

# RECEIVED

JUL 28 1981

State of West Virginia  
 OIL & GAS DIVISION Department of Mines  
 DEPT. OF MINES Oil and Gas Division  
 WELL RECORD

Operator's June 3, 1981  
 Well No. 1-1506  
 API Well No. 47-001-1483  
 Hollie T. Stewart # 1-1506

Well Type: Oil      / Gas XX / Liquid Injection      / Waste Disposal      /  
 (If "Gas", Production XX / Underground storage      / Deep      / Shallow XX /

Location: Elevation: 1330' Watershed Pigtail Run

District: Pleasant County: Barbour Quadrangle: Brownston

Well Operator Union Drilling, Inc. Designated Agent Union Drilling, Inc.

Address P.O. Drawer 40 Address P.O. Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201

Permitted Work: Drill XX / Covert / Drill deeper / Redrill /  
Fracture or stimulate XX / Plug off old formation /  
Preforate new formation / Other physical change in well (specify)

Permit Issued on November 21, 1980

Oil & Gas Inspector for This Work:  
 Name: Robert Stewart  
 Address: P.O. Box 345  
Jane Lew, WV 26378

Geological Target Formation: Benson Depth 4500 feet  
 Depth of completed well, 4809 feet Rotary XX / Cable Tools      /  
 Water strata depth: Fresh 1/2" @ 15' feet; Salt;      feet.  
 Coal seam depths: None Is coal being mined in the area? No  
 Work was commenced 3/22/81, and completed 3/29/81

Casing and Tubing Program

Casing or Tubing Type	Size	Specifications			Footage Intervals		Cement Fill-Up Or Sacks (cubic feet)	
		Grade	Weight per ft	New	Used	For drilling		Left in well
Conductor	11 3/4"			X		71'	71'	
Fresh Water								
Intermediate	8 5/8"		23#	X		1024.85'	1024.85'	280 sks
Production	4 1/2"		10 1/2#	X		4701.9'	4701.9'	720 sks.
Blanketing								
Annular Sealers								

Well Treatment details:

Halliburton Water Fracture 4/14/81

Big Injun	1707/11'	385 bbls. Water, 13,000# Sand
5th Sand	2613/17'	385 bbls. Water 13,000# Sand
Bradford	3728/32'	385 bbls. Water 13,000# Sand
Benson	4488/90, 4501/02, 4578/80'	375 bbls Water 13,000# Sand

Initial open flow, Show Mcf/d Oil: Initial open flow,      Bbl/d  
 Final open flow, 1592 mcf Mcf/d Final open flow,      Bbl/d  
 Static Rock Pressure, 1150# psig (surface measurement) after 72 hours shut in.

(Well log on reverse side)

AUG 11 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Fill			0	10		
Sand & Shale			10	1586		1/2" Water @ 15'
Big Lime			1586	1666		
Big Injun			1666	1762		
Sand & Shale			1762	2554		
4th Sand			2554	2590		
Sand & Shale			2590	2614		
5th Sand			2614	2642		
Sand & Shale			2642	3740		
Bradford			3740	3772		
Sand & Shale			3772	4504		
Benson			4504	4566		
Sand & Shale			4566	4598		
<u>Benson</u> Stray			4598	4610		
Sand & Shale			4610	4809 TD		

Date June 15, 1981

APPROVED UNION DRILLING, INC. Owner

By Joseph C. Petty  
Joseph C. Petty, Production Mgr.