

MEXICO OIL CONSERVATION COM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-3-77	
Company Texas Pacific Oil Company, Inc.				Connection To Air	
Pool Jalmat Gas				Formation Jalmat Gas	
Completion Date 9-12-77		Total Depth 3700		Plug Back To 3630	
Elevation 3341 GL		Farm or Lease Name State "A" A/C - 2			
Csg. Size 5 1/2"	Wt. 14.0	d 5.012	Set At 3700	Perforations: From 3034 To 3577	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3689	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.O. Dual				Packer Set At 3426	
Producing Thru Annulus		Reservoir Temp. °F 85 @ 3306		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico			
L 3306	H 3306	G _g est. 0.675	% CO ₂ ---	% N ₂ ---	% H ₂ S ---
Prover 4"		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	4" Prover						Packer	choke	414.0		
1.	1.250"			10.0	-	60		14/64"	412.0		60 min.
2.	1.250"			24.5	-	58		19/64"	407.0		60 min.
3.	1.250"			47.5	-	59		32/64"	398.0		60 min.
4.	2.000"			22.5	-	59		36/64"	389.0		60 min.
5.	2.000"			48.0	-	54		48/64"	354.0		60 min.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	★ Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	25.91	-	23.2	1.0000	1.217	1.000	732
2	25.91	-	37.7	1.0020	1.217	1.000	1191
3	25.91	-	60.7	1.0010	1.217	1.000	1916
4	67.08	-	35.7	1.0010	1.217	1.000	2917
5	67.08	-	61.0	1.0060	1.217	1.000	5010

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio none	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas 0.675	Specific Gravity Flowing Fluid 0.669	Critical Pressure 382	Critical Temperature
1	0.03	520	1.36							
2	0.06	518	1.36							
3	0.09	519	1.36							
4	0.03	519	1.36							
5	0.09	514	1.35							

NO.	P _t ²	P _w	P _t ² - P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1			181.0	1.5		4.753	3.130
2			177.1	5.4			
3			170.5	12.0			
4			165.0	17.5			
5			144.1	38.4			

Absolute Open Flow 15,681 Mcfd @ 15.025				Angle of Slope 53.8		Slope, n 0.732	
* Fpv factors less than listings in table. Point alignment not exact.							
BISCO WELL SERVICES INDEPENDENT GAS TESTER							
Approved By Commission: _____		Conducted By: HOBBS, N.M.		Calculated By: Ralph E. Brown		Checked By: _____	

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1977

OIL CONSERVATION COMM.
HOBBS, N. M.