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			Test Date	
[X] Initial	[ ] Annual	[ ] Special	9-23-85	

Company	Connection	
Santa Fe Energy	To Air	

Pool	Formation	Unit
South Carlsbad	Morrow	K

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
9-20-85	12,018'	~~12,018'~~ 11,765	0 3120 KB	Skeen

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
5.000	18.0	4.276	12,018'	From 11,618' To 11,694'	1

Tbg. Size	Wt.	d	Set At	Perforations:	Unit	Sec.	Twp.	Rge.
2.375	4.70	1.995	11,538'	From 0 To 0	K	28	22S	27E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	11,538'	Eddy

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	240 @ 11,656'	60	13.20	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11656	11656	0.579	0	0.25	0	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							4574	240	72.0
1.	4.03 x 0.750	610	5.0	101	0	0	4193	240	1.0
2.	4.03 x 0.750	600	10.0	98	0	0	3960	240	1.0
3.	4.03 x 0.750	600	19.0	94	0	0	3712	240	1.0
4.	4.03 x 0.750	600	28.0	96	0	0	3325	240	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	2.66	55.82	623.2	0.9628	1.3142	1.0377	195
2.	2.66	78.31	613.2	0.9653	1.3142	1.0380	274
3.	2.66	107.94	613.2	0.9688	1.3142	1.0393	380
4.	2.66	131.03	613.2	0.9671	1.3142	1.0386	460
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	0.93	561	1.60	0.929
2.	0.91	558	1.59	0.928
3.	0.91	554	1.58	0.926
4.	0.91	556	1.58	0.927
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 0.579 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.579
Critical Pressure 673 P.S.I.A. 673 P.S.I.A.
Critical Temperature 351 R 351 R

P_c _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3337	11136	2257
2		3142	9874	3519
3		2937	8628	6518
4		2622	6875	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0547$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.7958$

Post ID 2
12 (78)
Compl BK

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 826$

Absolute Open Flow 826 Mcfd @ 15.025 Angle of Slope θ 50.9 Slope, n 0.813

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
			P.Q. Laume