



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

Note: Triangulation station "JAMES" is the source of bearing coordinates with control point A-S being used as the azimuth direction mark.

7.5' 0615 Loc. 15  
 37° 55' 1.615 1.615  
 81° 32' 30" 1.83W 4.10W

**COAL OPERATOR**  
 ARMCO STEEL CORP.  
 MONTCOAL, WV 25135

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1:10,000  
 PROVEN SOURCE OF ELEVATION Spike nail in twin poplar NE side of Matts Creek 1861.13

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) [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 6-1-175  
 18701



DATE \_\_\_\_\_  
 OPERATOR'S WELL NO. 3  
 API WELL NO. 47-005-1313  
 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 1799.03 WATER SHED MATT'S CREEK OF WEST FORK  
 DISTRICT CROOK COUNTY BOONE  
 QUADRANGLE 7.5 WHITESVILLE 15 BALD KNOB EC  
 JOINT OWNER BERWIND LAND COMPANY ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER BERWIND LAND COMPANY LEASE ACREAGE 0.01  
 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 3590'  
 OPERATOR TEXAS INT'L PET. CORP. DESIGNATED AGENT JAMES M. BLANCK  
 ADDRESS 300 NATIONAL FOUNDATION CENTER ADDRESS 740 ONE VALLEY SQUARE  
1225 NW 58th ST - OKLA. CITY, OK 73112 CHARLESTON, WV 25302

G-U HOPKINS FR - JARROLD'S VALLEY 247 MAY 15 1980





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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle 7.5 Whitesville

Permit No. Boo-1313  
(47-005-1313)

Company Texas International Petroleum Corp.  
Address 740 One Valley Sq., Chas., WV 25301  
Farm Berwind Land Company Acres 8.044  
Location (waters) Motts Creek of West Fork  
Well No. 3 Elev. 1795.03  
District Crook County Boone  
The surface of tract is owned in fee by Berwind Land Company  
Address One Valley Sq., Chas., WV 25301  
Mineral rights are owned by Berwind Land Company  
Address One Valley Sq., Chas., WV  
Drilling Commenced April 10, 1980  
Drilling Completed June 27, 1980  
Initial open flow 60/10 w-1" cu. ft. \_\_\_\_\_ bbls.  
Final production 1175 M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 8 hrs. before test 825 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 20"	40'	40'	None
Cond. 16"	60'	60'	None
<del>20-16</del> 11-3/4"	561'	561'	215 sx Thix.
9 5/8			
8 5/8	1742'	1742'	100 sx Thix. 195 sx Halliburton Lt.
7			
5 1/2			
4 1/2	3563'	3563'	90 sx cement & 5% CaCl <sub>2</sub> 4% gel.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

LOWER WEIR: Perforated 2 shots per foot - 3483'-3493'. Broke down w/500 gal. 15% HCl @ 3000 PSI. Used 30,000# 80/100 sand, 40,500# 10/20 sand. Highest sand concentration 6 1/2 PPG. 395 sand laden bbls. Total fluid 514 bbls. AIR-23 BPM. ISIP-3100 PSI. 1014 HP.

UPPER WEIR: Perforated 3117'-3132' 1 shot per foot. Broke down w/500 gal. 15% HCl @ 1500 PSI. Frac w/30,000# 80/100 sand & 75,000# 10/20 sand. 550 sand laden fluid; total fluid-727 bbls. Highest sand concentration 6 PPG. AIR-28 BPM. H.P. 1118. ISIP-700 PSI.

Coal was encountered at 222-240', 308-311', 404-408', 522-526' \_\_\_\_\_ Inches  
Fresh water 22', 845' \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ H.P. \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Weir \_\_\_\_\_ Depth 3484-3493'  
Upper Weir 3117-3132'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Measurement 10' above surface			0	10		
Loose soil & sand			10	25		Fresh water @ 22'
Shale			25	39		
Sand			39	220		
Coal			220	222		Coal
Sand Shale			222	308		
Coal			308	311		Coal
Sandy Shale			311	404		
Coal			404	408		Coal
Sandy Shale			408	522		
Open Mine			522	526		
Sand			526	714		
Coal			714	718		
Sand & Shale			718	870		Fresh water @ 845'
Sand			870	902		
Sandy Shale			902	1350		
Sand			1350	1968		Show of gas @ 1960'
Princeton Sand			1968	2069		
Ravencliff Sand			2069	2179		
Shale			2179	2204		
Avis Lime			2204	2237		
Sandy Shale			2237	2391		
Upper Maxton			2391	2525		
Sand & Shale			2525	2625		
Lower Maxton			2625	2712		

*\* Note: P1 card lists perf set in Upper Weir @ 3333-3363 above circled depths would put the perf in the Reg. lim.*

AUG 4 1980





Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			2712	2808		
Little Lime			2808	2870		
Sandy Shale			2870	2898		
Big Lime			2898	3228		
Injun Sand			3228	3245		
Sand & Shale			3245	3333		Gas check @ 3324', 60/10 w/1" O.P.
Upper Weir			3333	3363		
Sandy Shale			3363	3476		
Lower Weir			3476	3491		
Sandy Shale			3491	3601		T.D. - Gas check @ 3505', 84/10 w/7" O.P.

Date July 16, 19 80



