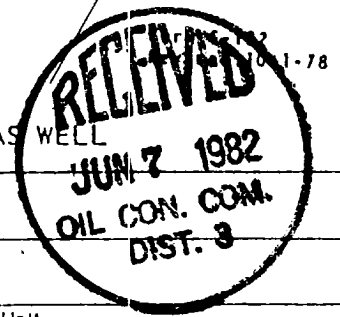


3 NMOCD

1 McHugh 1 File
OIL CONSERVATION DIVISIONSTATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-2-82	
Company Jerome P. McHugh				Connection	
Pool Gavilan				Formation Pictured Cliffs	
Completion Date 5-24-82		Total Depth 3630'		Plug Back TD 3583'	
				Elevation 7270'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 3620'	
Perforations From 3504 To 3576				Well No. 1	
Tub. Size 1 1/2"		Wt. 2.4#		Set At 3482'	
Perforations From --- To ---				Unit Sec. Twp. Rye. A 16 25N 2W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ---	
Producing thru tubing				County Rio Arriba	
Reservoir Temp. *F		Mean Annual Temp. *F		State New Mexico	
L H Gg .62		% 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							886		886		7 days
1.	9/16"						9	61°	287		3 hrs.
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	6.829		21	.999	.9837	1.000	140.9
2.							
3.							
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 _____ XXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ H

P _c 898	P _c ² 806,404	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.125$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.11$
NO. 1	P ₁ ² 299	P _w ² 89,401	P _c ² - P _w ² 717,003
2.			
3.			
4.			
5.			

Absolute Open Flow 156		Mcf @ 15.025	Angle of Slope 40°	Slope, n .85
Remarks: Heavy mist of foam throughout test!				