



# WELL CONTROL PLAN

Marshall R. Young Oil Company - #35-1 McNamara

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## Cementing Program, cont:

### Production Casing:

Precede cement with 500 gal mud flush. 250 sx Class "G" cement with 10% salt, 1/4#/sx flocele, and 0.75% CFR-2. Note: Achieve 1000' of fillup above potential pay zones. Recalculate slurry volume as per caliper log.

## Logging Program:

DIL -- Surface to T.D.; GR-FDC-CNL -- Over zones of interest;  
Continuous Dipmeter -- Over zones of interest.

Cores: None planned.

DST Program: Test all significant shows.

## Samples:

0 - 3500' -- 30' samples  
3500 - T.D. -- 10' samples (or as directed by wellsite geologist)

All cuttings to be washed and sacked in properly marked cloth bags. Tie sacked samples in approximately 100' groups to dry, store in a clean and dry place. Deposit samples with Amstrat upon completion of well.

Mud Logging Unit: None.

## Drilling Fluids:

Interval	Mud Wt. ppg	VIS Sec/Ot.	W.L. CC	Solids %	Ph	Type System
0 - 400'	8.4-8.8	28-35	N.C.	2-3	9.5-10	Lime Water - Native
400 - 4800'	8.4-8.6	26-30	N.C.	2-3	10	Lime Water - Native
4800 - 6200'	8.8-9.5	40-45	6-8	4	9-9.5	Fresh Water Gel - Low Solids

Utilize desander-desilter from 400' to T.D. Increase VIS to 50-65 for logging, testing, etc. Sufficient materials to maintain mud requirements and to meet minor loss circulation and blowout problems will be at the wellsite.

## Stabilization:

As required by hole conditions. Use drilling jars with stabilization.

## SLM of Drill Pipe:

400'; 4800'; T.D. SLM of drill pipe prior to DST's, logging, and running casing.

## Minimum BOP and Accessory Equipment:

- 1 - 10", 3000 psig Cameron Type "U" Double Gate Super Trim
- 1 - Complete 3" x 3000 psig Cameron manifold equipped with adjustable choke and manual choke.
- 1 - Kelly Cock (10,000 psig rating)
- 1 - Drill pipe stabbing valve with drill pipe connections.

Prior to drilling out below 9 5/8" casing, pressure test BOP stack, choke manifold, etc. to 1500 psig for 30 minutes.

Every 30 days BOP and accessory equipment must be pressure tested to 3000 psig. Operational check required of BOP, adjustable choke, etc. once every 24 hours. Record check in daily "tour" reports.

## Drilling Records:

- 1. Maintain 1' drilling time and geograph or equivalent.
- 2. Hook weight and pump pressure to be continually recorded (minimum requirement).
- 3. Daily tour reports to be completed each tour. Record all pertinent information (i.e., mud checks, trips, BOP tests, repairs, down time, stuck drill pipe, fishing jobs, DST's, etc.).

Drill Pipe Protectors: None.

## Abnormal Conditions or Potential Hazards:

Abnormal conditions or potential hazards are not expected. Estimated temperature at T.D. is 165°F. Estimated bottom hole pressure is 3100 psig (6200' depth with a normal pressure gradient of 0.50 psig/ft). Hydrogen sulfide gas is not expected.

Auxiliary Equipment to be Used: None.