Well: State 7-62 36-1H
Zone of Interest: Niobrara Shale

1.0) Summary of Operations

Re-enter well.

Set cast iron bridge plug below kick off point. Perform negative pressure test. Set 7" casing whipstock.

Mill a window above whipstock.

Drill 6" curve and lateral hole to TD per attached directional plan.

Set 4-1/2"casing to surface and cement as shown below.

Suspend well and move drilling rig out in preparation for well completion

2.0 CASING AND CEMENTING PROGRAM

The proposed casing program will be as follows:

Purpose	Interval		Hole Size	Casing Size	Weight	Grade	Thread	Condition
	From	To	(")	(")	Lbs/Ft			
Production	0	10086	6	4 1/2	11.6	P-110	LTC	New

Casing design subject to revision based on geologic conditions encountered.

Casing Safety Factors:

Interval	Casing	Burst	Collapse	Axial
Production	4 1/2	1.32	2.26	1.63

Centralizer Program

Casing	4 1/2	
# of Bow-type spring centralizer	63	

Cement Program

Production Casing Cement	Slurry Volume			Weight	Yield	Mix H2O	TOC
	% Excess	(BBLS)	(Sacks)	(PPG)	(cuft/sk)	(GPS)	
Tail Slurry	20%	93	356	14.60	1.46	6.10	5567

	Lead	Tail
Production Casing Cement	Poz Type I-II 50/50 1 % Bentonite (Light Weight Additive) 3 lbm/sk Silicalite Compacted (Additive Material) 3 % Microbond HT (Additive Material) 0.2 % Halad(R)-322 (Low Fluid Loss Control) 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.3 % HR-5 (Retarder)	50/50 Poz Premium 2 % Bentonite (Light Weight Additive) 5 lbm/sk Silicalite Compacted (Light Weight Additive) 0.5 % Versaset (Thixotropic Additive) 0.5 % Econolite (Cement Material) 0.6 % HR-7 (Retarder) 0.5 % D-AIR 3000 (Defoamer) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.25 lbm/sk Kwik Seal (Lost Circulation Additive)

3 MUD PROGRAM

Purpose	Interval		Hole Size	Mud Type	Mud Weight	Viscosity	Fluid Loss	pH
	From	To	(")	(")	Lbs/Ft			
Production	5767'	10086'	6	WBM	8.5 - 10.0	36 – 46	4 – 6	9

WBM = Water Based Mud