

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 4-21-81	
Company Amoco Production Company				Connection El Paso Natural Gas Comp		
Pool Osudo				Formation Morrow		Unit
Completion Date 7-21-80		Total Depth 13450.		Plug Back TD 13400.		Elevation 3677.
Farm or Lease Name Federal "AG" Com						Well No. 1
Csg. Size 4.500	Wt. 15.1	d 3.826	Set At 13448.	Perforations: From 13007. To 13142.		Unit 1
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 12932.	Perforations: From 13320. To 13330.		Unit Sec. Twp. Rge. F 14 20S 35E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11048.		County Lea
Producing Thru Tubing		Reservoir Temp. °F 207 @ 13169		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2
L 13169.		H 13169.	G _g 0.721	% CO ₂ 0.52	% N ₂ 0.53	% 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							3116.	64.			19.0
1.	4.00 x 2.000			575.	8.4	76.	2381.	64.	0.	0.	0.5
2.	4.00 x 2.000			585.	18.5	72.	2023.	67.	0.	0.	0.7
3.	4.00 x 2.000			610.	30.0	68.	1645.	70.	0.	0.	1.0
4.	4.00 x 2.000			620.	37.0	70.	1425.	71.	0.	0.	1.0
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 _{sp}	Rate of Flow Q, Mcfd
1	19.83	70.29	588.2	0.9850	1.1780	1.0682	1728.
2	19.83	105.20	598.2	0.9887	1.1780	1.0716	2604.
3	19.83	136.73	623.2	0.9924	1.1780	1.0770	3415.
4	19.83	153.06	633.2	0.9905	1.1780	1.0773	3816.
5.							

NO.	P _t	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.	0.88	536.	1.36	0.876	12.5	60.2	0.721	XXXXXX	668.	394.
2.	0.90	532.	1.35	0.871				XXXXXX		
3.	0.93	528.	1.35	0.862						
4.	0.95	530.	1.35	0.862						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	5732.	2411.	5814.	3953.
2	4146.	2075.	4306.	5461.
3	2750.	1730.	2993.	6774.
4	2068.	1533.	2351.	7416.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3170$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5026.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3170$

Absolute Open Flow	5026.	Mcfd @ 15.025	Angle of Slope @	45.0	Slope, n	1.000
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Remarks:

Approved By 	Conducted By:	Calculated By:	Checked By:
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