

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

Form C-122
 Revised 9-1-65

RECEIVED

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C-122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-20-74		SEP 30 1974	
Company Mark Production Company				Connection None				O. C. C.	
Pool Cemetary (Morrow)				Formation Morrow				Unit ARTESIA, OFFICE G	
Completion Date 9-12-74		Total Depth 9500'		Plug Back TD 9470'		Elevation 3514 DF		Farm or Lease Name S. P. Johnson	
Coq. Size 4 1/2	Wt. 10.5 & 11.6	d 9500'	Set At 9500'	Perforations: From 9276 To 9389		Well No. 1			
Tag. Size 2 3/8	Wt. 4.70	d N-80	Set At 9224	Perforations: From To		Unit G	Sec. 5	Twp. 20-S	Rgc. 25-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9224		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 220 @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .588	% CO ₂	% N ₂	% H ₂ S	Provor	Moter Run X	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Provor Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	3.0		2.0	225	7	36	2020	63			1 Hr
2.	3.0		2.0	230	10	68	1721	63			1 Hr
3.	3.0		2.0	230	12.5	78	1496	74			1 Hr
4.	3.0		2.0	230	25	70	1260	73			1 Hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	21.32	40.83	238.2	1.0239	1.3041	1.023	1189
2.	21.32	49.31	243.2	.9924	1.3041	1.020	1388
3.	21.32	55.13	243.2	.9831	1.3041	1.019	1536
4.	21.32	77.97	243.2	.9905	1.3041	1.019	2188
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None Produced	Mcfd/bbl.
1.	.35	496	1.40	.956	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.36	528	1.49	.962	Specific Gravity Separator Gas	XXXXXXXXXX	
3.	.36	538	1.52	.964	Specific Gravity Flowing Fluid	XXXXXX	
4.	.36	530	1.50	.963	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	354	R

NO.	P _r	P _w	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{9176}{7408}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2386$
1.		2043.3	4175	5001		
2.		1749.5	3061	6115		
3.		1532.9	2350	6826		
4.		1329.8	1768	7408		
5.						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2710.0$

checked 10-4-74

Absolute Open Flow	2710	Mcf/d @ 15.025	Angle of Slope θ	45°	Slope, n	1.0
Remarks:						
Approved By Commission: _____ Conducted By: W T Hagler Calculated By: H L Hagler Checked By: _____ WEST TEXAS CONSULTING SERVICE, INC.						