dist. File

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

RECEIVED
JUL 15 1991
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 07-12-13-91	
Company: Presidio		Connection			
Pool: E. Burton Flat Strawn		Formation: Strawn		Unit	
Completion Date: 04-15-91	Total Depth: 11892	Plug Back TD: 10859	Elevation	Farm or Lease Name: Superior Federal	
Csg. Size: 5½ / Wt.: 17 / d / Set At: 11892		Perforations: From 10624 To 10824		Well No.: 9	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 10859		Perforations: From To		Unit: G / Sec.: 1 / Twp.: 20 / Rge.: 29	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10859		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 181 @ 10724	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
* 10724	* 10724	.768	.31	1.42			2.069	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						1300		1980		24 hrs.
1.	2	X 1.500	72	67.24	74	220		700		24 hrs.
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	12.76	75.71	85.2	.9868	1.141	1.005	1,093
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.12	534	1.30	.991
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 4.52 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 47.9 @ 60° Deg.
Specific Gravity Separator Gas .768 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure **666 P.S.I.A. P.S.I.A.
Critical Temperature **408 R R

P_c 2050.2 P_c^2 4204.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		686.8	471.7	3732.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.126$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.126$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.231$

Absolute Open Flow 1,231 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.000

Remarks: *=BHP instrument set @ this depth
**=corrected to 1.42% N_2

Well made 242.0 BBLS of 47.9 API GRAVITY CONDENSATE during test

Approved By Division	Conducted By:	Calculated By:	Checked By:
		BM	BM