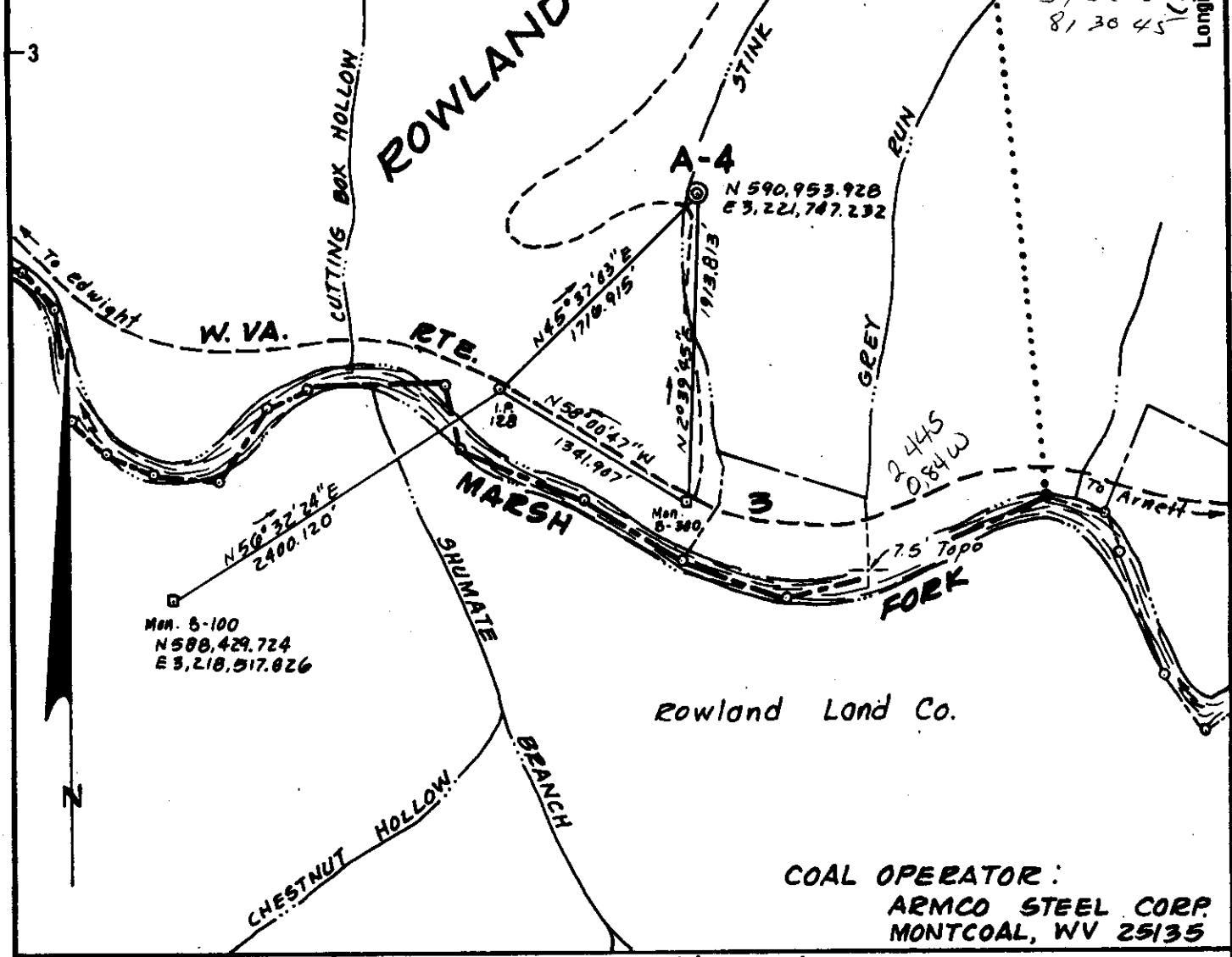


Latitude (15') 37° 55' 00"
(7.5') 37° 55' 00"

Note:
This survey is tied into Armco Steel Corp. coordinate system.

COORDINATE VALUES		
STA.	NORTH	EAST
B-200	591,053.723	3,223,667.715
B-300	589,042.181	3,221,058.329
B-400	590,737.506	3,222,476.074
128	589,753.041	3,220,520.176
S-1	592,893.646	3,222,376.231
S-2	592,371.675	3,223,130.921
S-3	592,173.375	3,221,419.729



COAL OPERATOR:
ARMCO STEEL CORP.
MONTCOAL, WV 25135

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure 1"/10,000'
Source of Elevation "T" Rail at mouth of Stink Run, set by Brooks Surveys. Elevation given as 1025.14
"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."
J. L. Sturgill

Company **TIPCO TEXAS INTERNATIONAL PETROLEUM CORPORATION**
 Address **Suite 706 Commerce Square Charleston, West Virginia 25301**
 Farm **ROWLAND LAND CO.**
 Tract **A** Acres **3,000** Lease No. **808401**
 Well (Farm) No. _____ Serial No. **A-4**
 Elevation (Spirit Level) **1209.73 EC**
 Quadrangle **7.5' Whitesville / 15' Bald Knob**
 County **Raleigh** District **Marsh Fork**
 Engineer **L.G. Sturgill, L.L.S.**
 Engineer's Registration No. **412**
 File No. **W75-2 W.O. 75** Drawing No. **D-36**
 Date **10-20-76** Scale **1" = 1000'**

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. **RAL-387**

+ 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.

47-081 APR 18 1977
FB4 PG 56

2400' b-b (247)





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JAN 12 1978

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 25

7.5' Whitesville
15" Bald Knob
Quadrangle

Permit No. RAL - 387

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

Company <u>Texas International Petroleum Corp</u> <u>Charleston, West Virginia</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Rowland Land Company Acres 3.000</u>	Size			
Location (waters) <u>Marsh Fork of Coal River</u>	20-16	80'	80'	
Well No. <u>A-4</u> Elev. <u>1210</u>	Cond. <u>16"</u>			
District <u>Marsh Fork</u> County <u>Raleigh</u>	13-10"			
The surface of tract is owned in fee by <u>Rowland Land Company</u>	9 5/8			
Address <u>Bluefield, West Virginia</u>	8 5/8	1214'	1214'	Cemented w/365 sacks. Cement circulated.
Mineral rights are owned by <u>Rowland Land Company</u>	7			
Company Address <u>Bluefield, W.Va.</u>	5 1/2			
Drilling Commenced <u>April 12, 1977</u>	4 1/2	2906'	2906'	Cemented w/100 sacks.
Drilling Completed <u>April 20, 1977</u>	3			
Initial open flow _____ cu. ft. _____ bbls.	2			
Final production <u>94.3M</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>4</u> hrs. before test <u>880</u> RP.				

Attach copy of cementing record.

Well treatment details:
Perforated @ 2741' - 47', 7 shots; 2751' - 55', 5 shots; 2759' - 66', 8 shots.
Fraced with 902 barrels gelled water, 70,000# 20/40 sand. Breakdown pressure 1500 PSI. Average injection rate - 41.2 barrels per minute. Average injection pressure - 1749 PSI. Instant shut-in pressure - 950 PSI. 15 minutes 800 PSI.

Coal was encountered at None reported Feet _____ Inches _____
Fresh water 40' Feet _____ Salt Water _____ Feet _____
Producing Sand Weir Depth 2638' - 2780'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	21		
Sand			21	80		
Sandy Shale			80	146		
Sand			146	203		
Sandy Shale			203	225		
Sand			225	288		
Sandy Shale			288	350		
Sand			350	385		
Sand & Shale			385	395		
Sand			395	554		
Shale			554	583		
Sand & Shale			583	630		
Shale			630	676		
Sand			676	920		
Sand & Shale			920	1000		
Sand			1000	1021		
Sand & Shale			1021	1081		
Sand			1081	1155		
Sand & Shale			1155	1205		
Shale			1205	1216		
Sand & Shale			1216	1245		
Shale			1245	1321		
Sand			1321	1386		
Sand & Shale			1386	1462		
Sand			1462	1492		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ₂₅	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			1492	1589		
Sand, Shale & Red Rock			1589	1904		
Sand - Lower Maxton			1904	1921		
Little Lime			1921	1961		
Sandy Shale			1961	1970		
Lime & Shale			1970	2113		
Big Lime			2113	2591		
Injun Sand			2591	2603		
Sandy Shale			2603	2920		Well T.D.

Date October 26, 1977

APPROVED James M. Blanton (x)
Texas International

By Division Manager
(Title)



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MAR 31 1977

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 October 26, 1976

Surface Owner Rowland Land Company
Address Charleston, West Virginia
Mineral Owner Same as above.
Address Same as above.
Coal Owner Same as above.
Address Same as above.
Coal Operator Armco Steel
Address Montcoal, West Virginia

Company Texas International Petroleum
Address Charleston, West Virginia
Farm Rowland Land Company Acres 3,000
Location (waters) Marsh Fork of Coal River
Well No. A-4 Elevation 1210
District Marsh Fork County Raleigh
Quadrangle Whitesville 7.5

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 7-31-77.

INSPECTOR
TO BE NOTIFIED Paul Thomas
ADDRESS Summersville W. Va.
PHONE 872-3070

John B. Blanton
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 5, 1942 by Rowland Land Co. made to Columbia Carbon Co. and recorded on the 5th day of Feb. 19 42 in Raleigh County, Book 11 Page 252

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, Jim Blanton
Texas International Petroleum
(Sign Name) _____
Well Operator

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

Address
of
Well Operator

706 Commerce Square
Street
Charleston
City or Town
West Virginia 25301
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 BOND

"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 Jim Blanton

Pal-387 PERMIT NUMBER
47-081

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Unknown _____ NAME James M. Blanton _____
 ADDRESS _____ ADDRESS 706 Comm. Sq., Charleston, WV _____
 TELEPHONE _____ TELEPHONE (304) 343-4609 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2900 _____ ROTARY X _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Weir Sand _____
 TYPE OF WELL: OIL _____ GAS X _____ 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	20'	20'	
9 - 5/8			
8 - 5/8	500'	500'	Cement to surface.
7			
5 1/2			
4 1/2		2900'	Cement with 100 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 20 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 450 _____
 IS COAL BEING MINED IN THE AREA? Yes _____ BY WHOM? Armco Steel. _____

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 Armco Steel 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 Armco Steel 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.

Clayton L. Bowdry

 For Coal Company

Official Title