

N. MEXICO OIL CONSERVATION COMM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-20-83	
Company Amoco Production Company			Connection to air		
Pool Antelope Ridge			Formation Atoka		Unit P
Completion Date		Total Depth 1.3538	Plug Back TD 12945	Elevation 3377	Form or Lease Name Federal CW <i>Cam</i>
Csg. Size 4.500	Wt. 15.1	d 3.826	Set At 12990	Perforations: From 12004 To 12290	
Tng. Size 3.875	Wt. 6.5	d 2.441	Set At 11888	Perforations: From 0 To 0	
Type Well - Single - Dradhead - G.G. or G.O. Multiple Single			Packer Set At 8947	County Lea	
Producing Thru Tubing		Reservoir Temp. °F 170 @ 12147	Mean Annual Temp. °F 60.0	Baro. Press. - P _a 13.2	State New Mexico
L 12147	H 12147	G _g 0.707	% CO ₂ 1.20	% N ₂ 1.63	% H ₂ S 0
Prover 4.0		Meter Run 0	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.		Temp. °F
SI							4788	60			120.0
1.	4.00 x 1.500		1	0	4	3900	60	0	0	0	0.7
2.	4.00 x 2.000		4	0	4	2078	60	0	0	0	0.7
3.	4.00 x 2.000		2	0	4	826	60	0	0	0	0.7
4.	4.00 x 2.000		6	0	58	240	60	0	0	0	0.7
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	0	0	13.7	1.0586	1.1890	1.0022	244
2	0	0	16.7	1.0586	1.1890	1.0027	1233
3	0	0	14.7	1.0586	1.1890	1.0023	790
4	0	0	19.2	1.0019	1.1890	1.0022	1555
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.02	464	1.20	0.996	23.3	
2.	0.02	464	1.20	0.995	55.5	
3.	0.02	464	1.20	0.995	0.707	
4.	0.03	518	1.34	0.996		
5.						

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	15313	3918	15352	7699	1.0043	1.0043
2	4373	2098	4403	18649		
3	704	842	709	22342		
4	64	315	99	22952		
5						

Absolute Open Flow 1562 Mcfd @ 15.025				Angle of Slope θ 45.0	Slope, n 1.000
Remarks: Third point is erroneous due to liquid.					

Approved By Commission:	Conducted By: John West Engineering	Calculated By: Barbara Wagner	Checked By: Richard E. Roeth
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SEP 14 1983
O.C.D.
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