

RECEIVED

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special		Test Date 4-24-82		600 FNL DEC 27 1982	
Company STEVENS OIL COMPANY ✓		Connection AIR NEW WELL		990 FNL O.C.D.	
Well <i>Pico Top 1110</i> UNDESIGNATED		Formation ABO		Unit ARRESIA, OFFICE	
Completion Date 4-7-82		Total Depth 4380		Plug Back TD 4380	
Elevation 3654 KB		Form or Lease Name MITCHELL		Well No. 1	
Perforations: From 3843 To 4341		Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. D 9 6S 26E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE		Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 110 @ 4092		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		State NEW MEXICO		Prover 2"	
Meter Run PIPE		Taps		Taps	
L 4092		H 4092		G _g .689	
% CO ₂ 4.66		% N ₂ 6.42		% H ₂ S	
FLOW DATA		TUBING DATA		B.H.P. DATA	
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1	2	X	3/32	840	0
2	2	X	1/8	868	0
3	2	X	1/4	805	0
4	2	X	3/8	730	0
5					
Temp. °F		Press. p.s.i.g.		CHOKE	
72		873		1005	
62		868		997	
71		805		974	
64		730		880	
RATE OF FLOW CALCULATIONS		Duration of Flow 72 HRS.			
NO	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g
1	.1446	.00	853.2	.9887	1.2047
2	.2716	.00	881.2	.9981	1.2047
3	1.1150	.00	818.2	.9896	1.2047
4	2.439	.00	742.2	.9962	1.2047
5					
Super Compress. Factor, F _{pv}		Rate of Flow Q, Mcfd			
1.0703		157.			
1.0790		311.			
1.0688		1161.			
1.0648		2316.			
NO	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio
1	1.26	532	1.48	.873	_____ Mcf/Lbl.
2	1.30	522	1.45	.859	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
3	1.21	531	1.48	.871	Specific Gravity Separator Gas .6890
4	1.10	524	1.46	.882	Specific Gravity Flowing Fluid _____
5					Critical Pressure 678 P.S.I.A.
					Critical Temperature 360 °R
1043.2 P _c ² 1088.3					
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 9.5465$
1	1018.2	1036.7	51.6		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9.5465$
2	1010.2	1020.5	67.8		
3	987.2	974.6	114.0		
4	893.2	797.5	229.1		
5					
Absolute Open Flow 11,083.4		Mcf @ 15.025		Angle of Slope 45	
Slope, n 1.000					
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENT.					
Approved By Commission:		Conducted By: DON BENNETT		Calculated By: BENNETT - CATHEY	
				Checked By:	