

CONTINENTAL OIL COMPANY

6-19-74

MEXICO OIL CONSERVATION COMMITTEE
ONE PORT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

☒ Initial		☐ Special		Test Date 6/26/74	
Company Continental Oil Company			Perforation None		
Location Eumont			Unit Eumont		
Completion Date 6-19-74		Total Depth 3728		Elevation 3531 GR	
Casing Size 5 1/2"		Set At 3728		Perforations: From 3530 To 3659	
Well No. 94		Farm or Lease Name SEMU Eumont		Unit 23 20S 37E	
Type Well - Single - Brodenhead - G.G. or C.O. Multiple SINGLE		Packer Set At		County Lea	
Producing Thru		Reservoir Temp. °F 13.2		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _g		Prover	
G _g .671 (Assumed)		% CO ₂		% N ₂	
% H ₂ S		Meter Run		Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _{wy}	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	2	x	3/16	421		72	444		445		24 hr.
2.	2	x	7/32	404		73	421		426		30 min.
3.	2	x	1/4	388		73	404		412		45 min.
4.	2	x	5/16	349		73	388		401		45 min.
5.	2	x				73	349		374		1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_w^2 - P_c^2}$	Pressure P _c	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.6082		434.2	.9887	1.221	1.045	333
2.	.8393		417.2	.9877	1.221	1.042	440
3.	1.087		401.2	.9877	1.221	1.041	547
4.	1.672		362.2	.9877	1.221	1.036	757

NO.	P _c	Temp. °F	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.	.65	532	1.39	.915	.671 (Assumed)	XXXXXX	XXXXXX	669	.382
2.	.62	533	1.40	.921					
3.	.60	533	1.40	.923					
4.	.54	533	1.40	.931					

P _c 453.2	P _w 209.95	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.498$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.510$
NO.	P _c	P _w	P _c ² - P _w ²
1.		439.2	192.90
2.		425.2	180.80
3.		414.2	171.55
4.		387.2	149.92

Flow Into Open Flow	1.900	Mcf/d @ 15.085	Angle of Slope θ	53.75	Slope, n	.735
Remarks: No fluid made during test.						
Approved By:	Conducted By: Reggie Reston	Calculated By: Rick Pagan	Checked By:			