

N. MEXICO OIL CONSERVATION COMM. ON
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 6/5/74		JUN 12 1974	
Company Cities Service Oil Company				Connection None				
Pool <u>Bradenhead</u> Undesignated				Formation Morrow		Unit O.G.G. ARTESIA, OFFICE		
Completion Date 6/5/74		Total Depth 11,523		Plug Back TD 11500		Elevation 3236 GR		Farm or Lease Name Government W
Csg. Size 5 1/2	Wt. 20.0	d 4.778	Set At 11523	Perforations: From 11144 To 11158		Well No. 1		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11022	Perforations: From To		Unit Sec. Twp. Rge. N 22 20 28		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11020		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 180 @ 11500 (Est.)		Mean Annual Temp. °F 13.2		State New Mexico		
L 11020	H 11020	Gg .603	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Flow Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Flow
SI							3575				7 days
1.	4	x	1.750	735	12.0	48	3384	78			45 Min.
2.	4	x	1.750	740	19.0	48	3332	77			30 Min.
3.	4	x	1.750	750	44.0	44	3188	77			45 Min.
4.	4	x	1.750	750	80.0	40	2958	82			45 Min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.93	94.75	748.2	1.012	1.288	1.059	1,953
2	14.93	119.63	753.2	1.012	1.288	1.059	2,465
3	14.93	183.25	763.2	1.016	1.288	1.060	3,795
4	14.93	247.10	763.2	1.020	1.288	1.059	5,133
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.12	538	1.50	.891	A.P.I. Gravity of Liquid Hydrocarbons _____ Dea.
2.	1.12	537	1.50	.891	Specific Gravity Separator Gas .603 X X X X X X X X
3.	1.14	537	1.50	.890	Specific Gravity Flowing Fluid X X X X X
4.	1.14	542	1.51	.892	Critical Pressure 671 P.S.I.A. P.S.I.A.
5.					Critical Temperature 358 R R

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.244$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.244$
1		3403.8	11585.9	1289.3		
2		3355.6	11260.1	1615.1		
3		3228.0	10420.0	2455.2		
4		3027.2	9163.9	3711.2		
5						

Absolute Open Flow 19,901 Mcfd @ 15.025				Angle of Slope @ 45°	Slope, n 1.000
Remarks: Made approximately 3.00 Bbls. of water during test, and negative amount of condensate.					
Approved By Commission:		Conducted By: Rick Pagan & Reggie Reston		Calculated By: R. Pagan	
Checked By:					