

COPY 100
C-122

Form C-122
Revised 9-1-65

W MEXICO OIL CONSERVATION CO. ION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

REC-100

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-22-74			
Company Cities Service Oil Company				Connection El Paso Natural Gas Company					
Pool So. Carlsbad				Formation Morrow				Unit ASTORIA	
Completion Date 2-28-74		Total Depth 11642		Plug Back TD 11593		Elevation 3090' GR		Farm or Lease Name Paslay A	
Csg. Size 7 5/8 & 5/8	Wt. d	Set At 11634	Perforations: From 11123 To 11557			Well No. 1			
Tub. Size 2 7/8	Wt. 6.5	Set At 11311	Perforations: From To			Unit K	Sec. 8	Twp. 22	Rge. 27
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas-Gas						Packer Set At 11072'		County Eddy	
Producing Thru /Csg.		Reservoir Temp. *F 180 @ 11500(Est.)		Mean Annual Temp. *F		Baro. Press. - P _a		State New Mexico	
L *10365	H *10365	G _g .577	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Tests 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									3550		24 hrs.
1.	4	x	2.750	493	9.00	80			3290	91	1 hr.
2.	4	x	2.750	510	19.40	79			2945	93	1 hr.
3.	4	x	2.750	539	36.00	78			2582	94	1 hr.
4.	4	x	2.750	570	59.30	76			2227	95	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 Q, Mcfd
1	41.10	67.50	506.2	.9813	1.316	1.030	3.690
2	41.10	100.75	523.2	.9822	1.316	1.031	5.518
3	41.10	140.99	552.2	.9831	1.316	1.033	7.744
4	41.10	185.97	583.2	.9850	1.316	1.035	10.255
5							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
					Dry	None	.577	X X X X X X X X	672	346
1	.75	540	1.56	.942						
2	.78	539	1.56	.940						
3	.82	538	1.55	.937						
4	.87	536	1.55	.933						
5										

NO.	P _t ²	P _w ²	P _w ² - P _t ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
					3.225	2.822
1			10915.4	1781.0		
2			8760.7	3936.3		
3			6752.7	5043.7		
4			5044.3	7647.1		
5						

Absolute Open Flow 15,572 Mcfd @ 15.025				Angle of Slope 48.5		Slope, n .886	
Remarks: No fluid produced during test.							
*Equiv. length converted to 6 5/8 - 30# and 2 7/8 - 65 L = 10365.							
Approved By Commission:		Conducted By: Rick Pagan		Calculated By: J. B. Murray		Checked By:	