

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS			
							Ten	Col	TB	BB
13500-9830	3670	20	N-80	LT&C	73400	73400	5.8	1.1	1.5	1.5
9830-5040	4790	17	N-80	LT&C	81430	154830	2.2	1.0	1.5	1.5
5040-4150	890	17	K-55	LT&C	15130	169960	1.6	1.0	1.2	1.2
4150-1370	2780	17	N-80	LT&C	47260	217220	1.6	1.9	1.8	1.8
1370-0	1370	17	N-80	B	23290	240510	1.6	4.9	2.1	2.1

## Design Conditions -

BHP 6000 psi TP \_\_\_\_\_ psi Drilling Mud 11.0 #/galCompletion Fluid 10.2 #/gal

## Cement -

Desired Top 9000 ft Type Cement (slurry wt, yield  
 factor & est sx) 20 Bbl Halliburton Spacer. 550 sacks Class C Poz-A  
6% Gel +18% Kcl + .8% Halad-22. (13.2 PPG., 1.22 ft<sup>3</sup>/sk) followed  
by 450 sacks Class H + 18% Kcl + .8% Halad-22 (15.9 PPG., 1.22 ft<sup>3</sup>/sk)

Percent excess 35 % Caliper Survey Yes, X No \*Required ft <sup>3</sup> 1586 est Placement time 75 min.Minimum Thickening time 240 min. Reciprocate whilecementing: X Yes \_\_\_\_\_ No.

Head - API-5000 psi

Accessories - Bow spring centralizers every 100' from TD to above  
the top of the Strawn (11650 est)\* Caliper will be available from openhole logs for calculating  
cement volumes.