

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

Form C-122
Revised 9-1-6

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/22/82		FEB 25 1982	
Company Amoco Production Company				Connection El Paso Natural Gas Comp				O. C. D.	
Pool Burton Flat				Formation Atoka				Unit ARTESIA OFFICE	
Completion Date 9-21-81		Total Depth 12000		Plug Back TD 11550		Elevation 3251		Farm or Lease Name State IR	
Csg. Size 4.500	Wt. 15.1	d 3.826	Set At 11886	Perforations: From 10936 To 10952		Well No. 1			
Tbg. Size 2.267	Wt. 4.7	d 1.995	Set At 11056	Perforations: From 0 To 0		Unit 23		Sec. 21S	Twp. 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual						Packer Set At 8611		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 65 10928		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico	
L 10928	H 10928	G _g 0.593	% CO ₂ 0.45	% N ₂ 1.15	% H ₂ S 0.	Prover 0.	Meter Run 4.0	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							3407	60.			47.0
1.	4.00 x 0.750			462	7.8	72	3047	61	0	0	1.0
2.	4.00 x 0.750			462	19.4	77	2766	61	0	0	1.0
3.	4.00 x 0.750			469	31.4	82	2507	62	0	0	1.0
4.	4.00 x 0.750			476	46.2	85	2150	62	0	0	1.0
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	2.66	61.06	475.6	0.9887	1.2989	1.0363	216
2	2.66	95.96	475.6	0.9840	1.2989	1.0351	338
3	2.66	123.00	482.4	0.9795	1.2989	1.0344	431
4	2.66	150.42	489.3	0.9768	1.2989	1.0341	525
5							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 63	A.P.I. Gravity of Liquid Hydrocarbons 56° API @ 60° F	Specific Gravity Separator Gas 0.593	Specific Gravity Flowing Fluid X X X X X	Critical Pressure 673	Critical Temperature 352	Rate of Flow Q, Mcfd
1.	0.71	532	1.51	0.931				X X X X X X X X	673	352	0.593
2.	0.71	537	1.52	0.933				X X X X X	673	352	0.593
3.	0.72	542	1.54	0.935					673	352	0.593
4.	0.73	545	1.55	0.935					673	352	0.593
5.											

NO.	P _i ²	P _w ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.6628$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.5119$
1	9365	3056	9338	2360.		
2	7724	2776	7705	3992.		
3	6351	2515	6328	5370.		
4	4679	2159	4663	7035.		
5						

Absolute Open Flow <u>794</u> Mcfd @ 15.025				Angle of Slope θ <u>50.9</u>		Slope, n <u>0.813</u>	
Remarks:							
Approved By Commission:		Conducted By:		Calculated By: Barbara Hemmeline		Checked By: Larry Sheppard	