



- Fracture.....
- Rede H.....
- New Location
- Well deeper.....
- Abandonment.....

Source of Elevation ROAD FORKS, ELEV. 1073'

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.

Minimum accuracy, one part in 200

Company St. Clair Oil Co. - GAS CO.
 Address 219 1/2 Main St. ST. CLAIRSVILLE, OHIO, 43950
 Farm ELLA L. MAXWELL et al.
 Tract _____ Acres 169 Lease No. 24742-1
 Well (Farm) No. 1 Serial No. 31866
 Elevation (Spirit Level) 1109'
 Quadrangle WESTON SE2° EC
 County HARRISON District ELK
 Engineer James J. Jeffries
 Engineer's Registration No. 1084
 File No. 209/62 Drawing No. _____
 Date 12-22-69 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. HAR-626

+ 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.

AUG 10 1972



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DEC 11 1972

Mineral rights:

Willa Robey, 210 Fairview Ave., Clarksburg, W. Va. 26301 1/2

Ella L. Maxwell, Lost Crk. W. VA. 1/4 STATE OF WEST VIRGINIA

Francis Vieweg, 39 Walnut Ave. Wheeling, W. Va. 26061 1/4

DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD /

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

Quadrangle Weston S-E

Permit No. HAR 626
O.S.W. 31866

Company St. Clair Oil Co.
Address 219 E. Main St., St. Clairsville, O. 43950
Farm Ella L. Maxwell Acres 169
Location (waters) Rooting Creek
Well No. One Elev. 1109
District Elk. County Harrison

The surface of tract is owned in fee by 1/2-Ella Maxwell
and 1/2 Francis Vieweg, Lost Creek, W. Va. and
39 Walnut Ave. Wheeling, W. Va., respectively

Mineral rights are owned by See notation at top of
page. Address _____

Drilling Commenced Aug 1, 1972
Drilling Completed Oct 11, 1972
Initial open flow 21,000 cu. ft. _____ bbls.
Final production 411,000 cu. ft. per day _____ bbls.
Well open One hr. hrs. before test 1200 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10 3/4	2	452	220 sks.
9 5/8			
8 5/8	1242	200	
7	2019	400	
5 1/2		4424	636 sks.
4 1/2			
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
500 gal. acid 1031 bbl. water 30,000 lbs. 20-40 sand, 30,000 10-20 sand, 32.22 bbl. min brack
1350 lbs. treat 2,500 lbs. to 2100 lbs. 32.22 bbl min r.p., 1200 lbs. 24 hrs. 1340 lbs. 17 days.

Coal was encountered at None Feet _____ Inches _____
Fresh water 80-160 Feet _____ Salt Water 1070-1845-2362 Feet _____
Producing Sand Benson Depth 4324-2348 4339-46 gas pay

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red rock			0	80		Water 80 ft. 3 bailers hr.
slate			80	160		
sand			160	180		Water 160 H.F.
slate			180	230		
red rock			230	320		
sand			320	390		
slate			390	413		
lime			413	430		
sand			430	460		
lime			460	650		
sand			650	670		
slate, black			670	742		
sand			742	780		
slate, black			78-0	860		
sand			860	987		
slate			987	1027		
sand			1027	1137		Water 1070 H.F.

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet /	Bottom Feet	Oil, Gas or Water	* Remarks
Lime			1137	1150		
Redrock			1150	1280		
Sand			1280	1292		
Lime			1292	1307		
Sand			1307	1335		
Redlime			1335	1380		
Lime			1380	1400		
Lime, Red			1400	1420		
Slate, soft			1420	1465		
Red rock			1465	1475		
Big Lime			1475	1548		
Big injun			1548	1664		Gas 1610 show
Lime			1664	1810		
Sand			1810	1905		Oil 1810 1815 Show
Red Rock			1905	1907		Water 1845-1850 H.F.
Lime			1907	2082		Gas 1871-1881 Good Show
Sand			2082	2100		
Slate			2100	2236		
Sand			2236	2314		
Lime			2314	2352		Gas- Oil- Water
Slate			2352	2381		2362-2367 Show
Sand			2381	2400		
Lime			2400	2429		
Slate			2429	2455		
Sand			2455	2480		
Slate			2480	4072		
<u>Benson</u>			4072	4124		
Slate			4124	4302		
Drill T.D. 4000			4302	4320		Gas 4313, 4320, 21,000
Log T.D. 4426			4320	4400		gas 4339-46 Log

driller

Gas 4313, 4320, 21,000

gas 4339-46 Log

* Top Benson Log 4324

* Bottom Benson Log 4348

use log tops + pay

Date Nov. 29, 1972

APPROVED St. Clair Oil Co., Owner

By *Harry Allen* President
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 1 1972

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 28, 1972

Surface Owner _____

Company St. Clair Oil Company

Address _____

Address 219 E. Main St. St. Clairsville, Oh 43950

Mineral Owner _____

Farm Ella L. Maxwell et. al Acres 169

Address _____

Location (waters) Rooting Creek

Coal Owner _____

Well No. One Elevation 1109

Address _____

District Elk County Harrison

Coal Operator None

Quadrangle Weston S. D. 1

Address _____

Surface & Coal Owner
Ella Louise Maxwell
Lost Creek, W. Va. 26385 1/2

Mineral Owner
Willa Robey
210 Fairview Ave.
Clarkeburg, W. Va. 26301 1/2

Francis H. Vieweg
39 Walnut Ave.
Wheeling, W. Va. 1/2

Francis H. Vieweg
39 Walnut Ave.
Wheeling, W. Va. 26003 1/2

Ella Louise Maxwell
Lost Creek, W. Va. 26385 1/2

William Blosser

INSPECTOR TO BE NOTIFIED
Colfax, W.Va. 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 November 1 1962 by Ella L. Maxwell et. al. made to Equitable Gas Co and recorded on the 4 day of December 1962, in Harrison County, Book 869 Page 556

Not 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, St. Clair Oil Company
(Sign Name) Harry Blosser President
Well Operator

Address of Well Operator _____
219 East Main Street
Street
St. Clairsville
City or Town
Ohio 43950
State

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 operations here not commenced by 12-2-72
This permit shall expire if
Deputy Director - Oil & Gas Division

*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.

HAR-626

PERMIT NUMBER

BLANKET BOND

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

PROPOSED WORK ORDER TO Drill DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Leon D. Harpold _____
 ADDRESS _____ ADDRESS Rt. 3 Box 260-C Weston, W. Va. _____
 TELEPHONE _____ TELEPHONE 304-269-4005 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4450 _____ ROTARY _____ CABLE TOOLS Cable _____
 PROPOSED GEOLOGICAL FORMATION: Benson _____
 TYPE OF WELL: OIL _____ GAS 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	25	450	
13 - 10 10	450		Fill to top
9 - 5/8			
8 - 5/8 8 5/8	1225		
7 7	2025		
5 1/2			
4 1/2 4 1/2		4450	375 SXS
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 300 FEET _____ SALT WATER 650-850 FEET 1175-1820
 APPROXIMATE COAL DEPTHS 160 _____
 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