

NE MEXICO OIL CONSERVATION COMMS N
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 4/06/81		MAY 12 1981		
Company AMOCO PRODUCTION COMPANY ✓				Connection EL PASO NATURAL GAS COMPANY				O.C.D. ARTESIA, N.M.	
Pool UNDESIGNATED <i>Morrow</i>				Formation MORROW				Unit	
Completion Date 11-16-80		Total Depth 10880.		Plug Back TD 10829.		Elevation 3937.		Farm or Lease Name STATE IN	
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 10880.	Perforations: From 10535. To 10545.				Well No. 1	
Tbg. Size 2.375	Wt. 4.6	d 1.995	Set At 10402.	Perforations: From 0. To 0.				Unit Soc. Twp. Rge. G 1 24S 24E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE					Packer Set At 10301.		County EDDY		
Producing Thru TUBING		Reservoir Temp. °F 540 @ 10540.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 10540.	H 10540.	G _g 0.582	% CO ₂ 1.10	% N ₂ 0.26	% 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							1790.	54.			44.0
1.	4.00 X 1.000			608.	1.0	68.	1755.	55.	0.	0.	0.7
2.	4.00 X 1.000			610.	11.0	82.	1580.	58.	0.	0.	1.0
3.	4.00 X 1.000			620.	22.0	96.	1360.	60.	0.	0.	1.0
4.	4.00 X 1.000			625.	34.0	86.	1220.	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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.75	24.92	621.2	0.9924	1.3114	1.0475	161.
2.	4.75	82.80	623.2	0.9795	1.3114	1.0430	527.
3.	4.75	118.03	633.2	0.9671	1.3114	1.0391	739.
4.	4.75	147.31	638.2	0.9759	1.3114	1.0427	934.
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.92	528.	1.51	0.911	0.	
2.	0.92	542.	1.55	0.919	0.	
3.	0.93	556.	1.59	0.926		
4.	0.94	546.	1.56	0.920		
5.						

P _c 1803.4 P _c ² 3252.					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.9480$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.2143$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1	3127.	1775.	3150.	102.				
2	2538.	1660.	2755.	497.				
3	1886.	1514.	2291.	961.				
4	1521.	1466.	2149.	1103.				
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2069.$				
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Absolute Open Flow 2069. Mcfd @ 15.025		Angle of Slope θ 53.7		Slope, n 0.735	
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Remarks:			

Approved By Commission:	Conducted By: John West Eng.	Calculated By: R. Whitten	Checked By: Larry Sheppard
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