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

State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-122
Revised 4-1-91

cls File

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: CHI OPERATING		Lease or Unit Name: WINCHESTER FEDERAL	
Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 7-7-92	Well No.: 1
Completion Date: 7-3-92	Total Depth: 12000	Plug Back TD: 6550	Elevation:	Unit Ltr. - Sec. - TWP - Rge.:
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 12000	Perforations: From: 6146 To: 6300		County: Eddy
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 6100	Perforations: From: To:		Pool:
Type Well - Single - Bradenhead - G.G. or G.O. Multiple	Packer Set At: 6100		Formation: Bone Springs
Producing Thru: TBG	Reservoir Temp. °F: 135 @6100	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2	Connection:

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
**6100	**6100	.698	1.34	1.99			3.068	FLG

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.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1950		PKR		48 hr.
1.	3 X 2.250	180	8.50	68	1845		"		1 hr.
2.	3 X 2.250	330	17.00	64	1720		"		1 hr.
3.	3 X 2.250	448	22.00	74	1560		"		1 hr.
4.	3 X 2.250	640	24.00	75	1260		"		1 hr.
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, F pv.	Rate of Flow Q, Mcfd.
1.	28.78	40.52	193.2	.9924	1.197	1.021	1,407
2.	28.78	76.38	343.2	.9962	1.197	1.040	2,726
3.	28.78	100.73	461.2	.9868	1.197	1.047	3,585
4.	28.78	125.21	653.2	.9859	1.197	1.078	4,584
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.25	528	1.37	.959
2.	.51	524	1.36	/925
3.	.68	534	1.39	.913
4.	.97	535	1.37	.830
5.				

Gas Liquid Hydrocarbon Ratio 64.1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 60.2 @60° Deg.
Specific Gravity Separator Gas .698 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure **672 P.S.I.A. P.S.I.A.
Critical Temperature **384 R R

P_c ***1966.8 P_c^2 3868.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	***	1916.7	3673.7	194.6
2.	***	1830.0	3348.9	519.4
3.	***	1772.5	3141.8	726.5
4.	***	1684.6	2837.9	1030.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.754$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.644$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12,120$

Absolute Open Flow 12,120 Mcfd @ 15.025 | Angle of Slope θ 53.7 | Slope, n .735

Remarks: *Corrected to 1.99% Co^2. Well made 8.00 BBLS Condensate during test
**=BHP Instrument set @ this depth.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	BM

*** = Calculated form Known BHP'S