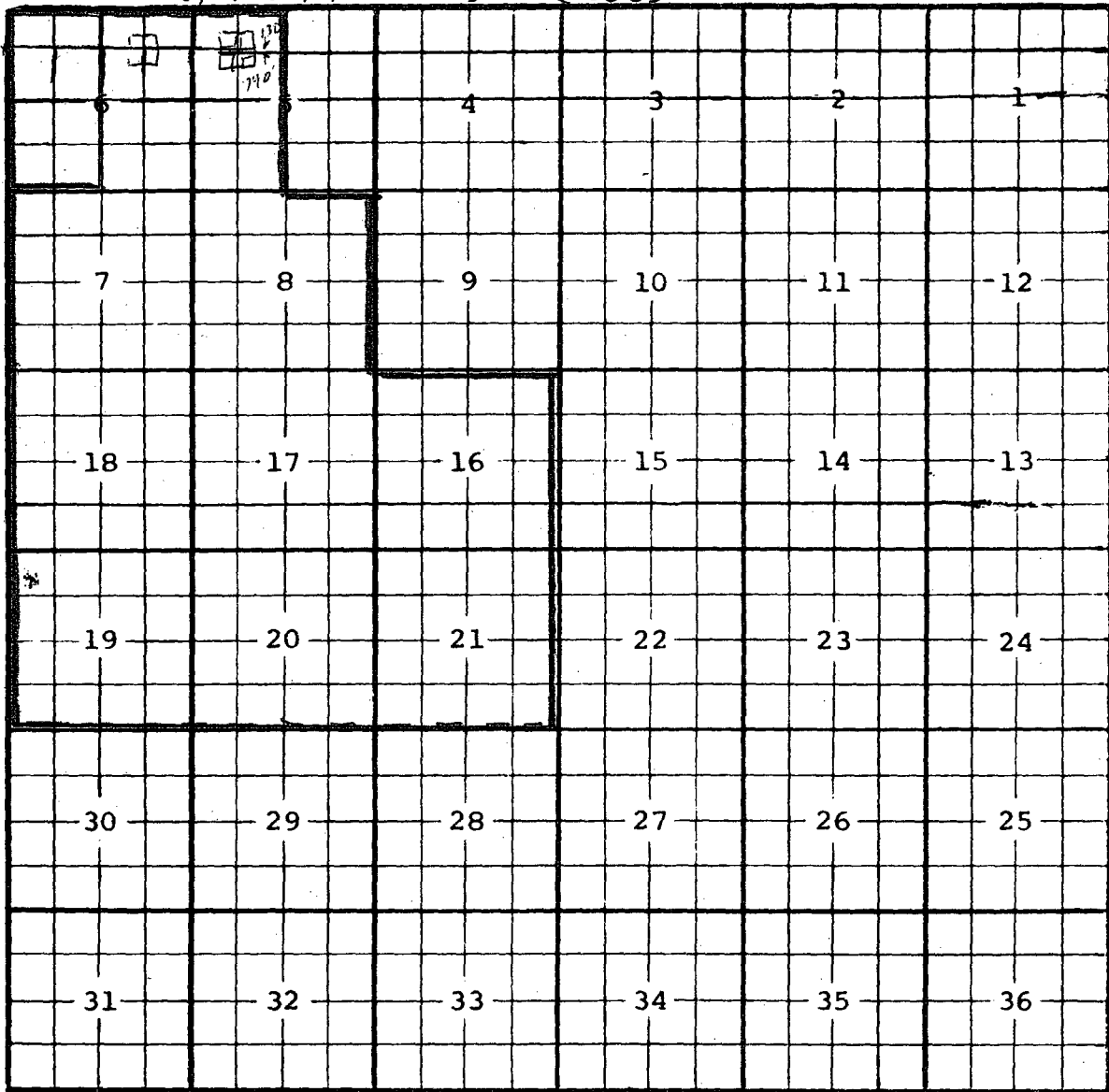


Rio Arriba and
County Sandoval Pool West Lindrith Gallup-Dakota Oil

TOWNSHIP 24 North Range 2 West NMPM



Ext: $\frac{W}{2}$ Sec. 6 (R-9667, 5-6-92)

Ext: $\frac{W}{2}$ Sec. 5, $\frac{E}{2}$ Sec. 6, All Secs. 7 and 8, All Secs. 16 through 21 (R-9801, 12-16-92)

```
Well No      : 007
GL Elevation: 7369
```

M0025: Enter PF keys to scroll

```
PF01 HELP      PF02          PF03 EXIT      PF04 GoTo      PF05          PF06
PF07          PF08          PF09          PF10 NEXT-WC PF11 HISTORY PF12 NXTREC
```



Well Master



API Well# 30 039 27092 00 00

Operator JICARILLA ENERGY CO

Orig Op

Driller

Well Nm JICARILLA APACHE JV 5

Well No 007

Field Nm JICARILLA APACHE JV 5

Basin

Deep Frm

Status A

Type G

Category

Cmpl S

WI Permit

Orig WI Type

Orig Cat

Lease/Unit #

Cur'nt

Orig

Mod Dt:

Status Dt

Prmt App 10/22/2002

Prmt Exp

Spudded 02/21/2003

TD Rchd 12/31/9999

Cmpltd 05/19/2003

Auth Trs 12/31/9999

1st Prod 12/31/9999

1st Inj

PB Dt

Plug Pln

P/A 12/31/9999

Multi- Lateral? ☐

Const

District 03

Measured TVD

Kickoff 0

Plug Back 0 0

Hole 0 7735

Loggers 0

Master Well File Comments

<Shift>+<F2> will expand the comment field for viewing/editing!

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Jicarilla Apache Energy Corporation

3. Address and Telephone No.
P.O. Box 710, Dulce New Mexico 87528 Mr. Jesse Evans (505)759-3224

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1981' FNL & 588' FWL, Sec 5, T23N, R3W NMPM

5. Lease Designation and Serial No.
**Joint Venture Agreement
701 99 0014**

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Trib

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Jicarilla Apache JV5

9. API Well No.

Not yet assigned

10. Field and Pool, or Exploratory Area
W. Lindrith Gallup-Dake

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface geology and measured and true vertical depths for all markers and zones pertinent to this work.)

Due to wildlife habitat, grade and road visibility concerns discussed during the onsite consultation on 7-9-02, JAECO proposes to change their APD - Surface use plan to include an Access Road/PL ROW entering location from the southwest verses the original ROW entering location from the north east.

Attached is the updated Surface Use Plan including Vicinity Map, Area Map and Wellsite Layout with Cut & Fills. Archaeological & EA surveys were conducted on the proposed ROW by Velarde Energy Service on 7-25-02.

My concurrence with this proposal is appreciated.

I certify the foregoing is true and correct

Title **Agent**

Date **7-25-02**

Approved (Federal or State Office Use)

APPROVED

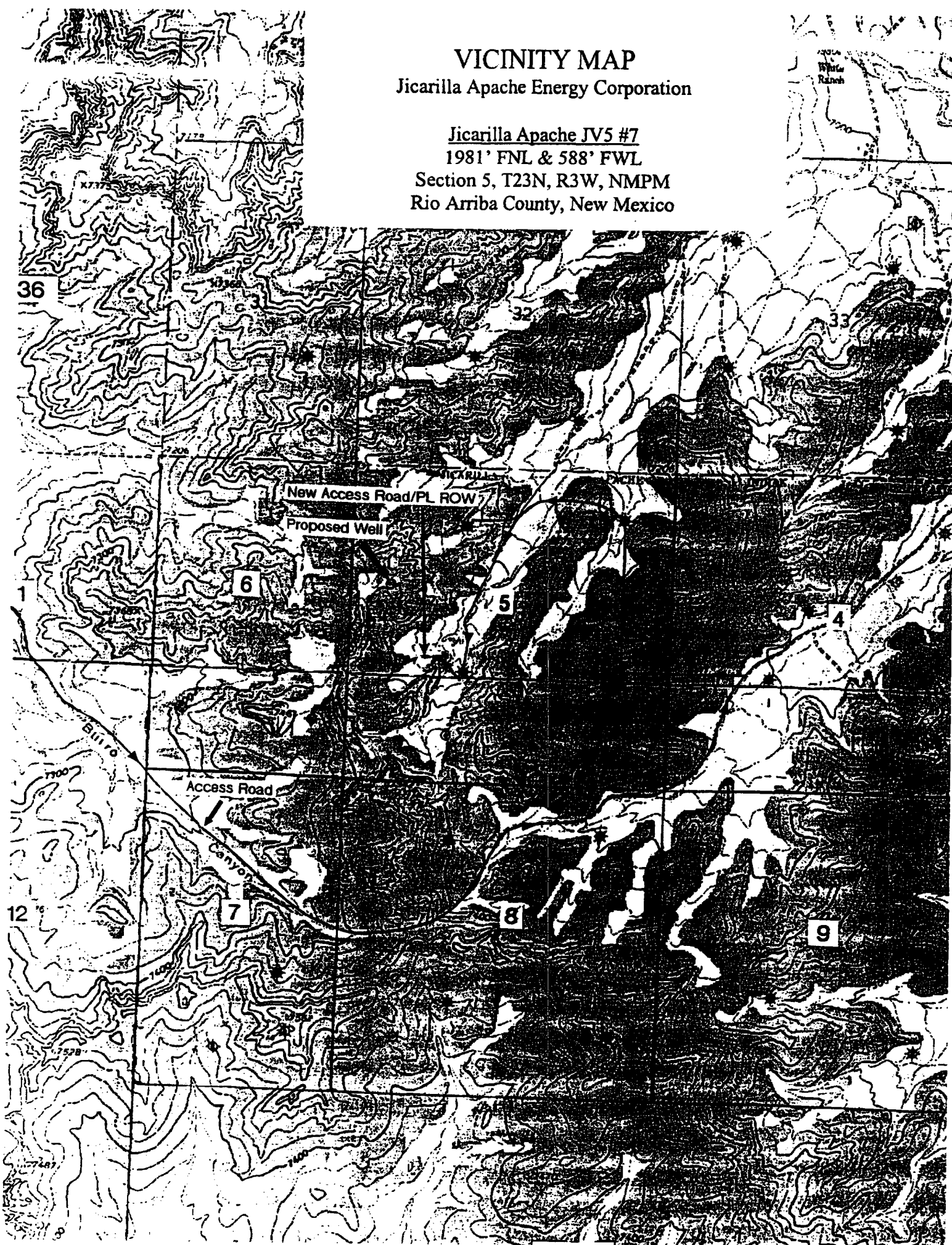
Title **Lands and Mineral Resources**

Date **OCT 2 2002**

Approved (Approval, if any)

VICINITY MAP
Jicarilla Apache Energy Corporation

Jicarilla Apache JV5 #7
1981' FNL & 588' FWL
Section 5, T23N, R3W, NMPM
Rio Arriba County, New Mexico



JICARILLA APACHE ENERGY CORPORATION
APACHE JV 5-7
1981' FNL & 588' FWL
Section 5, T23N, R3W, NMPM
Rio Arriba County, New Mexico

TEN POINT DRILLING PROGRAM

1. **Surface Formation:** San Jose

2. **Surface Elevation:** 7369' GL.

3. **Estimated Formation Tops:**

<u>Formation</u>	<u>Top - feet</u>	<u>Expected Production</u>
Nacimiento	1510'	
Ojo Alamo	2785'	
Fruitland	3120'	GAS
Pictured Cliffs	3225'	GAS
Lewis	3290'	
Huerfanito	3560'	
Chacra	4035'	GAS
Mesa Verde (OCD Top)	4310'	
Cliff House	4770'	GAS
Menefee	4850'	GAS
Pt. Lookout	5315'	GAS
Upper Mancos	5540'	
Gallup	6385'	GAS / OIL
Lower Mancos	7130'	
Greenhorn	7310'	
Graneros	7380'	
Dakota:	7390'	GAS / OIL
Burro Canyon	7670'	
Morrison	7760'	
TOTAL DEPTH	7760'	

4. **Casing and Cementing Program:**

- Drill a 12 1/4" Hole to 320'. A string of 8 5/8" 24# J-55 ST&C casing will be set and cemented to the surface in a single stage with 225 sacks (266 cf) of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl₂ and 1/4 lb/sack celloflake. Slurry volume assumes 100% excess over calculated hole volume. If cement does not circulate to surface, cement will be topped off using 1" pipe down the 12 1/4" by 8 5/8" annulus. Minimum clearance between couplings and hole is 2.625". Prior to drilling out the shoe, casing and BOPE will be tested to a minimum of 600 psig. Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Drilling Program
Jicarilla Apache Energy Corporation
APACHE JV 5-7

Page Two

4. Casing and Cementing Program: - Continued

- WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 30 minutes.
- Drill an 7 7/8" hole through the Dakota formation.
- Run Induction and Compensated density/neutron logs from TD to surface casing shoe.
- Run 4 1/2" 10.5/11.6# K-55 & 11.6# N - 80 production casing from surface to Total Depth and cement in 2 stages with DV tool installed at 4064'. **Stage 1** (TD - 4064') will be cemented with 650sacks (1255cf) 65/35 Class "B"/Poz containing 6% gel, 0.6% Halad 9 and 1/2 cf Perlite/sack - mixed at 12.7 PPG, 1.93 yield. Followed with 100 sks 50/50 Class "B"/Poz with 2% gel, 10 1/4 #/sk Gilsonite and 10% NaCl mixed at 13.4 PPG, 1.24 yield (Total: 1379 cf of slurry; 70% excess to 4064'). Circulate with mud for 4 hours. **Stage 2** (4064' - 0') will be cemented with 964 sacks (1861 cf) 65/35 Class "B"/Poz containing 6% gel, 2% CaCl, 1/2 cf Perlite/sack - mixed at 12.7 PPG, 1.93 yield (1861 cf of slurry, 100% excess to Surface).
- Run temperature survey after 12 hours if cement does not circulate to surface.
- WOC 18 hours.

Cement volume is subject to change after review of open hole caliper log to caliper volume + 30%. Minimum clearance between couplings and hole is 2.875". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Bits: 12 1/4" surface hole - MT class 115 or 116 to ~ 320'.
7 7/8" production hole - PDC to ~ 7505' - top of DK "B" Sand.
7 7/8" production hole - TCI class 637 - 7505' to 7760' TD

Centralizers:

Surface string: 3 - 8 5/8" x 12 1/4": One centralizers run in middle of shoe joint with lock ring and two centralizers spaced evenly between shoe joint and 100'.

Production string: 25 - 4 1/2" x 7 7/8" centralizers will be run across all prospective pays in the Dakota and Mesa Verde formations. 1 - 4 1/2" x 7 7/8" centralizer will run below the DV tool and 5 - 4 1/2" x 7 7/8" centralizers will be run every other joint above DV tool. In addition 5 - 4 1/2" x 7 7/8" turbolizers will be spaced such that one (1) is just below the Basal Fruitland Coal, three (3) across the Fruitland and one (1) into the Ojo Alamo

Drilling Program
Jicarilla Apache Energy Corporation
APACHE JV 5-7

Page Three

4. Casing and Cementing Program: - continued

Float Equipment:

Surface string: Saw tooth guide shoe w/insert float, 1 jt above shoe.

Production string: Cement nose float shoe, 1 jt 4 1/2" csg, float collar, and DV tool set at 4064' with 2 cement baskets below DV.

5. Pressure Control Equipment:

A 2M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to a minimum of 600 psig before drilling out from under surface casing. The mechanical operating condition of the BOP will be checked daily. 4 1/2" rams will be installed before running production casing. Full opening drill string safety valves to fit all pipe in the drill string will be maintained on the rig floor during drilling operations.

6. Mud Program:

The well will be spudded and drilled to surface casing depth with a high viscosity slurry of bentonite, lime and fresh water. A fresh water PHPA polymer, low solids, non-dispersed mud system will be utilized to drill the well from surface casing to total depth. Sufficient mud materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures. The mud volume will be visually monitored and recorded on a routine basis.

Mud Property Guidelines:

<u>Interval (ft)</u>	<u>Weight (ppg)</u>	<u>Vis (sec/qt)</u>	<u>pH</u>	<u>Fluid Loss (cc/30 min)</u>
0 - 320'	8.6 - 9.2	40 - 35	9 - 9.5	No Control
320' - 4720'	8.6 - 9.0	30 - 35	9 - 9.5	15 - 20
4720' - 7760'	8.8 - 9.0	40 - 45	9 - 9.5	8 - 10

Note: Raise mud viscosity to 45 - 60 for logging. Thin mud viscosity to 40 - 45 to run casing.

Mud pH: to be maintained with lime or caustic soda at the recommended levels to assure drill pipe corrosion protection and gel hydration.

Lost Circulation: can occur anywhere from the Pictured Cliffs formation to TD. Mud weights should be controlled as low as possible with solids control equipment then as low as practical with water dilution.