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

CONFIDENTIAL

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Meridian Oil Company						Lease or Unit Name: C.C. Cagle			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 09-30-91		Well No.: 4	
Completion Date: 09-15-91		Total Depth: 3100		Plug Back TD: 3057		Elevation: 2991.1'GR		Unit Ltr. - Sec. - TWP - Rge.: 3 - 26S - 37E	
Csg. Size: 4½	Wt.: 11.6	d:	Set At: 3100	Perforations: From: 2752	To: 2957			County: Lea	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 2718	Perforations: From:	To:			Pool: Jalmat Tansill ~~Rhodes~~ Yates Seven	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: None				Formation: Yates	
Producing Thru: Tubing	Reservoir Temp. °F: 102	Mean Annual Temp. °F: 60		Baro. Press - P_a				Connection: vented	
L: 2718	H: 2718	Gg: .679	% CO_2: 1.32	% N_2: 1.55	% H_2S:	Prover:		Meter Run: 2.067	Taps: flange

	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					205		-		24 hrs.
1.	2 X .500	25	13.00	60	195		-		45 mins.
2.	2 X 1.000	25	4.00	60	180		-		45 mins.
3.	2 X 1.000	25	15.00	60	173		-		45 mins.
4.	2 X 1.000	25	60.00	60	160		-		45 mins.
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, F pv.	Rate of Flow Q, Mcfd
1.	1.189	22.28	38.2	1.000	1.214	1.004	32
2.	4.946	12.36	38.2	1.000	1.214	1.004	75
3.	4.946	23.94	38.2	1.000	1.214	1.004	144
4.	4.946	47.88	38.2	1.000	1.214	1.004	289
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.05	520	1.37	.992
2.	.05	520	1.37	.992
3.	.05	520	1.37	.992
4.	.05	520	1.37	.992
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .679 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *672 P.S.I.A. P.S.I.A.
Critical Temperature: *378 R R

P_c 218.2 P_c^2 47.6

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		208.2	43.4	4.3
2.		193.4	37.4	10.2
3.		186.8	34.9	12.7
4.		175.9	30.9	16.7
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.850$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.850$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .824$

Absolute Open Flow: 824 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: *=corrected to 1.32% CO_2 & 1.55% N_2
NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	bM