

NE. 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 9-25-87		1780' FSL §		
Company Conoco, Inc.				Connection EPNG			2030' FWL		
Pool Eumont				Formation 7 Rivers Queen			Unit K		
Completion Date 9-1-87		Total Depth 3845'		Plug Back TD 3656'		Elevation 3600'		Farm or Lease Name Meyer A-1	
Csg. Size 5 1/2"	Wt. 14#	d 5.012	Set At 3844'	Perforations: From 3038' - 3354' To 3468' To 3610'			Well No. 18		
Tbg. Size 2 3/8"	Wt. 4.6#	d 1.995	Set At 2912'	Perforations: From open To Ended			Unit Sec. Twp. Rge. K B 21S 36E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2912'		County Lea			
Producing Thru Tubing		Reservoir Temp. °F 96 @ 3324'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 3324'	H 3324'	G _g 0.6873	% CO ₂ 1.144	% N ₂ 1.775	% H ₂ S 0.0632	Prover -	Meter Run 4.026"	Taps Flange	

FLOW DATA						TUBING DATA		BHP GAGING 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							230	77	253.1	96	25 Hrs
1.	4.026" X 1.500"			61.62	10.89	84	222	78	251.3	96	1 Hr
2.	4.026" X 1.500"			63.54	25.00	82.5	211	77	252.7	96	1 Hr
3.	4.026" X 1.500"			65.30	51.84	81	191	77	250.7	96	1 Hr
4.	4.026" X 1.500"			67.08	73.96	79	169	75	246.5	96	1 Hr
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	10.84	28.54	74.82	0.9777	1.206	1.007	367
2	10.84	43.80	76.74	0.9790	1.206	1.007	564
3	10.84	63.79	78.50	0.9804	1.206	1.007	823
4	10.84	77.06	80.28	0.9822	1.206	1.007	996
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.	0.11	544	1.43	0.967	0	0	0.6873	XXXXXX	670	361
2.	0.11	542	1.42	0.967						
3.	0.12	541	1.42	0.986						
4.	0.12	539	1.41	0.986						
5.										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	55.32	57.2	3270.84	2.0
2	50.27	54.6	2981.16	4.6
3	41.70	51.0	2601.00	8.2
4	33.20	46.9	2198.81	12.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.813$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2405$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.414$

Absolute Open Flow <u>2405</u> Mcfd @ 15.025		Angle of Slope θ <u>60.7°</u>		Slope, n <u>0.561</u>	
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Remarks: * Pressures were measured with BHP gauges, but because of increase in pressure, test was calculated using surface pressures. No fluid was produced @ surface.

Approved By Completion: 	Conducted By: Bennett & Cathey	Calculated By: Jarr C. Cuddihy	Checked By:
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RECEIVED
OCT 13 1987
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HOBBS OFFICE