NE MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1/12/79	
Company: Chevron U.S.A. Inc.		Connection: Unconnected			
Pool: Eumont		Formation: Yates-Seven Rivers-Queen		Unit	
Completion Date	Total Depth: 3970	Plug Back TD: 3770	Elevation: DF 3666	Farm or Lease Name: O. Meredith	
Csg. Size: 5 3/4" / Wt.: 17 / d / Set At: 3877		Perforations: From 3254 To 3722		Well No.: 2	
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: 1.995 / Set At: 3151		Perforations: From Open To Open		Unit: P / Sec.: 19 / Twp.: 21S / Rge.: 36E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 3151		County: Lea	
Producing Thru: 2-3/8"	Reservoir Temp. °F: 91 @ 3497	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
3497	3497	.669	3.24	3.56	.06	0	4.0	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							460	78			16.0
1.	4.03	x	1.0	60	3.5	80	405	78	0	0	1.0
2.	4.03	x	1.0	60	18.0	81	395	79	0	0	1.0
3.	4.03	x	1.0	60	35.0	82	375	79	0	0	1.0
4.	4.03	x	1.0	60	63.0	82	330	80	0	0	1.0
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	4.75	16.01	73.2	.9813	1.2224	1.0059	92
2.	4.75	36.30	73.2	.9804	1.2224	1.0059	208
3.	4.75	50.62	73.2	.9795	1.2224	1.0058	290
4.	4.75	67.91	73.2	.9795	1.2224	1.0058	389
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.11	540	1.48	.988
2.	.11	541	1.48	.988
3.	.11	542	1.48	.988
4.	.11	542	1.48	.988
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.

Specific Gravity Separator Gas	.669	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	.669
Critical Pressure	678 P.S.I.A.	678 P.S.I.A.
Critical Temperature	365 R	365 R

P_c 472.1 P_c^2 223

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	175	417	174	49
2	167	408	166	57
3	151	388	151	72
4	118	345	119	104
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1413$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1413$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 832$

Absolute Open Flow 832 Mcfd @ 15.025 | Angle of Slope θ 45.0 | Slope, n 1.0

Remarks: All calculations made by Garrett Computer of Dallas, Texas as agreed to by previous conversation with New Mexico Conservation Commission, Santa Fe Office.

Approved By Commission:	Conducted By:	Calculated By:	Checked By: