

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

File file

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-7-72		MAR 22 1973	
Company CORINNE GRACE				Connection NONE			
Pool SOUTH CARLSBAD				Formation MORROW		Unit O.C.C. ARTESIA, OFFICE	
Completion Date 5-1-72		Total Depth 11875		Plug Back TD 11761		Elevation 3208	
Form or Lease Name CARLSBAD-GRACE				Well No. 1			
Csg. Size 1-1/2"		Wt. 11.50		Perforations: From 11186 To 11526		Unit Sec. Twp. Rge. I 36 22S 26E	
Tub. Size 2-3/8"		Wt. 4.5		Perforations: From To		County EDDY	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple GAS GAS DUAL				Packer Set At 11380		State NEW MEXICO	
Producing Thru TUBING		Reservoir Temp. °F 193 @ 11506		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 11380		H 11380		G _g EST. 0.582		% CO ₂ EST. 1.01	
				% N ₂ EST. 0.28		% H ₂ S EST. -0-	
				Prover		Meter Run 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							3407.0		CHOKE		
1.	1"	x	2.75"	510.0	7.0	73	3052.0	69	18	64"	1.0
2.	1"	x	2.75"	530.0	16.0	70	2588.0	69	24	64"	1.0
3.	1"	x	2.75"	560.0	28.0	72	2003.0	70	34	64"	1.0
4.	1"	x	2.75"	580.0	40.0	76	1595.0	76	44	64"	1.0
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	60.51	523.2	.9877	1.311	1.039	3346
2	41.10	93.23	543.2	.9905	1.311	1.041	5100
3	41.10	126.69	573.2	.9887	1.311	1.043	7039
4	41.10	154.04	593.2	.9850	1.311	1.043	8527
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	TSTM	Mcf/bbl.
1.	.78	533	1.53	.927			
2.	.81	530	1.52	.923			
3.	.86	532	1.52	.919			
4.	.89	536	1.54	.920			
5.							

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	4017.2	16138	2630		1.8571	1.6541
2	3667.2	13448	5320			
3	3229.2	10428	8340			
4	2943.2	8662	10106			
5						

Absolute Open Flow 14,105 Mcfd @ 15.025			Angle of Slope @ 50.9	Slope, n 0.813
Remarks: BHP's measured with Amerada bomb at 11506'				
Approved By Commission: _____ Conducted By: D. TYSON Calculated By: R. WEST Checked By: _____				