

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND NE POINT BACK PRESSURE TEST 1 GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

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Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4/13/90		MAY -2 '90		
Company TXO Production Corp. ✓				Connection Phillips				O. C. D. ARTESIA, OFFICE	
Pool Getty				Formation Bone Springs				Unit B	
Completion Date 3/20/90		Total Depth 11950		Plug Back TD 11908		Elevation GL 3298		Farm or Lease Name Williamson Federal	
Csg. Size 4 1/2		Wt. 13.5 & 11.6#		d 4.276		Set At 11950		Perforations: From 7200 To 7220	
Thq. Size 2 3/8		Wt. 4.7#		d 1.995		Set At 11316		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Dual					Packer Set At 11316		County Eddy		
Producing Thru Csg.		Reservoir Temp. °F 146 @ 7200		Mean Annual Temp. °F 60		Baro. Press. - P_a 13.2		State NM	
L .7200		H 7200		G_g .771		% CO₂ 3.40		% N₂ .10	
						% H₂S --		Prover Meter Run 2.067 3.068	
								Taps flg.	

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							Pkr.		295		48 hrs.
1.	2	x	.500	50	9.00	60	Pkr.		292		1 hr.
2.	2	x	.500	50	43.56	60	Pkr.		287		30 min.
3.	3	x	1.750	14	2.56	60	Pkr.		250		1 hr.
4.	3	x	1.750	15	3.24	60	Prk.		103		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	1.189	23.85	63.2	1.000	1.139	Nil	32
2	1.189	52.47	63.2	1.000	1.139	Nil	71
3	15.61	8.34	27.2	1.000	1.139	Nil	148
4	15.61	9.56	28.2	1.000	1.139	Nil	170
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry Gas _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Dry _____ Deg. Specific Gravity Separator Gas .771 _____ X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure *654 _____ P.S.I.A. _____ P.S.I.A. Critical Temperature *410 _____ R _____ R	
1.						
2.						
3.	-----	NIL	-----			
4.						
5.						

P _c 308.2 P _c ² 95.0					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 50.00$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.071$	
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²				
1		305.2	93.1	1.9				
2		300.2	90.1	4.9				
3		263.3	69.3	25.7				
4		116.6	13.59	81.4				
5								

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 226$					Absolute Open Flow 226 Mcfd @ 15.025		Angle of Slope @ 63.5		Slope, n .500	
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Remarks: * = Corrected to 3.40% CO2 No fluid produced during test	
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Approved By Commission:	Conducted By: John West Engineering	Calculated By: BM	Checked By: BM ⁵
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