



Minimum Error of Closure 1 in 200

Source of Elevation Elev at terminus of Flint 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: [Signature]
Squares: N S E W

Map No.

Company Ramco Oil & Gas Corp.
 Address P.O. Box 99, Belpre, Ohio
 Farm Elizabeth Davis
 Tract _____ Acres 314 Lease No. _____
 Well (Farm) No. Four Serial No. _____
 Elevation (Spirit Level) 951
 Quadrangle Centerpoint SC
 County Doddridge District Grant
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Sept. 29, 1972 Scale 1" = 400' = 660'

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

WELL LOCATION MAP

FILE NO. Road-1698

+ 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

34-30
8-24
9

Quadrangle Centerpoint

Permit No. DOD-1698

Rotary Oil _____
Cable _____ Gas & NOFL
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. 4 Elev. 951'
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 11/15/72
Drilling Completed 11/20/72
Initial open flow _____ cu. ft. _____ bbls.
Final production 1,250,000 cu. ft. per day _____ bbls.
Well open 24 hrs. before test 560 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	167'	167'	40 sks.
7			
5 1/2			
4 1/2		2071'	75 sks.
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record. Lawson Cementing Co.
Fractured - DOWELL - 700 bbls. water; 50,000# 20/40 sand; 1,500 gals acid; perf. balls.

Perforations: 1958' to 1988' - 16 holes; 1994' to 1998' - 3 holes.

Coal was encountered at 57' to 59' Feet 18" Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1956' to 2000'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay		Soft	0	45		
Shale		Soft	45	57		
Coal		Soft	57	59		
Sandy Shale		Soft	59	98		
Sand & Shale		Soft	98	125		
Shale		Soft	125	155		
Sandy Shale		Soft	155	920		
Sand		Hard	920	1035		
Sandy Shale		Soft	1035	1465		
Sand		Hard	1465	1530		
Sandy Shale		Soft	1530	1770		
Shale		Soft	1770	1816		
Sand		Hard	1816	1830		
Shale		Soft	1830	1852		
* Big Lime		Hard	1852	1906		
* Keener		Hard	1906	1925		
* Big Injun		Hard	1925	2034		
Shale		Soft	2034	2051		
TD			2051			

(over)

* Indicates Electric Log tops in the remarks section.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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OCT 10 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 October 10, 1972

Surface Owner Elizabeth Davis Heirs

Company RAMCO Oil & Gas Corp.

Address Centerpoint, W. Va.

Address P. O. Box 99, Belpre, Ohio 45714

Mineral Owner Elizabeth Davis Heirs

Farm Elizabeth Davis Acres 314

Address Centerpoint, W. Va.

Location (waters) Flint Run

Coal Owner Elizabeth Davis Heirs

Well No. 4 Elevation 951'

Address Centerpoint, W. Va.

District Grant County Doddridge

Coal Operator None - no coal is being mined

Quadrangle Centerpoint

Address in this area.

INSPECTOR TO BE NOTIFIED Mr. Zorn
Blosser
Box 1857 PH: Fairmont
Calhoun, W. Va. 363-9105
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 2-10-73.

Robert L. 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 February 10, 19 72 by James F. Scott made to RAMCO Oil & Gas Corp. and recorded on the 16th day of February 19 72, in Doddridge County, Book 95 Page 619

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: Randall W. Koton
Well Operator Asst. Sect.
P.O. Box 99

Address of Well Operator

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

Dodd-1698 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 Brad Crouse _____
 ADDRESS Salem, W. Va. _____ ADDRESS Rt. 1, Box 174, Grantsville, W. Va. _____
 TELEPHONE (304) 782-1354 _____ TELEPHONE (304) 354-7657 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2024' _____ 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	150'	150'	150'
7			
5 1/2			
4 1/2		2024'	350'
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