STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

IL CONSERVATION DIVISIO
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

AUG 15 '89

Form C-122
Revised 10-1-78

c/51 File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-8-89	
Company: CHEVRON USA		Connection: AIR			
Pool: HAPPEY VALLEY		Formation: MORROW		Unit: L	
Completion Date: 7-25-89	Total Depth: 11810	Plug Back TD: 11805	Elevation: 3346	Farm or Lease Name: LEE "K" FEDERAL	
Csg. Size: 5.500 / Wt.: 17.0 / d: 4.892 / Set At: 11810		Perforations: From 11487 To 11627		Well No.: 1	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 11461		Perforations: From To		Unit: J / Sec.: 21 / Twp.: 22S / Rge.: 26E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE-GAS		Packer Set At: 11422		County: EDDY	
Producing Thru: TUBING	Reservoir Temp. °F: 186 @ 11557	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
11557	11557	0.587	0.99	0.51	0	0	4.026	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					3750	70			90.0
1.	4.026 X 1.250	500	8	95	3479	60	PKR		1.0
2.	4.026 X 1.250	503	16	100	3341	60			1.0
3.	4.026 X 1.250	505	43	100	3141	60			1.0
4.	4.026 X 1.250	505	71	79	2880	60			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	7.47	64.07	513.2	.9680	1.3052	1.0327	624
2.	7.47	90.88	516.2	.9636	1.3052	1.0318	881
3	7.47	149.27	518.2	.9636	1.3052	1.0319	1447
4.	7.47	191.81	518.2	.9822	1.3052	1.0371	1905
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.76	555	1.58	.938
2.	.76	560	1.59	.939
3.	.77	560	1.59	.939
4.	.77	539	1.53	.930
5				

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

Specific Gravity Separator Gas	0.587	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	0.587
Critical Pressure	677 P.S.I.A.	677 P.S.I.A.
Critical Temperature	351 R	351 R

P_c 3752.4 P_c^2 14080

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	12195	3497	12226	1854
2	11251	3360	11292	2788
3	9949	3167	10029	4051
4	8371	2914	8494	5586
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.5204$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5204$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4801$

Absolute Open Flow 4801 Mcfd @ 15.025 | Angle of Slope θ 45.0 | Slope, n 1.000

Remarks: CHOKES 1ST RATE 3/64 2ND RATE 4.5/64 3RD RATE 6/64 4TH RATE 7.5/64

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Bennett & Cathey	Matt Lee	