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: FARNSWORTH FEDERAL B		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 6/17/93	Well No.: 1	
Completion Date: 6/13/93	Total Depth: 3070			Plug Back TD: 3060		Elevation: 2869.7GR	Unit Ltr. - Sec. - TWP - Rge.: A 7 26 37	
Csg. Size: 4½"	Wt.	d	Set At: 3070	Perforations: From:	To:		County: LEA	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 2880	Perforations: From: 2885	To: 3039		Pool: RHODES YATES &RVRS GAS	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: NONE			Formation: YATES	
Producing Thru: TBG	Reservoir Temp. °F: 102.8@2880'	Mean Annual Temp. °F: 60°		Baro. Press - P_a: 13.2			Connection: VENTED	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2880	2880	.732	.94	24.55		2"		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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	
SI							220		215		24 Hrs.
1.	2	X	.1875	211		84	211		201		1 Hr
2.	2	X	.250	204		84	205		196		1 Hr
3.	2	X	.500	137		84	137		150		1 Hr
4.	2	X	.750	64		80	70		149		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.	.6082		224.2	.9777	1.169	1.014	158
2.	1.087		217.2	.9777	1.169	1.014	274
3.	4.279		150.2	.9777	1.169	1.009	741
4.	9.453		77.2	.9813	1.169	1.004	841
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.35	544	1.62	.972
2.	.34	544	1.62	.973
3.	.23	544	1.62	.982
4.	.12	540	1.61	.990
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .732 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *627 P.S.I.A. P.S.I.A.
Critical Temperature: *335 R R

P_c 233.2 P_c^2 54.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		224.2	50.6	3.8
2.		220.4	48.6	5.8
3.		172.0	29.6	24.8
4.		126.6	16.0	38.3
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.193

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.910

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.415

Absolute Open Flow: 1.415 Mcfd @ 15.025 | Angle of Slope Θ: 50.5 | Slope, n: .824

Remarks: * CORRECTED TO 24.55% N2
NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
DISTRICT 1 SUPERVISOR	JOHN WEST ENG.	GW	BM

RECEIVED

JUL 0 6 1993

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OFFICE