



Minimum Error of Closure ONE PART IN 200

Source of Elevation USGS BM ON BRIDGE ACROSS THE LITTLE KANAWHA RIVER AT STOUTS MILL = 750'

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 Deeper.....
 Abandonment.....

Signed: Mark C. Echard

Map No. Squares: N S E W

Company RO-JO INDUSTRIES, INC.
 Address P.O. BOX 86, SANDFORK, W.VA. 26430
 Farm MARY LEE MASSEY
 Tract _____ Acres 129.75 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 963'
 Quadrangle GILMER, Burnsville 15' WC
 County GILMER District GLENNVILLE
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date 4-4-77 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. GIL - 2803

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, 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

RECEIVED

SEP 15 1977

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Gilmer
 Gil- 2803
Permit No. _____

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

Company	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
<u>Ro-Lo Industries Inc</u>				
<u>P.O. Box 86, Sand Fork, W. Va.</u>				
<u>Mapoleon Marsh Acres. 129.75</u>				
<u>Location (waters) Little Kanawha River</u>				
<u>Well No. Two Elev. 963</u>	<u>Size 20-16</u>			
<u>District Glenville County Gilmer</u>	<u>Cond. 13-10"</u>	<u>379</u>	<u>379</u>	<u>To Surface</u>
<u>The surface of tract is owned in fee by Mary Lee Massey</u>	<u>9 5/8</u>			
<u>Address Stouts Mills, W. Va.</u>	<u>8 5/8</u>			
<u>Mineral rights are owned by Marsh Heirs 1/2 Mack R. Worl 1/2 Address Sand Fork, W. Va.</u>	<u>7</u>			
<u>Drilling Commenced 5-11-77</u>	<u>5 1/2</u>			
<u>Drilling Completed 7-15-77</u>	<u>4 1/2</u>		<u>2255 ft</u>	<u>110 sks Pozz</u>
<u>Initial open flow 750 MCF cu. ft. 0 bbls.</u>	<u>3</u>			
<u>Final production 2,160 MMcf. per day 0 bbls.</u>	<u>2</u>			
<u>Well open 5 hrs. before test 745 lb RP.</u>	<u>Liners Used</u>			

Well treatment details: Attach copy of cementing record.

Well Frac 7-29-77

<u>Big Injun</u>	<u>Blue Monday</u>
<u>Perf 2208 to 2218 12 holes</u>	<u>Perf, 2006 to 2034 40 shots</u>
<u>40 thousand lb of 20/40 sand</u>	<u>6 thousand lb of 20/40 sand</u>
<u>790 Bls of water</u>	<u>350 Bls of water</u>
<u>1510 HHP</u>	<u>796 HHP</u>
<u>38.5 Bls at 1600 lb</u>	<u>9 Bls PM at 3500 lb</u>
<u>Coal was encountered at 337 to 345 Feet</u>	<u>Feet _____ Inches</u>
<u>Fresh water _____ Feet</u>	<u>Salt Water _____ Feet</u>
<u>Producing Sand Big Injun and Blue Monday</u>	<u>Depth _____</u>

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Oil			0	100		
Red Rock			100	160		
Slate			160	195		
Sandy shale			195	337		
Coal			337	345		
Slate			345	405		
Red Rock			405	475		
Slate and Shells			475	640		
Sand			640	690		
Red Rock			690	750		
Slate			750	800		
Sandy shale			800	896		
Sand			896	1060		
Sandy shale			1060	1325		
Slate			1325	1430		
Sand			1430	1450		
Sandy shale			1450	1620		
Slate			1620	1670		
Sand			1670	1815		
Slate			1815	1861		
Sand			1861	1895		
Red Rock			1895	1905		
Lime			1905	1930		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ⁷	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			1930	1940		
Lime			1940	2000		
<u>Sand</u> B.I.			2000	2225		
Slate			2225	2245		
Sandy Shale			2245	2261		
Total Depth			2261			

Date Sept 22 1977

APPROVED

By

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

DATE April 12, 1977

Surface Owner Mrs Mary Lee Massey
Stouts Mills, W. Va.

Company Ro-Jo Industries Inc.

Mineral Owner Marsh heirs 1/2, Mack Worl 1/2;
Sand Fork, W. Va.

Address P. O. Box 86, Sand Fork, W. Va.
Farm (Napoleon Marsh) Acres 129.75

Coal Owner Eastern Associated Fuel Corp.

Location (waters) Little Kanawha River

Coal Operator None

Well No. Two Elevation 963

Address Clarksburg, W. Va.

District Glenville County Gilmer

Address _____

Quadrangle Gilmer

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 8-21-77.

INSPECTOR TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, W. Va.

PHONE 477-2455

Robert R. Jones
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 June 25 1973 by Marsh heirs made to Robert R. Jones and recorded on the 11 day of June 1976 in Gilmer County, Book 282 Page 142

* 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, Ro-Jo Industries
by (Sign Name) Well Operator

Address of Well Operator

Suite 310, 3545 N. W. 58 th

Street

Oklahoma City,

City or Town

Oklahoma 73112

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.

BLANKET DC&D

File - 2803 PERMIT NUMBER

47-021

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Robert R. Jones

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: _____
Central Well Service

NAME _____ NAME: Robert R. Jones _____
 ADDRESS P.O. Box 43, Parkersburg, W. Va. _____ ADDRESS P.O. Box 86, Sand Fork, W. Va. _____
 TELEPHONE 485-4313 _____ TELEPHONE 462-8366 _____

ESTIMATED DEPTH OF COMPLETED WELL: 2340 _____ 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.
30 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	310 ft	310 ft	To Surface
7			
5 1/4			
4 1/4		2340	100 sks Pozz
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 270 _____
 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