

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-20-83			
Company Oxoco Production Corp.				Connection				
Pool Blanco				Formation Mesa Verde		Unit		
Completion Date 6-8-83		Total Depth 5950		Plug Back TD 5881		Elevation 6371 KB		Farm or Lease Name Rattlesnake Canyon
Csg. Size 4 1/2		Wt. 11.6		Set At 4.00		Perforations: From 5334 To 5773		Well No. 1
Tng. Size 2 3/8		Wt. 4.7		Set At 1.995		Perforations: From none To		Unit Sec. Twp. Rge. 1 20 32N 8W
Type Well - Single - Bradenhead - G.G. or C.O. Multiple single					Packer Set At none		County San Juan	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico
L		H		G _g 0.58		% 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.	
SI	2		6 x 3/4				1057		1059	
1.							215		540	30
2.										
3.										
4.										
5.										

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	11		227	1.030	1.313	1.022	3,451
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.J. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcft/bbl. Deg.
1.	0.338	490	1.400	0.957							
2.											
3.											
4.											
5.											

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	1071	1147	227	52
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.047$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,572$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.035$

Absolute Open Flow	3,572	Mcfd @ 15.025	Angle of Slope @	Slope, n 0.75
--------------------	-------	---------------	------------------	---------------

Remarks: all squared pressures are x 10³

Approved by Division	Conducted By: J. Alexander	Calculated By: J. Alexander	Checked By:
----------------------	-------------------------------	--------------------------------	-------------