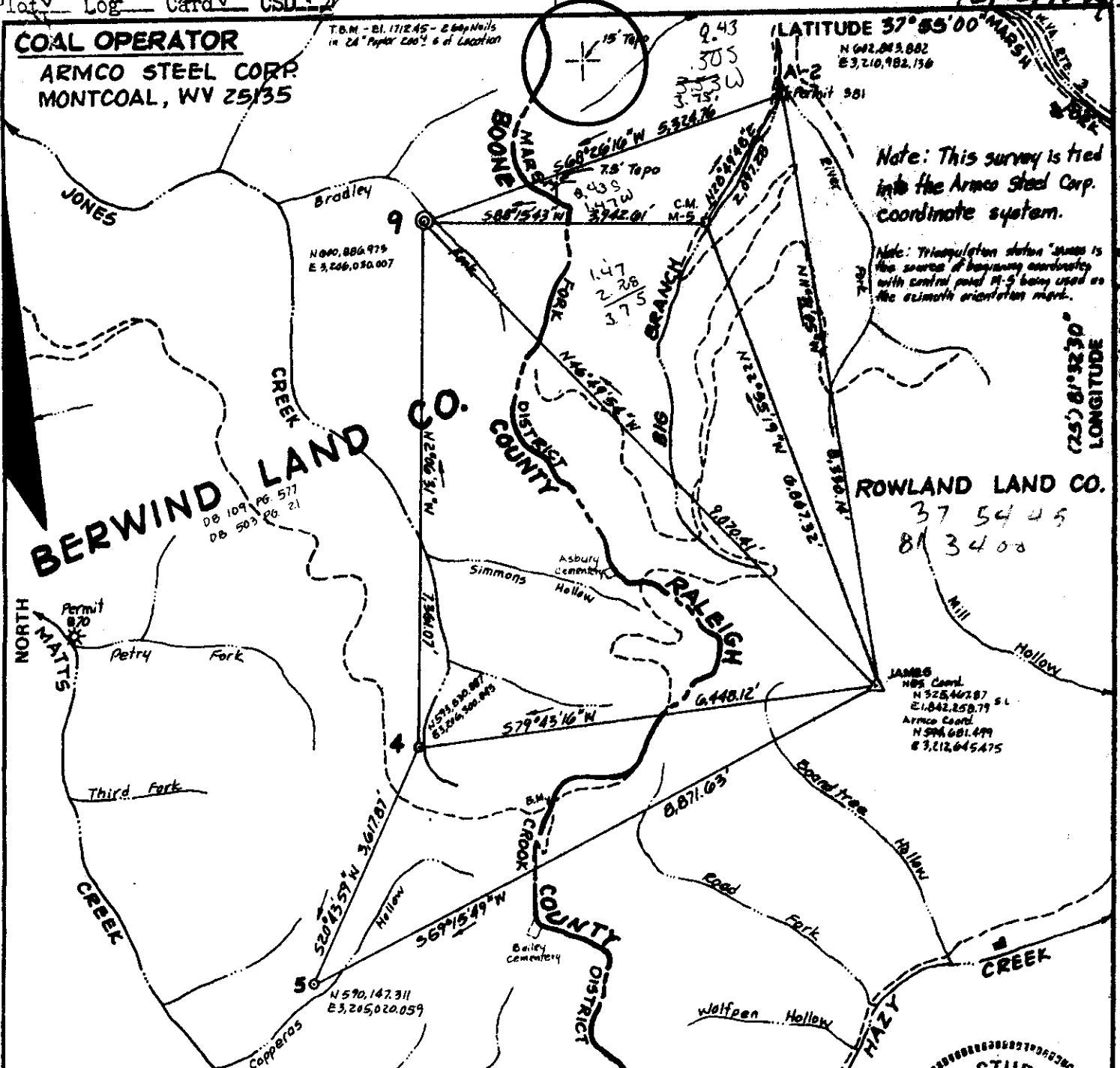


**COAL OPERATOR**

**ARMCO STEEL CORP  
MONTCOAL, WV 25135**

T.B.M. - Bl. 171245 - 2 1/2" Nails  
in 24" Paper Co. 1/2" of Location

LATITUDE 37° 55' 00"  
N 642,043.682  
E 3,210,982.150



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

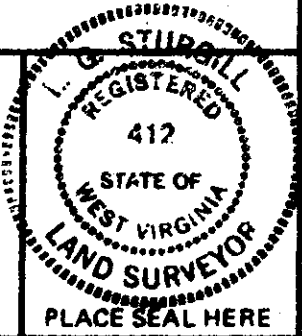
Note: Triangulation station 'James' is the source of bearing coordinates with control point 11-5 being used as the azimuth orientation mark.

ROWLAND LAND CO.  
37 54 25  
81 34 00

JAMES  
NS Coord.  
N 525,462.87 S.L.  
E 1,842,258.79  
Armco Coord.  
N 594,681.479  
E 3,212,645.475

FILE NO. W75-2 W.O. 315  
DRAWING NO. D-200  
SCALE 1" = 2,000'  
MINIMUM DEGREE OF ACCURACY 1'/20,000'  
PROVEN SOURCE OF ELEVATION U.S.G.S. BM 63AEK  
Elevation given as 2380.359

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
(SIGNED) J. H. Sturjill  
R.P.E. \_\_\_\_\_ L.L.S. 612



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE OCTOBER 29, 1979  
OPERATOR'S WELL NO. 9  
API WELL NO. \_\_\_\_\_  
47 - 005 - 1276  
STATE COUNTY PERMIT

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

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1710.238 WATER SHED BRADLEY FORK OF JONES CREEK  
DISTRICT CROOK COUNTY BOONE  
QUADRANGLE ZS' WHITESVILLE 15' BALD KNOB (W.E.) EC  
SURFACE OWNER BERWIND LAND COMPANY ACREAGE \_\_\_\_\_  
OIL & GAS ROYALTY OWNER BERWIND LAND COMPANY LEASE ACREAGE 8.044  
LEASE NO. 8579

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION WEIR ESTIMATED DEPTH 3,500'  
WELL OPERATOR TEXAS INT'L. PET. CORP. DESIGNATED AGENT JAMES M. BLANTON  
ADDRESS 200 NATIONAL FOUNDATION CENTER ADDRESS 710 ONE VALLEY SQUARE  
3335 N.W. 58th ST. - OKLA. CITY, OK 73112 CHARLESTON, WV 25301

HOPKINS FK - JARROLD VALLEY 247

JAN 10 1980



FORM IV-35  
(Obverse)

Operator's  
Well No. Berwind Land Co. #9

[08-78]

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 42-005 1276  
State County Perm

TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow  )  
Elevation: 1878.21 Watershed: Bradley Fork of Jones Creek  
District: Crook County: Boone Quadrangle: 7.5' Whitesville  
15' Bald Knob

OPERATOR Texas International Petroleum Corp. DESIGNATED AGENT James M. Blanton  
Address 3535 N. W. 58th Street Address Suite 740, One Valley Square  
Oklahoma City, Oklahoma 73112 Charleston, West Virginia 25301

WORK: Drill  / Convert  / Drill deeper  / Re-drill  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_  
FEB 14 1980

REPORT ISSUED ON December 12, 1979

OIL & GAS INSPECTOR FOR OIL & GAS DIVISION  
Name Arthur St. Clair DEPT. OF MINES

APPLICABLE: PLUGGING OF DRY HOLE OR  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

Address P. O. Box 157  
Brenton, West Virginia 24818

LOGICAL TARGET FORMATION: Weir Depth 3190  
Depth of completed well, 3515 feet Rotary  / Cable Tools   
Water strata depth: Fresh, none feet; salt, none feet.  
Coal seam depths: 294'-297'; 503'-508'; 580'-583' Is coal being mined in the area? No  
Work was commenced December 30, 1979, and completed January 14, 1980

LOGGING AND TUBING PROGRAM

LOG OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Drill pipe	1 1/2"		42#	X		20'	20'	None	Blends
Drill pipe	1 3/4"		42#	X		531'	531'		
Drill pipe	3-5/8"		24#	X		1739'	1739'	Cemented to surface.	Sizes
Drill pipe									
Drill pipe	4 1/2"		10.5#	X		3774'	3474'	Cemented with 100 sacks	Drilling set
Drill pipe									Perforations:
Drill pipe									

FLOW DATA

Producing formation Weir Pay zone depth 3190  
Gas: Initial open flow, N/M Mcf/d Oil: Initial open flow, 0.171 bbl/d  
Final open flow, 1212 Mcf/d Final open flow, 0.171 bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 825 psi; (surface measurement) after 72 hours shut in.  
(If applicable for multiple completion--)  
Second producing formation None Pay zone depth \_\_\_\_\_  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ bbl/d  
Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours

MAR 5 1980





DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated 3255'-3258', 2 shots/ft; 3263'-3268', 2 shots/ft.. Spotted 500 gal. 15% HCl. Loaded hole. Broke down formation w/2350 PSI. Fraced w/20,000# 80/100 sand, 45,000# 20/40 sand, 15,000# 10/20 sand, 885 bbls. fluid. AIR-33 BPM. AIP-2200 PSI. ISIP-1250 PSI, 5 minutes - 1000 PSI, 15 minutes - 900 PSI.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and
Surface	Brown	Soft	0	10	
Sand	Gray	Hard	10	294	
Coal	Black	Soft	294	297	Coal
Sand	Gray	Hard	297	321	
Sand & Shale	Gr/Blk	Medium	321	422	
Shale	Black	Soft	422	484	
Sand	White	Hard	484	503	
Coal	Black	Soft	503	508	Coal
Sand & Shale	Gr/Blk	Soft	508	580	
Coal	Black	Soft	580	583	Coal
Sand & Shale	Wh/Br	Medium	583	1281	
Salt Sand & Shale	White	Hard	1281	1770	
Sand	White	Hard	1770	1832	
Shale	Black	Soft	1832	1860	
Sand	White	Hard	1860	2033	
Shale	Black	Soft	2033	2221	
Avis Lime	Gray	Hard	2221	2264	
Shale	Black	Soft	2264	2308	
Maxton Sand	White	Hard	2308	2354	
Shale & Sand	Brown	Medium	2354	2663	Gas check @ 2360'.
Sand	White	Hard	2663	2748	
Shale	Gray	Soft	2748	2760	
Big Lime	White	Medium	2760	3160	
Injun Sand			3160	3190	Gas check @ 3188' - smell.
Weir Sand			3190	3251	
Shale			3251	3321	
L. Weir Sand			3321	3421	
Shale			3421	3515	T.D. Gas check - 4/10 thru H <sub>2</sub> O

(Attach separate sheets to complete as necessary)

Texas International Petroleum Corporation

Well Operator

*James M. Blanton*

By James M. Blanton

Its Division Manager

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Appalachian Drilling Company  
Address Suite 333-Morrison Building  
Charleston, West Virginia 25301

GEOLOGICAL TARGET FORMATION, Weir

Estimated depth of completed well, 3680 feet Rotary x / Cable tools      /

Approximate water strata depths: Fresh, indicated; salt,      feet.

Approximate coal seam depths: 32-38, 149-153, 435-438, 540-543, 659-663, 869-873 Is coal being mined in the area? Yes      / No x

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	11-3/4"		42#	x		25'	25'	None	Kinds
Fresh water	8-5/8"		24#	x		1900'	1900'	Cement to surface.	
Coal									Sizes
Intermediate									
Production	4 1/2"		10.5#	x		3680'	3680'	Cement w/100-200 sacks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 in connection therewith.

**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 8-13-80

*[Signature]*  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

re:     , 19     

By *[Signature]*  
Its *[Signature]*