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File

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O. C. D.
ARTESIA, OFFICE

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

Form C-122
Revised 9-1-65

Type Test		<input checked="" type="checkbox"/> Initial		<input type="checkbox"/> Annual		<input type="checkbox"/> Special		Test Date		4-23-84	
Company				Connection							
TXO PRODUCTION COMPANY CORP				Cabot LIANO							
Pool				Formation				Unit			
Burton Flat				Morrow							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
4/17/84		11,600'		11,328'				Challenger Rayroux			
Cst. Size		Wt.		d		Set At		Perforations:		Well No.	
4 1/2"		11.6		4.000		11,600		From 11,198 To 11,320		1	
Tbg. Size		Wt.		d		Set At		Perforations:		Unit Sec. Twp. Rge.	
2 3/8"		4.7#		1.995		11,148		From OPEN-ENDED		P 19 21S 27E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		County			
Single						11,148'		Eddy			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State			
11,259		187° @ 11,259'		60°		13.2		New Mexico			
L		H		G _g		% CO ₂		% N ₂		% H ₂ S	
11,259		11,259		0.600		0.978		0.211		-0-	
								Prover		Meter Run	
										3.687	
										Flange	
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1797		PKR	CHOKE	48 Hrs
1.	3.687	x	1.00	564.4	4	69	1515	60°		5/64	1 Hr
2.	3.687	x	1.00	564.4	13.69	68	1271	62		6/64	1 Hr
3.	3.687	x	1.00	564.4	24.01	69	1072	61		8/64	1 Hr
4.	3.687	x	1.00	564.4	38.44	70	881	60		12/64	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, Mscf				
1	4.798	48.07	577.60	.9915	1.291	1.050	310				
2	4.798	88.92	577.60	.9924	1.291	1.051	574				
3	4.798	117.8	577.60	.9915	1.291	1.050	760				
4	4.798	149.01	577.60	.9905	1.291	1.050	960				
5											
NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.86	529	1.48	.907	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	.86	528	1.47	.906	Specific Gravity Separator Gas 0.600 XXXXXXXXXXXX						
3	.86	529	1.48	.907	Specific Gravity Flowing Fluid XXXXXX						
4	.86	530	1.48	.907	Critical Pressure 671 P.S.I.A. _____ P.S.I.A.						
5					Critical Temperature 358 R _____ R						
P ₁ 1840.3		P _c 3386.7									
NO.	P ₁ ²	P _w	R _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.36$						
1		15936	2540	846.7	(2) $\left[\frac{R_c^2}{P_c^2 - R_c^2} \right]^n = 1.36$						
2		1362	1855	1531.7							
3		1177	1385	2001.7	AOF = Q $\left[\frac{R_c^2}{P_c^2 - R_w^2} \right]^n = 1.302$						
4		943	889	2497.7							
5											
Absolute Open Flow 1301.6				Mcf @ 15.025				Angle of Slope @ 45°		Slope, n 1.000	
Remarks: Calculated from known bottom hole pressures. Made no condensate during test.											
Approved By Commission:			Conducted By: W.S.			Calculated By: M.K.			Checked By: M.T.K.		

Post FD-2
7-6-84
Eddy + PKR