

UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	5. Lease Designation And Serial No. NM-046
2. Name Of Operator Mobil Producing Texas & New Mexico Inc., Mobil Exploration & Producing U. S. Inc. Agent	6. Indian, Allottee Tribe Name
3. Address Of Operator P. O. Box 3444, Denver, CO 80217-3444	7. Unit Agreement Name
4. Location Of Well 790' FNL AND 990' FEL Section 8, T26N, R2W	8. Farm Or Lease Name Sheney Federal-3 Mobil Field
9. Well No.	10. Field And Pool, Or Wildcat Gavilan Mancos/Basin Dakota
11. Sec., T., R. 1NE NE Sec. 8, T26N, R2W	12. County Rio Arriba
13. Elevation 7141 GR	14. State N. M.
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data	
Notice Of Intention To :	
Test Water Shut-off <input type="checkbox"/> Pull Or Alter Casing <input type="checkbox"/>	Water Shut-off <input type="checkbox"/> Repairing Well <input type="checkbox"/>
Fracture Treat <input type="checkbox"/> Multiple Complete <input type="checkbox"/>	Fracture Treatment <input type="checkbox"/> Altering Casing <input type="checkbox"/>
Shoot Or Acidize <input type="checkbox"/> Abandon <input type="checkbox"/>	Shooting Or Acidizing <input type="checkbox"/> Abandonment <input type="checkbox"/>
Repair Well <input type="checkbox"/> Change Plans <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) Revised Drilling Plans <input checked="" type="checkbox"/>	
17. Describe Proposed Or Completed Operations	

Attached revised drilling plans as prepared by Mobil personnel upon assumption of operator status for this well.

To be considered in replacement of previously submitted plan.

Should you have any questions on this Drilling Plan, please contact Craig Eggerman at this office (303) 296-2346.

Any questions regarding the Surface Use Plan should be directed to Clyde Benally in the Cortez office (303) 565-2215.

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JUN 17 1988
OIL CON. DIV.
DIST. 3

FARMINGTON REG. JOE AREA
FARMINGTON, NEW MEXICO

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RECEIVED
B.L.M. MAIL ROOM

Any Remedial Cementing Necessary will be completed before rig is released.

18. I hereby certify that the foregoing is true and correct

Signed B. R. Maynard Title Regulatory Compliance Mgr. Date June 3, 1988

Approved By _____ Title _____ Date _____

Conditions Of Approval If Any:

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B: MAIL ROOM
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FARMINGTON, NEW MEXICO

**MOBIL OIL CORPORATION
CHENEY FEDERAL B #1
JICARILLA NORTH PROJECT
NE/NE SECTION 8-T26N-R2W
RIO ARriba COUNTY, NEW MEXICO**

SUPPLEMENT TO APPLICATION TO DRILL

1. **GEOLOGIC NAME OF SURFACE FORMATION:** San Jose
2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Ojo Alamo	3290'
Kirtland/Fruitland	3420'
Pictured Cliffs	3644'
Lewis Shale	3708'
Mesa Verde Group	
Cliffhouse	5475'
Menefee	5500'
Point Lookout	5823'
Upper Mancos	5970'
Upper Niobrara	6723'
Gallup	6917'
Lower Mancos Shale	7350'
Sanastee	7523'
Carlile Shale	7643'
Greenhorn Limestone	7835'
Graneros Shale	7911'
Dakota	8045'
Burro Canyon	8158'
TD	8250'

3. **CASING AND CEMENT DATA:**

Conductor: Drill a 20" hole and set 13-3/8" casing to $\pm 40'$. Cement to surface. Volume= $(1.2060 \text{ cu ft/ft})(40 \text{ ft})(100\% \text{ excess})=97 \text{ cu ft}$

Surface: Drill 12-1/4" hole. Run 8-5/8" 32.0# K-55 LT&C casing to $\pm 400'$. Cement to surface with Class 'B' + 2% CaCl_2 + 1/4#/sx cellophane.

Cement Volume:	(.4127 cu ft/ft)(40 ft)
+	(.4127 cu ft/ft)(360 ft)(100% excess)
=	314 cu ft

Production: Drill 7-7/8" hole. Run 5-1/2" 17.0# K-55 LT&C casing to $\pm 8250'$. It is planned to foam cement this string to surface using a constant nitrogen rate method. The slurry will consist of nitroified Lightweight Cement with foam stabilizer and lost circulation material followed by neat Lightweight Cement. Approximately 250 psi will be held on the annulus to help maintain the integrity of the foamed cement. Volumes will be based on the open hole caliper logs plus 15% excess. A cap will be pumped down the annulus after the job which will consist of Class 'B' + 10% Thixad + 2% CaCl₂. The cap will be designed to cover $\pm 400'$. A two-stage job will be designed as a backup if it is determined that the formations needing coverage or isolation can support the hydrostatic pressure exhibited.

$$\begin{aligned}\text{Lead Volume (gauge):} & \quad (6500'-0')(.1728 \text{ cu ft/ft}) \\ & = 1123 \text{ cu ft}\end{aligned}$$

$$\begin{aligned}\text{Tail Volume (gauge):} & \quad (8250'-6500')(.1728 \text{ cu ft/ft}) \\ & = 302 \text{ cu ft}\end{aligned}$$

$$\text{Total Gauge Volume: } 1425 \text{ cu ft}$$

4. **BLOWOUT PREVENTER EQUIPMENT:**

Out from under surface casing, a minimum of an 8-5/8" x 11" 3000 psi system will be utilized with a minimum arrangement of two sets of hydraulically operated rams (a blind ram and a pipe ram). The choke manifold will have a minimum of a 3000 psi working pressure. See attached diagrams. The BOP's will be hydraulically tested to their working pressure after nipping up and after any use under pressure. The pipe rams will be tested operationally every 24 hours and the blind rams will be tested each time the pipe is brought out of the hole. Such checks of the BOP's will be reported on the daily IADC report.

Accessories to the BOP will include an upper and lower kelly cock, floor safety valve, drill string BOP and a choke manifold with a pressure rating at least as high as the BOP's.

5. **MUD AND HOLE DATA:**

The interval from 40' to 400' will be drilled with a native spud mud using fresh water and native solids. Gel will be added for funnel viscosity control.

Weight:	8.4-9.0 ppg
Viscosity:	35-45 sec/qt
Fluid Loss:	No Control

The interval from 400' to 8250' TD will be drilled with fresh water gel mud through the reserve pit as long as is possible. A flowline flocculant will be used to help extend the water drilling interval. Water flows and/or hole instability may dictate a slight mud up in which case the steel pits will be utilized.

Weight:	8.6-9.0 ppg	(as low as required to handle water flows and maintain hole stability)
Viscosity:	32-50 sec/qt	
Fluid Loss:	Less than 20 cc/30 min to $\pm 5000'$	
	Less than 10 cc/30 min from 5000' to TD	

6. **AUXILIARY EQUIPMENT:**

Upper and lower kelly cock valves will be in use at all times. Back pressure and full opening drill string safety valves will be available on the rig floor at all times. No other auxiliary is planned for use at this time.

7. **FORMATION EVALUATION:**

A standard suite of logs is scheduled to be run on this well. The logging program will consist of the following logs:

DIL-SFL-SP-GR-CAL from TD to surface csg shoe
CNL-FDC-GR-CAL from TD to base of surface casing
Borehole Televiewer from TD to 6700'

8. **ANTICIPATED ABNORMAL CONDITIONS:**

Lost circulation is expected in this well due to the subnormally pressured Pictured Cliffs, Mesa Verde, Gallup and Dakota zones. No abnormal pressures, poison gases or other hazardous situations are expected.

9. **ANTICIPATED STARTING DATE FOR THE PROJECT:**

This well is expected to spud on or before **June 30, 1988**. The precise starting date will depend on the time required to permit the well and take care of the necessary paperwork. The anticipated duration of operations on this well is 20 days.

10. **COMPLETION AND STIMULATION:**

Plans are to test and complete the Gallup and Dakota zones separately. It is anticipated that both zones will require frac jobs and no acidizing is planned at this time. Mobil may seek approval to comingle the Gallup and Dakota production.

W.D. Lowry
Walt Lowry
Staff Drilling Engineer

APPENDIX II

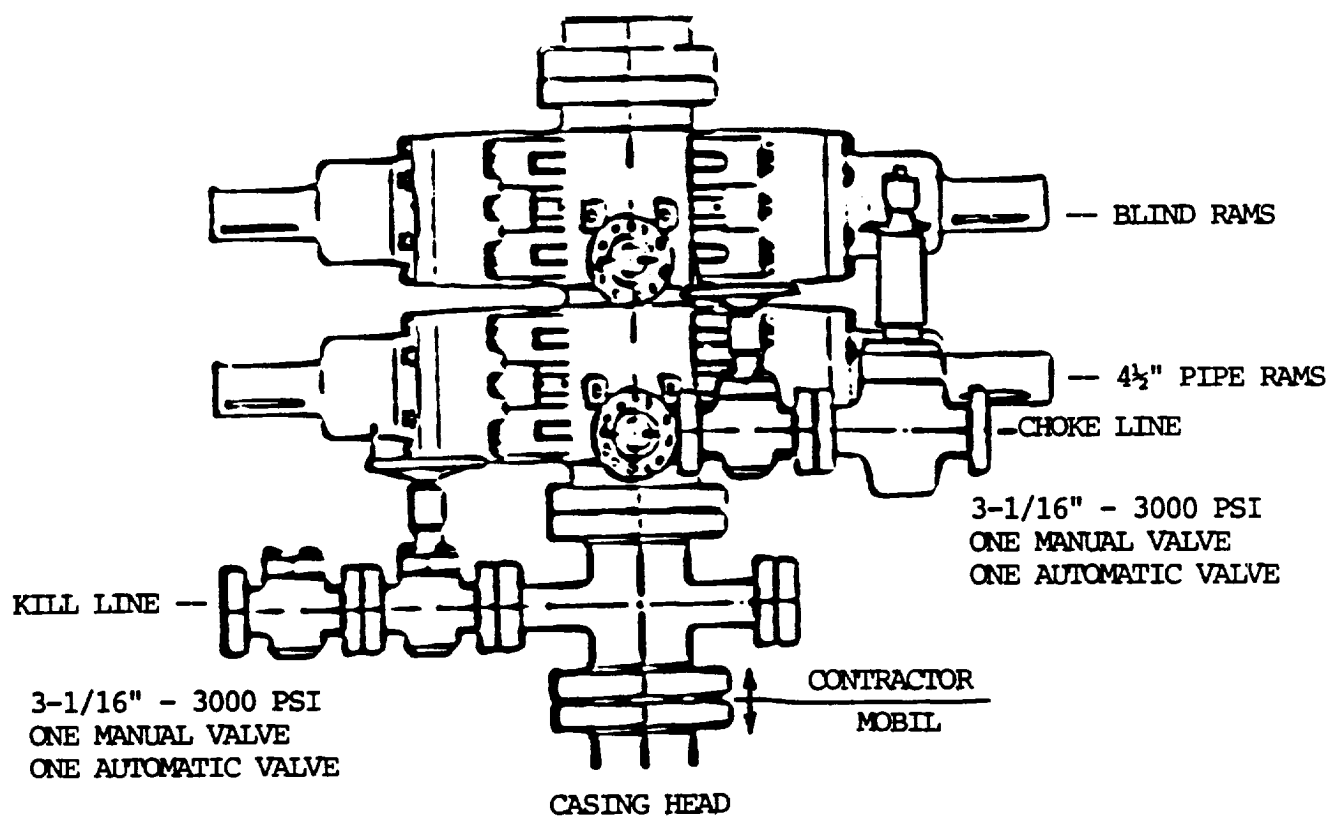
BOP EQUIPMENT

11" - 3000 PSI WP

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BLM MAIL ROOM

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FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO



APPENDIX III

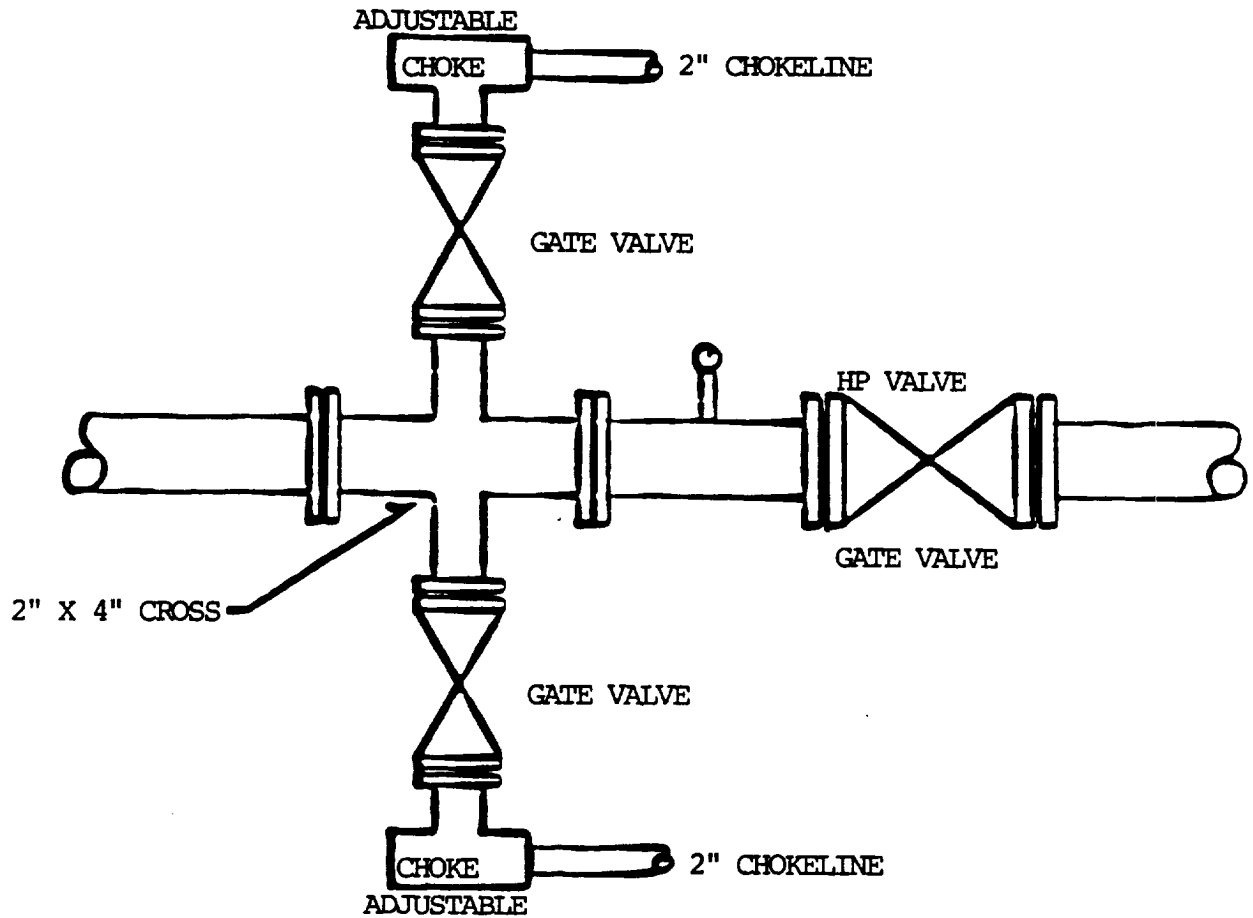
CHOKE MANIFOLD

3000 PSI

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FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

MUST BE LOCATED A MINIMUM OF 30' FROM BOP'S



NO SCALE