

RECEIVED *clsf*
File

Type Test: ☒ Initial 4 POINT ☐ Annual ☐ Special						Test Date: 9-22-82		MAR 23 1983	
Company: ANADARKO ✓				Connection: AIR NEW WELL				O. C. D. ARTESIA, OFFICE	
Pool: BOYD MORROW				Formation: UPPER MORROW				Unit: <u>1</u>	
Completion Date: 9-19-82		Total Depth: 9354		Plug (Hole): 9150		Elevation: 3427.5413.9		Farm or Lease Name: ANDERSON	
Well Size: 4.50 W.L.: 11.6 d: 4.000 Set At: 9342		Perforations: From 9022 To 9028				Well No.: 1			
Tbg. Size: 2.375 W.L.: 4.7 d: 1.995 Set At: 8982		Perforations: From OPEN To ENDED				Unit: J Sec: 1 Twp: 19S Rge: 25E			
Type Well - Single - Production - O.G. or A.O. Multiple: SINGLE						Perfor. Set At: 8982		County: EDDY	
Producing thru: TUBING		Reservoir Temp. °F: 160 @ 9025		Mean Annual Temp. °F: 60.0		Baro. Press. - P _g : 13.2		State: NEW MEXICO	
L: 9025 H: 9025 G _g : 0.597 % CO ₂ : 0.57 % N ₂ : 1.09 % H ₂ S: 0 Prover: 0 Meter Run: 4.0 Tape: 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. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							2826		3627	71 HRS.
1	4.03 X	1.000		400	1.0	84	2615	72	3308	2/64 1 HR
2	4.03 X	1.000		405	4.2	87	2455	73	3132	5/64 1 HR
3	4.03 X	1.000		415	9.0	80	2050	78	2681	7/64 1 HR
4	4.03 X	1.000		420	17.0	84	1727	83	2247	12/64 2 HRS
5										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P/P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor F _{sp}	Rate of Flow Q, Mhd
1	4.75	20.33	413.2	0.9777	1.2939	1.0295	126
2	4.75	41.91	418.2	0.9750	1.2939	1.0293	259
3	4.75	62.08	428.2	0.9813	1.2939	1.0315	386
4	4.75	85.82	433.2	0.9777	1.2939	1.0309	532
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NO.	R	Temp. °R	Q	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/Std.		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
1	.61	544	1.54	0.943	Specific Gravity Separator Gas: 0.597		XXXXXXXXXX	
2	.62	547	1.55	0.944	Specific Gravity Flowing Fluid: XXXXX			
3	.64	540	1.53	0.940	Critical Pressure: 673 P.S.I.A.		P.S.I.A.	
4	.64	544	1.54	0.941	Critical Temperature: 354 °R		°R	
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NO.	P ₁ ²	P _m ²	R ₁ ²	P ₁ ² - R ₁ ²
1	11030	2681	7188	1507
2	9892	2535	6426	2269
3	7259	2167	4696	3999
4	5109	1822	3320	5375
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(1) $\frac{P_g^2}{R_g^2 - R_w^2} = 1.6178$

(2) $\left[\frac{R^2}{R^2 - R_w^2} \right]^n = 1.6178$

AOF = Q $\left[\frac{R^2}{R^2 - R_w^2} \right]^n = 860.$

Post ID-2
4-1-83
Camp & Bk.

Absolute Open Flow: 860. Mhd @ 15.025	Angle of Slope: 45.0	Slope: n 1.000
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Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT - CATHEY	Checked By:
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