

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

Form C-127
Revised 9-1965

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-19-82	
Company R. E. Lauritsen				Connection			
Pool Busty				Formation Chacra			
Completion Date 9-12-82		Total Depth 1977		Plug Back TD 1804		Elevation 6847	
Form or Lease Name Mex-Pro Fed				Well No. #138			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 1805	Perforations: From 1734 To 1778			
Tub. Size 1.660	Wt. 2.33	d 1.380	Set At 1710	Perforations: From To		Unit Sec. Twp. Rge. H 5 22 7	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At		County Sandoval	
Producing Thru Tbg		Reservoir Temp. °F °		Mean Annual Temp. °F °		Baro. Press. - P _a 12	
L H		Gg .60		% CO ₂		% H 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.	
SI							369		369	
1.	2"		.750 choke	7		70°				
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		19	.9905	1.000	1.003	233
2.							
3.							
4.							
5.							

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

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	145161	220	48400	96761
2				
3				
4				
5				

$$(1) \frac{P_t^2}{P_t^2 - P_w^2} = 1.5002$$

$$AOI = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^{n' .75} = 316$$

$$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^{n' .75} = 1.3555$$

Absolute Open Flow	316 Mcf/D	Mcf @ 15.025	Angle of Slope	Slope, n .75
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Remarks: Clear Gas for app. 8 min, then light mist of H₂O for app 1 hr, then slugs of H₂O (low of app 2 lbs to a high of 14 lbs during 3 hr reading) (used 2 lbs for cal test)

Approved by Commission	Computed by R. H. Headrick	Correlation by R. H. Headrick	Checked by
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