

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

Form C-122
RECEIVED

DEC - 1 1980

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-13-80		O. C. D. ARTESIA, OFFICE		
Company Amoco Production Company ✓					Connection El Paso Natural Gas Comp				
Pool Hansen Valley Undesignated					Formation Morrow		Unit Z		
Completion Date 6-16-80		Total Depth 11671.		Plug Back TD 11535.		Elevation 3567.		Farm or Lease Name State IE Com	
Csg. Size 5.500	Wt. 17.0	d 4.778	Set At 11671.	Perforations: From 11378. To 11492.			Well No. 1		
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 11281.	Perforations: From 0. To 0.			Unit Sec. Twp. Rge. L 16 22S 26E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11187.		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 189. @ 11435.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico	
L 11435.	H 11435.	Gg 0.625	% CO ₂ 3.80	% N ₂ 0.64	% 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							2595.	60.			45.2
1.	4.02 x 1.250			340.	6.2	67.	2460.	62.	0.	0.	1.0
2.	4.02 x 1.250			338.	9.6	73.	2387.	65.	0.	0.	0.7
3.	4.02 x 1.250			348.	18.5	74.	2250.	67.	0.	0.	0.7
4.	4.02 x 1.250			358.	56.2	70.	1862.	70.	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	7.47	46.98	353.2	0.9933	1.2646	1.0298	454.
2	7.47	58.10	351.2	0.9877	1.2646	1.0282	557.
3	7.47	81.72	361.2	0.9868	1.2646	1.0287	784.
4	7.47	144.50	371.2	0.9905	1.2646	1.0305	1393.
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.51	527.	1.47	0.943	0.	
2	0.51	533.	1.49	0.946	0.	
3	0.53	534.	1.49	0.945		
4	0.54	530.	1.48	0.942		
5						

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	6117.	2474.	6120.	683.
2	5761.	2399.	5753.	1050.
3	5122.	2261.	5113.	1690.
4	3516.	1883.	3545.	3258.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0880$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2523.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8107$

Absolute Open Flow	2523.	Mcf/d @ 15.025	Angle of Slope θ	51.1	Slope, n	0.806
--------------------	-------	----------------	-------------------------	------	----------	-------

Remarks:

Approved By Commission:	Conducted By: John West Engineering	Calculated By: Chris Van Dooren	Checked By: Larry Sheppard
-------------------------	--	------------------------------------	-------------------------------