

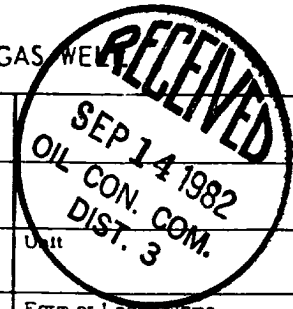
OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS



Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 9-1-82		
Company Arco Oil & Gas Co., Div of Atlantic Richfield Co.			Connection None		
Pool Undesignated Gallup			Formation Gallup		
Completion Date 8-25-82		Total Depth 7462	Plug Back TD 6620	Elevation 6121 GL	Form or Lease Name Atlantic "C"
Csq. Size 4 1/2	Wt. 11.6	d 1.995	Set At 7461	Perforations: From 6276 To 6527	Well No. 101
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 6267	Perforations: From To	Unit Sec. Twp. Rge. A 6 30N 10W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas			Packer Set At None		County San Juan
Producing Thru Tubing		Reservoir Temp. °F p	Mean Annual Temp. °F	Baro. Press. - P _g 12.0	State New Mexico
L 6267	H 6267	G _g .600 EST	% CO ₂	% N ₂	% H ₂ S
Prover 2"		Meter Run	Taps		

NO.	FLOW DATA			TUBING DATA		CASING DATA		Duration of Flow	
	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2		0.750	20		73	1250	320	7-days
2.									3-Hours
3.									
4.									
5.									

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
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	0.05	533	1.49	0.994	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas 0.600 EST
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure 671 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 358 _____ R _____ R

NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²
1	1024	65	4188	1588456
2				
3				
4				
5				

P_c 1262 P_c² 1592644

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = \frac{1.0026}{1.0026 - 0.0000} = 1.0026$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.0020$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 388$

Absolute Open Flow 388 Mcfd @ 15.025 Angle of Slope @ _____ Slope, n 0.750

Remarks: Tested thru 48/64" Choke

Approved By Division	Conducted By: C.R. Thompson, Jr.	Calculated By: C.R. Thompson, Jr.	Checked By:
----------------------	-------------------------------------	--------------------------------------	-------------