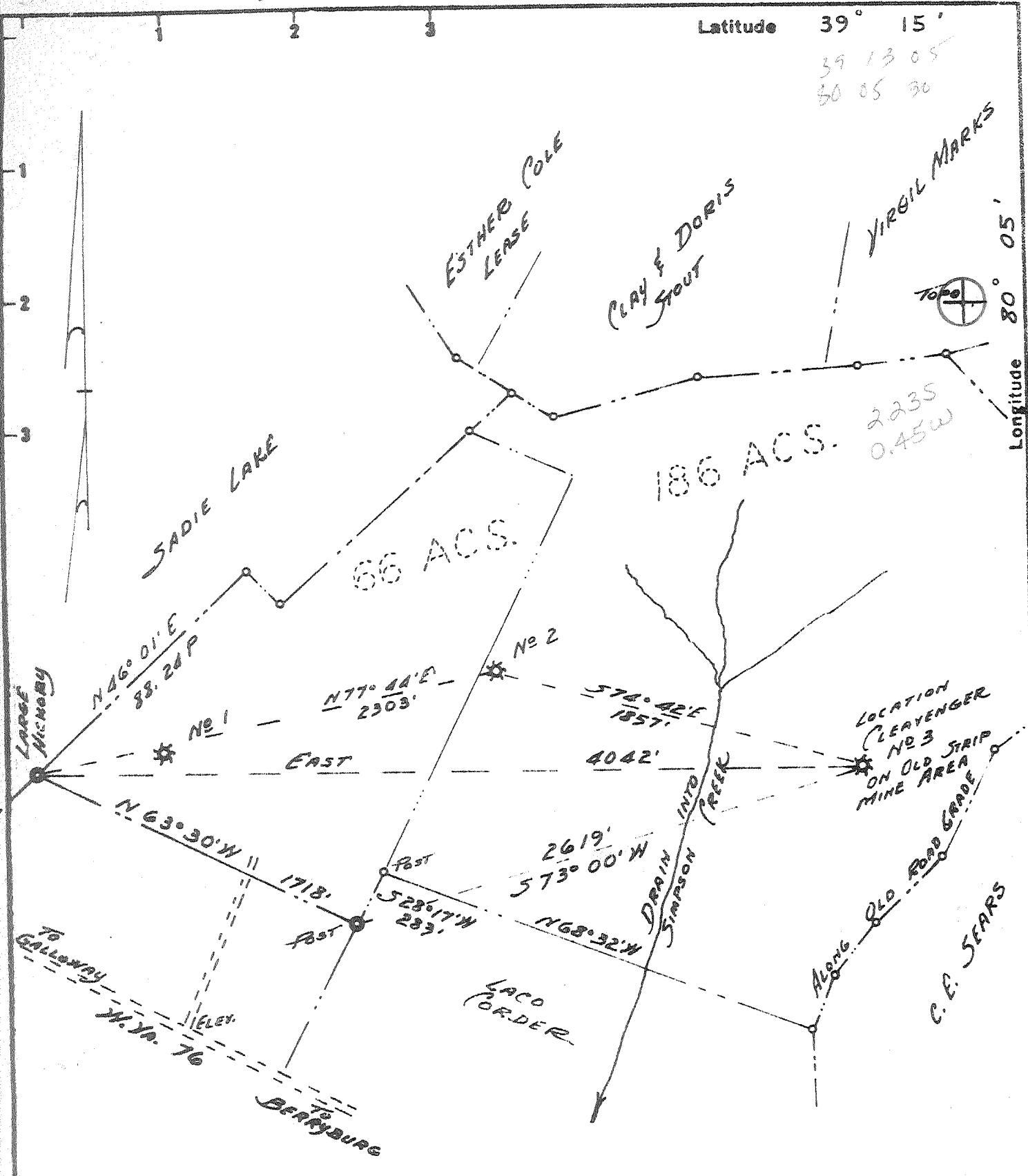


3.14.75
39 13 05
80 05 30



- 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 SCT. FARM RD. 2500' SW OF LOC. 1127

Company UNION DRILLING, INC.
 Address Box 387, BUCKHANNON, WVA.
 Farm W. D. CLEAVENGER
 Tract 1 & 2 Acres 252 Lease No. C. E. A. A-8082
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 1370
 Quadrangle PHILIPPI NC
 County BARBOUR District PLEASANT
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. 136-11-42 Drawing No. 75-17
 Date MARCH 4, 1975 Scale 1" = 40P = 660'

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

WELL LOCATION MAP
 FILE NO. Bar-702

+ 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.

47-001



RECEIVED

FEB - 2 1975

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

Oil and Gas Division
DEPT. OF MINES

Quadrangle Phillipi

Permit No. BAR-702

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

Company UNION DRILLING, INC.
Address P.O. Drawer 40, Buckhannon, WV 26201
Farm W. D. Cleavenger Acres 252
Location (waters) Drain into Simpson Creek
Well No. (3) 339-CH Elev. 1370'
District Pleasant County Barbour
The surface of tract is owned in fee by _____
W. D. Cleavenger Heirs
Address Rt. 2, Box 156, Flemington, WV 26347
Mineral rights are owned by W. D. Cleavenger Heirs
Address Rt. 2, Box 156, Flemington
Drilling Commenced May 16, 1975
Drilling Completed May 26, 1975
Initial open flow Benson-30M cu. ft. _____ bbls.
Riley Show
Final production 750M cu. ft. per day _____ bbls.
Well open 16 hrs. before test 1440 lbrp.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	29.70'	29.70'	
7			
5 1/2			
4 1/2	949.20'	949.20'	200 sks
3			
2	4561.65'	4561.65'	160 sks
Liners Used			

Well treatment details:

Attach copy of cementing record.

2 Stage - Water Frac - Benson - 602 BBL - 30,000 lb sand
Riley - 460 BBL - 23,000 lb sand

750 MCF

Coal was encountered at 742' - 749' Feet 7' Inches
Fresh water 18' 1" - 998' 2" Feet _____ Salt Water _____ Feet _____
Producing Sand _____
Benson Depth 4455/4461
Riley 4150/4158

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			0	490		
Shale			490	518		Water @ 18' - 1" Stream
Sand and Shale			518	580		
Sand			580	742		
Coal			742	749		
Sand and Shale			749	958		
Sand and Shale			958	1020		Water @ 998' - 2" Stream
Sand			1020	1040		
Sand and Shale			1040	1161		
Sand and Shale			1161	1442		
Sand and Shale			1442	1542		
Lime			1542	1620		
Injun Sand			1620	1760		
Shale			1760	1940		ck gas @ 1761' 2/10 2"
Sand			1940	1965		ck gas @ 1881'
Shale			1965	1995		
Sand and Shale			1995	2100		
Shale			2100	2170		
Sand			2170	2180		
Shale			2180	2190		
Shale and Sand Strangers			2190	2580		
Shale			2580	3040		
Sand			3040	3050		

* Indicates Electric Log tops in the remarks section.

(over)

TD 4650

Formation	Color	Hard or Soft	Top Feet /	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			3050	3080		
Sand			3080	3100		
Shale and sand stringers			3100	4150		
Riley			4150	4160		Ck. gas @ 4000' - No reading
Shale			4160	4450		
<u>Benson Sand</u>			4450	4462		Ck. gas @ 4313' - No show
Shale			4462	4650		
						<u>TOTAL DEPTH</u>

Date January 30, , 1976

APPROVED UNION DRILLING INC. , Owner

By Thomas B. Dunn
 Thomas B. Dunn (Title) President



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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MAR 10 1975

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPARTMENT OF MINES

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

Kitty Webb Cleavenger, in her own Right & as Adm. of the W. B. Cleavenger & Agent for the W. B. Cleavenger Heirs

DATE March 7, 1975

Company Union Drilling, Inc.

Address Route 2, Box 156, Flemington, WV 26347

Address P. O. Drawer 40, Buckhannon, WV 26201

Mineral Owner (Same as above)

Farm W. D. Cleavenger Acres 252

Address Kitty Webb Cleavenger, in her own Right & as Adm. Coal Owner & Agent of the W. B. Cleavenger Heirs

Location (waters) Drain into Simpson Creek

Coal Owner

Well No. (3) Elevation 1370

Address (Same as above)

District Pleasant County Barbour

Coal Operator

Quadrangle Phillippi

Address

INSPECTOR TO BE NOTIFIED

Paul Thomas

THIS PERMIT MUST BE POSTED AT THE WELL SITE

Buckhannon PH: 472-6418
Card

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 7-10-75

Robert L. Jones

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 May 1, 1962 by W. B. Cleavenger made to C & A & Assigned to U. D. I. and recorded on the 16th day of May 1962, in Barbour County, Book 46 Page 80

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 this 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
AC 304-296-4461

Very truly yours, UNION DRILLING, INC.

(Sign Name) John M. Williams
John M. Williams, Well Operator, Vice President

Address of Well Operator

P. O. Drawer 40
Street

Buckhannon
City or Town

West Virginia 26201
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

Bar-702

PERMIT NUMBER

47-001

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 Union Drilling, Inc. NAME John M. Williams
 ADDRESS P. O. Drawer 40, Buckhannon, WV 26201 ADDRESS P. O. Drawer 40, Buckhannon, WV 26201
 TELEPHONE (304) 472-4610 TELEPHONE (304) 472-4610
 ESTIMATED DEPTH OF COMPLETED WELL: 4,500' ROTARY X CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Benson
 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 13"	15'	15'	10 Sacks
9 - 5/8			
8 - 5/8	900'	900'	120 Sacks
7			
5 1/2			
4 1/2	4,500'	4,500'	100 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS ? FEET SALT WATER FEET
 APPROXIMATE COAL DEPTHS ?
 IS COAL BEING MINED IN THE AREA? ? 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