

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

Form C-122
Revised 9-1-65

RECEIVED

Copy 65F
C-122

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 3-27-74		APR 2 - 1974	
Company Mesa Petroleum Company				Connection El Paso Natural Gas Company		O. C. C. ARTESIA, OFFICE	
Pool Atoka				Formation Atoka		Unit J	
Completion Date 9-19-73		Total Depth 12130		Plug Back TD 11511		Elevation 3167 ft.	
Farm or Lease Name Reddy C...		Well No. Com 1		Unit J		Sec. Twp. Rge. 8 23 27	
Csg. Size 5 1/2		Wt. 17		Set At 11,994		Perforations: From 10,791 To 10,876	
Teg. Size 2 7/8		Wt. 6.5		Set At 10,721		Perforations: From Open End To	
Type Well - Single - Braconnada - G.G. or G.O. Multiple Single				Packer Set At 10,721		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 181 @ 10,724		Mean Annual Temp. °F 13.2		Baro. Press. - P _a New Mexico	
L 10,721		H 10,721		G _g .580		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps 4" Flg.	

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							1879				24 hr.
1.	4 x 1.750			505	1.4	75	1798	82			1 hr.
2.	4 x 1.750			516	4.8	76	1675	81			1 hr.
3.	4 x 1.750			519	9.3	72	1483	80			1 hr.
4.	4 x 1.750			522	16.8	72	1305	79			1 hr.
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.	14.93	26.93	518.2	.9859	1.303	1.038	536
2.	14.93	50.40	529.2	.9850	1.303	1.039	1003
3.	14.93	70.35	532.2	.9887	1.303	1.040	1407
4.	14.93	94.82	535.2	.9887	1.303	1.040	1897
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
1.	.77	535	1.53	.928	480,452	56 @ 60	.589	X X X X X X X X	672	350
2.	.79	536	1.53	.926				X X X X X X X X	672	354
3.	.79	532	1.52	.925				X X X X X	672	354
4.	.80	532	1.52	.924					672	354
5.										

P _r 1802.2 P _c ² 3580.4		(1) $\frac{P_c^2}{P_r^2 - R_w^2} = 1.987$		(2) $\left[\frac{P_r^2}{P_r^2 - R_w^2} \right]^n = 1.644$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q
1	1812.1	3283.6	206.8		
2	1691.5	2861.1	719.3		
3	1503.6	2260.7	1319.7		
4	1333.6	1778.4	1802.0		
5					

Absolute Open Flow 3.119 Mcfd @ 15.025		Angle of Slope @		Slope, n .724	
Remarks: Well Made .240 Bbl. of 56 API Gr.					
Approved By Commission:		Conducted By: Reggie Reston		Calculated By: Reggie Reston	
				Checked By:	