



Minimum Error of Closure 1 in 200'

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

- 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. J. Taylor
Squares: N S E W

Map No. _____

Company Ramco Oil & Gas Corp.

Address P.O. Box 99, Belpre, Ohio

Farm J. J. Downs

Tract _____ Acres 188.88 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 1165

Quadrangle Centerpoint C

County Doddridge District McClellan

Engineer W. J. Taylor

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date Nov. 23, 1972 Scale 1" = 500' = 825'

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

WELL LOCATION MAP

FILE NO. DOD-1713

+ 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.

TRASC

6-6 Smithton - Flint - Sedalia (99)

DEC 15 1972



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

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OIL & GAS DIVISION
DEPT. OF MINES

34-30
5-44
92

Quadrangle Centerpoint

Permit No. DOD-1713

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 J. J. Downs Acres 188.88
Location (waters) Little Battle
Well No. 1 Elev. 1165'
District McClellan County Doddridge
The surface of tract is owned in fee by _____
J. J. Downs Heirs
Address Centerpoint, W. Va.
Mineral rights are owned by same
_____ Address _____
Drilling Commenced 12/19/72
Drilling Completed 1/27/73
Initial open flow _____ cu. ft. _____ bbls.
Final production 370MCF cu. ft. per day _____ bbls.
Well open 24 hrs. before test 125# 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	821'	821'	180 sks.
7			
5 1/2			
4 1/2		2223'	75 sks.
3			
2			
Liners Used			

Well treatment details:

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

Fractured: DOWELL - Two-Stage: 1st stage - 679 bbls. water; 30,000# 20/40 sand;
Note: suspected communication between Keener & Big Injun. 500# 10/20 sand; 500 gals. 15% HCL. (Big Injun)
2nd stage - 672 bbls. water; 30,000# 20/40 sand;
Perforated: 2105' to 2121' - 14 holes 500# 10/20 sand; 500 gals. 15% HCL. (Keener)
Stage plug set at 2128'

Coal was encountered at none reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2140' to 2173'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay		Soft	0	105		
Red Rock		Soft	105	317		
Sandy Shale		Soft	317	485		
White Sand		Hard	485	505		
Gray Shale		Soft	505	620		
Gray Sand		Hard	620	635		
Sandy Shale		Soft	635	750		
Shale		Soft	750	811		
Sandy Lime		Soft	811	940		
Sand & Shale		Soft	940	1630		
Sand		Hard	1630	1780		
Sand & Lime <i>Big Ln + Keener</i>		Hard	1780	2120		
Lime		Hard	2120	2184		*Pencil Cave 2016
Sand		Hard	2184	2195		*Big Lime 2038
Shale		Soft	2195	2214		*Keener 2100
TD			2214			*Big Injun 2130

(over)

* Indicates Electric Log tops in the remarks section.



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 22, 1972
Company RAMCO Oil & Gas Corp.
Address P. O. Box 99, Belore, Ohio 45714
Farm J. J. Downs Acres 100.00
Location (waters) Little Battie Run
Well No. 1 Elevation 1105'
District McClellan County Doddridge
Quadrangle Centerpoint

Surface Owner J. J. Downs Heirs
Address Centerpoint, W. Va.
Mineral Owner J. J. Downs Heirs
Address Centerpoint, W. Va.
Coal Owner J. J. Downs Heirs
Address Centerpoint, W. Va.
Coal Operator None - no coal is being mined
Address In this area.

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 3-28-73.

Daniel Hood
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 19 72 by Columbia Gas Transmission Corp. 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,

(Sign Name) by: Randall V. Bates, West. Dist.
Well Operator

Address
of
Well Operator

RAMCO Oil & Gas Corp.
P. O. Box 99
Street
Belore
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 DRILL DEEPEN FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:

NAME Hank Snow NAME Brad Crouse

ADDRESS Salem, W. Va. ADDRESS Rt. 1, Box 174, Grantsville, W. Va.

TELEPHONE TELEPHONE (304) 354-7657

ESTIMATED DEPTH OF COMPLETED WELL: 2225' 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	200'	200'	200'
7			
5 1/2			
4 1/2		2225'	350'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER FEET

APPROXIMATE COAL DEPTHS

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