

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

NOV 22 1985

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11/20/85	
Company Union Texas Petroleum Corp.		Connection El Paso Natural Gas Co.	
Pool Blanco		Formation Pictured Cliffs	
Completion Date 10/24/85		Total Depth 3580	
Plug Back TD 3550		Elevation 6552	
Farm or Lease Name Johnston Federal		Well No. 11J	
Csg. Size 2.875	Wt. 6.50	d 2.441	Set At 35
Perforations: From 3383 To 3443			
Inq. Size no tubing	Wt. no tubing	d no tubing	Set At no tubing
Type Well - Single - Brdrenhead - G.O. or G.O. Multiple Single		Packer Set At —	
Producing Thick Casing		Baro. Press. - P _a 12	
County San Juan		State New Mexico	
L 3371	H —	G _g 0.650	% CO ₂ —
% N ₂ —	% H ₂ S —	Prover —	Meter Run —
Taps —			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"		3/4"								
1.									620		11 days
2.									50	63°	3 hours
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		62	.9971	.9608	1.000	734
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

NO.	P _i ²	P _w	P _r ²	P _r ² - P _w ²
1		62	3844	395,580
2.				
3.				
4.				
5.				

$P_c = 632$ $P_c^2 = 399,424$
 (1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0097$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0081$
 AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 740$

Absolute Open Flow	Mcfd @ 15.025	Angle of Slope °	Slope, n
			0.85

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Connie Cleversen	Barbara Norman	