

NEW 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 9-15-78		SPUD DATE: 7-31-78	
Company Continental Oil Company				Connection None					
Pool Eumont				Formation Seven River Queens				Unit A	
Completion Date 9-2-78		Total Depth 3800		Plug Back TD 3800		Elevation N/A		Farm or Lease Name State D	
Csg. Size 4 1/2	Wt. 12.7	d 3.958	Set At 3800	Perforations: From 3444 To 3610		Well No. 14			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3395	Perforations: From open To end		Unit Sec. Twp. Rge. A 15 21 36			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 3395		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 108 @ 3395		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 3395	H 3395	Gg .679	% CO ₂	% N ₂	% H ₂ S	Prover 2"	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 _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							403				94 hrs.
1.	2	x	.750	39		67	388				1 hr.
2.	2	x	.750	86		63	360				1 hr.
3.	2	x	1.250	37		61	318				45 Min.
4.	2	x	1.250	49		63	239				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	9.453		52.2	.9933	1.214	Nil	595
2	9.453		99.2	.9971	1.214	Nil	1135
3	27.63		50.2	.9990	1.214	Nil	1682
4	27.63		62.2	.9971	1.214	Nil	2080
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.	.08	527	1.38	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ None _____ Deg.	
2.	.15	523	1.37	Nil	Specific Gravity Separator Gas _____ X X X X X X X X	
3.	.08	521	1.36	Nil	Specific Gravity Flowing Fluid _____ X X X X X	
4.	.09	523	1.37	Nil	Critical Pressure _____ 669 _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ 382 _____ R	_____ R

P _c 416.2	P _c ² 173.2			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				165.7
2				156.8
3				148.3
4				123.3
5				49.9

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.956$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.322$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8.952$

Absolute Open Flow _____ 8.952 _____ Mcfd @ 15.025	Angle of Slope ϕ _____ 49.25 _____	Slope, n _____ .862 _____
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Remarks: DISTR. NMOC, HOBBS (2) - FILE

Approved By Commission:	Conducted By: Bob McMurray	Calculated By: Bob McMurray	Checked By:
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