

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date Feb. 24, 1976		MAR 5 1976	
Company Continental Oil Company				Connection El Paso Natural Gas Company					
Pool Los Medanos				Formation Morrow				Unit ARTEZIA, OFFICE	
Completion Date		Total Depth 14590		Plug Back TD		Elevation		Farm or Lease Name James Ranch	
Csg. Size 5	Wt. 15#	d 4.403	Set At 14495	Perforations: From 14062 To 14526		Well No. 7			
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 13900	Perforations: From open To end		Unit G	Sec. 6	Twp. 23	Rge. 21
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 13900		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 213 @ 13917		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 13917*	H	Gg .573	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4	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							3717				96 hrs.
1.	4 x	1.500		422	6.76	79	3440				1 hr.
2.	4 x	1.500		430	12.96	90	3260				1 hr.
3.	4 x	1.500		436	21.62	96	3063				1 hr.
4.	4 x	1.500		438	35.40	95	2852				1 hr.
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	10.84	54.24	435.2	.9822	1.321	1.030	786
2	10.84	75.79	443.2	.9723	1.321	1.028	1085
3	10.84	98.55	449.2	.9671	1.321	1.027	1402
4	10.84	126.38	451.2	.9680	1.321	1.028	1801
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>dry</u> Mcf/bbl.
1.	.65	539	1.56	.543	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.66	550	1.59	.947	Specific Gravity Separator Gas <u>.573</u> XXXXXXXXX
3.	.67	556	1.61	.948	Specific Gravity Flowing Fluid <u>XXXXX</u>
4.	.67	555	1.60	.947	Critical Pressure <u>672</u> P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature <u>346</u> R _____ R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.461$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.298$
1		3576.9	12794.2	1120.2	$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.138$	
2		3276.7	10736.8	3177.6		
3		3081.5	9495.6	4418.7		
4		2873.9	8259.3	5655.1		
5						

Absolute Open Flow <u>4.138</u> Mcfd @ 15.025		Angle of Slope θ <u>47.25°</u>	Slope, n <u>.924</u>
Remarks: * Equiv. length for 2 7/8" flow string calculated. No fluid made during test.			
Approved By Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____			