

Type Test 4-POINT ☐ Initial ☒ Annual ☒ Special		Test Date 8-8-85	
Company FLAG-REDFERN		Connection NATURAL GAS PIPELINE OF AMERICA	
Pool BURTON FLATS ATOKA		Formation ATOKA	
Completion Date 8-1-85		Total Depth 11600'	Plug Back To 11120'
Casing Size 4.5		Well ID 11.6/13.5	Perforations: From 10592 To 10600
Tubing Size 2.375		Well ID 4.7	Perforations: From To
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE		Packer Set At 10504'	County EDDY
Producing Thru TUBING		Reservoir Temp. °F 176 • 10572	Mean Annual Temp. °F 60
Error. Prob. - P _a 13.2		State NEW MEXICO	
L 10572	H 10572	Cg 0.629	% CO ₂ 0.33
% N ₂ 0.97	% H ₂ S 0	Prover 0	Motor Run 3.1
Taps 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
1	3.07	X	1.000	445	4.4	101	3210	80			24.0
2	3.07	X	1.000	452	6.2	109	2986	80			1.0
3	3.07	X	1.000	459	9.3	111	2779	80			1.0
4	3.07	X	1.000	461	14.1	111	2541	80			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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.79	44.90	458.2	0.9628	1.2609	1.0327	270
2	4.79	53.92	465.2	0.9560	1.2609	1.0313	321
3	4.79	66.30	472.2	0.9543	1.2609	1.0313	394
4	4.79	81.65	474.2	0.9543	1.2609	1.0314	485
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.68	561	1.54	0.938	0	0	0.629	XXXXXX	671	364
2	0.69	569	1.56	0.940				XXXXXX		
3	0.70	571	1.57	0.940						
4	0.71	571	1.57	0.940						
5										

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	3200	10238	7344	
2	2976	8857	8725	
3	2770	7672	9910	
4	2533	6418	11164	
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.5748$ (2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.5748$

Post ID-2
8-30-85
Comp. Hto.

AOI = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 764$

Absolute Open Flow	764	Mcf/d @ 15.025	Angle of Slope	45.0	Slope, n	1.000
Remarks:						
Approved By Commission		Conducted By BENNETT & CATHEY		Calculated By RICHARD TOWNLEY		Checked By: