

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/30/81		AUG 19 1981	
Company Amoco Production Company /				Connection EPNG Co.		O. C. D.	
Pool Morrow Baldridge Canyon Morrow Morrow				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 4/26/81		Total Depth 11046.		Plug Back TD 11004.		Elevation 3894.	
Farm or Lease Name State IX <i>Gas Co.</i>				Well No. 1			
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 11046.	Perforations: From 10864. To 10972		Unit Soc. Twp. Rge. H 6 24S 25E	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 10758.	Perforations: From 0. To 0.		County Eddy	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 10631.		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 191.8 10925.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
L 10925.	H 10925.	G _g 0.577	% CO ₂ 1.13	% N ₂ 0.30	% 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											
1.	4.00 x 1.500			595.	6.2	95.	3000.	80.			4.0
2.	4.00 x 1.500			619.	14.4	90.	2585.	86.	0.	0.	1.0
3.	4.00 x 1.500			611.	25.0	90.	2230.	80.	0.	0.	1.0
4.	4.00 x 1.500			627.	34.8	92.	1801.	72.	0.	0.	1.0
5.							1203.	75.	0.	0.	1.0

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	10.85	61.65	608.2	0.9680	1.3166	1.0370	884.
2	10.85	95.55	632.2	0.9723	1.3166	1.0401	1380.
3	10.85	124.92	624.2	0.9723	1.3166	1.0396	1803.
4	10.85	149.28	640.2	0.9706	1.3166	1.0399	2152.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.90	555.	1.59	0.930	A.P.I. Gravity of Liquid Hydrocarbons	0. Deg.
2.	0.93	550.	1.58	0.924	Specific Gravity Separator Gas	0.577
3.	0.92	550.	1.58	0.925	Specific Gravity Flowing Fluid	XXXXXX
4.	0.94	552.	1.58	0.925	Critical Pressure	678. P.S.I.A.
5.					Critical Temperature	349. R

P _c 3013.2 P _c ² 9079.				
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	6751.	2578.	6649.	2403.
2	5032.	2239.	5011.	4068.
3	3291.	1832.	3357.	5722.
4	1479.	1265.	1601.	7478.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.214$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2495.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.160$

Absolute Open Flow	2495.	Mcf @ 15.025	Angle of Slope θ	52.6	Slope, n	0.763
Remarks:						
Approved By Commission:		Conducted By: John West Engr.		Calculated By: W. Tim Sexton		Checked By: L. W. Sheppard