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 WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1/31/86	
Company: ARCO Oil & Gas Co., Div. of Atlantic Richfield Co.			Connection: None		
Pool: Basin Dakota			Formation: Dakota		Unit
Completion Date: 1/24/86	Total Depth: 6857		Plug Back TD: 6771	Elevation: 5884 GL	Farm or Lease Name: Maddox WN Federal
Csg. Size: 4 1/2" / Wt.: 11.6# / d: 4.000 / Set At: 6857			Perforations: From 6466 To 6587		Well No.: 1E
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 6456			Perforations: From To		Unit: P / Sec.: 13 / Twp.: 30N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			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	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6456	6456	0.612					2.067	Flange

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2047		2060		SI 7 days
1.	2.067		.750	330	126	118	1655		1990		Flow 3 hr
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	2.709	208	342	.9485	1.278	1.021	697
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.51	578	1.60	.959
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .612 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

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OIL CON. DIV.
DIST. 3

P_c 2072 P_c^2 4293184

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2778889	1670	2789625	1503559
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8553$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1965$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1531$

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

Remarks: Well tested thru 11/64" choke.

Approved By Division | Conducted By: | Calculated By: | Checked By: