

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 07-24-90	
Company Texaco, Inc.				Connection Vented	
Pool				Formation Jalmat	
Completion Date		Total Depth		Plug Back TD	
				Elevation	
Form or Lease Name Mexico "J"					
Csg. Size 5 1/2	Wt. 17	d 3090	Perforations: From 2647 To 3061		Well No. 2
Tbg. Size 7 7/8	Wt. 6.5	d 2.441	Perforations: From OPEN To END		Unit Sec. Twp. Rge. 32 24S 38E
Type Well - Single - Broadhead - G.C. or G.O. Multiple				Packer Set At	
				County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 77 @ 2615		Mean Annual Temp. °F 60°	
				Baro. Press. - P _a 13.2	
L 2615		H 2615	G _g .723	% CO ₂ 2.77	% N ₂ 1.20
				% H ₂ S ---	Prover 2.067
					Meter Run 2.067
					Taps Flg.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. Hg	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2	X	1.000	19	30.00	60	1100	23.	PKR		24 hrs.
2.									PKR		12 hrs.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf
1.	4.946	31.08	32.2	1.000	1.176	NIL	181
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	DRY	Deq.
2.					Specific Gravity Separator Gas	.723	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	668	P.S.I.A.
5.					Critical Temperature	398	R

$P_c = 1113.2$ $P_c^2 = 1281.9$					$(1) \frac{P_c^2}{P_r^2 - R_w^2} = 1.001$	$(2) \left[\frac{P_c^2}{P_r^2 - R_w^2} \right]^n = 1.001$
NO.	P _r ²	P _w	R _w ²	P _r ² - R _w ²		
1		36.2	1.31	1280.6		
2						
3						
4						
5						

$AOF = Q \left[\frac{P_r^2}{P_c^2 - R_w^2} \right]^n = .181$		
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Absolute Open Flow	181	Mscf @ 15.025	Angle of Slope @	45	Slope, n	1.000
Remarks						

Approved By Division	Conducted By	Calculated By	Checked By
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