

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

Copy to SF 122 file
Form C-122
Revised 9-1-65
File

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-12-76		RECEIVED OCT 27 1976	
Company Sabine Production Company				Connection El Paso Natural Gas			
Pool South Carlsbad <i>manu</i>				Formation <i>manu</i>		Unit O.C.C.	
Completion Date 10/12/76		Total Depth 11,901'		Plug Back TD 11,200'		Elevation 3316' DF	
Csg. Size 5 1/2		Wt. 15.5		d 4.950		Set At 11,852	
Tbg. Size 2 3/8		Wt. 4.7		d 1.995		Set At 11,100'	
Perforations: From 11,124 To 11,131				Well No. 1			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,100		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 11,100		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11,217		H 11,217		G _g .610		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover OWT	
						Meter Run	
						Taps	

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.	
SI	72 hrs.						4134	70		
1.	2	X	1 1/2"	22		45	1743	71		
2.	2	X	1 1/2"	18		72	1202	72		
3.	2	X	1 1/2"	21		57	1004	73		
4.	2	X	1 1/2"	21		64	727	75		
5.										

RATE OF FLOW CALCULATIONS							
NO.	MCF/D (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2075			1.015	1.280		2696
2	1824			.9887	1.280		2308
3	2012			1.003	1.280		2583
4	2012			.9963	1.280		2565
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					Dry Gas	
2.					A.P.I. Gravity of Liquid Hydrocarbons	None Produced
3.					Specific Gravity Separator Gas	.610
4.					Specific Gravity Flowing Fluid	.610
5.					Critical Pressure	681
					Critical Temperature	362

P _c 4147.2	P _c ² 17,199					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2384$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2384$
1		1819.9	3312	13,887		
2		1272.8	1620	15,579		
3		1112.4	1237	15,962		
4		883.4	780	16,419		
5						

ACF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,338$
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Absolute Open Flow	3,338	Mcf/d @ 15.025	Angle of Slope θ	45°	Slope, n	1.00
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Remarks: Small amount of mud and water made during test.

Approved By Commission:	Conducted By: John Brooks w/Tom Hansen Company	Calculated By: Whitey Harrington	Checked By:
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