

MEXICO OIL CONSERVATION COMM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED 122
Form C-122
Revised 9-1-65
DEC 21 1972

Type Test ☐ Initial ☒ Annual ☐ Special					Test Date 12-13-72		O.C.C. ARTESIA, OFFICE	
Company Midwest Oil Corp.,				Connection XXXXX Delhi Gas Pipeline Corp.				
Pool So. Empire (Morrow Gas)				Formation Morrow Sand				
Completion Date 6-8-72		Total Depth 10,992		Plug Back TD 10,946		Elevation 3638 GL		
Csg. Size 4 1/2		Wt. 11-6		Set At 4.000		Perforations: From 10874 To 90		
Tbg. Size 2 3/8		Wt. 4.7		Set At 10,891		Perforations: From 10856 To 62		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11		Well No. 2	
Producing Thru Tubing		Reservoir Temp. °F 160 @ 10,800		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		
L 10,882		H 10,882		G _g .65		% CO ₂ .41		
				% N ₂ .54		% H ₂ S Nil		
				Prover 4"		Meter Run Flange		
FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	
1.	4	1	7/8	770	3.2	93	1790	
2.	"	"	"	780	6.4	99	1675	
3.	"	"	"	790	10.0	92	1664	
4.	"	"	"	790	20.5	76	1630	
5.							1512	
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 Q, Mcfd	
1	17.38	50.060	783.2	.9697	1.240	1.067	1116	
2	"	71.947	793.2	.9645	"	1.061	1586	
3	"	89.621	803.2	.9706	"	1.069	1004	
4	"	128.318	803.2	.9850	"	1.076	2931	
5								
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio 59.524 Mcf/bbl.			
1.					A.P.I. Gravity of Liquid Hydrocarbons 57.8 Deg.			
2.					Specific Gravity Separator Gas .650 XXXXXXXXX			
3.					Specific Gravity Flowing Fluid .710 XXXXX			
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature _____ R _____ R			
P _c 2419.2 P _c ² 5853					(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____			
					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____			
1		2358.2	5561	292				
2		2323.2	5397	456				
3		2275.2	5177	676				
4		2173.2	4723	1130				
5								
Absolute Open Flow 9600 Mcfd @ 15.025					Angle of Slope 38		Slope, n .715	
Remarks:								
Approved By Commission:		Conducted By: <i>C. Allen Doney</i>		Calculated By: <i>C. Allen Doney</i>		Checked By:		