4. The Proposed Casing Program:

Conductor Surface Production	Casing Design CASING F
22" 12-1/4" 8-3/4" 6-1/4"	HOLE
0' - 40' 0' - 530' 0' - 1,850' 0' - 1,400' 1,400' - 6,300	INTERVAL
40' 530') 1,850' 1,400' 4,900'	SECTION LENGTH
18" 9-5/8" 7" 4-1/2" 4-1/2"	(0D) SIZE
Open 36# K-55 20# K-55 11.6# K-55 10.5# K-55	WEIGHT, GRADE
New New New	NEW OR USED
13.5 13.5 9.0 9.0	MUD
19,080# 37,000# 67,690# 51,450#	TENSION
22.2 6.9 2.8	SFt
5.4 1.7 6.1	SFC
3.0 2.0 1.3	<u>S</u> Fb ;

Cement Program:

2nd Stage: 180 s shells (Halliburt	Production 1st Stage: 105 sequivalent) follo	Intermediate 100 sx of Light of Class "B" w/2%	Surface 280 sx of Class '
2nd Stage: 180 sx Light cement (Halliburton Light or equivalent) with 2#/sack ground walnut shells (Halliburton Tuf-Plug or equivalent) and .8% fluid loss reducer (Halliburton Halad-9 or equivalent). Sufficient quantity of 2% KCL water will be pumped ahead of slurry to reach company to the following terms of the company to the company to the company terms of the c	lst Stage: 105 sx 50-50 Poz-mix w/6% gel, .8% fluid loss reducer (Halliburton Halad-9 or equivalent) followed by 100 sx neat Class "B". Use 20% excess.	100 sx of Light cement (Halliburton "Light" or equivalent) w/2% CaCl ₂ ; followed by 100 sx of Class "B" w/2% CaCl ₂ . Cement top 50' inside surface casing using 20% excess. Centralizers: 10 words. The house	280 sx of Class "B" w/2% CaCl $_2$. Cement top at surface using 100% excess. Centralizers: 3 WOC: 12 hours.
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