

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date	
Company Jerome P. McHugh				Connection			
Pool Basin - Dakota				Formation Dakota		Unit	
Completion Date 8-26-80		Total Depth 7723'		Plug Back TD 7674'		Elevation 6794 KB	
Csg. Size 4-1/2"		Wt. 11.6 & 10.5#		Set At 4.052 7723'		Perforations: From 7492 To 7665	
Tbg. Size 1-1/2"		Wt. 2.9#		Set At 1.610 7630'		Perforations: From Open end To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single Gas						Packer Set At	
Producing Thru Tbg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		Gg .65 est.		% CO ₂ % N ₂ % H ₂ S Prover	
Meter Run		Taps		County Rio Arriba			
State New Mexico							

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							1850		2545		7 days
1.											
2.											
3.	3/4" Pos. choke			163		62°			1130		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	Superficial Flow Factor, F _{sf}
1						
2						
3	12.365		175	.9981	.9608	1.017
4						
5						

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

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.2492$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.1816$
1						
2						
3	1142	1,304,164	5,234,086			
4						
5						

Absolute Open Flow 2493		Mcf @ 15.025	Angle of Slope	Slope, n .75
Remarks:				

Approved By Division	Conducted By: Hazen	Calculated By: Jacobs	Checked By:
----------------------	---------------------	-----------------------	-------------