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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-24-77		FEB 2 1977	
Company AMOCO PRODUCTION COMPANY				Connection TO AIR			
Pool Crayburg Strawn				Formation STRAWN			
UN-DESIGNATED				O.C.S. ARTERIA, OFFICE			
Completion Date		Total Depth 11,180'		Plug Back TD 10,265'		Elevation 3547 GR.	
Farm or Lease Name SOUTH EMPIRE DEEP UNIT							
Csg. Size 5 1/2"	Wt. 17#	d 4.892"	Set At 11,179'	Perforations: From 10,160' To 10,177'		Well No. 8	
Csg. Size 3/8"	Wt. 4.7#	d 1.995"	Set At 10,171'	Perforations: From OPEN ENDED		Unit Sec. Twp. Rge. L 33 17S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,095'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 168 @ 10,167'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 10167	H 10167	G _g 0.698	% CO ₂ 0.20	% N ₂ 1.27	% H ₂ S - 0 -	Prover POSITIVE CHOKES	Meter Run Taps
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI	POSITIVE CHOKES					2657.0	24 HOUR
1.	32/64"			297.0	-	46	115 MIN.
2.	28/64"			280.0	-	50	45 MIN.
3.	23/64"			303.0	-	48	45 MIN.
4.	20/64"			328.0	-	49	45 MIN.
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 _{pv}	Rate of Flow Q, Mcfd
1.	4.722		310.2	1.014	1.197	1.041	1851.0
2.	3.574		293.2	1.010	1.197	1.037	1314.0
3.	2.371		316.2	1.012	1.197	1.040	944.5
4.	1.771		341.2	1.011	1.197	1.044	763.4
5.							
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 106 Mcf/bbl.		
1.	0.47	506	1.30	.923	A.P.I. Gravity of Liquid Hydrocarbons 53.2 @ 60°		
2.	0.44	510	1.31	.930	Specific Gravity Separator Gas 0.698		
3.	0.47	508	1.31	.925	Specific Gravity Flowing Fluid X X X X X		
4.	0.51	509	1.31	.918	Critical Pressure 667 P.S.I.A.		
5.					Critical Temperature 389 °R		
P _f 3820.2 P _s 14594							
NO.	P _f	P _s	P _s ²	P _f ² - P _s ²	(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 1.033$		
1.		769.2	591.7	14002.3	(2) $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 1.016$		
2.		664.2	441.2	14152.8			
3.		670.2	449.2	14144.8			
4.		680.2	462.7	14131.3			
5.							
Absolute Open Flow 775.6 Mcfd @ 15.025					Angle of Slope @ 63.5°		Slope, n 0.500 LIMITED
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 10,167 FEET.							
LIMITED SLOPE OF 0.500 DRAWN THROUGH LOWEST RATE OF FLOW.							
Reviewed by Commission:		Conducted By: D.A.T.		Calculated By: R.L.W.		Checked By: J.W.W.	