

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/2/71	
Company Corinne Grace ✓				Connection None	
Pool Wildcat				Formation Morrow	
Completion Date 3/2/71		Total Depth 11,970		Plug Back TD 11,934	
Elevation 3206.1 GL		Farm or Lease Name City of Carlsbad Com			
Conn. Size 5 1/2	Wt. 17#	d 4.892	Set At 11,969	Perforations: From 11,566 To 11,572	
Well No. 1	20#	d 4.778			
Trg. Size 2 7/8	Wt. 10.4#	d 2.151	Set At 11,565	Perforations: From 11,532 To 11,535	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 11,529	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F 60°	
				Baro. Press. - P _a 13.2	
County Eddy		State New Mexico			
L 11,529	H 11,529	G _g .582	% CO ₂ 1.01	% N ₂ 0.28	% H ₂ S -
Prover -		Meter Run X		Taps 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							3138.2				1 hr
1.	3	x	2.25	465	30	90	2188.2	60			25 min
2.	3	x	2.25	450	23	90	2362.2	60			25 min
3.	3	x	2.25	435	19	88	2472.2	60			30 min
4.	3	x	2.25	435	15	87	2573.2	60			25 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, F _{pv}	Rate of Flow Q, Mcfd
1	28.78	119.78	478.2	.9723	1.311	1.031	4530
2	28.78	103.22	463.2	.9723	1.311	1.030	3900
3	28.78	92.28	448.2	.9741	1.311	1.029	3490
4	28.78	81.99	448.2	.9750	1.311	1.030	3107
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio TSTM	Mcf/bbl.
1.	0.71	550	1.57	.940	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	0.69	550	1.57	.942	Specific Gravity Separator Gas .82	XXXXXXX
3.	0.66	548	1.57	.944	Specific Gravity Flowing Fluid XXXXX	
4.	0.66	547	1.56	.942	Critical Pressure 676	P.S.I.A.
5.					Critical Temperature 350	R

P _c 4711.2* P _c ² 22195				(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 5.766$		(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 10,599$	
NO.	P _r ²	P _w * P _w ²	P _w ²	P _c ² - P _w ²			
1		4061.2	16493	5702			
2		4217.2	17785	4410			
3		4283.2	18346	3849			
4		4363.2	19038	3157			
5							

Absolute Open Flow 10,599		Mcf @ 15.025		Angle of Slope 0		Slope, n 0.634	
Remarks: *From BHP bomb. Flows 43 bbls water per hour.							
Approved By Commission:		Conducted By: M. C. THOMASON		Calculated By: <i>Kenneth Holles</i>		Checked By:	