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: 4-3-81	
Company: ARCO Oil & Gas Company, Division of Atlantic Richfield		Connection: None			
Pool: Basin Dakota		Formation: Dakota		Unit	
Completion Date: 3-24-81	Total Depth: 6550	Plug Back TD: 6528	Elevation: 6024	Farm or Lease Name: Krause WN Federal	
Csg. Size: 4½ / Wt.: 10.5# / d: 4.052 / Set At: 6549		Perforations: From 6432 To 6514		Well No.: 7E	
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: 1.995 / Set At: 6386		Perforations: From To		Unit: J / Sec.: 32 / Twp.: 28N / Rge.: 11W	
Type Well – Single – Bradenhead – G.C. 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: 5109 / H: 5109	Gg: .800 Est	% CO_2:	% N_2:	% H_2S:	Prover: 2" / Meter Run: / Taps:

FLOW DATA

NO.	Prover 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							1117		1117		SI 10 Days
1.	2"		.750"	95		62	177		465		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		107	.9981	1.118		1144
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.16	522	1.23	.973
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .800 Est XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 665 P.S.I.A. _____ P.S.I.A.
Critical Temperature 424 R _____ R

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OIL CON. COM.
DIST. 3

P_c 1129 P_c^2 1274641

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	35721	268	71585	1203056
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0595$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0443$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1195$

Absolute Open Flow 1195 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.	