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: 10-22-87	
Company: MERIDIAN OIL, INC.		Connection: EL PASO NATURAL GAS COMPANY			
Pool: BASIN		Formation: DAKOTA			Unit:
Completion Date: 10-09-87	Total Depth: 8057'	Plug Back TD: 8046'	Elevation: 6728' GL		Farm or Lease Name: SAN JUAN UNIT 29-7
Csg. Size: 4.5000 / Wt.: 10.5# / d: 4.0520 / Set At: 8057'		Perforations: From 7807' To 8030'			Well No.: 138
Tbg. Size: 1.9900 / Wt.: 2.9# / d: 1.6100 / Set At: 8014.76		Perforations: From To			Unit: F / Sec.: 25 / Twp.: 29 / Rge.: 07
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE			County: RIO ARRIBA
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					1262		2230		
1.	2" X 3/4"				314		1612	46°	1 HR.
2.					238		1358	50°	2 HRS.
3.					211		1168	54°	3 HRS.
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	12.365		223.2	1.0000	.9258	1.0000	2555
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

OCT 27 1987
OIL CON. DIV.
DIST. 3

P_c 2242.2 P_c^2 5027460.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1180.2	1392872.	3634588.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3832$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2755$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3259$

Absolute Open Flow 3259 Mcfd @ 15.025 | Angle of Slope ϕ _____ | Slope, n .75

Remarks: wet mist throughout test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	GARY OSBORNE	SCOTT LINDSAY	