

V MEXICO OIL CONSERVATION COM. SION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-17-82	
Company Amoco Production Company		Connection El Paso Natural Gas Comp	
Pool Wildcat		Formation Morrow	
Completion Date 12-16-81	Total Depth 16560	Plug Back TD 16543	Elevation 3280
Farm or Lease Name Perro Grande		Well No. 1	
Csg. Size 4.500	Wt. 15.0	d 3.920	Set At 16543
Perforations: From 15765 To 15819			
Ing. Size 2.875	Wt. 6.5	d 2.441	Set At 15798
Perforations: From 0 To 0			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 15052	County Lea
Producing Thru Tubing	Reservoir Temp. °F 182 ⁰ 15792	Mean Annual Temp. °F 60.0	Baro. Press. - P _a 13.2
State New Mexico			
L 15792	H 15792	G _g 0.576	% CO ₂ 0.45
% N ₂ 0.61	% H ₂ S 0	Prover 0	Meter Run 6.0
Taps Flange			

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.		Temp. °F
SI							3769	78			51.0
1.	6.00 x 2.500			731	4.0	90	3651	78	0	0	0.2
2.	6.00 x 2.500			731	10.2	98	3591	78	0	0	0.2
3.	6.00 x 2.500			740	27.0	80	3398	78	0	0	0.7
4.	6.00 x 2.500			740	46.2	72	3273	78	0	0	0.5
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	30.33	54.56	744.2	0.9723	1.3175	1.0474	2221
2	30.33	87.30	744.2	0.9653	1.3175	1.0443	3517
3	30.33	142.67	752.8	0.9813	1.3175	1.0519	5886
4	30.33	186.57	752.8	0.9887	1.3175	1.0551	7778
5							

NO.	P _t	Temp. °R	T _r	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.	1.10	550	1.58	0.912	0	0	0.576	X X X X X X X X	675	349
2.	1.10	558	1.60	0.917				X X X X X		
3.	1.12	540	1.55	0.904						
4.	1.12	532	1.53	0.898						
5.										

P _c 3782.2	P _c ² 14305	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.2796$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.2796$
NO	P _t ²	P _w	P _w ²
1	13426	3648	13308
2	12290	3606	13004
3	11635	3468	12027
4	10799	3406	11599
5			

Absolute Open Flow 36972		Mcf/d @ 15.025	Angle of Slope θ 45.0	Slope, n 1.000
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Remarks: Third (3rd) point was used to extrapolate AOF value.

Approved By Commission:	Conducted By: John West	Calculated By: B. A. Hemmeline	Checked By: L. W. Sheppard
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