

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-11-78		SPUD DATE: 3-21-78	
Company Continental Oil Company				Connection Air			
Pool Eumont Yates				Formation Penrose		Unit B	
Completion Date 4-29-78		Total Depth 3750		Plug Back TD 3706		Elevation 3512 GL	
Casing Size 4 1/2		WT. 10.5		Set At 3750		Perforations: From 3507 To 3624	
Tubg. Size 2 3/8		WT. 4.7		Set At 3460		Perforations: From open To end	
Type Well - Single - Pinhead - G.G. or G.O. Multiple Single				Packer Set At		Well No. 2	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
L		H		Gg		Prover 2"	
		.696		% CO ₂		% N ₂	
				% H ₂ S		Meter Run	
						Temp	

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							285		285		24 hrs.
1.	2	x	.500	80		84	253		274		1 hr.
2.	2	x	.750	60		78	206		254		1 hr.
3.	2	x	1.000	50		75	145		229		1 hr.
4.	2	x	1.250	32		74	80		218		30 Min.
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. Compens. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.279		93.2	.9777	1.199	Nil	468
2	9.453		73.2	.9831	1.199	Nil	816
3	17.09		63.2	.9859	1.199	Nil	1277
4	27.63		45.2	.9868	1.199	Nil	1478
5							

NO.	P _i	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcft/cu.
1	.14	544	1.39	Nil	A.P.L. Gravity of Light Hydrocarbons		Deq.
2	.11	538	1.37	Nil	Specific Gravity Separator Gas	.696	Y X X X X X X X
3	.09	535	1.36	Nil	Specific Gravity Flowing Fluid	X X X X X	
4	.07	534	1.36	Nil	Critical Pressure	668	P.S.I.A.
5					Critical Temperature	392	P.S.I.A.

NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		287.2	82.48	6.44	2.507	2.176
2		267.2	71.40	17.53		
3		242.2	58.66	30.26		
4		231.2	53.45	35.47		
5						

Absolute Open Flow		3,216	Mcfd @ 15,025	Angle of Slope	49.75°	Slope, n	.846
Remarks:							
Approved By		Contacted By:		Calculated By:		Checked By:	
Rick Pagan		Rick Pagan		Rick Pagan		Rick Pagan	

NMOCC, HOBBS (5) - USGS, HOBBS (2) - FILE