

E. MEXICO OIL CONSERVATION CO. 35
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 3/4/74		MAR 13 1974	
Company Cities Service Company		Connection None		O. C. C. ARTESIA, OFFICE	
Pool Undesignated		Formation Morrow		Unit	
Completion Date 3/4/74		Total Depth 11,500'		Plug Back TD 11,379'	
Elevation 3246'		Farm or Lease Name Government T		Well No. 1	
Csq. Size 5 1/2	Wt. 20	d 4.892	Set At 11,439'	Perforations: From 11,106 To 11,365	
Tbg. Size 2 7/8	Wt. 6.4	d 2.441	Set At 11,000'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual				Packer Set At 10,987	
Producing Thru Tubg.		Reservoir Temp. °F 184°		Mean Annual Temp. °F 11,001	
Baro. Press. - P _a 13.2		State New Mexico		County Eddy	
*9930	9930	G _g .657	% CO ₂ Nil	% N ₂ 1.28%	% H ₂ S .03 Gr.
Prover		Meter Run 6"		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
1.	6	x	2	730	9	68			3255		24 hr.
2.	6	x	2	735	16	80			2675	66	1 hr.
3.	6	x	2	740	31	69			2235	67	1 hr.
4.	6	x	2	740	50	70			2295	68	1 hr.
5.									1865	68	1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	19.16	81.79	743.2	.9924	1.234	1.078	2,069
2.	19.16	109.41	748.2	.9813	1.234	1.072	2,721
3.	19.16	152.80	753.2	.9915	1.234	1.078	3,851
4.	19.16	194.06	753.2	.9905	1.234	1.078	4,899
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.11	528	1.40	.861	37.639	55.3 @ 60	.657	X X X X X	670	378
2.	1.12	540	1.43	.870						
3.	1.12	529	1.40	.860						
4.	1.12	530	1.40	.860						
5.										

P _c 3268.2	P _c ² 10,681.1	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.493$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.493$
NO.	P _t ²	P _w	P _w ²
1.	2708.8	7337.6	3343.5
2.	2252.6	5074.2	5606.9
3.	2295.7	5270.2	5410.9
4.	1877.9	3526.5	7154.6
5.			

Absolute Open Flow 7.314 Mcfd @ 15.025		Angle of Slope @ 45°	Slope, n 1.000
Remarks: 15 Bbl. distillate made during test. * Cal. equ. length.			
Approved By Commission:	Conducted By: John West Ebgr.	Calculated By: Rick Pagan	Checked By: