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: MERIDIAN OIL INC.						Lease or Unit Name: SHELL STATE		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 9/10/93	Well No.: 1	
Completion Date: 9/3/93		Total Depth: 3585		Plug Back TD: 3540		Elevation:	Unit Ltr. - Sec. - TWP - Rge.: 13 20S 36E	
Csg. Size: 8 5/8"	Wt.: 28#	d:	Set At:	Perforations: From: 3363	To: 3515		County: LEA	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 3343	Perforations: From:	To:		Pool: EUMONT FIELD	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At:			Formation: PENROSE	
Producing Thru: TBG	Reservoir Temp. °F	Mean Annual Temp. °F: 60°		Baro, Press - P_a: 13.2			Connection: NONE	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.740	7.32	2.11	.88	2"		

	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						172		172		24 HRS
1.	2	X 1/8	164		80°	164		164		1 HR
2.	2	X 1/4	150		80°	150		150		1 HR
3.	2	X 1/2	67		78°	67		130		1 HR
4.	2	X 3/4	38		76°	38		125		1 HR
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.	.2648		177.2	.9813	1.162	1.109	55
2.	1.087		163.2	.9813	1.162	1.017	206
3.	4.279		80.2	.9831	1.162	1.003	393
4.	9.453		51.2	.9850	1.162	1.001	555
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.25	540	1.39	.964
2.	.23	540	1.39	.967
3.	.11	538	1.39	.995
4.	.07	536	1.39	.998
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .740 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *694 P.S.I.A. P.S.I.A.
Critical Temperature: *387 R R

P_c 185.2 P_c^2 34.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		177.2	31.4	3.1
2.		163.2	26.6	7.7
3.		143.2	20.5	13.8
4.		138.2	19.1	15.2
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.257$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.257$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.253$

Absolute Open Flow: 1,253 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: NO FLUID PRODUCED DURING TEST
TEST CAL. FROM CSG. PRESSURES

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JOHN WEST ENG. CO.	BM	BM