

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

Form C-122
Revised 9-1-68

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-13-74		AUG 28 1974	
Company Morris R. Antweil				Connection Not Committed		O. C. C.	
Pool South Carlsbad				Formation Strawn		Unit ARTESIA	
Completion Date 8-13-74		Total Depth 11,685 / 11690		Plug Back TD 11,685 / 11665		Elevation 3135 KB	
Csg. Size 7"		Wt. 29#		Perforations: From 10,141 To 10,326		Well No. 1	
Tbg. Size 2-3/8"		Wt. 4.70		Perforations: From Open End To		Unit Sec. Twp. Rge. B 17 22-S 27-E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G.G. Dual				Packer Set At 11,050		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 170 @ 10,141		Mean Annual Temp. °F 60		State New Mexico	
L 10,141		H 10,141		Gg .592		% CO ₂ 1.290	
				% N ₂ .568		% H ₂ S Nil	
				Prover		Meter Run 4.026	
						Taps Flange	

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
SI							3640	85	3611	85	48 hrs.
1.	4.026	x	1.500	650	4	107	3368	86	3363	86	1 hr.
2.	4.026	x	1.500	768	18	69	2940	87	2950	87	1 hr.
3.	4.026	x	1.500	750	25	81	2350	75	2395	75	1 hr.
4.	4.026	x	1.500	772	34	97	1522	77	1800	77	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	51.51	663.2	.9577	1.300	1.038	722
2	10.84	118.58	781.2	.9915	1.300	1.060	1756
3	10.84	138.13	763.2	.9804	1.300	1.054	2011
4	10.84	163.39	785.2	.9662	1.300	1.048	2332
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.98	567	1.62	.928	A.P.I. Gravity of Liquid Hydrocarbons	45.2
2.	1.16	529	1.51	.890	Specific Gravity Separator Gas	.592
3.	1.13	541	1.54	.901	Specific Gravity Flowing Fluid	.608
4.	1.16	557	1.59	.910	Critical Pressure	676 P.S.I.A.
5.					Critical Temperature	351 R

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	3624.2	3376.2	11398.7	1763.1	1.3339	1.2152
2		2963.2	8780.6	4354.2		
3		2408.2	5799.4	7335.4		
4		1813.2	3287.7	9847.1		
5						

Absolute Open Flow		2,834	Mcf/d @ 15.025	Angle of Slope θ	55.9	Slope, n	.677
Remarks:							

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	CONE & KERLEY, INC.	Joe Rampsy	Bill Kerley