

LEASE : North Lea Federal
 WELL : 1Y
 S/T/R : 10 20S 34E
 COUNTY: LEA
 STATE : New Mexico

: special
 TEST DATE: 5/16/86

NEW MEXICO OIL CONSERVATION COMMISSION
 MULTIPPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

COMPANY: Read & Stevens
 FIELD: North Lea Penn POOL:
 COMPLETED ID = 13600.
 CSG SIZE = 7.0000 WT = 27.00
 TBS SIZE = 2.3750 WT = 4.70
 TYPE COMPLETION: Single
 PRODUCING THROUGH: Tubing
 RESERVOIR TEMP., F = 248. @13077. FT.
 CONNECTION: To air
 RESERVOIR: Morrow
 PBD = 13600. ELEV = 0.
 SET AT 13600. PERF: 12798.-13156.
 SET AT 12910. PERF: 0.- 0.
 PACKER SET AT: 12981.
 BARO. PRESS = 13.20 PSIA
 MEAN GROUND TEMP., F = 60.

L	H	G	% CO2	% N2	% H2S	PROVER	K-RUN	TAPS
13077.	13077.	0.689	0.75	0.78	0.	0.	4.0	FLANGE

NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	PI IN.	FLOW TEMP	TBS. PSIG	TBS. TEMP	BHP PSIG	BH TEMP	FLOW HRS.
SI						4007		6129.	248.	48.0
1	4.03 X	2.000	215.	3.8	95.	3867	0.	5959.	248.	1.0
2	4.03 X	2.000	225.	9.0	82.	3710	0.	5789.	248.	1.0
3	4.03 X	2.000	230.	25.0	78.	3472	0.	5631.	248.	1.0
4	4.03 X	2.000	240.	56.0	76.	3059	0.	5123.	248.	1.0

NO.	COEFFICIENT (24 - HOUR)	SOFT. (BWPB)	PRESS. PM	1-FACTR F (T)	6-FACTR F (G)	50-FACTR F (P)	FLOW MCFD
1	19.81	29.45	228.2	0.9680	1.2047	1.0207	695.
2	19.81	46.30	230.2	0.9775	1.2047	1.0230	1107.
3	19.81	77.97	243.2	0.9831	1.2047	1.0239	1874.
4	19.81	119.08	253.2	0.9850	1.2047	1.0251	2870.

NO.	P (R)	TEMP., R	T (R)	Z		
1	0.34	555.	1.45	0.960	GAS LIQ RATIO, MCF/BBL	9.682
2	0.36	542.	1.42	0.956	API G OF HYDROCARBONS	52.6
3	0.36	538.	1.40	0.954	SP G SEPARATOR GAS	0.689
4	0.38	536.	1.40	0.952	SP G FLOWING FLUID	XXXXX
					CRITICAL PRES., PSIA	670.
					CRITICAL TEMP., R	383.
						463.

NO.	PW	PW*PW	PC*PC-PW*PW		
1	3968.	15746.	1223.	PC =	4119.4
2	3818.	14576.	2394.	PC*PC =	16969.
3	3591.	12897.	4072.	PC*PC/(PC*PC-PW*PW) =	2.6174
4	3239.	10491.	6478.	(PC*PC/(PC*PC-PW*PW))**N =	2.2774
				ADP (MCF/DAY) =	6536.