

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
MAR 27 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 2-27-85	
Company Amoco Production Co.		Connection El Paso Natural Gas Co.	
Pool Otero		Formation Chacra	
Completion Date 2-18-85	Total Depth 3150	Plug Back TD 3100	Elevation 5557 GR
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 3150
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 2984
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single		Packer Set At none	
Producing Thru tubing	Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _a
L	H	G _g	% CO ₂ % N ₂ % H ₂ S Prover 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	7 days						968		1028	
1.	2.375	.750					188		485	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		200	1.000	.9258	1.020	2335
2.							
3.							
4.							
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 _____	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____	XXXXXX
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ R	_____ R

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	1040	497	1081600	247009	834591
2.					
3.					
4.					
5.					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2960$

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2836$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2146$

Absolute Open Flow _____ 2836 _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____ .75
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Remarks: _____ Lite H₂O, Lite Oil, flared

Approved By Division	Conducted By: Bryan Services	Calculated By: JJ Barnett	Checked By: 88
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