

SF 12

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

AUG 21 1973

Type Test ☐ Initial ☒ Annual ☐ Special				Test Date 8-6-73		O. C. C. ARTESIA, OFFICE	
Company Midwest Oil Corp.,				Connection El Paso			
Pool So. Carlsbad				Formation Atoka		Unit	
Completion Date 11-27-72		Total Depth 11850		Plug Back TD 10870		Elevation GL 3299	
Farm or Lease Name State		Well No.					
Csg. Size 4 1/2	Wt. 11.60	d 3.995	Set At 11850	Perforations: From 10,740 To 778			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11850	Perforations: From To		Unit Sec. Twp. Rge. G 3 23 26	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual				Packer Set At 11200		County Eddy	
Producing Thru Casing		Reservoir Temp. °F 180 @ 10,759		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
State New Mexico							
L 10759	H 10759	G _g .599	% CO ₂ 0.44	% N ₂ 0.64	% H ₂ S 0	Prover	Meter Run 4
						Taps Flg.	

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									2937	72	
1.	4.026	1.5	7.3	1.0	66	Dual Comp.			2740	72	1.00
2.	"	"	7.3	2.7	68				2054	74	2.50
3.	"	"	7.3	3.6	76				1490	76	1.75
4.	"	"	7.3	3.7	72				842	76	24.00
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	10.84	L-10		.9943	1.292	1.046	336.2
2.				.9924	"	1.046	906.7
3.		(3.162)		.9850	"	1.042	1194.5
4.				.9887	"	1.045	1235.8
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					205.833	
2.					A.P.I. Gravity of Liquid Hydrocarbons	61 Deg.
3.					Specific Gravity Separator Gas	.599
4.					Specific Gravity Flowing Fluid	X X X X X
5.					Critical Pressure	P.S.I.A.
					Critical Temperature	R

P _c	2950.2	P _c ²	8704
NO.	P _t ²	P _w	P _w ²
1		2753.9	7584
2		2064.4	4262
3		1506.2	2269
4		855.2	731
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$

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

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$

Absolute Open Flow	1485	Mcf/d @ 15.025	Angle of Slope	54	Slope, n	1.243
Remarks:						
Approved By Commission:						
Conducted By:		Calculated By:		Checked By:		
C. J. Dorsey		M. L. Leierer		C. Allen Dorsey		