

MEXICO OIL FIELD REVISION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
Revised 9-1-85

Type Test ☒ Initial ☐ Annual ☐ Special Test Date 8/4/81		Company Getty Oil Company		Connection flare (unconnected)							
Well Wildcat		Formation Morrow									
Completion Date 7/27/81		Total Depth 14523		Plug Back TD 14440		Elevation 3636.5					
Csg. Size 4 1/2		Wt. 13.5		Set At 14523		Perforations: From 14048 To 14072					
Tubg. Size 2 3/8		Wt. 4.7#		Set At 1.995		Perforations: From To					
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single				Packer Set At 13690' (wireline depth)		Lea					
Producing Thru Tubing		Reservoir Temp. °F 198°@14523		Mean Annual Temp. °F 60° F		Baro. Press. - P _a 13.2					
L 13690		H 13690		Gg 0.6200		% CO ₂ 1.076					
				% N ₂ .344		% H ₂ S 0					
				Prover		Meter Run 3"					
						Taps Flange					
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							4725	65	Packer		SI
1.	3"	X	1.5	300	4	76	4525	65			1 hour
2.			1.5	300	7	73	4410	65			1 hour
3.			1.5	300	21	62	4075	65			1 hour
4.			1.5	300	77	50	3020	65			1 hour
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											
2.	11.13	35.39	313.2	.9850	1.2700	1.026	505				
3.	11.13	46.82	313.2	.9877	1.2700	1.027	671				
4.	11.13	81.00	313.2	.9981	1.2700	1.028	1176				
5.	11.13	155.29	313.2	1.010	1.2700	1.032	2288				
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	16.1	Mcf/bbl.				
1.	.464	536	1.48	.950	A.P.I. Gravity of Liquid Hydrocarbons	46.7	Deg.				
2.	.464	533	1.47	.948	Specific Gravity Separator Gas	X X X X X X X X					
3.	.464	522	1.44	.947	Specific Gravity Flowing Fluid	X X X X X					
4.	.464	510	1.30	.942	Critical Pressure	675	P.S.I.A.				
5.					Critical Temperature	363	R				
P _c	6376	P _c ²	40653								
NO.	P _t ²	P _w	P _w ²								
1		6108	37308								
2		5974	35689								
3		5571	31036								
4		4346	18888								
5											
Absolute Open Flow	3,324	Mcf/d @ 15.025	Angle of Slope °	Slope, n	.7537						
Approved By Commission:	Conducted By: Murray & McCurry	Calculated By: Murray	Checked By: Botes								