

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-144
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-8-77	
Company Continental Oil Co.		Connection None	
Pool South Blanco		Formation Pictured Cliffs	
Completion Date 7-16-77	Total Depth 3915	Plug Back TD 3842	Elevation 7273
Farm or Lease Name AAI Apache "O"		Well No. 13	
Csq. Size 2 7/8	Wt. 6.50	Set At 3861	Perforations: From 3784 To 3796
Tbg. Size	Wt.	Set At	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Packer Set At	
Producing Thru Csg	Reservoir Temp. °F 108° 3760	Mean Annual Temp. °F 50°	Baro. Press. - P _a 12.2
L 3790	H 3790	Gg .69	% CO ₂ % N ₂ % H ₂ S Prover
Meter Run		Taps	
Unit Sec. Twp. Rge. 1 4 25N 4W		County Rio Arriba	
State N.M.			

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
1.	3/4" choke nipple		92			70°			962	75°	
2.									92	70°	3 hr.
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.00		104	.995	1.204	1.09	1370
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

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²
1		144	20816	
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.022$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1396$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.019$

Absolute Open Flow	1396	Mcfd @ 15.025	Angle of Slope @	Slope, n .85
Remarks:				

Approved By Commission	Conducted By: F.T. Chavez	Calculated By: F.T. Chavez	Checked By:
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NMOCC-AZTEC (2) - USGS-DURANGO (2) - BEA-FILE