

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

Form C-122
Revised 9-7-72

RECEIVED

MAY 1 1972

Type Test ☐ Initial ☐ Annual ☐ Special						Test Date 2-18-72			
Company CORINNE GRACE				Connection TRANSWESTERN				O. C. C. ARTESIA, OFFICE	
Pool SOUTH CARLSBAD				Formation MORROW				Unit	
Completion Date		Total Depth 11,965		Plug Back TD 11,854		Elevation 3244 GL		Farm or Lease Name GRADONOCO	
Casing Size 4-1/2" 13.5		3.920		Set At 11,964		Perforations:		Well No.	
7" 29		6.184		11,434		From To		1	
Tbg. Size 2-3/8		Wt. 4.70		1.995		Set At 11,318		Perforations:	
						From To		Unit Sec. Twp. Rge.	
								H 2 23S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At 11,211		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 187 @ 11,300		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
11,318	11,318	0.585	1.08	0.30	--	--	4"	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							2855.0	70	PKR.		32.25 HOURS
1.	4"		1.875"	761.8	7.0	105	2632.0	72			75 MIN.
2.	4"		1.875"	761.8	17.0	78	2413.0	71			80 MIN.
3.	4"		1.875"	761.8	39.0	70	1953.0	69			75 MIN.
4.	4"		1.875"	766.8	80.0	80	999.0	67			85 MIN.
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	17.26	73.65	775.0	0.9594	1.307	1.044	1664
2	17.26	114.78	775.0	0.9831	1.307	1.055	2686
3	17.26	173.85	775.0	0.9905	1.307	1.058	4110
4	17.26	249.80	780.0	0.9813	1.307	1.054	5828
5							

NO.	P _t	Temp. °F	T _f	Z	TSTM			
1	1.15	565	1.62	0.917	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
2	1.15	538	1.54	0.899	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
3	1.15	530	1.52	0.894	Specific Gravity Separator Gas _____ X X X X X X X X			
4	1.15	540	1.55	0.901	Specific Gravity Flowing Fluid _____ X X X X X			
5					Critical Pressure _____ 676 _____ P.S.I.A. _____ P.S.I.A.			
					Critical Temperature _____ 349 _____ R _____ R			

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	6997	3415.2	11664	1587
2	5886	3190.2	10177	3074
3	3866	2769.2	7668	5583
4	1025	2085.2	4348	8903
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4883$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7794$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3373$

Absolute Open Flow	7794	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	0.731
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Remarks: **BOTTOM HOLE PRESSURES RECORDED WITH AN AMERADA GAGE.**
GAGE DEPTH 11,328 FEET.

Approved By Commission:	Conducted By: M.C. THOMASON	Calculated By: R. L. WEST	Checked By:
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