



Minimum Error of Closure 1 in 200'

Source of Elevation Elev. at terminus of Flint Run Road

at U.S. Route No. 50-938

- 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: W. S. [Signature]  
Squares: N S E W

Map No.

Company Ramco Oil & Gas Corp.  
 Address P.O. Box 99, Belpro, Ohio  
 Farm Elizabeth Davis  
 Tract Acres 3/4 Lease No. \_\_\_\_\_  
 Well (Farm) No. Five Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1103' 1103  
 Quadrangle Centerpoint SC  
 County Doddridge District Grant  
 Engineer W. S. [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Sept. 29, 1972 Scale 1" = 40 p. 660'

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

WELL LOCATION MAP

FILE NO. DOD-1705

+ 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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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Centerpoint

Permit No. DOD-1705

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

Company RAMCO Oil & Gas Corp.  
Address P. O. Box 99, Belpre, Ohio 45714  
Farm Elizabeth Davis Acres 314  
Location (waters) Flint Run  
Well No. 5 Elev. 1103'  
District Grant County Doddridge  
The surface of tract is owned in fee by.....  
Elizabeth Davis Heirs  
Address Centerpoint, W. Va.  
Mineral rights are owned by same  
Address.....  
Drilling Commenced 12/25/72  
Drilling Completed 4/11/73  
Initial open flow 13 cu. ft. bbls.  
Final production 1,300,000 cu. ft. per day bbls.  
Well open 24 hrs. before test 570# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. <del>10"</del> 3/4	764'	764'	140 sks.
9 5/8			
8 5/8	1322'		
7			
5 1/2			
4 1/2		2213'	90 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record. Lawson Cementing Co.

Fractured - 745 bbls. water; 40,000# 20/40 sand; 500# 10/20 sand;  
500 gals. regular 15% acid.

Perforations: 2124' - 2138' 7 holes; 2145' - 2147' 3 holes; 2157' - 2159' 3 holes.

Coal was encountered at 715' - 723' Feet 96" Inches  
Fresh water..... Feet..... Salt Water..... Feet.....  
Producing Sand Big Injun Depth 2111' - 2160'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Rock		Soft	0	35		
Slate		Soft	35	45		
Red Rock		Soft	45	140		
Slate		Soft	140	180		
Black Slate		Soft	180	200		
Lime & Shells		Soft	200	225		
Red Rock		Soft	225	255		
Slate & Shells		Soft	255	275		
Red Rock		Soft	275	330		
Slate		Soft	330	360		
Sand		Hard	360	369		
Slate & Shells		Soft	369	460		
Sand		Hard	460	470		
Lime		Hard	470	570		
Slate & Shells		Soft	570	685		
Red Rock		Soft	685	690		
Slate		Soft	690	715		
Coal		Soft	715	723		
Slate		Soft	723	755		
Sand		Hard	755	785		

(over)

\* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet /	Bottom Feet	Oil, Gas or Water	* Remarks
Slate & Shells		Soft	785	800		
Red Rock		Soft	800	820		
Slate & Shells		Soft	820	840		
Red Rock		Soft	840	863		
Slate & Shells		Soft	863	890		
Red Rock		Soft	890	925		
Slate & Shells		Soft	925	940		
Red Rock		Soft	940	970		
Slate & Shells		Soft	970	1030		
Red Rock		Soft	1030	1070		
Slate & Shells		Soft	1070	1150		
Pink Rock		Soft	1150	1160		
Slate & Shells		Soft	1160	1180		
Sand		Hard	1180	1195		
Black Slate		Soft	1195	1220		
Slate & Shells		Soft	1220	1260		
Gritty Lime		Hard	1260	1310		
Slate & Shells		Soft	1310	1380		
Sand		Hard	1380	1448		
Black Slate		Soft	1448	1465		
W. Slate & Shells		Soft	1465	1490		
Sand		Hard	1490	1660		
Slate & Shells		Soft	1660	1695		
Sand		Hard	1695	1710		
Black Slate & Shells		Soft	1710	1880		
Sand		Hard	1880	1929		
Pink Rock		Soft	1929	1937		
Lime		Hard	1937	1945		
Slate		Soft	1945	1947		
Lime		Hard	1947	1955		
Slate & Shells		Soft	1955	1970		
Lime		Hard	1970	2072		
Sand		Hard	2072	2084		
Lime		Hard	2084	2115		
Sand <i>Big Injun</i>		Hard	2115	2180		
Slate & Shells		Soft	2180	2217		
TD			2217			

Date July 11, 19 73

APPROVED RAMCO OIL & GAS CORP. Owner

By Neal Rudder, President  
(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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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 November 9, 1972

Surface Owner Elizabeth Davis Heirs  
Address Centerspoint, W. Va.  
Mineral Owner Elizabeth Davis Heirs  
Address Centerspoint, W. Va.  
Coal Owner Elizabeth Davis Heirs  
Address Centerspoint, W. Va.  
Coal Operator None - no coal is being mined  
Address in this area.

Company BAMCO Oil & Gas Corp.  
Address P. O. Box 99, Bolore, Ohio 43714  
Farm Elizabeth Davis Acres 214  
Location (waters) Mill Run  
Well No. 3 Elevation 1100'  
District Grant County Boothridge  
Quadrangle Centerspoint

INSPECTOR TO BE NOTIFIED Wm. Blosser  
Colfax, W. Va. PH: 363-9105

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 3-16-73

Robert K. Hodal  
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 January 10, 1972 by James F. Scott made to BAMCO Oil & Gas Corp. and recorded on the 16th day of February 1972, in Boothridge County, Book 73 Page 219  
\* 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,  
(Sign Name) Randall J. Peters Dist. Sec.  
Well Operator  
P. O. Box 99

Address of Well Operator \_\_\_\_\_  
Street \_\_\_\_\_  
City or Town Ohio 43714  
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.

BOND DRILL

*Summary*

**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 \_\_\_\_\_ NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ 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	150'	150'	150'
7			
5 1/2		2217'	350'
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 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