

MULTI POINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-122
Revised 6-1-80

RECEIVED

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File

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-21-82		JAN 03 1983	
Company STEVENS OPERATING CORP. ✓		Connection AIR NEW WELL		RECEIVED	
Pool PECOS SLOPE W.D. #14		Formation ABO		Unit ARTESIA	
Completion Date 12-15-82 7-5-82		Total Depth 5197.55		Plug Hole 1 4700 4690	
Elevation 3000		Elevation 4300 5174		Farm or Lease Name HANNIGAN Fed.	
Well No. 4		Well No. 4		Well No. 4	
Type Well - Single - (Wardenhead - G.O. or G.O. Multiple) SINGLE		Packer Set At 0		County CHAVES	
Producing thru TUBING		Reservoir Temp. °F 102 4279		Mean Annual Temp. °F 60	
Base. Press. - P _g 13.2		State NEW MEXICO			
L 4279.	H 4279.	Q _g 0.691	% CO ₂ 0.05	% N ₂ 20.42	% H ₂ S 0.
Prover 2.0	Water Run 0.	Type			

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	
SI							864		972		74 HRS.
1	2.00 X .0219			270	0	64	816	78	927	15/64	1
2	2.00 X .0219			355	0	66	754	79	858	16/64	1
3	2.00 X .0219			460	0	68	658	76	774	17.5/64	1
4	2.00 X .0219			520	0	64	563	75	704	19/64	1
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 O. Mhd
1	0.84	0	283.2	0.9962	1.2030	1.0194	290
2	0.84	0	368.2	0.9943	1.2030	1.0246	379
3	0.84	0	473.2	0.9924	1.2030	1.0308	489
4	0.84	0	533.2	0.9962	1.2030	1.0359	556
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NO	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	0.45	524	1.58	0.962	Specific Gravity Separator Gas _____ 0.691	XXXXXXXXXXXX
2	0.58	526	1.59	0.953	Specific Gravity Flowing Fluid _____ XXXXXX	
3	0.75	528	1.59	0.941	Critical Pressure _____ 633 _____ P.S.I.A	_____ P.S.I.A
4	0.84	524	1.58	0.932	Critical Temperature _____ 331 _____ R	_____ R
5						

NO	P ₁ ²	P _m ²	R ₁ ²	P ₁ ² - R ₁ ²	(1) $\frac{P_c^2}{R_c^2 - R_1^2} = 2.1427$	(2) $\left[\frac{R_c^2}{R_c^2 - R_1^2} \right]^n = 1.4666$
1	884	839	704	68	AOF = 0 $\left[\frac{R_c^2}{R_c^2 - R_1^2} \right]^n = 815.$	
2	759	778	606	167		
3	620	704	495	277		
4	514	642	412	360		
5						

Absolute Open Flow _____ 815 _____ Mhd @ 15.025	Angle of Slope @ _____ 63.3 _____	Slope, n _____ 0.503 _____
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMARADA PRESSURE ELEMENT.		
Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT-CATHEY
Checked By:		