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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 2-1-82	
Company: Arco Oil & Gas Co., Div. of Atlantic Richfield Co.	Connection: None			
Pool: Basin Dakota	Formation: Dakota		Unit	
Completion Date: 1-23-82	Total Depth: 6791	Plug Back TD: 6742	Elevation: 5748	Farm or Lease Name: State "B" Com
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 6786	Perforations: From 6548 To 6630			Well No.: 1E
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6488	Perforations: From To			Unit: E / Sec.: 16 / Twp.: 29N / 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: 6488 / H: 6488 / Gg: .680(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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						1168		1169		SI 9 Days
1.	2"	.750	16		65	39		265		Flow 3 Hrs
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		28	.9952	1.213	1.000	320
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1	.04	525	1.36	1.000
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .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 1181 P_c^2 1394761

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2601	71	5081	1389680
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0037$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0027$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 321$

Absolute Open Flow 321 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Well Tested Thru 48/64" Choke

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Rex Hitchcock, Jr.	Rex Hitchcock, Jr.	