

ROSWELL OFFICE COPY

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/1/73		JUN 15 1973	
Company McClellan Oil Corporation				Connection No		O. C. C.	
Pool Wildcat <i>linking</i>				Premier Sand		Unit ARTESIA, OFFICE	
Completion Date 4/29/73		Total Depth 2525		Plug Back TD 2438		Elevation 3715 GR	
Csg. Size 4 1/2		Wt. 9.5		Set At 2523		Perforations: From 2396 To 2420	
Tbg. Size 2 3/8		Wt. 4.7		Set At 2418		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 88 @ 2400		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 2418		H 2418		G _g .820		% CO ₂	
				% N ₂ 58.11%		% H ₂ S	
				Prover X		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							826		826	
1.	2	x	0.75	2.0		84	787	76	787	76
2.	2	x	1.00	10.2		83	732	76	734	76
3.	2	x	1.25	22.0		79	562	76	574	76
4.	2	x	1.25	31.0		79	451	78	470	78
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	9.453		15.2	.9777	1.104	1.000	155
2	17.09		23.5	.9786	1.104	1.000	434
3	27.63		35.2	.9822	1.104	1.000	1055
4	27.63		44.2	.9822	1.104	1.000	1324
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio TSTM	Mcf/bbl.
1.	0.03	544	1.96	*	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	0.04	543	1.95	*	Specific Gravity Separator Gas	.820
3.	0.06	539	1.94	*	Specific Gravity Flowing Gas	XXXXXX
4.	0.08	539	1.94	*	Critical Pressure	XXXXXX
5.					Critical Temperature	XXXXXX

NO.	P _c	P _w	P _r	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	839.2	704.3	800.2	640.3	64.0	1.474
2			747.2	558.3	146.0	
3			587.2	344.8	359.5	
4			483.2	233.5	470.8	
5						

Absolute Open Flow 1952 Mcfd @ 15.025		Angle of Slope θ		Slope, n .963	
Remarks: * Below limits of table.					
Approved By Commission: Conducted By: Calculated By: Checked By:					