

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

Form C-122
Revised 9-1-65

JUN 22 1983

C/SF

Type Test ☒ Initial 4-POINT ☐ Annual		Test Date C.D. 14-83		1980 FS	
Company MEYCO		Connection ARTESIA, OFFICE		660 FE	
Pool SOUTH EMPIRE MORROW		Formation MORROW		Unit #	
Completion Date 2-8-83		Total Depth 10,670		Plug Hole 10,521	
Elevation 3692		Farm or Lease Name AID STATE COM.		Well No. 1	
Perf. Size 5.500	Wt. 17.0	d 4.892	Set At 10,670	Perforations: From 10,408 To 10,553	Unit Sec. Top. Rye. I 13 17S 28E
Perf. Size 2.375	Wt. 4.7	d 1.995	Set At 10,225	Perforations: From 0 To 0	
Type Well - Single - (Frederick - G.O. or G.O. Multiple) SINGLE				Packer Set At 10,255	
Producing thru TUBING		Reservoir Temp. °F 172 @ 10,480		Mean Annual Temp. °F 60.0	
Baro. Press. - P _g 13.2		State NEW MEXICO		County EDDY	
L 10480	H 10480	O _g 0.660	% CO ₂ 2.91	% H ₂ 0.85	% H ₂ S 0
Prover 0		Meter Run 2.1		Tape FLANGE	

FLOW DATA						TUBING DATA		B.H.P. 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.		CHOKE
SI							3180		4439		72.0
1.	2.07 X 1.250		447	3.5	48	2968	83	4171	6/64	1.0	
2.	2.07 X 1.250		447	8.5	46	2848	85	4017	8/64	1.0	
3.	2.07 X 1.250		450	18.5	40	2653	86	3778	10/64	1.0	
4.	2.07 X 1.250		452	39.0	33	2352	88	3445	12/64	1.0	
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P/P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	8.12	40.13	460.2	1.0117	1.2309	1.0498	426.
2	8.12	62.54	460.2	1.0137	1.2309	1.0506	666.
3	8.12	92.57	463.2	1.0198	1.2309	1.0535	994.
4	8.12	134.70	465.2	1.0270	1.2309	1.0564	1461.
5							

NO.	P _g	Temp. °R	Q	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	0.68	508.	1.37	0.907	0	55.0	0.660	XXXXXX	681.	370.
2	0.68	506.	1.37	0.906						
3	0.68	500.	1.35	0.901						
4	0.68	493.	1.33	0.896						
5										

NO.	P ₁ ²	P _w ²	R _w ²	P ₁ ² - R _w ²	(1) $\frac{P_1^2}{P_1^2 - R_w^2} =$	(2) $\left[\frac{P_1^2}{P_1^2 - R_w^2} \right]^n =$
1	17508.	3200.	10241	1485	2.3913	2.3913
2	16243.	3073.	9445	2281		
3	14373.	2879.	8289	3437		
4	11959.	2612.	6823	4904		
5						

AOF = Q $\left[\frac{P_1^2}{P_1^2 - R_w^2} \right]^n = 3493.$

Absolute Open Flow	3493.	Mcf @ 15.025	Angle of Slope	45.0	Slope, n	1.000
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: RICHARD TOWNLEY	Calculated By: BENNETT & CATHEY	Checked By:
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