

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

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date							
Company Brunson & McKnight			Connection None								
Pool Wildcat			Formation Morrow		Unit OJO Chisos Unit						
Completion Date 2-12-74		Total Depth 14,739'	Plug Back TD 13,230'	Elevation 3500' KB	Farm or Lease Name OJO Chisos Unit						
Con. Liner 7 5/8"	Wt. See Attachment	d	Set At	Perforations: From 13,187' To 13197'							
Fig. Size 2 7/8"	Wt. 6.5	d	Set At 13,047'	Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 13,037'							
Producing Thru Tubing		Reservoir Temp. °F 234 @ 13,192'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2							
L 13,047	H 13,047	G _g .594	% CO ₂ .0046	% N ₂ .0035	% H ₂ S None						
Prover			Meter Run 4,026	Taps Flange							
FLOW DATA			TUBING DATA		CASING DATA						
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	Duration of Flow
SI											
1.	4.0		2.750	540	8	84	5336	68			60 Min
2.	4.0		2.750	552	16	90	5046	72			60 Min
3.	4.0		2.750	555	41	64	3863	72			60 Min
4.	4.0		2.750	560	56.5	62	3201	72			60 Min
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	41.10	66.53	553.2	.9777	1.299	1.044	3,626				
2	41.10	95.10	565.2	.9723	1.299	1.044	5,154				
3	41.10	152.63	568.2	.9962	1.299	1.044	8,475				
4	41.10	179.96	573.2	.9971	1.299	1.044	10,002				
5											
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>No fluid</u> Mcf/bbl.						
1	.823	544	1.53	.918	A.P.I. Gravity of Liquid Hydrocarbons <u>No</u> Deg.						
2	.841	550	1.55	.917	Specific Gravity Separator Gas <u>.594</u> X X X X X X X X						
3	.840	524	1.48	.917	Specific Gravity Flowing Fluid <u>X X X X X</u>						
4	.840	522	1.47	.917	Critical Pressure <u>670</u> P.S.I.A. P.S.I.A.						
5					Critical Temperature <u>368</u> R R						
P _c <u>7587.2</u> P _c ² <u>57565</u>											
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5753$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4741$				
1	6811.2	46394	11171								
2	6521.2	42526	15039								
3	5285.2	27933	29632								
4	4585.2	21024	36541		AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,744$						
5											
Absolute Open Flow <u>14,744</u> Mcfd @ 15.025				Angle of Slope @ <u>49.5</u>				Slope, n <u>.855</u>			
Remarks:											
Approved By Commission:			Conducted By:			Calculated By:			Checked By:		
<i>[Signature]</i>			<i>[Signature]</i>			<i>[Signature]</i>			<i>[Signature]</i>		