

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form L-122
Revised 8-1-63RECEIVED *dsf*
File

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-15-82		OCT 20 1982	
Company STEVENS OPERATING Corp				Connection AIR NEW WELL		O. C. D.	
Pool PECOS SLOPE <i>11.6</i> <i>ABO</i>				Formation ABO		Unit ARTESIA, OFFICE	
Completion Date 10-11-82		Total Depth 4650		Plug Hole 4634 4650		Elevation 3711	
Well No. 4.500		Gr. AI 11.6		Perforations: From 4180 To 4211		Form or Lease Name JACKSON STATE	
Well No. 2.375		Gr. AI 4.7		Perforations: From OPEN To ENDED		Well No. 1	
Type Well - Single - Freehead - G.O. or O.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing thru TUBING		Reservoir Temp. °F 112 @ 4196		Mean Annual Temp. °F 60°		Base. Press. - P _g 13.2	
L 4196		H 4196		Q _g 0.657		Prover 2.0	
CO ₂ 0.53		N ₂ 9.31		H ₂ S 0		Meter Run 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.	CHOKE	
51							967	75			25 HRS.
1	2.00	X	0.438	34	0	62	917	68	0	8/64	1 HR
2	2.00	X	0.438	70	0	54	750	65	0	11/64	1 HR
3	2.00	X	0.438	92	0	56	556	58	0	12/64	1 HR
4	2.00	X	0.438	95	0	55	400	59	0	13/64	1 HR
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcf/D
1	3.40	0	47.0	0.9981	1.2337	1.0038	198.
2	3.40	0	83.2	1.0058	1.2337	1.0072	354.
3	3.40	0	105.2	1.0039	1.2337	1.0090	447.
4	3.40	0	108.2	1.0048	1.2337	1.0093	460.
5							

NO.	P ₁	Temp. °R	T ₁	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	0.07	522.	1.49	0.992			0.657	XXXXXX	656	350
2	0.13	514.	1.47	0.986						
3	0.16	516.	1.47	0.982						
4	0.16	515.	1.47	0.982						
5										

NO.	P ₁ ²	P _w ²	R _w ²	P ₁ ² - R _w ²	(1) $\frac{P_g^2}{R^2 - R_w^2} = 1.2225$	(2) $\left[\frac{R^2}{R^2 - R_w^2} \right]^n = 1.1062$
1	865.	930.	864.	92.		
2	582.	764.	584.	373.		
3	324.	572.	327.	629.		
4	171.	417.	174.	782.		
5						

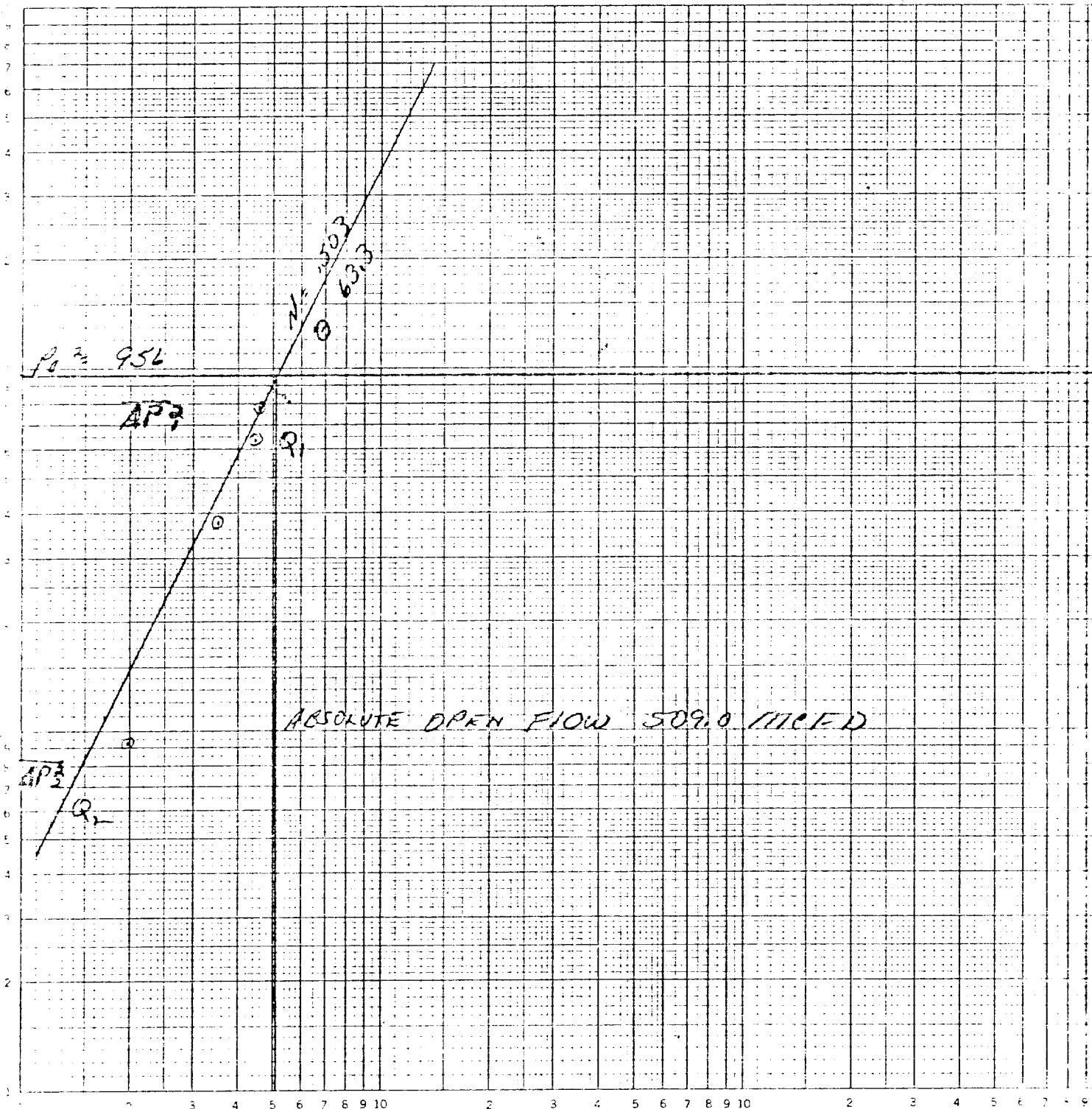
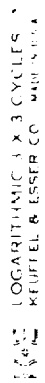
Absolute Open Flow 509. Mcf @ 15.025 Angle of Slope 63.3 Slope, n 0.503

Remarks: _____

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

Post ID-2
10-22-82
Comp + BK

10-15-82



$Q_2 = 137.5 \text{ m}^3/\text{s}$

$72 = .5030$