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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

RECEIVED
OCD - ROSWELL

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: CONCHO RESOURCES, INC.				Lease or Unit Name: MILLMAN '33' FED	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7/20/99	Well No.: 1
Completion Date	Total Depth: 11,600		Plug Back TD: 11,599	Elevation: 3,313	Unit Ltr. - Sec. - TWP - Rge.: 33-19S-29E
Csg. Size: 5½	Wt.: 17#	d: 4,892	Set At: 11,599	Perforations: From: 11,314 To: 11,345	County: EDDY
Tbg. Size: 2-3/8	Wt.: 4.7#	d: 1.995	Set At: 11,270'	Perforations: From: To:	Pool: W Parkway Morrow
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single			Packer Set At: 11,270'		Formation: Morrow
Producing Thru: tbg	Reservoir Temp. °F: 186.7	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2		Connection: SALES
L: 11,270	H: 11,270	Gg: .621	% CO_2: .634	% N_2: .474	% H_2S: -0-
Prover: -0-	Meter Run: 4.033	Taps: 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					3380		pkr		
1.	4.033 X 1,500	392	38.2	74°	2667				24 hr
2.	4.033 X 1.500	388	21.6	84°	2820				1 hr
3.	4.033 X 1.500	385	10.1	84°	2990				1 hr
4.	4.033 X 1.500	381	5.4	85°	3110				1 hr.
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.							1779
2.							1312
3.		GAS VOLUMES MEASURED BY TOTAL FLOW METER					917
4.							617
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.	TOTAL FLOW			
4.				
5.				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: .621 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 674 P.S.I.A. P.S.I.A.
Critical Temperature: 361 R R

P_c 3393.2 P_c^2 11,513.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	7183.2	2699.7	7288.6	4225.2
2.	8027.0	2843.4	8084.8	3429.0
3.	9019.2	3008.0	9047.8	2466.0
4.	9754.4	3125.3	9767.5	1746.3
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.593$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.593$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.848$

Absolute Open Flow: 4.848 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks: * NO LIQUID MADE DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING & W/L	M.B.	B.M.