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 WELLS

RECEIVED
SEP 14 1982
OIL CON. COM.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-1-82	
Company: Arco Oil & Gas Co., Div of Atlantic Richfield Co.			Connection: None		
Pool: Undesignated Gallup			Formation: Gallup		Unit
Completion Date: 8-25-82	Total Depth: 7462		Plug Back TD: 6620	Elevation: 6121 GL	Farm or Lease Name: Atlantic "C"
Csg. Size: 4 ½ / Wt.: 11.6 / d: / 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: A / Sec.: 6 / Twp.: 30N / Rge.: 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:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0		State: New Mexico
L: 6267	H: 6267	Gg: .600 EST	% CO_2:	% N_2:	% H_2S:
Prover: 2"	Meter Run:	Taps:			

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1250		1250		7-days
1.	2		0.750	20		73	20		320		3-Hours
2.											
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	9.453		32	0.9877	1.291	1.003	387
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	0.05	533	1.49	0.994
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.600 EST XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

P_c 1262 P_c^2 1592644

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1024	65	4188	1588456
2				
3				
4				
5				

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

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

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

Remarks: Tested thru 48/64" Choke

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