



Minimum Drop of Closure Lin 200

Source of Elevation Elm. Well No 1: 1280

- 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: [Signature]
Spheres: N S E W

Map No. _____

Company Barco Oil & Gas Corp.
 Address P.O. Box 89, Belton, Ohio
 Farm H. A. Clines
 Tract _____ Acres 100 Lease No. _____
 Well (Farm) No. Two Serial No. _____
 Elevation (Spirit Level) 1280
 Quadrangle Centerpoint SC
 County Doddridge District Grant
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date March 28, 1973 Scale 1" = 400' = 660'

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

WELL LOCATION MAP

FILE NO. Rodd-1727

+ 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

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

39-30
8-4
2

Quadrangle Centerpoint

Permit No. DOD-1727

Company RAMCO Oil & Gas Corp.
Address P.O. Box 99, Belpre, Ohio 45714
Farm H. A. Clines Acres 100
Location (waters) Big Flint
Well No. 2 Elev. 1300'
District Grant County Doddridge
The surface of tract is owned in fee by _____
H. A. Clines Heirs
Address Salem, W. Va.
Mineral rights are owned by _____ same
_____ Address _____
Drilling Commenced 5/30/73
Drilling Completed 6/9/73
Initial open flow _____ cu. ft. _____ bbls.
Final production 1,380 MCF cu. ft. per day _____ bbls.
Well open 24 hrs. before test 550# 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	947'	947'	210 sks.
7			
5 1/2			
4 1/2		2327'	75 sks.
3			
2			
Liners Used			

Well treatment details:

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

Fractured: DOWELL - 500 gals. 15% HCL; 627 bbls. water; 30,000# 20/40 sand; 500# 10/20 sand.

Perforated: 2261' to 2281' - 13 holes.

Coal was encountered at none reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2261' to 2286'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay & Sand		Soft	0	70		
Red Rock		Soft	70	215		
Shale		Soft	215	320		
Shale & Sand		Soft	320	560		
Sand		Hard	560	625		
Sand & Lime		Hard	625	660		
Sand & Shale		Soft	660	945		
Shale		Soft	945	1005		
Sand & Shale		Soft	1005	1150		
Red Rock		Soft	1150	1250		
Shale		Soft	1250	1490		
Sand & Shale		Soft	1490	1885		
Lime & Shale		Soft	1885	2005		
Shale		Soft	2005	2040		
Sand		Hard	2040	2135		
Shale		Soft	2135	2140		
Sand		Hard	2140	2145		
Pencil Cave		Soft	2145	2155		
Lime		Hard	2155	2246		Big Lime 2156'
Sand		Hard	2246	2300		Big Injun 2246'
Sand & Shale		Soft	2300	2336		

(over)

* Indicates Electric Log tops in the remarks section.



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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 March 30, 1973
Company RAMCO Oil & Gas Corp.
Address P.O. Box 99, Belore, Ohio 45714
Farm H. A. Clines Acres 100
Location (waters) Big Flint
Well No. 2 Elevation 1300'
District Grant County Doddridge
Quadrangle Centerpoint

Surface Owner H. A. Clines Heirs
Address Salem, W. Va.
Mineral Owner H. A. Clines Heirs
Address Salem, W. Va.
Coal Owner H. A. Clines Heirs
Address Salem, W. Va.
Coal Operator None - no coal is being mined in
Address this area.

INSPECTOR TO BE NOTIFIED Mr. Wm
Blosser
Box 1857 PH: Fairmont
Calfax 363-9105
W. Va. 26566

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 7/30/73

Robert L. Todd
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 December 8, 19 72 by Columbia Gas Transmission Corp. made to RAMCO Oil & Gas Corp. and recorded on the _____ day of _____ 19____, in Doddridge 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,
(Sign Name) by: *Russell W. ...*
Well Operator
P. O. Box 99
Street
Belore
City or Town
Ohio 45714
State

Address
of
Well Operator

*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

Dodd-1727 PERMIT NUMBER

**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 Mark Snow _____ NAME Brod Crouse _____
 ADDRESS Salem, W. Va. _____ ADDRESS Grantville, W. Va. _____
 TELEPHONE (304) 727-1354 _____ TELEPHONE (304) 354-7657 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2270 _____ ROTARY _____ 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	910	910	
7			
5 1/2			
4 1/2		2370	70 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 250' _____, _____
 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