## **CASING STRING DESIGN**

DEPTH:	3600'
TYPE:	Production
SIZE:	4-1/2"
MUD WEIGHT:	10.0

Description		Interval	Length Per Section	Weight Per Section	Cumm. Weight		Min. Strength		Tens. S.F.	
10.5#,LT&C,K-55		0-3600'	3600'	37,800#	37,800#		146K		3.86	
Collaps Force	e Resist	S.F.	Burst Force	Resist.	S.F.	Minin Torqu		Optin Torqu		Maximum Torque
1872	4010	2.14	1740	4790	2.75	1100		1460		1825

## Procedure:

Make up and run 4 1/2" casing as per the following:

A. Clean exposed threads on the guide shoe, first joint of 4 1/2" casing, float collar, and second joint of casing. Apply Thread Lock to these connections prior to make-up.

B. The bottom assembly of the casing assembly must be made up as follows with the first listed being the first in the hole:

## Note: Seal Lube will be applied to all conections not receiving Thread Lock.

- 1. Guide shoe
- 2. First joint of 4 1/2" casing
- 3. Float collar
- 4. 4 1/2" casing back to setting depth of 2950' (140' below the salt).
- 5. Combination Tool (DV Tool with External Casing Packer)
- 6. 4-1/2" casing back to surface.
- C. Install centralizers as follows on the 4-1/2" casing:
  - 1. 10' above the guide shoe by means of a stop collar.
  - 2. Around the first coupling above the float collar.
  - 3. Every third coupling back to the combination tool.
  - 4. Around the coupling immediately below the combination tool.
  - 5. Around the coupling immediately above the combination tool.
  - 6. Every third coupling back to surface. Section 5 Page 2 of 2