0	perator:	ORYX EN	ERGY CO	(PANY	Well Name:	HAVEETY-	WEIR UN	IT <b>#</b> 1
<b>P</b>	roject I	D:			Location:	LEA COUNT	FY, NM	
Mu Shu Inta An Ter	nd weight (9 ut in surface p ernal gradient nular gradient	ressure (burst) (burst) ctermined using	: 0.46 : 450 : 0.10 : 0.46	0 pai/ft 8 pai/ft	Design Collaps Burst 8 Roun Buttres Body Y	d s	: 1.000 : 1.30 : 1.60 (J) : 1.60 (J) : 1.60 (B)	
	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1								Cost

2950

6.56

10.35

263

25.41

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Prepared by : B.J. LEWIS, Midland, Texas

1370

Date 2 12-06-1994 •

Remarks

234

1

Design is for a Surface string.

Minimum segment length for the 500 foot well is 500 feet.

Additional details regarding deeper string(s):

Next string will set at 3,700 ft. with 10.50 ppg mud (pore pressure of 2,018

psi.) The frac gradient of 1.000 at the casing seat results in an injection

pressure of 500 psi. Effective BHP (for burst) is 500 psi, the

5.855

BHP load is 266 psi (using an annular mud of 9.00 ppg) and the differential gradient is -0.370 psi/ft.

> NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and

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

450

Costs for this design are based on a 1993 pricing model. (Version 1.00)