



LATITUDE 39 ° 25'

LONGITUDE 80 ° 35'

Minimum Error of Closure 1 in 200'

Source of Elevation B.M. on road 1/2 mi. SW of location = 946'

- 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]
 Squares: N S E W

Map No. _____

Company RAMCO OIL & GAS CORP.
 Address P.O. Box 99, Belore, Ohio
 Farm A.H. Pope
 Tract _____ Acres 59 Lease No. _____
 Well (Farm) No. Two Serial No. _____
 Elevation (Spirit Level) 1028
 Quadrangle Centerpoint C
 County Doddridge District McClellan
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Nov. 6, 1972 Scale 1" = 399' = 495'

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

WELL LOCATION MAP

FILE NO. Dodd-1708

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Centerpoint

Permit No. DOD-1708

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 A. H. Pope Acres 59
Location (waters) _____
Well No. 2 Elev. 1028'
District McClellan County Doddridge
The surface of tract is owned in fee by _____
A. H. Pope Heirs
Address Centerpoint, W. Va.
Mineral rights are owned by Same
Address _____
Drilling Commenced 12/8/72
Drilling Completed 12/23/72
Initial open flow _____ cu. ft. _____ bbls.
Final production 1,500,000 cu. ft. per day _____ bbls.
Well open 24 hrs. before test 580# 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			
7	714'	714'	150 sks.
5 1/2			
4 1/2		2081'	45 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record. Lawson Cementing Co.

Fractured - Halliburton - 685 bbls. water; 36,000# 20/40 sand; 1,000 gals. 15% acid.

Perforated: 1999' to 2002' - 4 holes; 2004' to 2006' - 3 holes;
2011' to 2017' - 6 holes; 2022' to 2024' - 2 holes.

Coal was encountered at 658' to 662' Feet 48" Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2005' to 2038'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay		Soft	0	40		
Sand & Shale		Soft	40	300		
Red Rock		Soft	300	400		
Sand & Shale		Soft	400	658		
Coal		Soft	658	662		
Sandy Shale		Soft	662	1100		
Lime		Hard	1100	1150		
Sandy Shale		Soft	1150	1520		
Shale		Soft	1520	1700		
Sandy Shale		Soft	1700	1851		
Shale		Soft	1851	1873		
Sand		Hard	1873	1890		
Shale		Soft	1890	1915		
* Big Lime		Hard	1915	1966		
* Keener		Hard	1966	1995		
* Big Injun		Hard	1995	2050		
* Squaw		Hard	2050	2091		
TD			2091			

RECEIVED

AUG 10 1973

OIL & GAS DIVISION
DEPT. OF MINES

(over)

* Indicates Electric Log tops in the remarks section.

AUG 27 1973



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV 16 1972

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 Nov. 9, 1972

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

Company RAMCO Oil & Gas Corp.
Address P. O. Box 99, Belpre, Ohio 45714
Farm A. H. Pope Acres 59
Location (waters) Little Battle Run
Well No. 2 Elevation 1028'
District McClellan County Doddridge
Quadrangle Centerpoint

INSPECTOR TO BE NOTIFIED Mr. Wm. Blessen
Box 1857 PH: Jairmont
Calfay, W.Va. 363-9105
26546

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.

Dorset H. Dodd
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 November 9, 1972 by M & M Oil & Gas Co. made to RAMCO Oil & 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) by: Randall V. Kiser Dist. Sec.
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.

BOND DRILL

2004-1708 PERMIT NUMBER

