

1st
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-2-89		JUN 09 '89	
Company STEVENS OPERATING				Connection AIR			
Pool PECOS SLOPE ABO				Formation ABO		Unit O. C. D. AMERADA, ONCE	
Completion Date 6-1-89		Total Depth 4170		Plug Back TD		Elevation	
Ceq. Size 4-1/2		Set At 4170		Perforations: From 3795 1/2 To 3950 1/2		Well No. 1	
Thg. Size 2-3/8		Set At 3863		Perforations: From To		Unit Sec. Twp. Rge. P 32 6 26	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 60		Baro. Press. - P _a 13.2		State NM	
L		H		G _g .62		% CO ₂	
				% N ₂		% H ₂ S	
				Prover 2		Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							790		780	
1.	3/32	x	2	770		65	770		775	
2.	3/16	x	2	690		65	690		700	
3.	7/32	x	2	620		65	620		632	
4.	3/8	x	2	401		65	401		420	
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	.141		783.2	.9952	1.25	1.077	148
2.	.6082		703.2	.9952	1.25	1.064	575
3.	.8393		633.2	.9952	1.25	1.057	710
4.	2.378		414.2	.9952	1.25	1.037	1290
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 867.2	P _c 752					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.43$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.27$
1		860.2	739.6	12.1		
2		771.2	594.4	157.3		
3		696.2	484.4	267.3		
4		476.2	226.6	525.1		
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1635$

Absolute Open Flow 1635 Mcfd @ 15.025

Angle of Slope 56.5

Slope, n 6.6

Remarks: ALL BOTTOMHOLE PRESSURES DONE WITH AMERADA TYPE GAUGE.

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: MIKE KELLY	Checked By:
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