

NE MEXICO OIL CONSERVATION COMMS. N
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-27-82		APR 8 1982	
Company AMOCO PRODUCTION COMPANY ✓				Connection PCA				O. C. D.	
Pool DOS HERMANOS <i>Holman Lane Strawn</i>				Formation STRAWN				Unit ARTESIA, OFFICE	
Completion Date 2-15-82		Total Depth 13605.		Plug Back TD 11405.		Elevation 3343.		Farm or Lease Name EMPEROR OIL CO. <i>fed Gas Com.</i>	
Csq. Size 7.000	Wt. 26.0	d 6.276	Set At 13375.	Perforations: From 11078. To 11149.		Well No. 1			
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 10963.	Perforations: From 0. To 0.		Unit F Sec. Twp. Rge. 28 20 S 30 E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 10900.		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 162. @ 11113.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 11113.	H 11113.	G _g 0.679	% CO ₂ 0.44	% N ₂ 1.07	% H ₂ S 0.	Prover 0.	Meter Run 4.0 FLANGE	Taps	

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							2478.	61.			46.0
1.	4.00 x 2.250			120.	2.9	82.	2412.	66.	0.	0.	1.0
2.	4.00 x 2.250			231.	9.0	87.	2355.	73.	0.	0.	0.7
3.	4.00 x 2.250			432.	17.6	69.	2000.	75.	0.	0.	1.0
4.	4.00 x 2.250			640.	25.0	70.	1550.	76.	0.	0.	0.4
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	25.68	19.62	133.2	0.9795	1.2137	1.0124	607.
2	25.68	46.88	244.2	0.9750	1.2137	1.0226	1457.
3	25.68	88.62	445.2	0.9915	1.2137	1.0459	2865.
4	25.68	127.79	653.2	0.9905	1.2137	1.0681	4215.
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	0.20	542.	1.43	0.976	A.P.I. Gravity of Liquid Hydrocarbons _____ Deq.
2.	0.37	547.	1.44	0.956	Specific Gravity Separator Gas _____
3.	0.67	529.	1.39	0.914	Specific Gravity Flowing Fluid _____
4.	0.98	530.	1.40	0.877	Critical Pressure _____ P.S.I.A. _____
5.					Critical Temperature _____ R _____

P _c 2491.2 P _c ² 6206.	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8700$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7074$		
NO	P _t ²	P _w	R _w ²	P _c ² - P _w ²
1	5882.	2420.	5857.	349.
2	5608.	2363.	5586.	620.
3	4053.	2049.	4199.	2007.
4	2444.	1699.	2887.	3319.
5				

Absolute Open Flow 7196. _____ Mcfd @ 15.025		Angle of Slope θ 49.5	Slope, n 0.855
Remarks: _____			
Approved By Commission: _____			
Conducted By: John West		Calculated By: Barbara Wagner	Checked By: Larry Sheppard