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: [x] Initial [ ] Annual [ ] Special				Test Date: 08-04-80	
Company: ARCO Oil & Gas Co., Div. of Atlantic Richfield Co.			Connection: None		
Pool: Basin Dakota			Formation: Dakota		Unit:
Completion Date: 07-13-80	Total Depth: 6674		Plug Back TD: 6628	Elevation: 6130	Farm or Lease Name: Schlosser WN Fed.
Csg. Size: 4½" / Wt.: 10.5# / d: 4.052 / Set At: 6674			Perforations: From 6448 To 6605		Well No.: 2-E
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995 / Set At: 6422			Perforations: From To		Unit: C / Sec.: 3 / Twp.: 27N / Rge.: 11W
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: 6422 / H: 6422	Gg: .800(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							1414		1412		SI 22-Days
1.	2"	X	.750	192		74°	394		751		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		204	.9868	1.118	1.029	2189
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1	.31	534	1.26	.945
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 30.252 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 44.2 @ 60° Deg.
Specific Gravity Separator Gas .800 (EST) XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 665 P.S.I.A. P.S.I.A.
Critical Temperature 424 R R

P_c 1426 P_c^2 2033476

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	164836	545	296992	1736484
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.1710$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2}\right]^n = 1.1257$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2}\right]^n = 2464$

Absolute Open Flow 2464 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.	