

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		Date 3-5-76	
Company Horace McKay		Connection Waiting on pipeline	
Pool Aztec P. C.		Formation Pictured Cliffs	
Completion Date 2-13-76		Total Depth 1801'	Plug Back TD 1761
		Elevation 5450	Farm or Lease Name McKay
Csg. Size 2.875	Wt. 6.50	d 2.441	Set At 1801
Perforations: From 1724 To 1744		Well No. 1	
Tbg. Size NONE	Wt.	d	Set At
Perforations: From To		Unit Sec. Twp. Rge. 19 29N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At NONE	County San Juan
Producing Thru Casing	Reservoir Temp. °F 83 @ 1801	Mean Annual Temp. °F -	Baro. Press. - P _a 12.0
State New Mexico			
L 1724	H 1724	Gg 0.65	% 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
1.									406		8 da.
2.									91		3 hrs.
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		103	1.0000	0.9608	1.0000	1.224
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 418	P _c ² 174,724		
NO.	P _t ²	P _w	P _w ²
1		119	14,161
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0881$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.315$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0744$

Absolute Open Flow	1.315	Mcfd @ 15.025	Angle of Slope θ	Slope, n
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Remarks: Calculated PW = 119

Approved By Commission:	Conducted By: Hurchel Williams	Calculated By: Ewell N. Walsh	Checked By:
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