

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT A ONE POINT BACK PRESSURE TEST OR GAS WELL

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

1- C-122 file
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-17-78		FEB 2 1978	
Company AMOCO PRODUCTION COMPANY				Connection EL PASO NATURAL GAS			
Pool EMPIRE SOUTH MURRON				Formation MURRON		Unit B.G.C. ARTESIA, OFFICE	
Completion Date 11/2/77		Total Depth 10997.		Plug Back TD 10951.		Elevation 3555.	
Csg. Size 5.500		Wt. 15.5		Set At 4.950		Perforations: From 10854. To 10880.	
Tub. Size 2.375		Wt. 4.7		Set At 10633.		Perforations: From 0. To 0.	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 10633.		Well No. 15	
Producing Thru TUBING		Reservoir Temp. °F 170.0		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
L 10366.		H 10866.		G _g 0.631		% CO ₂ 0.	
				% N ₂ 0.		% 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
1.	4.00	X	1.750	572.	2.3	54.	1797.	34.	0.	0.	1.0
2.	4.00	X	1.750	580.	6.0	66.	1325.	47.	0.	0.	1.0
3.	4.00	X	1.750	580.	9.9	78.	725.	49.	0.	0.	1.0
4.	4.00	X	1.750	580.	16.8	82.	614.	51.	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.	14.94	36.69	585.2	1.0058	1.2589	1.0604	736.
2.	14.94	59.66	593.2	0.9943	1.2589	1.0565	1178.
3.	14.94	76.63	593.2	0.9831	1.2589	1.0519	1490.
4.	14.94	99.83	593.2	0.9795	1.2589	1.0504	1931.
5.							

NO.	P _t	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
1.	0.87	514.	1.40	0.869	72.0 Mcf/bbl.	59.6	0.631	0.663	671. P.S.I.A.	369. °R
2.	0.88	526.	1.43	0.896						
3.	0.88	538.	1.46	0.904						
4.	0.88	542.	1.47	0.906						
5.										

P _c 2992.7 P _c ² 8998.				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0602$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0602$	
1	3277.	1852.	3428.	5570.	$AQF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2047.$		
2	1791.	1364.	1860.	7139.			
3	545.	785.	616.	8382.			
4	393.	715.	511.	8488.			
5							

Absolute Open Flow 2047. Mcfd @ 15.025		Angle of Slope @ 45.0		Slope, n 1.00	
Remarks:					
Approved By Commission:					
Conducted By:		Calculated By:		Checked By:	
John West Engineering		CJT (Amoco)		RMB (Amoco)	