HORIZON
MUD COMPANY

PROPOSED MUD PROGRAM

CASING DESIGN

8 5/8" Surface Casing at 1,600'

7 7/8" Open Hole to 8,000'

RECOMMENDED MUD PROPERTIES

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS
Spud	8.4- 8.6	32-34	No Control
500'	8.6- 8.8	32-34	No Control
1,000'	8.8- 9.2	32-34	No Control
1,300'	9.0- 9.4	32-34	No Control
1,600'	9.0- 9.4	32-34	No Control
Set 8 5/8" Surface Casing at 1,600'.		**Drill out with Brine Water.**	
2,000'	9.6-10.0	28-29	No Control
3,000'	10.0-10.1	28-29	No Control
4,000'	10.0-10.1	28-29	No Control
5,000'	10.0-10.1	28-29	No Control
6,000'	10.0-10.1	28-29	No Control
6,900'	**10.1-10.2**	**30-32**	**<10**
7,400'	10.1-10.2	30-32	<10
7,700'	10.1-10.2	30-32	<10
8,000'	10.1-10.3	32-34	<10

RECOMMENDED MUD PROGRAM BY CASING INTERVAL

Surface Hole 0-1,650'

Spud with a **Gel/Lime** slurry, mixing one **Lime** per ten **Gel** for a 32-34 viscosity. Once the shallow poorly-consolidated surface formations have been drilled, allow the native solids to maintain a viscosity of 32-34 sec./qt. It is important that a stable viscosity be maintained with constant additions of fresh water at the flowline.

Hole conditions will dictate the need for any additional viscosity at total depth to insure good conditions for casing operations.