



Minimum Error of Closure 1 in 200'

Source of Elevation Elev. B.M. at Centerpoint = 790'

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.

- Fracture.....
- New Location.....
- Drill Diagram.....
- Abandonment.....

Signed: [Signature]
 Map No. Squares: N S E W

Company Ramco Oil & Gas Corp.
 Address P.O. Box 99, Balpara, Ohio
 Farm F.A. Smith
 Tract _____ Acres 68 Lease No. _____
 Well (Farm) No. 200 Serial No. _____
 Elevation (Spirit Level) 905
 Quadrangle Centerpoint C
 County Doddridge District McClallen
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Sept 27 1973 Scale 1" = 300' = 425'

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

WELL LOCATION MAP
 FILE NO. D00-1751

+ 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

39-30
② 5-43

Quadrangle Centerpoint

Permit No. DOD-1751

Rotary Oil
Cable Gas No. 6
Recycling Comb.
Water Flood Storage
Disposal (Kind)

Company RAMCO Oil & Gas Corp.
Address P.O. Box 99, Belpre, Ohio 45714
Farm F. A. Smith Acres 68
Location (waters) Little Battle
Well No. 1 Elev. 905'
District McClellan County Doddridge
The surface of tract is owned in fee by F. A. Smith Heirs
Address Salem, W.Va.
Mineral rights are owned by same
Address _____
Drilling Commenced 10/10/73
Drilling Completed 10/13/73
Initial open flow _____ cu. ft. _____ bbls.
Final production 1,050 MCF ft. per day _____ bbls.
Well open 24 hrs. before test 450# 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	523'	523'	120 sks.
7			
5 1/2			
4 1/2		1896'	75 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record. Lawson Cementing Co., Inc.

Fractured: DOWELL - 665 bbls. water; 30,000# 20/40 sand; 500# 10/20 sand; 500 gals. 15% HCL.

Perforated: 1861' to 1868' - 14 holes.

Coal was encountered at 472' Feet 132" Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1860' to 1879'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale		Soft	0	472		
Coal		Soft	472	483		
Sand		Hard	483	525		
Sand, Shale, RedRock		Soft	525	1275		
Sand and Shale		Soft	1275	1670		
Sand, RedRock, Lime		Soft	1670	1756		
Big Lime		Hard	1756	1856		Big Lime 1760'
Big Injun		Hard	1856	1884		Big Injun 1850'
Shale		Soft	1884	1895		

(over)

* Indicates Electric Log tops in the remarks section.

FEB 21 1974



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 October 1, 1973

Surface Owner F. A. Smith, ET AL
Address Salem, West Virginia
Mineral Owner F. A. Smith, ET AL
Address Salem, West Virginia
Coal Owner Fee
Address _____
Coal Operator None - no coal is being mined in this
Address area

Company RAMCO Oil & Gas Corp.
Address P. O. Box 99, Belpre, Ohio 45714
Farm F. A. Smith Acres 68
Location (waters) Little Battle
Well No. 1 Elevation 905
District McClellan County Doddridge
Quadrangle Centerpoint

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 2-2-74.

Robert L. Todd
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Wm. Blosser
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 December 8, 1972 by Columbia Gas Transmission Corp. made to Ramco Oil and Gas Corp. and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

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, **RAMCO OIL & GAS CORP.**
(Sign Name) Randall W. Peterson, Dist. Supt.
Well Operator

Address
of
Well Operator

P. O. Box 99
Street
Belpre
City or Town
Ohio 45714
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.

**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 _____ NAME Brad Crouse
 ADDRESS _____ ADDRESS P. O. Box 243, West Union, W.Va.
 TELEPHONE _____ TELEPHONE (304) 873-1745
 ESTIMATED DEPTH OF COMPLETED WELL: 2110 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 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	510'	510'	Surface
7			
5 1/2			
4 1/2			350'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 470
 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