

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

RECEIVED
Form C-122
Revised 5-65

SEP 22 1971

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 9/4/71			
Company Corinne Grace ✓		Connection Natural Gas Pipeline Co. of America		O.C.C. ARTESIA, OFFICE	
Pool Indian Basin <i>Morrow Gas</i>		Formation Morrow		Unit	
Completion Date 9/3/70		Total Depth 10,190		Plug Back TD 10,156	
		Elevation 4100.8 GL		Farm or Lease Name Indian Hills <i>Com</i>	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 10,190	Perforations: From 9925 To 10,106	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9803	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9803	
Producing Thru Tubing		Reservoir Temp. °F 154 @ 9984		Mean Annual Temp. °F 60°	
		Baro. Press. - P _a 13.2		State New Mexico	
L 9803	H 9803	G _g .594	% CO ₂ 0.76	% N ₂ 0.06	% H ₂ S -
		Prover		Meter Run X	Taps Flange
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	3	X	1.00	980.5	19.8
2.	3	X	1.00	980.5	15.7
3.	3	X	1.00	1002.5	10.6
4.	3	X	1.00	1002.5	5.8
5.	3	X	1.000	980.0	11.6
TUBING DATA					
				Press. p.s.i.g.	Temp. °F
				2370	
				987	75
				1170	75
				1495	75
				1741	75
				985	75
CASING DATA					
				Press. p.s.i.g.	Temp. °F
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m} *$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1	4.789	140.40	993.7	.9723	1.298
2	4.789	124.80	993.7	.9759	1.298
3	4.789	103.64	1015.7	.9768	1.298
4	4.789	76.60	1015.7	.9813	1.298
5	4.789	107.25	993.2	.9795	1.298
Super Compress. Factor, F _{pv}					
Rate of Flow Q, Mcfd					
1					906
2					810
3					675
4					502
5					700
Gas Liquid Hydrocarbon Ratio 363.25 Mcf/bbl.					
A.P.I. Gravity of Liquid Hydrocarbons 51.8 Deg.					
Specific Gravity Separator Gas .594					
Specific Gravity Flowing Fluid .7719					
Critical Pressure 672 P.S.I.A.					
Critical Temperature 354 R					
NO.	P _t	Temp. °R	T _r	Z	
1.	1.48	550	1.55	.876	
2.	1.48	546	1.54	.873	
3.	1.51	545	1.54	.870	
4.	1.51	540	1.53	.867	
5.	1.48	542	1.53	.870	
P _c 2383.2 P _c ² 5679.6					
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		1012.2	1024.5	4655.1	
2		1184.0	1401.9	4277.7	
3		1511.9	2285.8	3393.8	
4		1756.0	3083.5	2596.1	
5		1005.4	1010.8	4668.8	
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.216$					
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.202$					
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 840$					
Absolute Open Flow 840 Mcfd @ 15.025				Angle of Slope 0.942	
Remarks: * From L-10 Chart; 50" 1200# meter					
Approved By Commission:		Conducted By: <i>H. L. Smith</i>		Calculated By:	
				Checked By:	