



Minimum Error of Closure $\frac{1}{200}$
 Source of Elevation B.M. ON HEADWALL 1300 FEET NORTH Jct. of EAST SIDE ST. Rt. 18
STATE Rt 18 & W.V.A. Sec. Rd 34 903'

- Fracture.....
- New Location.....
- Drill Deeper.....
- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: Mark C. Echard
 Squares: N S E W

Company PETHEL OIL & GAS CO C/O BROWN AND PETHEL OIL CO.
 Address Box 21 St. Marys, W.Va. 26170
 Farm ALBERT HINTER
 Tract _____ Acres 235.72 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 913' WC
 Quadrangle NEW MILTON; Vedis 15'
 County DODDRIDGE District NEW MILTON
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date 9/4/76 Scale 1-INCH = 600'

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

WELL LOCATION MAP
 FILE NO. DOD-1833

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, 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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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

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

70 / ; ;
Quadrangle _____

Permit No. Dod. 1833
47-017

Company Brown & Petzel
Address Box 21 St. Marys, W.Va.
Farm Hinter Acres 235.72
Location (waters) Toms Fork
Well No. 1 Elev. 913
District New Milton County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling Commenced Sept. 18, 1976
Drilling Completed June 16, 1977
Initial open flow _____ cu. ft. _____ bbls.
Final production 100,000 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. 10	313	313	100 sks
10-10"	313	313	
9 5/8			
8 5/8	.687		
7	1461	700	60 sks
5 1/2		2154	
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well Fractured from 2130-2154
Date Fraced 2/9/77 1,300 bbls. & 50,000 lbs. sand

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand BIL INJUN. Depth 2154

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top soil			0	4		
Creek gravel			4	13		
Gray shale			13	87	<i>water</i>	
Red shale			87	135		
Gray shale			135	165		
Red shale			165	205		
Gray shale			205	220		
Red shale			220	245		
Gray shale			245	275		
Red shale			275	293		
Gray shale			293	313		
10 5/8 Casing 313 ft. 100 sacks of cement						
Gray shale limestone			313	318		
Red shale			318	360		
Gray shale			360	375		
Red shale			375	425		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand stone	(water at 465)		425	495		
Red shale			495	520		
Gray shale	Lime shell		520	600		
Lime stone			600	625		
Gray shale			625	670		
sand stone			670	695		
687ft. 8" casing hook wall packer						
Red shale			695	750		
Sand stone			750	785		
Red shale			785	860		
Gray shale			860	890		
Sand stone			890	900		
Gray shale			900	925		
Black shale			925	930		
Gray shale			930	960		
Red shale			960	990		
Gray shale			990	1005		
Black shale			1005	1070		
Gray shale			1070	1075		
Lime stone			1075	1105		
Gray shale			1105	1135		
Sand stone			1135	1195		
Gray shale			1195	1245		
Sand stone			1245	1287		
Gray shale			1287	1300		
Sandstone			1300	1335		
Black slate			1335	1390		
Black slate			1390	1410		
Gray shale			1410	1422		
Black shale			1422	1435		
Sandstone (Maxon) Water 1 barrel per hr.						
			1435	1465		
1460 ft 7" casing						
Lime stone	(Little)		1465	1520		
Black shale			1520	1550		
Gray shale			1550	1570		
Sand	hard		1570	1670		
Black shale			1670	1680		
Gray shale			1680	1750		
Red shale			1750	1900		
Gray shale			1900	1928		
Red shale			1928	1936		
Gray shale			1936	1975		

Date _____, 19__

APPROVED _____, Owner

By _____

(Title)

D00 - 1833

Formation	top feet	bottom feet
Big lime	1975	2050
Keener sand	2050	2070
Big Injon sand	2070	2155
Gray shale	2155	2247
Sand (Squaw)	2247	2285
Gray shale	2285	2300
Sand (Weir)	2300	2347
Gray shale	2347	2440
Sand Nerea	2440	2455
Gray shale	2455	3215
Brown shale	3215	3234
Gray shale	3234	3317
Sand stone s ^{cc}	3317	3330
Gray shale	3330	3404

3404
2155
1249 expl. H.

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OIL & GAS DIVISION
DEPT. OF MINES

DEC 6 1977

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 Leo Siegler & Son NAME Zedack Pethtel
 ADDRESS St. Marys, WV. ADDRESS Box 21, St. Marys, WV.
 TELEPHONE 665-2625 TELEPHONE _____
 ESTIMATED DEPTH OF COMPLETED WELL: 3500' ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: 5th Sand
 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	315'	315'	To Surface
9 - 5/8			
8 - 5/8	3500'	3500'	
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 310' 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