OIL CONSERVATION DIVISION

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: 11/4/91	
Company: Meridian Oil Inc.	Connection: EPNG		
Pool: Angel Peak	Formation: Gallup		Unit
Completion Date: 10/26/91	Total Depth: 8065 MD 5557 TVD	Plug Back TD	Elevation: 6090 GL 6103 KB	Farm or Lease Name: Huerfano Unit
Csg. Size: 4.625/5.5 / Wt.: 40.0 47.0 15.5 / d: 8.835 8.681 4.950 / Set At: 4817 4917-5623 5181-8052		Perforations: From 5496 To 7965		Well No.: 300
Tbg. Size: 2.875	Wt.: 6.5	d: 2.441	Set At: 7740	Perforations: From To	Unit: I	Sec.: 31	Twp.: 27	Rge.: 10
Type Well – Single – Bradenhead – G.G. or G.G. Multiple: Single		Packer Set At		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		0.697	1.043	1.107	0			

	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	2"	.750				324		325		
1.						150	68	314		1 hour
2.						152	68	312		2 hours
3.						152	70	312		3 hours
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	9.604		162.2	0.9905	1.198	1.018	1881.75
2			164.2				1904.95
3			164.2				1904.95
4							
5							

NO.	P_r	Temp. °R	T_r	Z
1	0.2447	530	1.366	0.965
2				
3				
4				
5				

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

P_c 337.2 P_c^2 113703.84

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		326.2	106406.44	
2		324.2	105105.64	
3		324.2	105105.64	8598.2
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 13.2241$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.9347$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 13210.22$

Absolute Open Flow 13210. Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	M FERRARI	K. MAXWELL	