

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

Form C-122
Revised 9-1-65

Amended

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-14-87		710' FSL &	
Company Conoco, Inc.				Connection EPNG			2200' FEL	
Pool Eumant				Formation Queen			Unit 0	
Completion Date 8-25-87		Total Depth 3801'		Plug Back TD —		Elevation 3580'		Farm or Lease Name State D
Csg. Size 5 1/2"	Wt. 14 #	d 5.012	Set At 3800'	Perforations: From 3486' To 3660'			Well No. 17	
Tbg. Size 2 3/8"	Wt. 4.6 #	d 1.995	Set At 3380'	Perforations: From Open To Ended			Unit Sec. Twp. Rge. 0 15 21S 36E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 3380'			County Lea	
Producing Thru Tubing		Reservoir Temp. °F 108° 3573'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 3573'	H 3573'	G _g 0.7045	% CO ₂ 4.137	% N ₂ 1.179	% H ₂ S 0.612	Prover —	Meter Run 4.027"	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							300	68			21.5 Hrs
1.	4.027 X 1.750			62.49	7.29	78	292	72	(Stabilized)		1 Hr.
2.	4.027 X 1.750			62.49	20.25	72	275	72	(Stabilized)		1 Hr.
3.	4.027 X 1.750			63.36	40.32	72	254	72			1 Hr.
4.	4.027 X 1.750			66.01	84.64	72	195	72	(Stabilized)		1 Hr.
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 _{pv}	Rate of Flow Q, Mcfd
1	14.93	23.49	75.69	0.9831	1.1914	1.007	414
2	14.93	39.15	75.69	0.9887	1.1914	1.007	693
3	14.93	55.56	76.56	0.9887	1.1914	1.007	984
4	14.93	81.88	79.21	0.9887	1.1914	1.007	1450
5.							

NO.	P _r	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.	0.11	538	1.41	0.987	0	0	0.7045	XXXXXX	684	382
2.	0.11	532	1.39	0.987				XXXXX		
3.	0.11	532	1.39	0.987						
4.	0.12	532	1.39	0.987						
5.										

NO.	P _c	P _w	P _c ² - P _w ²	P _c ² / (P _c ² - P _w ²)	P _c ² / (P _c ² - P _w ²) ⁿ
1	337.8	308.5	95.2	4.1	
2	333.6	304.7	92.8	6.5	
3	326.5	298.2	88.9	10.4	
4	313.9	286.7	82.2	17.1	
5	345.3	(SI BHP)			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.807$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6722$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.636$

Absolute Open Flow	6722	Mcfd @ 15.025	Angle of Slope	48.9°	Slope, n	0.872
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Remarks: * Pressures were measured w/ BHP Gauges.

Approved By Commission:	Conducted By: Richard Tounley Bennett & Cathey	Calculated By: Tom C. Giddie	Checked By:
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OCT 14 1987

Amended