



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-IO INDUSTRIES, INC.
Address	P.O. BOX 86, SANDFORK, W.VA. 26430
Farm	MARYLEE MASSEY
Tract	Acres 129.75 Lease No.
Well (Farm) No.	3 Serial No.
Elevation (Spirit Level)	742'
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-2804

+ 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.

47-021



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

Rotary X Oil
Cable Gas ✓
Recycling Comb
Water Flood Storage
Disposal (Kind)

Quadrangle Gilmer 7½
Permit No. Gil-2804

Company <u>Ro Jo Industries, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Glenville, W. Va.</u>	Size			
Farm <u>Napoleon Marks</u> Acres <u>129.75</u>	20-16			
Location (waters) <u>Little Kanawha River</u>	Cond.			
Well No. <u>3</u> Elev. <u>748 KB</u>	13-10"			
District <u>Glenville</u> County <u>Gilmer</u>	9 5/8			
The surface of tract is owned in fee by <u>Mary Lee Massey</u>	8 5/8	237	237	75 cu. ft.
Address <u>Stouts Mills, W. Va.</u>	7			
Mineral rights are owned by <u>½ Marsh Hrs.,</u>	5 1/2			
<u>½ Mack Whorl</u> Address <u>Sand Fork, W. Va.</u>	4 1/2	2132	2132	120 cu. ft.
Drilling Commenced <u>4/20/77</u>	3			
Drilling Completed <u>4/24/77</u>	2			
Initial open flow <u>50mcf</u> cu. ft. <u>0</u> bbls.	Liners Used			
Final production <u>1,650mcf</u> per day <u>0</u> bbls.				
Well open <u>3</u> hrs. before test <u>700</u> RP.				
Well treatment details: Frac well <u>4-28-77</u>				

Attach copy of cementing record.

<u>Big Injun</u> , Perforations <u>2034 to 2050</u>	<u>Blue Monday</u> , Perforations <u>1840 to 1860</u>
<u>50 thousand lb of 20/40 sand</u>	<u>11 thousand lb of 20/40 sand</u>
<u>895 bls of water</u>	<u>588 Bls of water</u>
<u>Avg. rate 42 bls p.m. at 1450 lb</u>	<u>Avg rate 14 BPM at 3000 lb</u>
<u>H.H.P. 1507</u>	<u>H.H.P. 1007</u>
Coal was encountered at <u>170 to 175</u> Feet _____ Inches	
Fresh water _____ Feet _____	Salt Water _____ Feet _____
Producing Sand <u>Big Injun and Blue Monday</u> Depth _____	

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	10		
Shale, Sand, Red Rock			10	1420		
Sand			1420	1442		
Shale			1442	1498		
Sand			1498	1522		
Shale			1522	1554		
Sand, Shaley			1554	1632		
Shale			1632	1656		
Sand			1656	1688		
Shale			1688	1729		
Shale, Sandy			1729	1798		
Limestone			1798	1834		
Sand (Blue Monday)			1834	1866		
Limestone			1866	2030		
<u>Big Injun</u>			2030	2054		
Shale			2054	2074		
Siltstone w/shale stringers			2074	2158		
				2158		
					Total Depth	

(over)

Indicates Electric Log tops in the remarks section.



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

Company Ro-Jo Industries Inc.

Address Stouts Mills, W. Va.

Address P.O. Box 86, Sand Fork, W. Va.

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

Farm (Napoleon Marsh) Acres 129.75

Address _____

Location (waters) Lee Massey Little Kanawha River

Coal Owner Eastern Associated Fuel Corp.

Well No. Three Elevation 742

Address Clarksburg, W. Va.

District Glenville County Gilmer

Coal Operator None

Quadrangle Gilmer

Address _____

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 8-18-77.

INSPECTOR
TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, W. Va.

PHONE 477-2455

[Signature]
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 1976 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,
(Sign Name) [Signature]
Well Operator

Address of Well Operator
Suite 310, 3545 N. W. 58th Street
Oklahoma City City or Town
Oklahoma 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 ROAD

Gil-2804 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 5, Section 12-b and will carry out the specified requirements."

Signed by [Signature]

47-021

[Signature]

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 G. L. Haught and Sons NAME Robert R. Jones

ADDRESS Smithville, W. Va. ADDRESS P.O. Box 86, Sand Fork, W. Va.

TELEPHONE 477-2222 TELEPHONE 462-8366

ESTIMATED DEPTH OF COMPLETED WELL: 2170 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	210 ft	210 ft	To surface
7			
5 1/2			
4 1/2		2170	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 170 ,

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