

North Central Oil Corp.

BLS.049

Page 5

WELL DATAProduction Casing:

Depth	12,250 ft.
Casing Size	5-1/2 in.
Hole Size	7-7/8 in.
Calculated Cement Fill	1,500 ft.
Excess Calculated	50%
Excess Over Caliper Recommended	25%
Mud Weight	9.5 lb./gal.
Bottom Hole Static Temp.	190°F

CEMENT RECOMMENDATION

Spacer:	500	gals. Super-Flush Spacer
Cement:	330	sacks Premium Cement + .5% Halad-322 + .3% CFR-3 + 3% KCL

Water ratio	-	5.2 gals. per sk.
Slurry weight	-	15.6 lbs. per gal.
Slurry Volume	-	1.18 cu. ft. per sk.