

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

351/10
Form C-122
Revised 9-1-65
C-132
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-20-81		DEC 2 1981	
Company AMOCO PRODUCTION COMPANY /				Connection TRANSWESTERN				C. C. D.	
Pool <u>Antelope Sink</u> UND MORROW				Formation MORROW				Unit <u>ARTESIA, OFFICE</u>	
Completion Date 5-19-81		Total Depth 8725.		Plug Back TD 8680.		Elevation 3692.		Farm or Lease Name FEDERAL CC	
Csg. Size 5.500	Wt. 17.0	d 4.778	Set At 8724.	Perforations: From 8396. To 8530.		Well No. 1			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8324.	Perforations: From 0. To 0.		Unit Sac. Twp. Rgc. I 4 19S 24E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 8211.		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 176.0 8463.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 8463.	H 8463.	G _g 0.601	% CO ₂ 0.66	% N ₂ 1.04	% H ₂ S 0.	Prover 0.	Meter Run 2.0 FLANGE	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	
1.	2.00 X 0.750			540.	4.0	60.	1247.	43.	0.	0.	72.0
2.	2.00 X 0.750			550.	15.0	59.	1189.	45.	0.	0.	0.7
3.	2.00 X 0.750			570.	40.0	58.	1091.	49.	0.	0.	0.7
4.	2.00 X 0.750			580.	80.0	59.	950.	52.	0.	0.	0.7
5.							603.	56.	0.	0.	0.7

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.	2.71	47.04	553.2	1.0000	1.2905	1.0476	173.
2.	2.71	91.91	563.2	1.0010	1.2905	1.0488	338.
3.	2.71	152.74	583.2	1.0019	1.2905	1.0510	563.
4.	2.71	217.84	593.2	1.0010	1.2905	1.0515	803.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.82	520.	1.47	0.911	A.P.I. Gravity of Liquid Hydrocarbons	0.
2.	0.84	519.	1.46	0.909	Specific Gravity Separator Gas	0.601
3.	0.87	518.	1.46	0.905	Specific Gravity Flowing Fluid	X X X X X X X X
4.	0.88	519.	1.46	0.905	Critical Pressure	674. P.S.I.A.
5.					Critical Temperature	355. R

P _c 1260.2	P _c ² 1588	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3157$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1998$
NO.	P _t ²	P _w	P _w ²
1	1445.	1209.	1461.
2	1219.	1108.	1229.
3	928.	966.	933.
4	380.	617.	381.
5			

Absolute Open Flow 963.		Mcf @ 15.025	Angle of Slope θ 56.4	Slope, n 0.664
Remarks:				
Approved By Commission:				
Conducted By: John West Engr. Co.		Calculated By: B. A. Hemmeline		Checked By: L. W. Sheppard