

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

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/20/88	
Company Union Texas Petroleum Corp.				Connection Union Texas Petroleum Corp.	
Pool Otero				Formation Chacra	
Completion Date 7/11/88		Total Depth 4175		Plug back TD 4136	
				Elevation 6619 GL	
Csg. Size 4.500		Wt. 11.6		Set At 4175	
Perforations: From 3890 To 4032		Well No. 5			
Tng. Size 2.375		Wt. 4.7		Set At 4003	
Perforations: Open-ended		Unit A		Sec. 16	
		Twp. 28N		Rqs. 9W	
Type Well - Single - Bronsonhead - G.G. or G.O. Multiple Single-gas				Packer Set At	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F •		Mean Annual Temp. °F		Baro. Press. - P _g 12	
State New Mexico					
L		H		Gg	
				0.670	
% CO ₂		% N ₂		% H ₂ S	
				Prover	
				Meter Run	
				Taps	
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1	2"		3/4"		
2					
3					
4					
5					
TUBING DATA					
	Press. p.s.i.g.	Temp. °F			
	921				
	98	62°			
CASING DATA					
	Press. p.s.i.g.	Temp. °F			
	921				
	203	62°			
Duration of Flow					
					3 hours
					7 days
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg
1	12.3650		110	0.9981	0.9463
2					
3					
4					
5					
NO.	F _g	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio
1					A.P.I. Gravity of Liquid Hydrocarbons
2					Specific Gravity Separator Gas
3					Specific Gravity Flowing Fluid
4					Critical Pressure
5					Critical Temperature
Mcf/bbl. Deq. XXXXXXXXX P.S.I.A. R					
JUL 23 1988 OIL CON. DIV. DIST. 9					
F _c 933 P _c ² 870,489					
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0561$
1		215	46,225	824,264	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0417$
2					
3					
4					
5					
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1352$					
Absolute Open Flow 1352 Mcfd @ 15.025 Angle of Slope 0 Slope, n 0.75					
Remarks: Dry					
Approved By Division					
Conducted By: John Rector					
Calculated By: John Rector					
Checked By:					