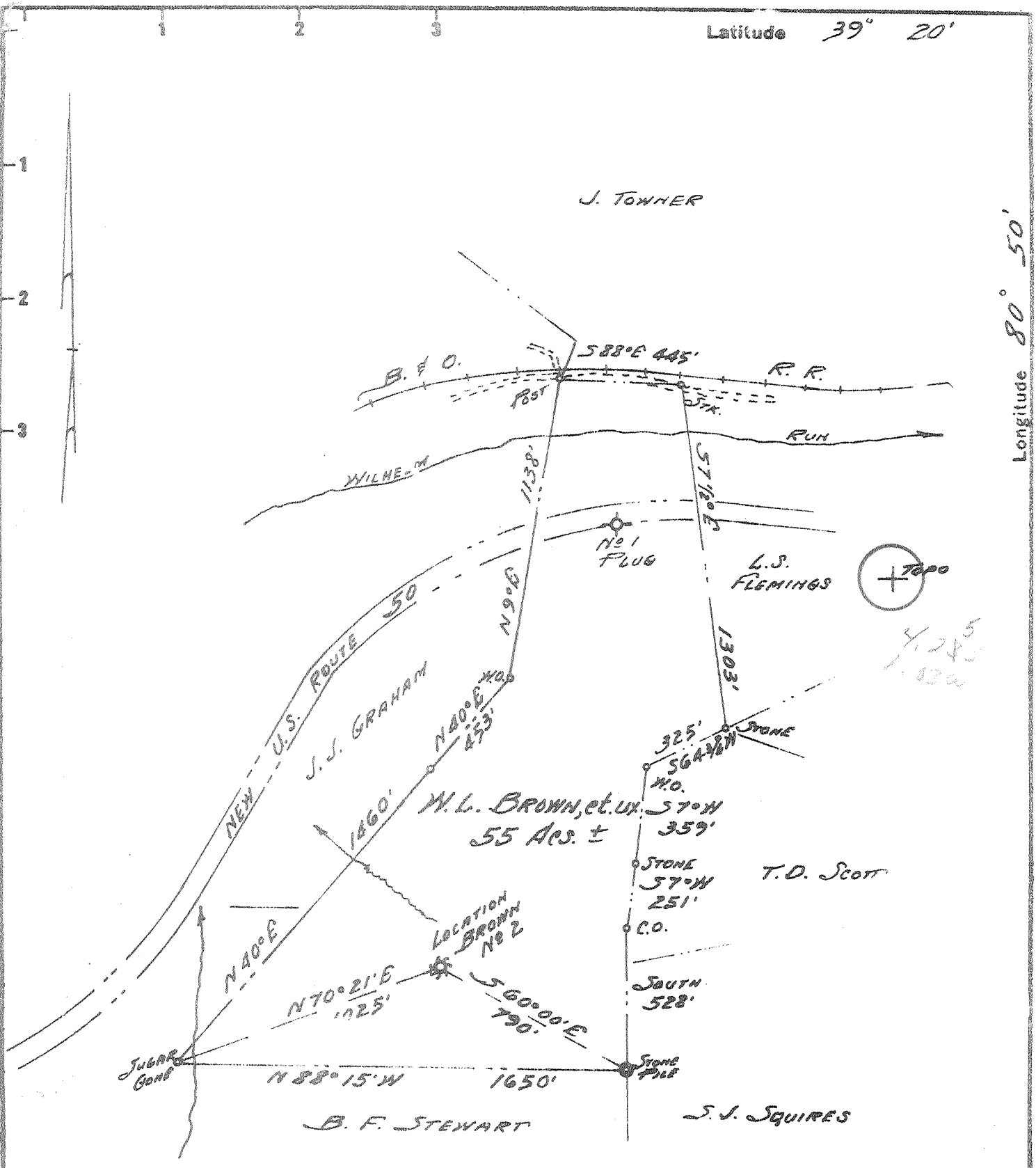


Latitude 39° 20'

Longitude 80° 50'



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

Company N.G. Clark, dba: MOUNTAINEER OIL & GAS CO. 25322
 Address Box 427, CHARLESTON W.VA.
 Farm W.L. BROWN, et. ux.
 Tract 1 Acres 55 ± Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 1015
 Quadrangle WEST UNION SC
 County DODDRIEGE District CENTRAL
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. 136 Drawing No. 73-92
 Date SEPT. 26, 1973 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. Deed-1753

+ 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



RECEIVED
DEC 21 1973

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 2

Quadrangle West Union

Permit No. DOD 1753
47-017

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

Company N. G. Clark
Address P. O. Box 427 Charleston, WV 25322
Farm Mary L. Brown Acres 55+
Location (waters) Wilhelm
Well No. 2 Elev. 1015
District Central County Doddridge
The surface of tract is owned in fee by _____
Mary L. Brown
Address Monongah, WV
Mineral rights are owned by Same
_____ Address _____
Drilling Commenced Oct. 22, 1973
Drilling Completed Nov. 2, 1973
Initial open flow _____ cu. ft. _____ bbls.
Final production 254,000 cu. ft. per day _____ bbls.
Well open 4 hrs. before test 425 RP.

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	220	220	Cemented to surface
7			
5 1/2			
4 1/2	2250	2250	Cemented with 50 bags.
3			
2	2230	2230	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fract 11-26-73 with 700 Bbls water, 25,000lbs sand.

250 mcf

Coal was encountered at None Feet _____ Inches _____
Fresh water None Feet _____ Salt Water _____ Feet _____
Producing Sand In jun Depth 2160 - 2216

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock	Red	Soft	0	50		
Lime	White	Hard	50	75		
Red Rock	Red	Soft	75	85		
Sand	White	Hard	85	100		
Sand	White	Hard	100	200		
Shale	Grey	Soft	200	230		
Sand	White	Hard	230	275		
Red Rock	Red	Soft	275	285		
Sand	White	Hard	285	304		
Red Rock	Red	Soft	304	320		
Sand	White	Hard	320	405		
Shale	Grey	Soft	405	535		
Red Rock	Red	Soft	535	545		
Sand	White	Hard	545	560		
Shale	Grey	Soft	560	575		
Sand	White	Hard	575	600		
Red Rock	Red	Soft	600	665		
Sand	White	Hard	665	830		
Shale	Grey	Soft	830	835		
Lime	White	Hard	835	970		
Shale-RR	Reddish	Soft	970	1020		
Sand	White	Hard	1020	1095		
Lime	White	Hard	1095	1220		
Red Rock	Red	Soft	1220	1240		

(over)

* Indicates Electric Log tops in the remarks section.

JAN 11 1974

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand	White	Hard	1040	1720		
Shale	Grey	Soft	1720	1800		
Lime	White	Hard	1800	1840		
Shale	Grey	Soft	1840	1870		
Sand	White	Hard	1870	1935		
Shale	Grey	Soft	1935	1960		
Lime	White	Hard	1960	2170		
Sand - <i>Injan</i>	White	Hard	2170	2210		
Shale	Grey	Soft	2210	2270		

Date December 3, 1973

APPROVED N. G. Clark, Owner

By N. G. Clark, Owner
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 12, 1973

Surface Owner W. L. Brown (Mary F)

N. G. CLARK DBA/
Company Mountaineer Oil & Gas Co. XXXXXXXXXX

Address Monongah, WV

Address P. O. Box 427, Charleston, WV 25322

Mineral Owner Same

Farm W. L. Brown (Mary F.) Acres 55+

Address Same

Location (waters) Wilhelm Run / Arnold Creek

Coal Owner No Coal

Well No. 2 Elevation 1015

Address _____

District Central County Doddridge

Coal Operator None

Quadrangle West Union

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 2-12-74.

T. G. Clark
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED W. Blosser
Box 1857
Colfax, WV. PH: 363-9105

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 Feb. 1, 1973 by Mary F. Brown made to N. G. Clark and recorded on the 28th day of March 1973 in Doddridge County, Book 97 Page 47

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 Oct. 12, 1973 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) N. G. Clark
Well Operator

Address
of
Well Operator

P. O. Box 427
Street
Charleston,
City or Town
West Virginia 25322
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

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Bud Spencer _____ NAME N. G. Clark _____
 ADDRESS West Union, WV _____ ADDRESS P. O. Box 427 Charleston, WV25322 _____
 TELEPHONE 873-2381 _____ TELEPHONE 342-0991 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2150 _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: _____
 TYPE OF WELL: OIL GAS 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			
8 - 5/8	200'	200'	Cement to surface
7			
5 1/2			
4 1/2		2150'	Fill up approx. 400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET Fresh 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