

SEP 11 1985

Type Test		☒ Initial FOUR POINT ☐ Annual ☐ Special		Test Date		1-30-85		O. C. D.		ARTESIA OFFICE	
Company				Connection							
ANADARKO PRODUCTION CO.				TO AIR NEW WELL							
Pool				Formation				Unit			
WILDCAT				LOCO HILLS							
Completion Date		Total Depth		Plug Back		Elevation		Farm or Lease Name			
01-29-85		11075		3100		3481		NM AA STATE			
Chp. Size	Wt.	d	Set At	Perforations:		Well No.					
4.500	11.0	4.052	3100	From 2180 To 2186		#1					
Trp. Size	Wt.	d	Set At	Perforations:		Unit		Sec.	Twp.	Hgt.	
2.375	4.7	1.995	2142	From 0 To 0				35	18S	28E	
Type Well - Single - Noddenhead - G.G. or G.O. Multiple						Packer Set At		County			
SINGLE						2120		EDDY			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
TUBING		90° 2120		60,0		13.2		NEW MEXICO			
L	H	Cg	% CO ₂	% N ₂	% H ₂ S	Prover	Motor Run	Taps			
2183	2183	0.707	0.68	1.54	1.11	0	2.1	FLANGE			
FLOW DATA						TUBING DATA		B.H.P. 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.	CHOKE	Duration of Flow
1	2.07 X 1.500		103	20.0	42	575		695	14/64	2.0	
2	2.07 X 1.500		104	35.0	42	535		663	17/64	1.0	
3	2.07 X 1.500		102	55.0	42	482		631	21/64	1.0	
4	2.07 X 1.500		102	76.0	42	425		602	25/64	1.0	
5											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compens. Factor, F _{sp}	Rate of Flow Q, Mcfd				
1	12.76	48.21	116.2	1.0178	1.1895	1.0147	756.				
2	12.76	64.05	117.2	1.0178	1.1895	1.0148	1004.				
3	12.76	79.60	115.2	1.0178	1.1895	1.0145	1247.				
4	12.76	93.57	115.2	1.0178	1.1895	1.0145	1466.				
5											
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio 10.2 Mcf/bbl.						
1	0.17	502.	1.29	.971	A.P.I. Gravity of Liquid Hydrocarbons 31.3 Deg.						
2	0.17	502.	1.29	.971	Specific Gravity Separator Gas 0.707 XXXXXXXXXX						
3	0.17	502.	1.29	.972	Specific Gravity Flowing Fluid XXXXXX 0.974						
4	0.17	502.	1.29	.972	Critical Pressure 674. P.C.I.A. 661. P.S.I.A.						
5					Critical Temperature 388. °F 472. °R						
P ₁ 701.3 P ₂ 492.											
NO.	P ₁ ²	P ₂ ²	P ₂ ² - P ₁ ²	(1) $\frac{P_c^2}{P_2^2 - P_1^2} = 2.7071$							
1	502.	637.	406.	(2) $\left[\frac{P_c^2}{P_2^2 - P_1^2} \right]^n = 2.4141$							
2	457.	610.	372.								
3	415.	582.	339.								
4	378.	557.	310.								
5				AOR = Q $\left[\frac{P_c^2}{P_2^2 - P_1^2} \right]^n = 3540.0$							
Absolute Open Flow 3540.0					Mcf @ 15.025			Angle of Slope @ 48.5		Slope, n 0.885	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS BY B&C WIRE LINE.											
Approved By Commission:			Conducted By			Calculated By			Checked By		
			BENNETT & CATHEY INC.			BENNETT & CATHEY INC.			RICHARD TOWNLEY		