

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. NAME OF OPERATOR  
Jack A. Cole

3. ADDRESS OF OPERATOR  
P. O. Box 191, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 990/N and 990/W Sec. 1-T22N-R4W  
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
70 miles SE Bloomfield, New Mexico

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 990'

16. NO. OF ACRES IN LEASE 1920

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH 3100'

20. ROPEWAY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6981 GR 6991 DF

22. APPROX. DATE WORK WILL START\*  
July 5, 1976

5. LEASE DESIGNATION AND SERIAL NO.  
APT 30-043-20218

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Contract 375  
Jicarilla Apache

7. UNIT AGREEMENT NAME  
Apache Flats

8. FARM OR LEASE NAME  
Apache Flats

9. WELL NO.  
6

10. FIELD AND POOL, OR WILDCAT  
Ballard - Natural Cliffs ext  
Wildcat Chacra

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 1-T22N-R4W

12. COUNTY OR PARISH  
Sandoval

13. STATE  
N.M.

17. NO. OF ACRES ASSIGNED TO THIS WELL  
180

211.60  
\$ 211.60

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 3/4	8 5/8	24.0	120'	Circulate
7 7/8	4 1/2	10.5	3050	250 Sacks

Well will be mud drilled to total depth after setting and cementing 8 5/8" surface casing. Run electric logs at total depth and set 4 1/2" casing if warranted, cementing same with 250 sacks (above Ojo Alamo). Sand-water frac treat down casing. Perforate casing opposite Chacra La Ventana sand. Set plug and perforate casing opposite Pictured Cliffs sand. Complete as co-mingled natural gas well.

*Gas Not Delivered*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Jack A. Cole TITLE Operator DATE May 13, 1976

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

*Okal*

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

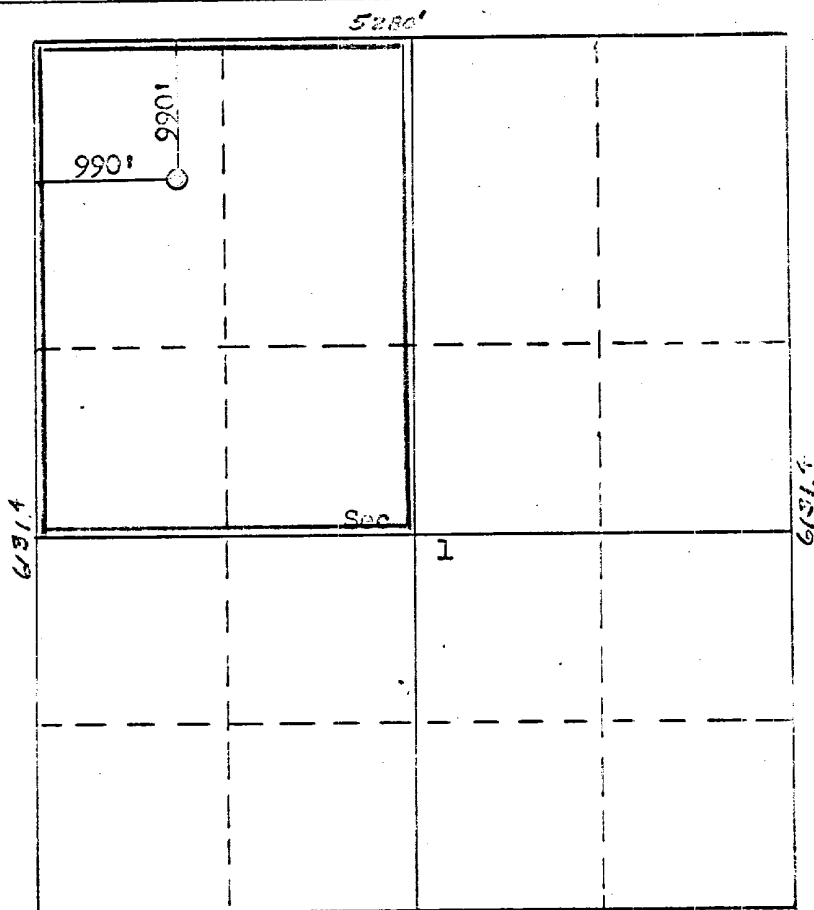
Operator <b>Jack A. Cole</b>		Locality <b>Apache Flats</b>		Well No. <b>6</b>
Unit Letter <b>D (Lot 4)</b>	Section <b>2</b>	Township <b>22N</b>	Range <b>4W</b>	County <b>Sandoval</b>
Actual Footage Location of Well:				
<b>990</b>	feet from the <b>North</b>	line and	<b>520</b>	feet from the <b>West</b>
Ground Level Elev. <b>7104</b>	Producing Formation <b>Chaco &amp; Littered Cliffs</b>		Poo. <b>Wildcat &amp; Ballard ext</b>	Dedicated Acreage <b>160 211.60</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1320'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name  
**Jack A. Cole**

Position  
**Operator**

Company

Date  
**May 13, 1976**

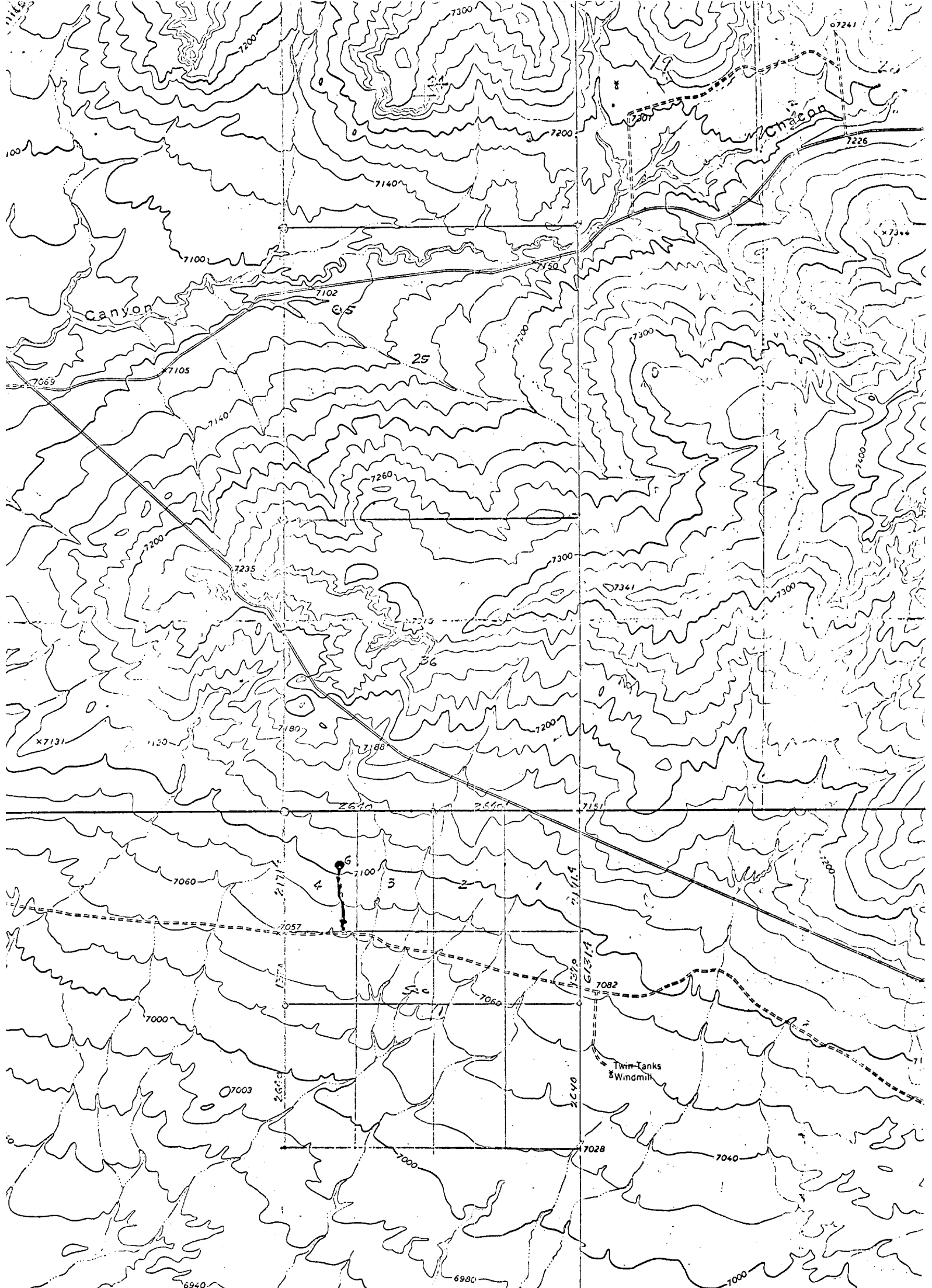
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**May 10, 1976**

Registered Professional Engineer and/or Land Surveyor

**Fred B. Kerr Jr.**

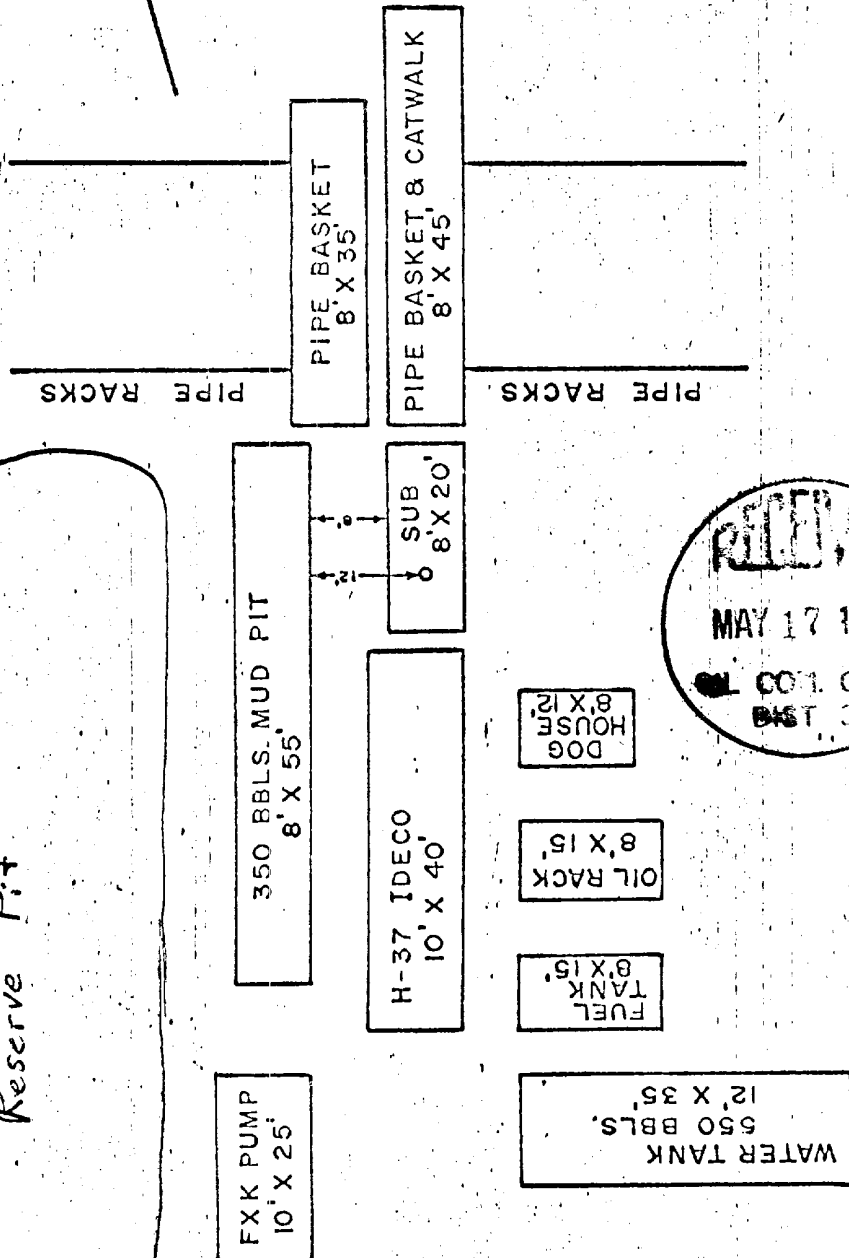
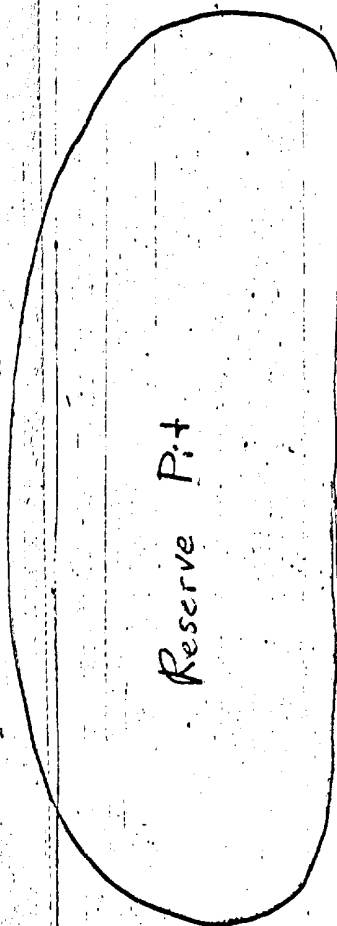
Certificate No.  
**3950**



Vicinity Map for  
JACK A. COLE  
#6 Apache Flats  
990'FWL 990'FWL Sec 1-22N-LW  
Sandoval Co. N. Mex.  
Scale: 1"=2000'



Location Layout  
 Jack A. Cole  
 Apache Flats #6  
 Sec. 1-T22N-R4W



Aztec Well Service  
 Rig No. 1

JACK A. COLE  
PETROLEUM GEOLOGIST  
P. O. BOX 191  
FARMINGTON, NEW MEXICO 87401

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JACK A. COLE  
APACHE FLATS #6  
990/N and 990/W Sec. 1-T22N-R4W  
Sandoval County, New Mexico

Seven Point Well Control Program

1. Surface Casing.  
See Application for Permit to Drill.
2. Spools and Flanges.
  - A. Surface Casing - 10", Series 600, 1500 psi W.P.
  - B. Production, 10", Series 600, 1500 psi W.P.
  - C. Tubing Head - Series 600, 1500 psi W.P.
3. Intermediate Casing.  
None
4. Blowout Preventers.  
Production Hole - 10", 3000 psi  
Fill, kill and choke manifold - 5000 psi W.P.
5. Additional Equipment (If necessary)
  - A. Kelly Cock
  - B. Bit Float
  - C. Degasser
  - D. Pit Level Indicator
  - E. Sub with Valve for drill pipe.
6. Anticipated Bottom Hole Pressure.  
1000 psi. Current mud program is for 9.2 lb./gal. mud with hydrostatic head of 1500 psi at 3000 feet. Mud weight will be increased if necessary for higher pressures.
7. Drilling Fluid.  
Low solids. Low water loss.

