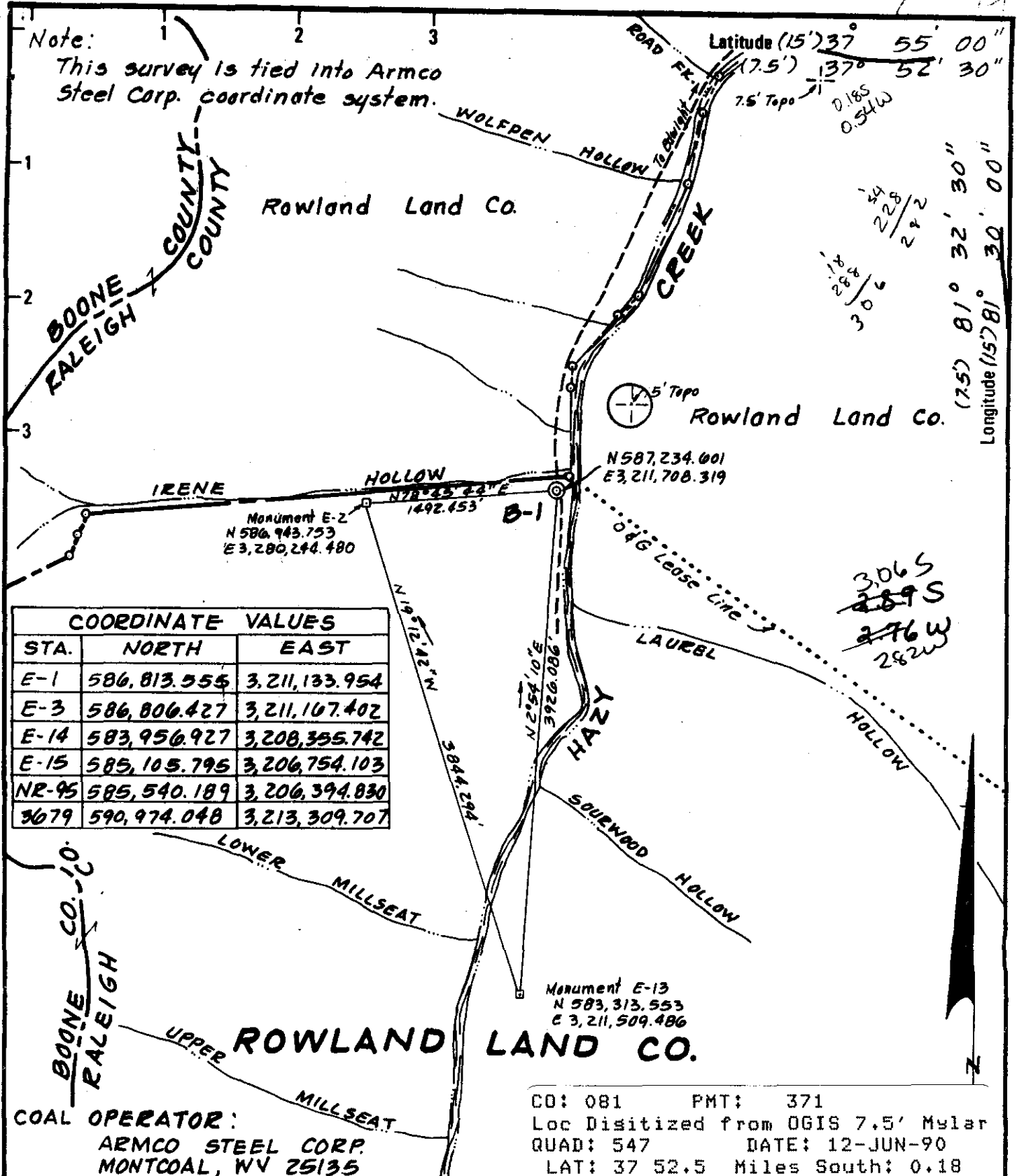


Note:

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



COORDINATE VALUES		
STA.	NORTH	EAST
E-1	586,813.555	3,211,133.954
E-3	586,806.427	3,211,107.402
E-14	583,956.927	3,208,355.742
E-15	585,105.795	3,206,754.103
NR-95	585,540.189	3,206,394.830
3079	590,974.048	3,213,309.707

COAL OPERATOR:
ARMCO STEEL CORP.
MONTCOAL, WV 25135

CO: 081 PMT: 371
Loc Digitized from OGIS 7.5' Mylar
QUAD: 547 DATE: 12-JUN-90
LAT: 37 52.5 Miles South: 0.18
LONG: 81 32.5 Miles West : 0.64

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure
Source of Elevation *R.R. Spike in 6" Sycamore stump on west side of Hazy Creek Rd set by Gates Eng. in 1971. Elev. 1090.390.*
"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 700 Commerce Square Charleston, West Virginia 25301*
 Farm **ROWLAND LAND CO.**
 Tract B Acres 3000 Lease No. 808402
 Well (Farm) No. _____ Serial No. B-1
 Elevation (Spirit Level) 1128.66 EC
 Quadrangle 7.5' Pilot Knob / 15' Bald Knob
 County Raleigh District Marsh Fork
 Engineer West Virginia Surveying & Mapping, Inc. L.G. Sturgill, LLS
 Engineer's Registration No. 412
 File No. W75-2 W.O. 77 Drawing No. D-38
 Date 10-21-76 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. RAL-371

+ 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 FB 4 PG 60





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Pilot Knob 7.5

Permit No. RAL-371

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

Company Texas International Petroleum Corp.
Charleston, W.V.
Address _____
Farm Rowland Land Company Acres 3,000
Location (waters) Hazy Creek of Marsh Fork
Well No. #B-1 Elev. 1129
District Marsh Fork County Raleigh
The surface of tract is owned in fee by _____
Rowland Land Company
Address Charleston, W.V.
Mineral rights are owned by Same As Above
Address Same As Above
Drilling Commenced 2-17-77
Drilling Completed 3-31-77
Initial open flow 0 cu. ft. _____ bbls.
Final production 1,332M cu. ft. per day _____ bbls.
Well open 6 hrs. before test 820# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	22'	22'	
9 5/8			
8 5/8	1161'	1161'	Cemented w/275 sacks
7			
5 1/2			
4 1/2		2901'	Cemented w/75 sacks
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Perforated 2723-34, 2/23 shots. Fraced w/693 barrels of gelled water, 10,000 80/100; 30,000, 20/40. BDP-1200PSI. Injection rate 42 barrels per minute.
Instantaneous shut-in pressure 800psi. Perforated 2590-2604, 29 shots. Broke down formation w/500 gallons acid. Fraced w/762 barrels gelled water 12,500#, 80/100 sand and 37,500# 20/40 sand. AIR 42BPM. Instantaneous shut-in pressure 900 psi.

Coal was encountered at None Reported Feet _____ Inches.
Fresh water 227 Feet _____ Salt Water _____ Feet _____
Producing Sand Weir Depth 2615-2750

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface Dirt			0	2		
Sand Shale			2	195		
Sand			195	226		
Sandy Shale			226	260		
Sand			260	321		
Sandy Shale			321	366		
Sand			366	485		
Sandy Shale			485	508		
Sand			508	618		
Sand and Shale			618	623		
Sand			623	645		
Sand and Shale			645	662		
Sand			662	696		
Sand and Shale			696	766		
Sand			766	780		
Sand and Shale			780	807		
Sand			807	900		
Sandy Shale			900	955		
Sand and Shale			955	996		
Sand			996	1050		
Sand and Shale			1050	1060		
Sand			1060	1086		
Shale			1086	1226		
Sand			1226	1267		
Sand and Shale			1267	1303		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet //	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1303	1374		
Sandy Shale			1374	1392		
Sand			1392	1398		
Sand, Shale, R. ROCK			1398	1417		
Sandy Shale			1417	1428		
Sand and Shale			1428	1528		
Sand			1528	1560		
Sand And Shale			1560	1703		
Upper Maxton			1703	1776		
Sandy Shale			1776	1880		
Sand			1800	1882		
Sand, Shale and R. Rock			1882	2040		
Shale			2040	2080		
Sand and Shale			2080	2095		
Lower Maxton			2095	2146		
Sand and Shale			2146	2171		
Little Lime			2171	2204		
Sand and Shale			2204	2215		
Big Lime			2215	2507		
Injun sand			2507	2529		Gas check @ 2454-2/10 through 1" w/water.
Sandy Shale			2529	2615		
Weir			2615	2750		
Shale			2750	2901		T.D.

offsets Ral-392

Date April 12, 1977

APPROVED _____, Owner

By Jim Blanton Div. Mgr.
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

JAN 4 1977

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) Hazy Creek of Marsh Fork
Well No. B-1 Elevation 1129
District Marsh Fork County Raleigh
Quadrangle Pilot Knob 7.5

THIS PERMIT MUST BE POSTED AT THE WELL SITE

Conditions 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 5-4-77.

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

Robert S. Powell
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. 1942, 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.

RAL-371 PERMIT NUMBER

"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

BLANKET BOND

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: 3,000' _____ 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	640'	640'	Cement to surface.
7			
5 1/2			
4 1/2		3000'	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 600 _____
 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. Conroy
 For Coal Company

 Official Title