

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

Form C-122
Revised 9-1-65

RECEIVED BY
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O. C. D.

ARTESIA, OFFICE

Type-Test ☒ Initial ☐ Annual ☐ Special		Test Date	
Company Amoco Production Company		Connection El Paso Natural Gas	
Pool Happy Valley Morrow		Formation Morrow	
Completion Date 06-19-81		Total Depth 11904	Plug Back TD 11235
Elevation 3580		Farm or Lease Name State IM Com	
Csq. Size 5.5"	Wt. 20#	Set At 11904	Perforations: From 10872 To 11102
Thp. Size 2.375"	Wt. 4.7#	Set At 10742	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 10742	Unit I
Producing Zone Tubing		Reservoir Temp. °F 165 @ 11235	Mean Annual Temp. °F 60
Baro. Press. - P _a 13.2		State New Mexico	
L 11904	H 11235	G _g 0.609	% CO ₂ 0.41
% N ₂ 1.49	% H ₂ S 0.0	Prover 0.0	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.	4.03		.500	490	5.0	74	3420	70	490	0	24.00
2.	4.03		.500	490	11.5	75	3210	75	0.0	0	1.0
3.	4.03		.500	490	24.0	76	3100	75	0.0	0	1.0
4.	4.03		.500	490	49.0	78	2925	75	0.0	0	1.0
5.							2685	75	0.0	0	1.0

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hours)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	1.16	50.16	503.2	.9868	1.2814	1.0397	77.
2.	1.16	76.07	503.2	.9859	1.2814	1.0394	116.
3.	1.16	110.66	510.2	.9850	1.2814	1.0397	169.
4.	1.16	159.19	517.2	.9831	1.2814	1.0397	243.

NO.	P _r	Temp. °F	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.	0.75	534.	1.50	0.925	0.0	0.0	0.609	XXXXXX	671.	357.
2.	0.75	535.	1.50	0.926						
3.	0.76	536.	1.50	0.925						
4.	0.77	538.	1.51	0.925						
5.										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	10389.	3206.	10276.	1438.
2	9692.	3096.	9583.	2131.
3	8633.	2921.	8533.	3181.
4	7280.	2682.	7193.	4520.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.5914$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.5914$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 629.$

Absolute Open Flow 629. Mcfd @ 15.025 Angle of Slope 45.0 Slope, n 1.000

Remarks: Average hours produced/day 4.00

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		Chris Brownlee	Mike Madere

