

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

1-File
1-C-122

RECEIVED
Form C-122
Revised 9-1-65

APR 20 1979

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/12/79		O. C. C. SPUD DATE: 2-17-79	
Company McClellan Oil Corporation				Connection None					
Pool Wildcat and Penjack				Formation Abo				Unit #	
Completion Date 3-20-79		Total Depth 4472		Plug Back TD 4422		Elevation 3663 ft.		Farm or Lease Name Tolmac State	
Csg. Size 4 1/2	Wt. 10.5	d 1.995	Set At 4472	Perforations: From 4034 To 4052		Well No. 1			
Tub. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3970	Perforations: From open To hole		Unit P	Sec. 36	Twp. 9	Page 25
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Chaves	
Producing Thru Tbg. L 4048		Reservoir Temp. °F 112 @ 4048		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
H 4048	Gg .667	% CO ₂ 2.5	% N ₂ 6.13	% H ₂ S	Prover 6"	Meter Run Positive Choke	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							727				72 hrs.
1.	6	x	1/8	690		64	690				1 hr.
2.	6	x	3/16	490		64	490				1 hr.
3.	6	x	7/32	370		64	370				1 hr.
4.	6	x	1/4	282		62	282				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd
1	.2618		703.2	.9962	1.224	1.080	242
2	.6101		503.2	.9962	1.224	1.057	396
3	.8419		383.2	.9962	1.224	1.043	410
4	1.112		295.2	.9981	1.224	1.032	414
5							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Sbl.
1.	1.05	524	1.37	.857	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	.75	524	1.37	.895	Specific Gravity Separator Gas	X X X X X X X X
3.	.57	524	1.37	.920	Specific Gravity Flowing Fluid	X X X X X
4.	.44	522	1.37	.939	Critical Pressure	669 P.S.I.A.
5.					Critical Temperature	382 °R

P _i 740.2 P _e 547.9		(1) $\frac{P_e^2}{P_i^2 - P_w^2} = 11.859$		(2) $\left[\frac{P_e^2}{P_i^2 - P_w^2} \right]^n = 3.444$	
NO.	BHP	P _w	P _w ²	P _e ² - P _w ²	
1	786.2	708.3	501.7	46.2	
2	617.2	557.2	310.9	237.0	
3	498.2	451.0	203.4	344.5	
4	444.2	402.5	162.0	385.9	
5	815.2	SIP			

Absolute Open Flow		833	Mcf @ 15.025	Angle of Slope	63.5°	Slope, n	.500
Remarks: BHP's taken from a bomb set at 4048 ft.							
Approved By: Comention:		Conducted By:		Calculated By:		Checked By:	
		Pagan & Kiker		Rick Pagan			