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: 10-15-90	
Company: Chevron U.S.A.		Connection:			
Pool: Eumont Yates 7-R. Queen		Formation: Eumont		Unit:	
Completion Date:	Total Depth:	Plug Back TD:	Elevation:	Farm or Lease Name: Bell Janda GAS Comm.	
Csg. Size:	Wt.:	d:	Set At:	Perforations: From 3464 To 3662	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 3401	Perforations: From OPEN To END	Unit: L Sec.: 15 Twp.: 21S Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 3401		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 94 @ 3401	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3401	3401	.739	7.49	1.19	---		2.067	Flange

	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						295		PKR		72 hrs.
1.	2	X 1.250	50	12.00	68	290		PKR		45 min.
2.	2	X 1.250	50	38.00	68	277		PKR		45 min.
3.	2	X 1.250	80	83.00	65	250		PKR		45 min.
4.	2	X 1.250	81	46.00	63	227		PKR		45 min.
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	8.120	27.54	63.2	.9924	1.163	1.007	260
2.	8.120	49.01	63.2	.9924	1.163	1.007	463
3.	8.120	87.95	93.2	.9952	1.163	1.008	833
4.	12.76	65.83	94.2	.9971	1.163	1.008	982
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	.09	528	1.36	.986
2.	.09	528	1.36	.986
3.	.13	525	1.35	.984
4.	.13	523	1.35	.984
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .739 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *699 P.S.I.A. ____ P.S.I.A.
Critical Temperature: *388 R ____ R

P_c 308.2 P_c^2 95.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		304.8	92.9	2.1
2		295.5	87.3	7.7
3		281.8	79.4	15.6
4		268.1	71.9	23.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.113$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.576$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.530$

Absolute Open Flow: 2,530 Mcfd @ 15.025 Angle of Slope θ: 56.2 Slope, n: .669

Remarks: *=corrected to 7.49% CO_2 & 1.19% N_2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	BM

Chevron U.S.A.
L J Janda GAS Comm.#1

Lea County, New Mexico
10-15-90