

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☒ Annual ☐ Special				Test Date 12/22/71		JAN 3 1972	
Company Amoco Production Company				Connection None		O. C. C. ARTESIA, DEER	
Pool Wildcat				Formation Morrow Penn		Unit API No. 30-015-20510	
Completion Date 12/18/71		Total Depth 10,168		Plug Back TD 10,000		Elevation 3587 KDB	
Casing Size 5-1/2"		Wt. 17#		Set At 6277'		Perforations: From 9621 To 9929	
Tbg. Size 2-3/8"		Wt. 4.7		Set At 9504		Perforations: From Open End To	
Type Well - Single - Frictionhead - G.O. or G.O. Multiple Single				Packer Set At 9491'		County Eddy	
Producing Thru 2-3/8" Tbg		Reservoir Temp. °F 145° 9775		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 9504		H 9504		G _g 0.630		% CO ₂ 0.38	
				% N ₂ 0.31		% H ₂ S 0	
				Prover -		Meter Run 6"	
						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	of Flow
SI							2862		Pkr	-	40 hrs
1.	6.065 x 2.500			565	5.3	110	2689	60	Pkr	-	1 hr
2.	6.065 x 2.500			560	16.0	97	2453	60	Pkr	-	1 hr
3.	6.065 x 2.500			590	27.5	87	2220	60	Pkr	-	1 hr
4.	6.065 x 2.500			600	36.0	81	2035	60	Pkr	-	1 hr
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	30.31	55.34	578.2	0.9551	1.260	1.038	2.096
2	30.31	95.76	573.2	0.9662	1.260	1.041	3.678
3	30.31	128.79	603.2	0.9750	1.260	1.048	5.026
4	30.31	148.56	613.2	0.9804	1.260	1.049	5.836
5.							

NO.	P _t	Temp. °R	T _t	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	0.86	570	1.57	0.928	74.136	54.0	0.630	XXXXXX	673	364
2	0.85	557	1.53	0.922				XXXXX		
3	0.90	547	1.50	0.911						
4	0.91	541	1.49	0.908						
5										

NO.	P _t ²	P _w ²	R _w ²	P _t ² - R _w ²
1		3632.8	13.197	1.040
2		3330.2	11.090	3.147
3		3173.2	10.069	4.168
4		2981.1	8.887	5.350
5				

(1) $\frac{P_t^2}{P_t^2 - R_w^2} = 2.661$

(2) $\left[\frac{R_t^2}{P_t^2 - R_w^2} \right]^n = 1.848$

AOF = Q $\left[\frac{R_t^2}{P_t^2 - R_w^2} \right]^n = 10.785$

* P_c 3773.2 P_c² 14,237

Absolute Open Flow	10,785	Mcf/d @ 15.025	Angle of Slope @	Slope, n 0.626
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Remarks: * P_c measured with bottom hole pressure recorder

Approved By Commission:	Conducted By: Al Klaar	Calculated By: Ed Snook	Checked By: Ed Snook
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