

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

RECEIVED
JUL 30 1970
OIL CON. COM.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-28-70	
Company Jerome P. McHugh		Connection	
Pool Basin		Formation Dakota	
Completion Date 6-18-70		Total Depth 8195	Plug Back TD 8155
Casing Size 4 1/2		Well No. 1	Elevation 7080
Well Wt. 11.6		Perforations: From 7980 To 8150	Form of Lease Name Tribal
Tubing Size 1 1/4		Perforations: From open end To	Unit Sec. Twp. Rge. D 16 26N 3W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - GGS		Packer Set At -	County Rio Arriba
Producing Thru Tbg		Reservoir Temp. °F 8	State New Mexico
Mean Annual Temp. °F 72		Baro. Press. - P _a	
H		G _g	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1680		2158		
1.											
2.											
3.	2		5/8	97		72			858		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							
3.	8.5417		109	9887	.9129	1.012	850
4.							
5.							

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

P _c 2170	P _c ² 4708900				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1915$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1404$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1.						
2.						
3.	870	756900	395200		AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 969$	
4.						
5.						

Absolute Open Flow	969	Mcfd @ 15.025	Angle of Slope °	Slope, n .75
Remarks:				
Approved By Commission:	Conducted By: <i>Hughes</i>	Calculated By: <i>Hughes</i>	Checked By:	