

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

Form C-122
Revised 9-1-65

RECEIVED
AUG 3 1981

Type Test ☒ Initial ☐ Annual ☐ Special				Test RECEIVED 7-20-81			
Company McClellan Oil Corporation				Connection To Air		AUG 17 1981	
Pool Wildcat Uno Uno				Location Abo		U.S. GEOLOGICAL SURVEY Unit ROS WELL, NEW MEXICO	
Completion Date 7-2-81		Total Depth 4690		Plug Back TD 4690		EARTHQUAKE OFFICE 3657 G.L.	
Csg. Size 4 1/2	Wt. 10.5#	d 4.052	Set At 4690	Perforations: From 3967 To 4327		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 3907	Perforations: From Open To Ended		Unit Soc. Twp. Rge. J 1 9 S 25 E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County Chaves	
Producing Thru tubing		Reservoir Temp. °F 121° 4147		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State N. Mex.							
L 4147	H 4147	Gg .6464	% CO ₂ -0-	% N ₂ 5.378	% H ₂ S -0-	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							980				72 Hrs.
1.	2"	x	3/16	740		68°	743		735		1 Hr.
2.	2"	x	1/4	510		63°	512		580		1 Hr.
3.	2"	x	1/4	350		73°	353		450		1 Hr.
4.	2"	x	5/16	210		73°	214		340		1 Hr.
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	.6082		753.2	.9924	1.244	1.068	604
2	1.087		523.2	.9971	1.244	1.042	735
3	1.087		363.2	.9877	1.244	1.031	500
4	1.672		223.2	.9877	1.244	1.019	467
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	-0-	Mcf/bbl.
1.	1.14	528	1.46	.876	A.P.I. Gravity of Liquid Hydrocarbons	-0-	Deg.
2.	.793	523	1.45	.911	Specific Gravity Separator Gas	-0-	X X X X X X X X
3.	.550	533	1.48	.941	Specific Gravity Flowing Fluid	X X X X X	
4.	.338	533	1.48	.941	Critical Pressure	660	P.S.I.A. -0- P.S.I.A.
5.					Critical Temperature	361	R -0- R

P _c * 932.10 P _w * 868.8				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.17147$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.08235$	
NO.	P ₁	P _w	P _w ²	P _c ² - P _w ²			
1		767.2	588.6	280.2			
2		597.5	357	511.79			
3		467.71	218.8	650.05			
4		356.6	127.16	741.63			
5							

Absolute Open Flow 505.45 Mcfd @ 15.025		Angle of Slope 63.5		Slope, n .5000	
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Remarks: *** Used 63.5 thru low rate**
Calculated from known bottom hole pressure

Approved By Commission:	Conducted By: W.S.	Calculated By: M.K.	Checked By: M.K.
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