

LEASE NO: LC 031695B
LEASE NAME & WELL NO: WARREN UNIT #113
API NO: 30-025-32490
COUNTY & STATE: LEA, NM

LINE 31: PERFORATION RECORD (INTERVAL, SIZE & NUMBER)

PERF LOWER DRINKARD W/1 JSPF AT: 6830-40, 53-60, 66-72.

PERF UPPER DRINKARD W/1 JSPT AT: 6644-54, 58-65, 68-76, 79-82, 85-95, 6701-04, 10-21, 53-68, 73-89.

PERF TUBB W/1 JSPF AT: 6289, 93, 99, 6302, 09, 12, 17, 33, 36, 41, 48, 69, 72, 78, 87, 95, 6402, 07, 14, 20, 26, 34, 38, 44, 53, 60, 66, 70, 76, 81, 85, 94, 96, 6506, 09, 14, 18, 27, 34, 44, 50, 57, 65, 70. TOTAL 167 HOLES.

PERF BLINEBRY 3-5 W/1 JSPF AT: 5953, 56, 60, 64, 68, 95, 99, 6001, 05, 11, 15, 19, 22, 38, 59, 62, 67, 71, 75, 82, 96, 98, 6100, 02, 04, 10, 14, 17, 22, 38, 59, 62, 67, 71, 82, 96, 98, 6104, 07.

PERF BLINEBRY 1-2 W/1 JSPF AT: 5745, 51, 57, 64, 70, 74, 80, 86, 94, 5800, 04, 10, 13, 20, 22, 24, 29, 44, 48, 51, 74, 79, 81, 84, 87, 90, 94, 98.

LINE 32: ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED
6830 - 6872	ACID W/120 GAL 15% NEFE HCL.
6644 - 6779	ACID W/10,500 GAL 15% NEFE & 20,000 X-LINKED 15% NEFE HCL.
6289 - 6570	ACID W/4000 GAL 15% NEFE HCL & 70 BRADY SAND. FRAC W/15,000 GAL SPECTRA G-3500 DUMMY FRAC TAGGED W/RAM. TUBB W/126,840 GAL SPECTRA G-4000 & 264,770# 16/30 OTTAWA SAND & RCS TAGGED W/RAM.
5953 - 6207	ACID W/3100 GAL 15% NEFE HCL. FRAC W/15,000 GAL SPECTRA G-3500 TAGGED W/RAM @ 50BPM. ISIP-2500. W/94,000 GAL SPECTRA G-4000 & 155,000# 16/30 OTTAWA SAND & TAGGED W/RAM @ 60-65 BPM.
5745 - 5898	ACID W/2200 GAL 15% NEFE HCL & 76,000 GAL. FRAC W/SPECTRA G-3500 W/5000# 100 MASK SAND, 76,000# 16/30 OTTAWA SAND & 63,000# RCS @ 35-45 BPM.