

**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				Test Date 7/21/82		RECEIVED JUL 27 1982	
Company McCLELLAN OIL CORP				Connection air			
Pool Wildcat				Formation Queen		Unit ROSWELL, NEW MEXICO	
Completion Date 5/12/82		Total Depth 2110		Plug back TD 2103		Elevation 3830	
Csg. Size 4 1/2	Wt. 9.5	d 4.09	Set At 2103	Perforations: From 2066 To 2077		Well No. 1	
Trq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2070	Perforations: From open To ended		Unit Sec. Twp. Rge. 0 4 14S 30E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 94 @ 2070		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
State New Mexico							
L 2070	H	G _g .895	% CO ₂ .09	% N ₂ 64.955	% H ₂ S	Prover 2"	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	
SI							605	93	640		
1.	2	X	.76		21	84	453		490		1 hr
2.	2	X	.75		30	84	276		385		"
3.	2	X	.75		38	84	156		320		"
4.	2	X	.75		47	84	34		140		"
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	265			.9777	1.057	1.0815	296
2	333			.9777	1.057	1.0460	356
3	3866			.9777	1.057	1.025	408
4	435			.9777	1.057	1.006	452
5.							

NO.	P _i	Temp. °R	T _i	z	Gas Liquid Hydrocarbon Ratio _____ Mcf/ubl.
1	.737	554	1.23	.854	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.456	554	1.23	.912	Specific Gravity Separator Gas _____ X X X X X X X X
3	.266	554	1.23	.949	Specific Gravity Flowing Fluid _____ X X X X X
4	.098	554	1.23	.981	Critical Pressure _____ 657 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 450 _____ R _____ R

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} =$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n =$
1	654	489	239	188	1.01	1.02
2		234	54	374		
3		172	29	393		
4		61	4	424		
5						

Absolute Open Flow _____ 460 _____ Mcfd @ 14.625		Angle of Slope _____ 29.5 _____		Slope, n _____ 1.77 _____	
Remarks:					

Approved By: _____	Conducted By: KEITH SERVICES	Calculated By: Kally	Checked By: <i>[Signature]</i>
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