

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-29-81		RECEIVED	
Company AMOCO PRODUCTION COMPANY			Connection EL PASO NATURAL GAS		
Pool HAPPY VALLEY MORROW			Formation MORROW		
Completion Date 9-29-81		Total Depth 11500.		Plug Back TD 11426.	
				Elevation 3379.	
Csg. Size 5.500			Well No. 2		
Wt. 17.0			Perforations: From 10942. To 11178.		
d 4.892			Set At 11426.		
Tng. Size 2.375			Perforations: From 0. To 0.		
Wt. 4.7			Set At 10837.		
d 1.995					
Type Well - Single - Dradhead - C.G. or G.O. Multiple SINGLE					
Producing Thru TUBING			Packer Set At 10725.		
Reservoir Temp. °F 260.0			Mean Annual Temp. °F 60.0		
Baro. Press. - P _a 13.2			Farm or Lease Name LANCASTER SPRING		
L 11060.			H 11060.		
Cg 0.617			% CO ₂ 2.13		
			% N ₂ 0.18		
			% H ₂ S 0.		
Prover 0.			Meter Run 4.0		
			Taps FLANGE		

FLOW DATA									
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	4.00 X 1.750			720.	2.6	100.	3797.	74.	720.0
2.	4.00 X 1.750			720.	3.5	100.	3544.	78.	1.0
3.	4.00 X 1.750			720.	4.1	99.	3152.	79.	1.0
4.	4.00 X 1.750			735.	5.1	95.	2948.	82.	1.0
5.							2575.	85.	1.0

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	14.94	43.24	733.2	0.9636	1.2726	1.0492	831
2.	14.94	50.66	733.2	0.9636	1.2726	1.0492	973.
3.	14.94	54.83	733.2	0.9645	1.2726	1.0496	1055.
4.	14.94	61.47	748.2	0.9680	1.2726	1.0521	1190.
5.							

NO.	P _i	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.	1.08	560.	1.56	0.908	0.	0.	0.617	X X X X X X X X	681.	360.
2.	1.08	560.	1.56	0.908						
3.	1.08	559.	1.55	0.908						
4.	1.10	555.	1.54	0.903						
5.										

P _c 3808.8 P _c ² 14514.		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8503$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3624$	
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²	
1	12654.	3541.	12540.	1974.	
2	10018.	3150.	9924.	4590.	
3	8769.	2945.	8671.	5843.	
4	6699.	2573.	6620.	7894.	
5					

Absolute Open Flow 1621.		Mcf/d @ 15.025		Angle of Slope θ 63.3		Slope, n 0.503	
Remarks:							
Approved By Commission:							
Conducted By: Bennett-Cathey		Calculated By: B. A. Hemmeline		Checked By: L. W. Sheppard			