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

State of New Mexico
Energy, Minerals and Natural Resources Departme

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Concho Res.						Lease or Unit Name: Shoebar 15 st com		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 1-19-99	Well No.: 1	
Completion Date: 12-18-98	Total Depth: 12630		Plug Back TD: 12596			Elevation	Unit Ltr. - Sec. - TWP - Rge.: G 15 17-S 35-E	
Csg. Size: 5½	Wt.: 17#	d: 4.767	Set At: 12630	Perforations: From: 12532	To: 12556		County: Lea	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.347	Set At: 12596	Perforations: From:	To:		Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 12455				Formation: South Shoebaratoka	
Producing Thru: TBG	Reservoir Temp. °F: 200°	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2				Connection: Sales	
L: 12596	H: 12596	Gg: .736	% CO_2: .642	% N_2: .657	% H_2S: 0	Prover: N/A	Meter Run: 4.029	Taps: F/G

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					1628		PKR		
1.	4.029 X 1.875	35	T	52	922	46°			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 F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.							
2.							
3.			Measured w/ total flow meter				
4.							156
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.76	512	1.35	.889
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 9.873 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51.8 Deg.
Specific Gravity Separator Gas .736 XXXXXXXXX
Specific Gravity Flowing Fluid 50.8@50° XXXXX
Critical Pressure 673 P.S.I.A. P.S.I.A.
Critical Temperature 397 R R

P_c 1641.2 P_c^2 2693.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	874.6	935.4	875.0	1818.5
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.481$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.481$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .231$

Absolute Open Flow .231 Mcfd @ 15.025 | Angle of Slope θ 45° | Slope, n 1.000

Remarks: *Well made 15.8 BBLS of 51.8 API gravity condensate

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

JC