Well name:

West Red Lake Area

Operator:

Devon Energy Corporation

String type:

Surface

Location:

Eddy County, NM

Design parameters:

Collapse

Mud weight: 9.630 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

1.125

Environment: H2S considered?

No Surface temperature: 75 °F Bottom hole temperature: 77 °F

0.20 °F/100ft Temperature gradient: Minimum section length: 1,150 ft

Burst:

Design factor

1.00

1.80 (J)

1.80 (J)

1.60 (J)

Burst

Max anticipated surface

pressure:

717 psi

Internal gradient: Calculated BHP

0.000 psi/ft 717 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

Buttress:

Premium:

1.50 (J) Body yield: 1.50 (B)

Tension is based on buoved weight.

Neutral point: 984 ft Re subsequent strings:

Non-directional string.

Next setting depth: Next mud weight:

9.630 ppg 2.001 psi Next setting BHP: Fracture mud wt: 12.000 ppg Fracture depth: 1,150 ft Injection pressure 717 psi

4,000 ft

Run Nominal End Segment True Vert Measured Drift Internal Length Size Weight Grade **Finish** Seq Depth Depth Diameter Capacity (ft) (in) (lbs/ft) (ft) (ft) (in) (ft³) 1150 8.625 24.00 J-55 ST&C 1 1150 1150 7.972 55.4 Run Collapse Collapse Collapse **Burst** Burst **Burst** Tension **Tension** Tension Load Strenath Design Load Sea Strength Design Load Strength Design (psi) (psi) (psi) **Factor** (psi) **Factor** (Kips) (Kips) **Factor** 1 575 1370 2.38 717 2950 4.12 24 244 10.33 J

Prepared

by:

Jim Linville **Devon Energy** Phone: (405) 228-4621 FAX: (405) 552-4621

Date: March 12,2001 Oklahoma City, Oklahoma

Collapse is based on a vertical depth of 1150 ft, a mud weight of 9.63 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

BUREAU OF LAND MGMT. ROSWELL OFFICE

8S:E MA ZI AAM 100S

BECEINED