STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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: 10/30/80	
Company: J. Gregory Merrion	Connection: New Well		
Pool: Ballard Pic. Cliffs	Formation: Pictured Cliffs		Unit:
Completion Date: 10/06/80	Total Depth: 2350'	Plug Back TD: 2315'	Elevation: 6373' GL
Farm or Lease Name: Federal Com			

Csg. Size	Wt.	d	Set At	Perforations	Well No.
2.875"	6.5#/ft.	2.441	2330	From 2182 To 2222	4

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
none				From To	I	34	25N	6W

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Tubingless completion	none	Rio Arriba

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Casing			12.0	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650				2"		

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							652		SIP
1.	2" x 1-1/4".	55		60°			55		3 hr.
2.									
3.									
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	27.63		67	1.000	1.240	1.003	
2.							
3.							
4.							
5.							

NO.	P_t	Temp.	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 XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 664 P_c^2 440896

NO.	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1	4489	143	20449	420447
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0486$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2}\right]^n = 1.0412$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2}\right]^n = 2496$

Absolute Open Flow 2322 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: Gas produced with very, very light mist

Approved By Division	Conducted By:	Calculated By:	Checked By:
	John Anderson	John Anderson	Steve Dunn

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NOV 3 1980
OIL CON. COM.
DIST. 3