



- Fracture....
- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Source of Elevation Rd. Fk. at Low Gap School, Elev 993'
 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	<u>Equitable Gas Co.</u>	
Address	<u>Pittsburgh, Pa 15219</u>	
Farm	<u>(Louise Ferguson Hrs.)</u>	
Tract	Acres <u>50</u>	Lease No. <u>26190</u>
Well (Farm) No.	<u>2</u>	Serial No. <u>5481</u>
Elevation (Spirit Level)	<u>1180.77</u>	
Quadrangle	<u>West Union 5224 EC</u>	
County	<u>Tyler</u>	District <u>No. Elroy</u>
Engineer	<u>R. A. McMillin</u>	
Engineer's Registration No.	<u>105 L.L.S.</u>	
File No.	<u>222/102</u>	Drawing No.
Date	<u>8-1-73</u>	Scale <u>1" = 500'</u>

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

WELL LOCATION MAP
 FILE NO. Tyler-464-Red (W)

+ 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.



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OIL & GAS DIVISION
DEPT. OF MINES

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

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

Quadrangle West Union S.E. 2.1
Permit No. TYL-464-Red
(W)

Company Equitable Gas
Address Pittsburgh, Pa. 15219
Farm Robert D. Ferguson Acres 50
Location (waters) Jefferson Run
Well No. 5481 Elev. 1180.77
District McElroy County Tyler
The surface of tract is owned in fee by _____
Delbert L. Haught
Address Wilbur, W. Va. 26459
Mineral rights are owned by Thelma Ferguson
Address Central Station, W.Va.
Re Drilling Commenced 9-28-73
Re Drilling Completed 2-28-74
Initial open flow _____ 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- 16 "	39	39	20 sks. to surf
9 5/8			
8 5/8 *	920	920	425 sks. to surf
7 **			
5 1/2			
4 1/2	2089	2089	275 sks. to 720 gel to surface.
3			
2			
Liners Used			

Attach copy of cementing record.

* Old 8 5/8" in hole from 940 to 1240

** Old 7" in hole from 1672 to 2054

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun gas storage Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Pittsburgh Coal (Est.)			770	773		
Murphy Sand			1050	1072		
Little Dunkard Sand			1172	1179		
Big Dunkard Sand			1214	1256		
Gas Sand			1308	1328		
Salt Sand			1420	1856		
Maxton Sand			1886	1940		
Little Lime			1992	2010		
Big Lime			2020	2078		
<u>Big Injun Sand</u>			2088	2244		
Weir Sand			2396	2492		
Gantz Sand			2600	2622		
Gordon Stray Sand			2686	2742		
<u>Gordon Sand</u>			2794			
Redrilled to				2813		
Cement Plug Back to				2120		
					Total Depth	

Note: Gamma Log from surface to 2813.

2020
1181

839

(over)

* Indicates Electric Log tops in the remarks section.



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SEP 4 1973

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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 August 22, 1973

Surface Owner Delbert L. Haught
Address Wilbur, W. Va. 26459
Mineral Owner Thelma Ferguson
Address Central Station, W. Va. 26340
Coal Owner Same as mineral owner
Address _____
Coal Operator _____
Address _____

Company Equitable Gas 15219
Address 420 Blvd. of the Allies, Pgh., Pa
Farm Robert D. Ferguson Acres 50
Location (waters) Jefferson Run / Middle Island
Well No. 1-5481 Elevation 1180.77
District McElroy County Tyler
Quadrangle West Union S.E. 2.1

week-days Mr. Paul Garrett
INSPECTOR TO BE NOTIFIED
Box 276 PH: 337-9386

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 Redrilling. This permit shall expire if
operations have not commenced by 1-4-74.

Paden City
W. Va. 26159

Robert L. Ford
Deputy Director - Oil & Gas Division

321 Beck St.
Clarksburg
W. Va. 2622-3871

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 December 1 1972 by Robert D. Ferguson made to Equitable Gas Co. and recorded on the 2nd day of March 1973 in Tyler County, Book 196 Page 4

_____ NEW WELL _____ DRILL DEEPER XX 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, [Signature]
(Sign Name) Equitable Gas Co.
Well Operator

Address
of
Well Operator

420 Blvd. of the Allies
Street
Pittsburgh
City or Town
Pa. 15219
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.

Sept-464-Red (W) PERMIT NUMBER
47-095

BLANKET BOND

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

PROPOSED WORK ORDER TO Re DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME H.E. Gardner, Div. Supt.
 ADDRESS _____ ADDRESS Box 1550, Clarksburg, W. Va. 2630
 TELEPHONE _____ TELEPHONE 624-6576
 ESTIMATED DEPTH OF COMPLETED WELL: 2120 ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE XX 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	950	950	Cem. to surface
7			
5 1/2	2085	2085	Cem. to 750', Gel to surface
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS No mineable coal
 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