Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Dep[illegible]ent

30-015-30486

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Stevens and Tull				Lease or Unit Name: Little Box SE	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 114199	Well No.: 4
Completion Date: 12/25/98	Total Depth: 7658		Plug Back TD: 7658	Elevation:	Unit Ltr. - Sec. - TWP - Rge.: 36 20-S 21-E
Csg. Size: 7"	Wt.: 23# & 26#	d: 6.366 / 6.276	Set At: 7658	Perforations: From: 5924 To: 6002	County: Eddy
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 5800	Perforations: From: To:	Pool: Indian Leafer Draw U/Penn
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 5800		Formation: Canyon
Producing Thru: Tbg	Reservoir Temp. °F: 115.8	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2		Connection: Air

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5924	5924	.652	.907	1.471	0	0	4.026	F/G

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	TUBING DATA: Temp. °F	CASING DATA: Press. p.s.i.g.	CASING DATA: Temp. °F	Duration of Flow
SI					1380		PKR		
1.	4.026 X 2.000	260	4"	70°	1368				60 min
2.	4.026 X 2.000	260	24"	70°	1296				60 min
3.	4.026 X 2.000	260	54"	68°	1178				60 min
4.	4.026 X 2.000	300	84"	68°	1018				60 min
5.									

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	19.81	33.05	273.2	.9905	1.238	1.051	843
2.	19.81	80.97	273.2	.9905	1.238	1.051	2067
3.	19.81	121.4	273.2	.9924	1.238	1.051	3105
4.	19.81	162.1	313.2	.9924	1.238	1.051	4146
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.78	530	1.42	.906
2.	.78	530	1.42	.906
3.	.78	528	1.42	.906
4.	.78	528	1.42	.906
5.				

P_c 13990 P_c^2 1957.2

Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons N/A Deg.
Specific Gravity Separator Gas .652 XXXXXXXXX
Specific Gravity Flowing Fluid N/A XXXXX
Critical Pressure 673 P.S.I.A. P.S.I.A.
Critical Temperature 371 R R

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1382.9	1912.4	44.8
2.		1348.1	1817.4	139.8
3.		1300.2	1690.5	266.7
4.		1244.7	1549.3	409.9
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.77$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.02$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12.520$

Absolute Open Flow 12.520 Mcfd @ 15.025 | Angle of Slope θ 54.40 | Slope, n .715

Remarks: *No liquid made during test
*Calculated from known bottom hole pressures

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testing	M.B.	B.M.

STEVENS & TULL

LITTLE BOX #4