

WELL NAME:	VANDAGRIFF "23" FEDERAL #1	TYPE OF CSG STRING:	PRODUCTION
LEGALS:	SEC 23-16S-28E	DEPTH OF CSG:	2,300

CASING MINIMUM PERFORMANCE PROPERTIES

CSG TYPE	K-FACTOR	COLLAPSE	BURST	TENSION
1 4 1/2" 11.6# K-55 ST&C	434,000	4960	5350	170000
2				
3				
4				
5				

GRADE OF CASING: 85 % OF NEW

CSG TYPE	COLLAPSE	BURST	TENSION
1 4 1/2" 11.6# K-55 ST&C	4216	4548	144500
2 0	0	0	0
3 0	0	0	0
4 0	0	0	0
5 0	0	0	0

SETTING DEPTH (WT. OF CSG IN AIR)		CASING	INTERVAL	INTERVAL	CUMMULATIVE
FROM	TO	WT. (LB/FT)	LGTH (FT.)	WT. (LBS)	WT. (LBS)
1 0	2,300	11.6	2300	26,680	26,680
2 2,300			-2300	0	0
3 0			0	0	0
4 0			0	0	0
5 0			0	0	0

WELLBORE CONDITIONS

MUD WEIGHT: 9.5 PPG
BOUYANCY FACTOR 0.853 (AIR = 1)
DISPLACEMENT FLUID WT: 8.5 PPG

		ANNULAR	COLLAPSE	HOLE	
DEPTH		HYDROSTATIC	W/AXIAL	HYDROSTATIC	TENSION
		PRESSURE	LOADING	PRESSURE	
	0	0		0	22,758
1	2300	1136	4216	1017	0
2	0	0	ERR	0	0
3	0	0	ERR	0	0
4	0	0	ERR	0	0
5	0	0	ERR	0	0

FINIAL CASING DESIGN

SAFTEY FACTORS

				COLLAPSE	BURST	TENSION
				>1.125	>1.00	>2.00
FROM	TO	LENGTH				
0	0	0		ERR	ERR	ERR
0	0	0		ERR	ERR	ERR
0	0	0		ERR	ERR	ERR
0	2,300	-2300		ERR	ERR	ERR
4 1/2" 11.6# K-55 ST&C	2,300	2300		3.711	4.473	6.349

SCHEDULE #1