

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

30-025-32457

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type Of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

STATE K

2. Name of Operator

MOBIL PRODUCING TX & NM INC.* *MOBIL EXPLORATION & PROD.

8. Well No.

13

3. Address of Operator

US INC. AS AGENT MPTM, BOX 633, MIDLAND, TX 79702

9. Pool name or Wildcat

VACUUM (DRINKARD)

4. Well Location

Unit Letter J : 1650 Feet From The SOUTH Line and 1900 Feet From The EAST Line

Section 31

Township 17-S

Range 35-E

NMPM LEA

County

10. Proposed Depth
8200

11. Formation
DRINKARD

12. Rotary or C.T.
ROTARY

13. Elevations (Show whether DF, RT, GR, etc.)
GL 3973

14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start
03-21-94

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11	8-5/8	24	1480	450 CL C	
7-7/8	5-1/2	17	8150/8200	920 CL H	

SEE ATTACHED DRILLING SUMMARY, CASING DIAGRAM AND CEMENT DETAIL FOR
ADDITIONAL INFORMATION

Min WOC - 18 HRS

OPER. OGRID NO. 015144

PROPERTY NO. 13709

POOL CODE 62110

EFF. DATE 3-11-94

API NO. 30-025-32457

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE

Kaye Pollock-Lyon

TITLE

ENV. & REG. TECH.

DATE

03-09-94

TYPE OR PRINT NAME

KAYE POLLOCK-LYON

TELEPHONE NO. 915-6882584

(This space for State Use)

APPROVED BY

TITLE

ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT I SUPERVISOR

DATE

MAR 11 1994

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
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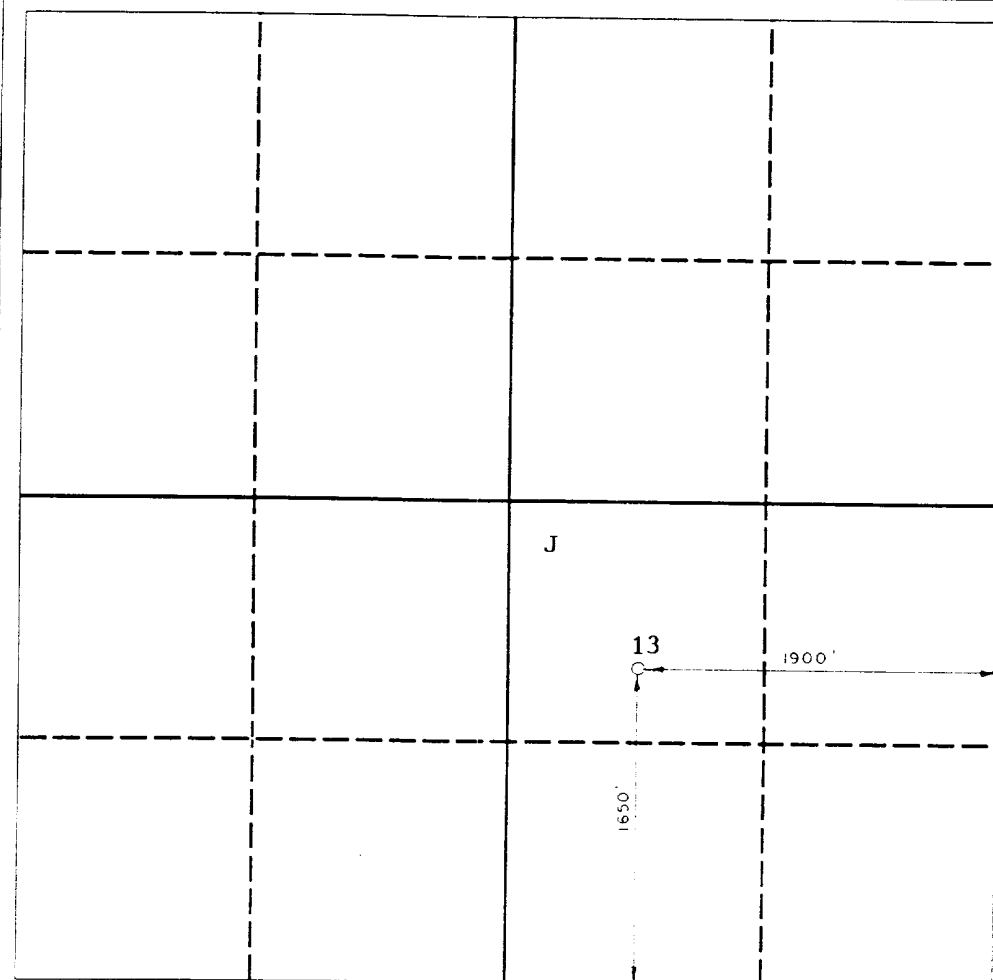
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Mobil Producing TX & NM Inc.*		Lease *Mobil Exploration & Producing, U.S.		Well No. 13	
Unit Letter J		Section 31		Township 17 South	
Range 35 East		County NMPM		Lea	
Actual Footage Location of Well: 1900 feet from the East line and 1650 feet from the South line					
Ground level Elev. 3973		Producing Formation Drinkard		Pool Vacuum	
Dedicated Acreage: 40		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 interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
Kaye Pollock-Lyon
Printed Name

Kaye Pollock-Lyon

Position

Env & Reg Tech

Company

Mobil Producing TX & NM Inc.

Date

03-09-94

SURVEYOR CERTIFICATION

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

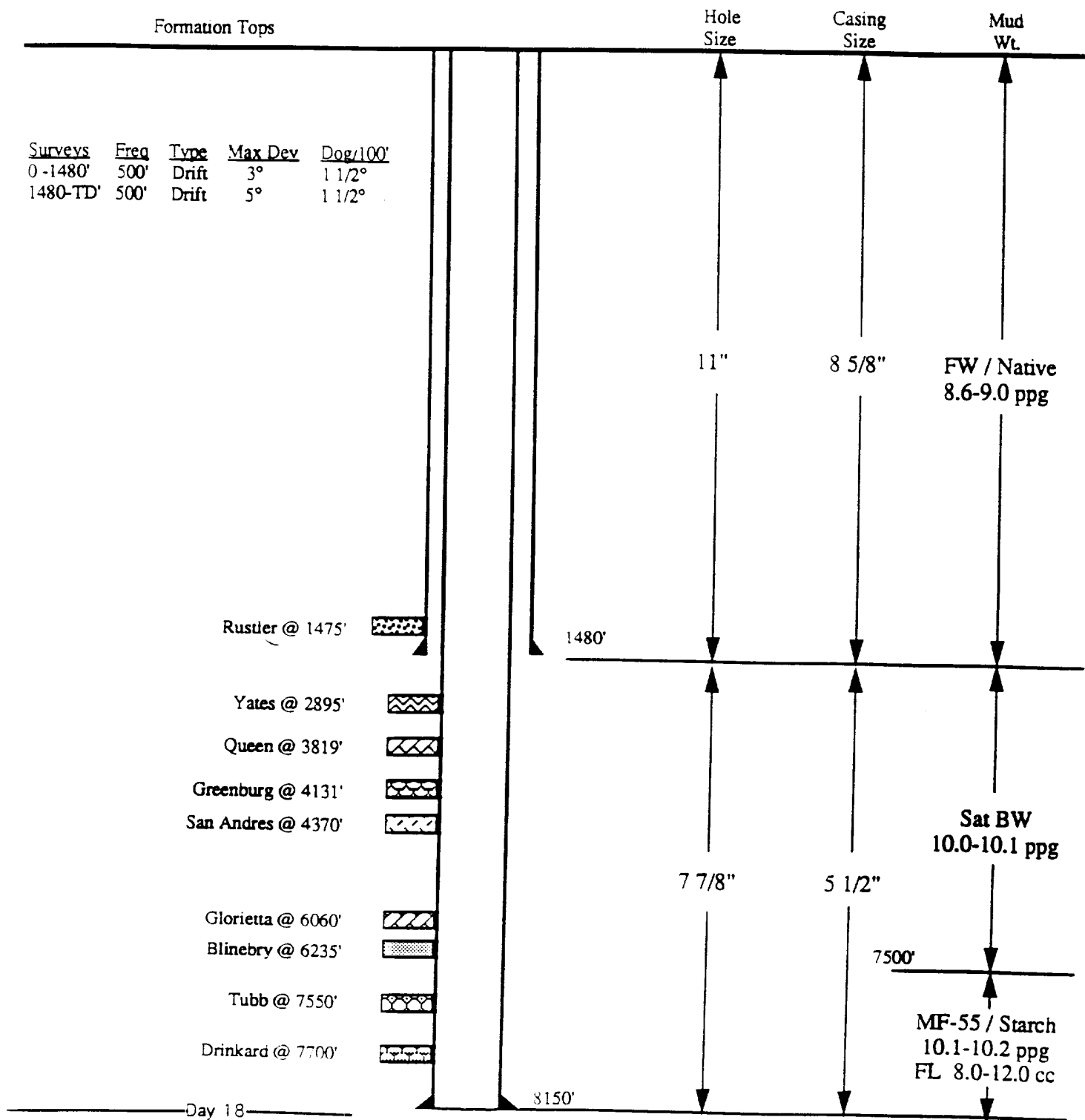
February 23, 1994

Signature & Seal of
Professional Surveyor

Certificate No.

5109

State "K" #12, #11, #13 DRILLING SUMMARY

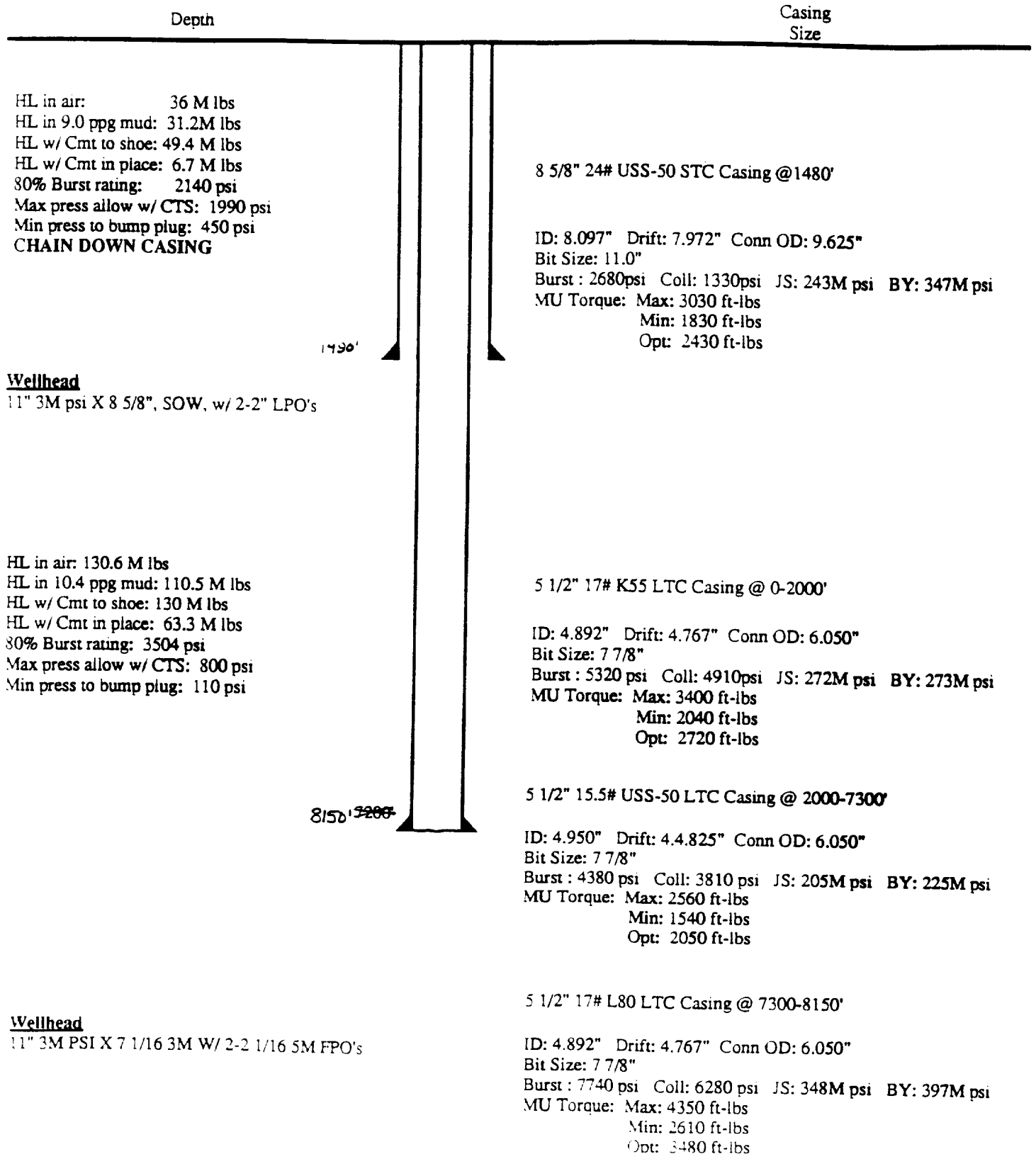


Log Type	Interval
CNL-ARI	6000-TD
FMI	7700-TD
Sonic-Cul	TD- Surf

Mud Logger
5000'-TD

STATE "K" #12, #11, #13

CASING DIAGRAM



STATE "K" #12, #11, #13

CEMENTING DETAIL

SURFACE

8 5/8" 24# USS-50 STC Casing @ 1480'

Casing Running Order

- Float Shoe
- 1 jt 8 5/8" casing
- Float Collar (Thread Lock from FC down)

Centralizers:

- 1 - 5' above shoe
- 1 - 5' float collar
- 1 - every fourth collar to Surface
- Total: 11- centralizers
- 2-stop collars

Surface

Spacer: 25 bbls FW

*Lead: 250 sx "C" + 4% D20 + 2% S1 + 0.25 pps D29

*Tail: 200 sx "C" + 2% S1 + 0.25 pps D29

	<u>Lead</u>	<u>Tail</u>
Weight (ppg)	13.5	14.8
Yield (cf/sx)	1.74	1.32
Mix Water (gps)	9.11	6.32
Thick Time (hrs:min)	≥ 3:20	≥ 2:00
Free Water (cc/30 min)	≤ 1%	≤ 1%
Fluid Loss (cc's)	NC	NC
12 Hr Comp Strength	≥ 500	≥ 700
72 Hr Comp Strength	≥ 1500	≥ 1500
Top of Cement	0	500'

* Est. volumes based on gauge hole + 100% excess.
Run fluid or mechanical caliper to determine exact volumes.

- 1) Chain Down Casing
- 2) Circ. one hole vol. prior to cementing.
- 3) Displace cement w/ FW @ 6-7 bpm. DO NOT OVERDISPLACE
- 4) If cement does not circ. to surface, contact Drlg. Supt. and the NMOC.
- 5) Test casing to 1500 psi.
- 6) **WAIT MIN 8 HRS PRIOR TO DRILL OUT**

PRODUCTION

5 1/2" 17 K55 LTC Casing @ 0-2000'

5 1/2" 15.5# USS50 STC Casing @ 2000-7300'

5 1/2" 17# L80 LTC Casing @ 7300-8150'

Casing Running Order

- Float Shoe
- 2 jts 5 1/2" casing
- Float Collar (Thread Lock from FC down)

Centralizers:

- 1 - 5' above shoe
- 1 - 5' above float collar
- 1 - every third collar
- Total: 27- centralizers
- 2- stop collars

Production

Spacer: 25 bbls FW

**Lead: 670 sx 35/65 (Poz/H) + 6% D20 + 5% D44 + 0.25 pps D29

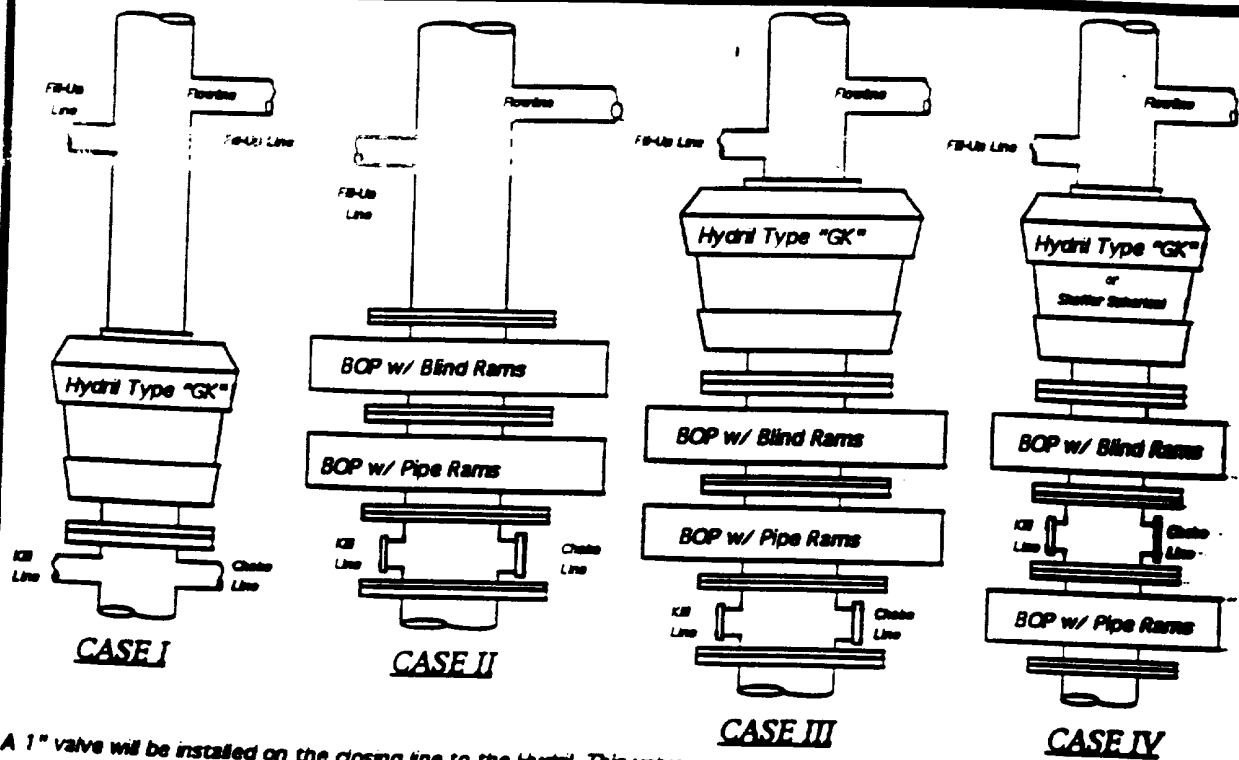
**Tail: 250 sx "H" + .025 pps D29

	<u>Lead</u>	<u>Tail</u>
Weight (ppg)	12.8	16.4
Yield (cf/sx)	1.96	1.06
Mix Water (gps)	10.46	4.34
Thick Time (hrs:min)	≥ 3:00	≥ 2:39
Free Water (cc/30 min)	≤ 1%	≤ 1%
Fluid Loss (cc's)	NC	NC
12 Hr Comp Strength	≥ 400	≥ ***
72 Hr Comp Strength	≥ ***	≥ ***
Top of Cement	3700'	7500'

** Est volumes based on gauged hole size or 50% excess. Run log caliper for actual volumes. Use 25% excess for open hole x 5 1/2" casing annulus.

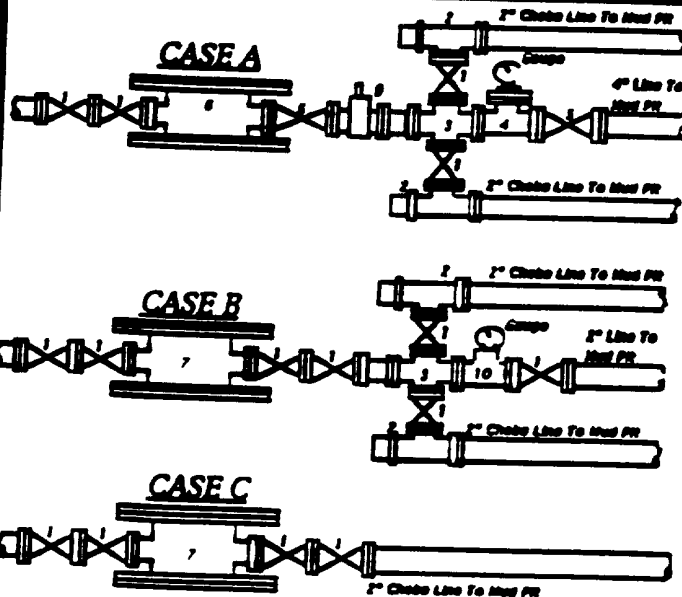
- 1) Reciprocate casing 15'-20' while conditioning hole
- 2) Circ. one hole vol. prior to cementing.
- 3) Displace cement w/ FW @ 4-6 bpm. DO NOT OVERDISPLACE
- 4) WOC 8 hrs. ND BOP & cut casing to install tubing head.

SCHEDULE B MINIMUM BLOWOUT PREVENTER REQUIREMENTS



A 1" valve will be installed on the closing line to the Hydral. This valve will be on a short nipple next to the Hydral. The Hydral closing line must be equipped w/ a 1" - 3000 psi WP plug valve on the nipple into the Hydral.

CASE IV



BOP SIZE	BOP CASE	WORKING PRESSURE	CHOKER CASE
11	II	3000 psi	B

Bradenhead furnished by Mobil will be:
Mfr: _____
Size: _____ Type: _____

Legend

- 2" Flanged all steel valve must be shop connected 90° Mobilized Low Torque or Shutter Pin-Block.
- 2" Flanged adjustable chokes, min. 1" full opening & equipped w/ bore arm.
- 4" x 2" Flanged steel cross.
- 4" Flanged steel tee.
- 4" Flanged all steel valve (Type as in no. 1).
- Drilling Spool w/ 2" x 4" Flanged center.
- Drilling Spool w/ 2" x 2" Flanged center.
- 2" x 2" Flanged steel cross.
- 4" pressure contained gate valve.
- 2" Flanged steel tee.

Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make BOP turns with two shapped tool only. No fluid welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all cross and drilling spools must be at least equivalent to the test pressure of the pressure required. Independent closing control with clearly marked controls to be located on device their near operator's position.

