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: 10-15-91		1991
Company: Meridian Oil Inc.		Connection: El Paso Natural Gas			ist. 3
Pool: ~~Niobrara~~ Gallup (Gallegos)		Formation: Gallup		Unit: Huerfano #216	
Completion Date: 10-1-91	Total Depth: 6504	Plug Back TD: 6282	Elevation: 6579'	Farm or Lease Name: Huerfano Unit NP	
Csg. Size: 4.500 / Wt.: 10.5# / d: K-55 / Set At:		Perforations: From 5588' To 5447'		Well No.: 216	
Tbg. Size: 2.375 / Wt.: 4.7# / d: J-55 / Set At: 5620.98		Perforations: From To		Unit: D / Sec.: 30 / Twp.: 26 / Rge.: 10	
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single		Packer Set At:		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	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	2.000	.750				370		530		Initial
1.						180	60°	415		15 Min
2.						130	60	380		30 Min
3.						88	60°	365		1 Hour
4.						38	60°	302		2 Hours
5.						6	62°	287		3 Hours

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	12.365		18.2	1.000	.9258	1.000	208.3448
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
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 542.2 P_c^2 293,980.84

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		299.2	89,520.64	
2			204,460.20	
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4378$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3131$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 273.5680$

Absolute Open Flow 274 Mcfd @ 15.025 | Angle of Slope ∠ _____ | Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Stanley Terwilliger		Kelly Maxwell