

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

41, 4500
File, 122 file
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Date 11-14-77		DEC 21 1977	
Company Texas Oil & Gas Corporation		Connection To Air			
Pool <i>Lost Lake Shale</i> Undesignated Shale		Formation Strawn		Unit O.C.C. ARTERIAL OFFICE	
Completion Date 11-19-77		Total Depth 8930'		Elevation 3980.8	
Csg. Size 4 1/2"		Set At 8930		Perforations: From 8542 To 8690	
Thg. Size 2 3/8"		Set At 8311		Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 8311	
Producing Thru Tubing		Reservoir Temp. °F 166 @ 8542		Baro. Press. - P _a 13.2	
L 8542		H 8542		G _g .689	
		% CO ₂		% N ₂	
				% H ₂ S	
				Prover Critical Flow	
				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.		Temp. °F
1.	2" x 1/16"			1833		56	1833	66			1 Hr.
2.	2" x 3/32"			1362		59	1362	64			1 Hr.
3.	2" x 1/8"			812		62	812	61			1 Hr.
4.	2" x 3/16"			251		64	251	60			1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	0.06405		1846.2	1.004	1.205	1.235	177
2	0.1410		1375.2	1.001	1.205	1.181	276
3	0.2648		825.2	0.9981	1.205	1.101	289
4	0.6082		264.2	0.9962	1.205	1.030	199
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		A.P.I. Gravity of Liquid Hydrocarbons	
1	2.760	516	1.33	.656	None Produced		Mcf/bbl.	
2	2.056	519	1.34	.717			Deg.	
3	1.233	522	1.35	.825				
4	.395	524	1.35	.943				
5.								

NO.	P _t ²	P _s	S ²	P _t ² - P _s ²	(1) $\frac{P_t^2}{P_t^2 - P_s^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_s^2} \right]^n =$
1	2690.2	7237	1538		5.705	2.389
2	2116.2	4478	4297			
3	1508.2	2275	6500			
4	927.2	860	7915			
5						

Absolute Open Flow 423		Mcf @ 15.025		Angle of Slope 63.5°		Slope, n .500	
Remarks: Bottom Hole Pressure Recorded with Amerada							
RPG-3 Instrument No. 41379 (0-6000 psi Range)							
Approved By Commission:		Conducted By: Tom Hansen Co. Inc.		Calculated By: McPherson		Checked By:	