

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 3/26/74		APR 2 - 1974	
Company Cities service Oil Company				Connection None		O. C. C.	
Pool Undesignated Morrow				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 3/26/74		Total Depth 11490		Plug Back TD 11431		Elevation 3230'G.L.	
Farm or Lease Name Government U							
Csg. Size 5 1/2	Wt. 20	d 4.778	Set At 11490	Perforations: From 11271 To 11429		Well No. 1	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11315	Perforations: From To 		Unit G Sec. 22 Twp. 20 Rge. 28	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11315 111/65		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 178 @ 11480		Mean Annual Temp. °F 		Baro. Press. - P _a 13.2	
State New Mexico							
L 11315	H 11315	Gg .600 (Assumed)	% CO ₂ 	% N ₂ 	% H ₂ S 	Prover 	Meter Run 4" Taps Flg.

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	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							3604				24 hr.
1.	4	x	1.500	800	3.00	90	3539				1 hr.
2.	4	x	1.500	800	5.50	72	3513				1 hr.
3.	4	x	1.500	800	8.00	75	3475				1 hr.
4.	4	x	1.500	800	42.50	77	3262				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, Fpv	Rate of Flow Q, Mcfd
1	10.84	49.39	813.2	.9723	1.291	1.064	715
2	10.84	66.88	813.2	.9887	1.291	1.073	993
3	10.84	80.66	813.2	.9859	1.291	1.064	1,184
4	10.84	185.91	813.2	.9840	1.291	1.064	2,724
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 116.5 Mcf/bbl.
1	1.21	550	1.54	.883	A.P.I. Gravity of Liquid Hydrocarbons 52.5 @ 60° Deg.
2	1.21	532	1.47	.868	Specific Gravity Separator Gas .600 Assumed
3	1.21	535	1.49	.883	Specific Gravity Flowing Fluid X X X X X
4	1.21	537	1.50	.883	Critical Pressure 671 P.S.I.A.
5.					Critical Temperature 358 R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.789$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.303$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11.721$
1		3553.5	12627.4	456.7	
2		3528.1	12447.5	636.6	
3		3491.1	12187.8	896.3	
4		3290.0	10824.1	2260.0	
5					

Absolute Open Flow 11.721 Mcfd @ 15.025	Angle of Slope 50.25	Slope, n .831
Remarks: Well Produced 2.00 Bbls 52.5 API condensate during test		
Approved By Commission:	Conducted By: Reggie Reston	Calculated By: J. B. Murray
		Checked By: