STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

Form C-122
Revised 10-1-78

RECEIVED
JUL 1 1982
OIL CON. COM.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date	
Company: Arco Oil & Gas Co.; Div. of Atlantic Richfield Co.		Connection: NONE		
Pool: Basin Dakota		Formation: Dakota		Unit
Completion Date: 6-18-82	Total Depth: 7793	Plug Back TD: 7735	Elevation: 6315GL	Farm or Lease Name: Atlantic "A"
Csg. Size: 4 ½ / Wt.: 10.5 / d: 4.052 / Set At: 7793		Perforations: From 7440 To 7654		Well No.: 101
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 7434		Perforations: From To		Unit: P / Sec.: 22 / Twp.: 31N / 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: 7434 / H: 7434	Gg: 0.680(EST)	% CO_2:	% N_2:	% H_2S: / Prover: 2" / Meter Run: / Taps:

FLOW DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					1885		1884		10 Days
1.	2" x 0.750"	51		86	80		418		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		63	0.9759	1.213	1.008	711
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	0.09	546	1.42	0.984
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.680 (EST) XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
Critical Temperature 385 R _____ R

P_c 1897 P_c^2 3598609

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	8464	149	22228	3576381
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0062$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0046$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 714$

Absolute Open Flow 714 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.750

Remarks: Well Tested thru 48/64" Choke

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