

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 3-20-74		MAR 29 1974	
Company Cities Service Oil Company				Connection El Paso Natural Gas Company				O. C. C. ARTESIA OFFICE	
Pool Undesignated				Formation Cherokee				Unit	
Completion Date 11-1-73		Total Depth 11315		Plug Back TD 10589		Elevation 3280.5GL		Farm or Lease Name Government S	
Csg. Size 5 1/8	Wt. 17.20	d 2.441	Set At 10589	Perforations: From 10463 To 10470		Well No. 1			
Thq. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10330	Perforations: From open To end		Unit Sec. Twp. Rge. H 3 20 28			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10330		County Eddy County			
Producing Thru Thq. L		Reservoir Temp. °F 170 @ 10470		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
Prover 10330	H 10330	G _g 648	% 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							2120	74			24 hr.
1.	4	x	.750	624	17.60	67	1530	58			1 hr.
2.	4	x	.750	624	26.00	80	1338	66			1 hr.
3.	4	x	.750	624	33.00	82	1085	68			1 hr.
4.	4	x	.750	624	45.00	82	914	67			1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.661	105.90	637.2	.9933	1.242	1.065	370
2	2.661	128.71	637.2	.9813	1.242	1.057	441
3	2.661	145.01	637.2	.9795	1.242	1.057	496
4	2.661	169.33	637.2	.9795	1.242	1.057	579
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio 34.1 Mcf/bbl.
1.	.95	527	1.42	.881	A.P.I. Gravity of Liquid Hydrocarbons 59.5 @ 60 Deg.
2.	.95	540	1.45	.895	Specific Gravity Separator Gas .648
3.	.95	542	1.46	.895	Specific Gravity Flowing Fluid X X X X X
4.	.95	542	1.46	.895	Critical Pressure 670 P.S.I.A. 668 P.S.I.A.
5.					Critical Temperature 372 R 401 R

P _c 2133.2	P _c ² 4550.5	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.234$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.234$
NO.	P _t ²	P _w	P _w ²
1			2382.9
2			1827.9
3			1208.9
4			863.7
5			3686.8

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .714$

Absolute Open Flow 714 Mcfd @ 15.025	Angle of Slope 45°	Slope, n 1.000
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Remarks: Made 2.32 Bbl's. condensate during test.

Approved By Commission:	Conducted By: Reggie Reston	Calculated By: J. B. Murray	Checked By: <i>[Signature]</i>
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