

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/30/81		AUG 19 1981	
Company Amoco Production Company /				Connection EPNG Co.					
Pool Dark Canyon Penn				Formation Messero <i>Yuma</i>				Unit O. C. D. ARTESIA, OFFICE	
Completion Date 4/15/81		Total Depth 10870.		Plug Back TD 10240.		Elevation 3853.		Farm or Lease Name State IW <i>Com.</i>	
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 10870.	Perforations: From 10122. To 10176.			Well No. 1		
Tng. Size 2.375	Wt. 4.7	d 1.995	Set At 10053.	Perforations: From 0. To 0.			Unit Soc. Twp. Rge. L 30 23S 25E		
Type Well - Single - Dradenhead - G.G. or G.O. Multiple Single						Packer Set At 10053.		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 10149.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico	
L 10149.	H 10149.	G _g 0.626	% CO ₂ 4.89	% N ₂ 1.11	% 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							3207.	78.			3.5
1.	4.00 x 1.000			572.	4.0	93.	3132.	76.	0.	0.	0.5
2.	4.00 x 1.000			580.	18.5	96.	3043.	75.	0.	0.	1.0
3.	4.00 x 1.000			595.	38.4	98.	2330.	76.	0.	0.	1.0
4.	4.00 x 1.000			619.	47.6	87.	2489.	75.	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	4.75	48.38	585.2	0.9697	1.2639	1.0387	293.
2	4.75	104.73	593.2	0.9671	1.2639	1.0383	632.
3	4.75	152.90	608.2	0.9653	1.2639	1.0387	921.
4	4.75	173.49	632.2	0.9750	1.2639	1.0438	1061.
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	0.85	553.	1.56	0.927	0.	0.	0.626	XXXXXXX	691.	355.
2	0.86	556.	1.56	0.928				XXXXX		
3	0.88	558.	1.57	0.927						
4	0.92	547.	1.54	0.918						
5										

P _r 3220.2 P _c ² 10370.		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.499$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.714$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1	9892.	3128.	9786.	584.	
2	9340.	3042.	9255.	1115.	
3	8084.	2831.	8014.	2356.	
4	6261.	2494.	6221.	4149.	
5					

Absolute Open Flow 1818. Mcfd @ 15.025		Angle of Slope θ 59.5		Slope, n 0.588	
Remarks:					

Approved by Commission:	Conducted By: John West Engr.	Calculated By: W. Tim Sexton	Checked By: L. W. Sheppard
-------------------------	----------------------------------	---------------------------------	-------------------------------