

AUG 23 1977

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-23-77		O.C.C. ARTESIA, OFFICE	
Company Yates Petroleum Corp.				Connection El Paso Natural Pipeline Co.			
Pool E. Burton Flats <i>monow</i>				Formation Morrow		Unit NM 5489	
Completion Date 5-17-77		Total Depth 11,700'KB		Plug Back TD 11,548'KB		Elevation 3279'KB	
Form or Lease Name Maralo "HL" Fed				Well No. 1			
Csq. Size 4 1/2"	Wt. 13.5	d 3.920	Set At 11,655'KB	Perforations: From 11,491 To 11,495'KB		Well No.	
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 11,489'	Perforations: From 11,471 To 11,473'KB		Unit Sec. Twp. Rge. 12 20S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,465'KB		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 162 @ 11,460		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2	
State New Mexico							
L 11,482	H 11,482	G _g	% CO ₂ 0.86	% N ₂ 0.30	% H ₂ S Nil	Prover	Meter Run 4"
						Taps Flange	

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							3580	68		
1.	4.032	X	1.500	503	8	76	2527	64		
2.				512	15	78	2114	60		
3.				521	26	74	1605	56		
4.				527	40	70	645	52		
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	10.84	64.26	516.2	.9850	1.289	1.0406	920
2		88.76	525.2	.9831		1.0409	1269
3		117.85	534.2	.9868		1.0426	1694
4		150.63	540.2	.9905		1.0443	2124
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	369.31 Mcf/bbl.
1.	.766	536	1.501	.9235	A.P.I. Gravity of Liquid Hydrocarbons	51 Deq.
2.	.779	538	1.507	.923	Specific Gravity Separator Gas	0.602
3.	.793	534	1.496	.920	Specific Gravity Flowing Fluid	XXXXXX
4.	.801	530	1.485	.917	Critical Pressure	674 P.S.I.A.
5.					Critical Temperature	357 R

P _c 4643. P _c ² 21559				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0485$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0485$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1			11541	10018			
2			8397	13162			
3			5027	16532			
4			997	20562			
5							

Absolute Open Flow				2227 Mcfd @ 15.025		Angle of Slope @ 45		Slope, n 1.000	
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Remarks: Static Pressures by Bennett Wireline. Other pressure by DWT.	
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Approved By Commission:	Conducted By: Don Weaver	Calculated By: Eddie Mahfood	Checked By:
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