

**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 7/7/78			
Company Continental Oil Company				Connection None					
Pool Gonzales Mesa				Formation Mesa Verde				Unit	
Completion Date 5/20/78		Total Depth 5351'		Plug Back TD 5272		Elevation 6645'		Farm or Lease Name ART Apache JT	
Csg. Size 4 1/2" ID	Wt. 10.5	d 4.062	Set At 5270	Perforations: From 4977 To 5222		Well No. 32			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 5212	Perforations: From none To lead		Unit Sec. Twp. Rge. 6 25 14			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - G.O.						Packer Set At None		County Rio Arriba	
Producing Thru Tbg		Reservoir Temp. °F 80		Mean Annual Temp. °F 50°		Baro. Press. - P _a 12.2		State N.M.	
L 5200	H 5200	G _g .690	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 442	Taps Flow	

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											
1.	4	Y	2	302			520		1943		
2.							302		125		
3.											
4.											
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	19.21	173.9	302	1.000	1.004		576.15
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 1050$ $P_c^2 = 1102500$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		52.7	2778	112551
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 40000$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 576$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.000$

Absolute Open Flow	576	Mcf/d @ 15.025	Angle of Slope @	
Remarks:				
Approved By Commission:	Conducted By: D.L. Moore	Calculated By: D.L. Moore	Checked By:	

