

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-22-74	
Company Jerome P. McHugh				Connection	
Pool Gavilan				Formation Pictured Cliffs	
Completion Date 5-3-74		Total Depth 3684' RKB		Plug Back TD 3628'	
				Elevation 7454' RKB	
Farm or Lease Name Cougar					
Csg. Size 4 1/2"	Wt. 10.5# & 11.6#	d 4.052	Set At 3684'	Perforations: From 3568' To 3604'	
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 3610'	Perforations: From Open End To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru Tubing				County Rio Arriba	
Reservoir Temp. °F @		Mean Annual Temp. °F		State New Mexico	
L	H	Gg .62 est	% 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							664		700		7 days
1.											
2.											
3.	3/4" Pos. Choke			30		57°			290		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2.							
3.	12.365		42	1.0029	.9837	1.000	512
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 712$ $P_c^2 = 506,944$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2194$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1836$	
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1					
2					
3		302	91,204	415,740	
4					
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 606$			
Absolute Open Flow <u>606</u> Mcfd @ 15.025		Angle of Slope Θ _____	
		Slope, n <u>.85</u>	
Remarks: _____			
Approved By Commission:		Conducted By: <u>Crane</u>	
		Calculated By: <u>Jacobs</u>	
		Checked By:	