

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-13-76		RECEIVED	
Company Aminoil USA, Inc.					Connection none			
Pool Malaga					Formation Morrow		Unit O.C.C. ARTESIA OFFICE	
Completion Date 9-16-76			Total Depth 12833		Plug Back TD 12790		Elevation 2996	
Farm or Lease Name C.N.B. Com.					Well No. 1			
Csg. Size 5"	Wt. 18#	d	Set At 12833	Perforations: From 12396 To 12572				Unit L
Tbg. Size 2 7/8	Wt. 6.4	d	Set At 11422	Perforations: From To				Sec. 11
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11422		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 186 @ 12484		Mean Annual Temp. °F 66		Baro. Press. - P _a 13.20 P.S.I.A.		State New Mexico
L 12484	H 12484	G _g 590	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	Prover 0	Meter Run 3.1	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							4196				96.0
1.	3.07 x 1.750			120	10.0	68	4030	68	0	0	.5
2.	3.07 x 1.750			500	6.0	70	3800	68	0	0	.5
3.	3.07 x 1.750			515	18.0	68	3273	69	0	0	.5
4.	3.07 x 1.750			700	34.0	64	1800	70	0	0	.5
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	20.67	36.50	133.2	.9924	1.3019	1.0107	985
2	20.67	55.49	513.2	.9905	1.3019	1.0412	1540
3	20.67	97.51	528.2	.9924	1.3019	1.0431	2716
4	20.67	155.72	713.2	.9962	1.3019	1.0600	4425
5							

NO.	P _r	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
1.	.20	528	1.49	.979	0	60.0	.590	XXXXXX	673	355
2.	.76	530	1.49	.922				XXXXX		
3.	.78	528	1.49	.919						
4.	1.06	524	1.47	.890						
5.										

P _c 4203.3 P _c ² 17668				
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1		4036	16286	1382
2		3808	14498	3170
3		3288	10808	6860
4		1856	3445	14223
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2422$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5089$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1502$

Absolute Open Flow	5089	Mcfd @ 15.025	Angle of Slope θ	57.2	Slope, n	.645
Remarks:						
Approved By Commission:	Conducted By:	Calculated By:	Checked By:			