

N 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 May 1, 1975				
Company Continental Oil Company				Connection EPNG					
Pool Eumont				Formation Queen				Unit N	
Completion Date 4-7-75		Total Depth 4150		Plug Back TD 4150		Elevation 3725 GL		Farm or Lease Name State <u>KN</u> 12	
Csg. Size 4 1/2	Wt. 15#	d	Set At 4150	Perforations: From 3709 To 3850		Well No. 2			
Teg. Size 2 3/8	Wt. 4.7	d	Set At	Perforations: From To		Unit N		Sec. 12	Twp. 19
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Lea		State New Mexico	
Producing Thru TBG		Reservoir Temp. °F @		Mean Annual Temp. °F 13.2		Baro. Press. - P _g			
L	H	Gg .680(assumed)	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4	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							300 S.I.P.		530		48 Hours
1.	4 X 1.000			79	9.0	82	241		499		
2.	4 X 1.000			79	15.2	83	271		490		
3.	4 X 1.000			82	33.6	83	281		470		
4.	4 X 1.000			83	56.3	80	225		450		
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	28.81	92.2	.9795	1.213	Nil	163
2	4.753	37.44	92.2	.9786	1.213	Nil	211
3	4.753	56.56	95.2	.9786	1.213	Nil	319
4	4.753	73.21	95.2	.9813	1.213	Nil	414
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	.14	542	1.41	Nil	9.953	37.84 @ 60	.680 (Assumed)	XXXXXX	669	385
2	.14	543	1.41	Nil						
3	.14	543	1.41	Nil						
4	.14	540	1.40	Nil						
5										

P _c 543.2 P _c ² 295.1					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.666$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.666$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²		
1		512.2	262.3	32.8		
2		503.2	253.2	41.9		
3		483.2	233.5	61.6		
4		463.2	214.6	80.5		
5						

Absolute Open Flow 1,518 Mcfd @ 15.025			Angle of Slope θ 45°	Slope, n 1.000
Remarks: Well made 4.63 barrels oil, API gravity 37.84, and 3.5 barrels H ₂ O.				
Approved By: Conducted By: Reggie Reston Calculated By: Reggie Reston Checked By:				