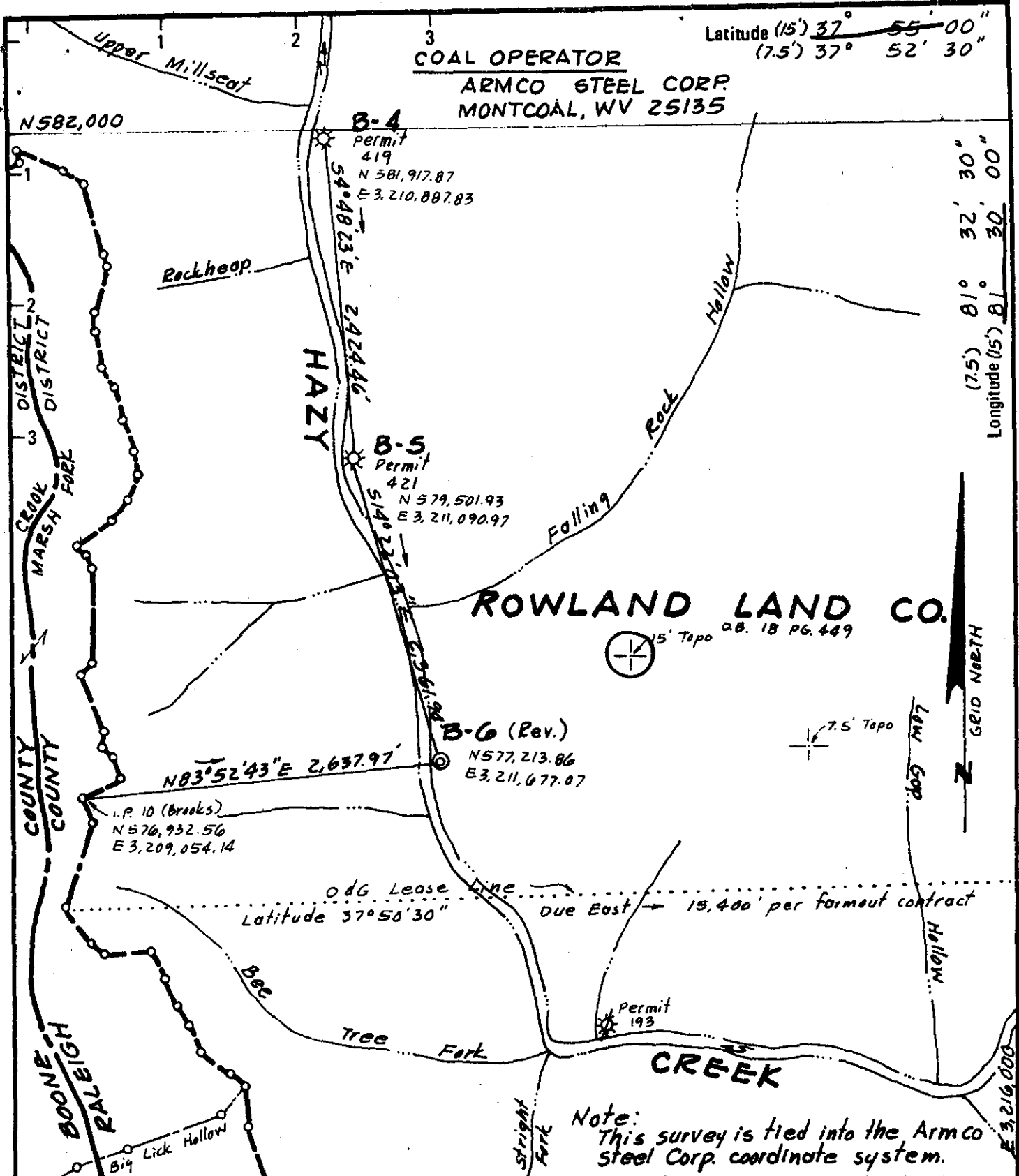


5/17/87



Minimum Error of Closure $1/5,000'$
 Source of Elevation *R.R. Spike in telephone pole #187-3 on east side of Hazy Creek Rd. at mouth of Irene Hollow. Elev. 1126.24*
 "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 mine law of West Virginia."

9/20/78

Company **TIPCO PETROLEUM CORPORATION**
 Suite 740 - One Valley Square
 Charleston, West Virginia 25301

Farm **ROWLAND LAND CO.**

Tract B Acres 3,000 Lease No. 80B402

Well (Farm) No. _____ Serial No. B-6

Elevation (Spirit Level) 1470.20 EC

Quadrangle 7.5' Pilot Knob 15' Bald Knob

County Raleigh District Marsh Fork

Engineer W.V. Surveying & Mapping, Inc. - L.G. Sturgill, LLS

Engineer's Registration No. 412

File No. W75-2 W.O. 207 Drawing No. D-132

Date 3-3-78 Scale 1" = 1,000'

CO: 081 PMT: 447
 Loc Digitized from OGIS 7.5' Mylar
 QUAD: 547 DATE: 12-JUN-90
 LAT: 37 52.5 Miles South: 2.07
 LONG: 81 32.5 Miles West: 0.63

CHARLESTON

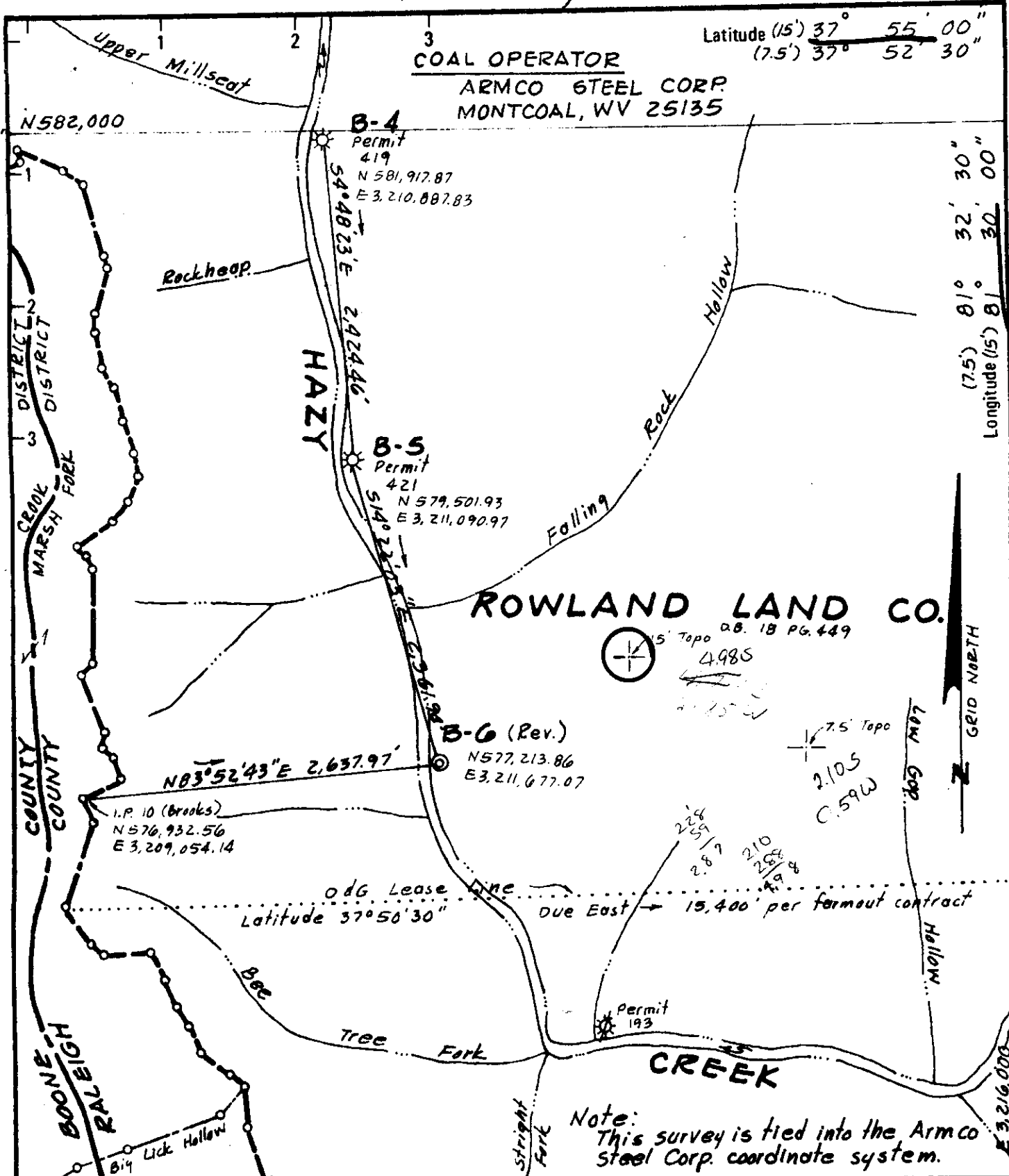
WELL LOCATION MAP
 FILE NO. **RAL-447-P**

+ 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 OCT 17 1978

Handwritten text, possibly a signature or date, located at the bottom left of the page. The text is faint and difficult to decipher, but appears to include a date and a name.



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure $1/5,000'$
 Source of Elevation *P.R. Spike in telephone pole # 187-3 on east side of Hazy Creek Rd. at mouth of Irene Hollow. Elev. 1126.24*
 "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."
L.G. Sturgill

Company **TIPCO** TEXAS INTERNATIONAL PETROLEUM CORPORATION
 Address *Suite 740 - One Valley Square Charleston, West Virginia 25301*
 Farm **ROWLAND LAND CO.**
 Tract B Acres 3,000 Lease No. 808402
 Well (Farm) No. _____ Serial No. B-6
 Elevation (Spirit Level) 1470.20 EC
 Quadrangle 7.5' Pilot Knob / 15' Bald Knob
 County Raleigh District Marsh Fork
 Engineer L.G. Sturgill, LLS
 Engineer's Registration No. 412
 File No. W75-2 W.O. 207 Drawing No. D-132
 Date 3-3-78 Scale 1" = 1,000'

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

WELL LOCATION MAP
 FILE NO. RAL-447

+ 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 JUN 1 1978





RECEIVED

SEP 27 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 17

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

Quadrangle 7.5' Pilot Knob/15' Bald Knob

Permit No. Ral-447 - P

Company Texas International Petroleum Corp.
Address Suite 740 - One Valley Square
Farm Rowland Land Company Acres 3,000
Location (waters) Hazy Creek
Well No. B-6 Elev. 1470.20
District Marsh Fork County Raleigh
The surface of tract is owned in fee by _____
Rowland Land Company
Address Charleston, West Virginia
Mineral rights are owned by Rowland Land Company
Address Charleston, West Virginia
Drilling Commenced 9/12/78
Drilling Completed 9/20/78
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 11-3/4"	26'	26'	Conductor
9 5/8			
8 5/8	848.80'	848.80'	Cemented to surface w/240 sx
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Plug and Abandon

Attach copy of cementing record.

Coal was encountered at 215 - 220' Feet _____ Inches 60"
Fresh water 30' Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Fill			0	2		
Sand			2	38		1" Stream H ₂ O @ 30'
Shale			38	62		
Sand & Shale			62	160		
Sand			160	215		
Coal			215	220		
Sand & Shale			220	685		
Salt Sand			685	833		
Shale			833	930		
Salt Sand			930	1300		
Sand & Shale			1300	1323		
Salt Sand			1323	1438		
Sand Shale			1438	1491		
Sand			1491	1550		
Sand Shale			1550	1574		
Ravencliff			1574	1676		
Shale			1676	1718		
Sand			1718	1818		
Shale			1818	1845		
Lime			1845	1878		
Shale			1878	1902		
Maxton Sand			1902	1954		
Sand & Shale			1954	2029		

TD 3236 OCT 17 1978

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand and Red Rock			2029	2120		
Maxton Sand			2120	2220		
Red Rock & Shale			2220	2264		
Sand and Shale			2264	2287		
L. Lime			2287	2348		
Shale			2348	2413		
Lime			2413	2850		
Shale			2850	2950		
Weir			2950	3104		
Shale			3104	3236	T. D.	

Date September 21st, 1978

APPROVED Texas International Petroleum Owner
 Corporation
 By James M. Blanton
 (Title)
 James M. Blanton, Division Manager



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
MAY 15 1978
OIL & GAS DIVISION
DEPT. OF MINES

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE March 6, 1978

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

Company Texas International Petroleum
Address Charleston, West Virginia
Farm Rowland Land Co. Acres 3,000
Location (waters) Hazy Creek
Well No. B-6 Elevation 1470.20
District Marsh Fork County Raleigh
Quadrangle 7.5' Pilot Knob/15' Bald Knob

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 9-16-78

INSPECTOR Leroy Hopkins
TO BE NOTIFIED
ADDRESS Patty Hill Trailer Ct., Victor, W. Va.
25938
PHONE 658-4784

[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 February 5, 1942 by Rowland Land Co. made to Columbia Carbon Co. and recorded on the 5th day of February 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.

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

Very truly yours, James M. Blanton DCL
(Sign Name) Texas International Petroleum
Well Operator
Suite 740 - One Valley Square
Street
Charleston
City or Town
West Virginia
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

RAL-447 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 Appalachian Drilling Company NAME James M. Blanton
 ADDRESS Charleston, West Virginia ADDRESS Charleston, West Virginia
 TELEPHONE 344-3591 TELEPHONE 304/345-3430
 ESTIMATED DEPTH OF COMPLETED WELL: 3220' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Weir
 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 11-3/4"	25'	25'	Conductor
9 - 5/8			
8 - 5/8	850'	850'	Cement to surface
7			
5 1/2			
4 1/2	3220'	3220'	100 SXS
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 196', 704'
 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 Corp. 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 Corp. 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