Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: ARCO PERMAIN					Lease or Unit Name: DINAH 23 FED. COM			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 9-18-96		Well No.: 1	
Completion Date: 8-13-96		Total Depth: 10560		Plug Back TD: 10180	Elevation:		Unit Ltr. - Sec. - TWP - Rge.: M-23-17S-28E	
Csg. Size: 5½	Wt.: 17	d: 4.892	Set At: 10560	Perforations: From: 9810	To: 9817		County: EDDY	
Tbg. Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 9770	Perforations: From:	To:		Pool:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: 9337			Formation: ATOKA	
Producing Thru: tbg	Reservoir Temp. °F: 171	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2			Connection: EL PASO	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9770	9770	.773	.232	1.680	-0-	-0-	4.034	flg.

	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					1750		PKR		72 hr
1.	4.034 X .750	371			760		"		24 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.		VOLUME FROM TOTAL FLOW METER					600
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: 24.0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 52.9 Deg.
Specific Gravity Separator Gas: .773 XXXXXXXXX
Specific Gravity Flowing Fluid: 52.9 XXXXX GMIX=.892
Critical Pressure: 667 P.S.I.A. 663 P.S.I.A.
Critical Temperature: 408 R 447 R

P_c 1763.2 P_c^2 3108.9

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.				
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.244$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.244$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .746$

Absolute Open Flow: 746 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: WELL MADE 25 BBLS CONDENSATE @52.9 API GRAVITY

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTERS	MB	BM