

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

File
C-122
Form C-122
Revised 9-1-65

RECEIVED

JUN 15 1979

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-6-79		O. C. C. ARTESIA, OFFICE	
Company AMOCO PRODUCTION COMPANY				Connection EL PASO NATURAL GAS COMPANY			
Pool N. TURKEY TRACK				Formation MORROW		Unit	
Completion Date 8-29-78		Total Depth 11436.		Plug Back TD 11352.		Elevation 3413.	
Form or Lease Name STATE "EC"							
Csg. Size 5.500	Wt. 17.0	d 4.892	Set At 11436.	Perforations: From 10970. To 10980.		Well No. 1	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 10871.	Perforations: From 11135. To 11144.		Unit Sec. Twp. Hgt. C 5 19S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10856.		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 184. @ 11057.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 11057.	H 11057.	G _g 0.624	% CO ₂ 0.70	% N ₂ 0.34	% 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							2025.	73.			45.0
1.	4.03 x 1.750			618.	1.0	80.	1948.	70.	0.	0.	1.0
2.	4.03 x 1.750			620.	4.0	80.	1883.	69.	0.	0.	1.0
3.	4.03 x 1.750			625.	7.8	80.	1807.	70.	0.	0.	1.0
4.	4.03 x 1.750			628.	15.2	74.	1675.	70.	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	14.93	25.12	631.2	0.9813	1.2659	1.0518	490.
2	14.93	50.33	633.2	0.9813	1.2659	1.0519	982.
3	14.93	70.55	638.2	0.9813	1.2659	1.0524	1377.
4	14.93	98.72	641.2	0.9868	1.2659	1.0550	1942.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Rate of Flow
1.	0.94	540.	1.48	0.904	209.0	51.0	0.624	X X X X X X X X	674.	364.	490.
2.	0.94	540.	1.48	0.904				X X X X X			982.
3.	0.95	540.	1.48	0.903					P.S.I.A.	P.S.I.A.	1377.
4.	0.95	534.	1.47	0.898					R	R	1942.
5.											

NO.	P _i ²	P _w ²	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	3846.	1954.	3816.	286.	3.4974	3.3721
2	3596.	1895.	3593.	510.		
3	3313.	1826.	3336.	767.		
4	2850.	1712.	2929.	1173.		
5						

Absolute Open Flow <u>6549.</u> Mcfd @ 15.025				Angle of Slope θ <u>45.8</u>		Slope, n <u>0.971</u>	
Remarks:							

Approved By Commission:	Conducted By: John West Engr.	Calculated By: C.C. Weaver	Checked By: W.D. Magness
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N+H NMOC-A 1-HOU 1-SUSD 1-BD 1-South land Royalty Co