N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

| Form 3160-3 (August 1999) | FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000 | | | | | |
|---|---|---------------|--|---------------------|--|--|
| UNITED STATES DEPARTMENT OF THE IN | TERIOR | | 5. Lease Serial No. | | | |
| BUREAU OF LAND MANAG | NM-54428 | | | | | |
| APPLICATION FOR PERMIT TO DR | 6. If Indian, Allottee or Trit | oe Name | | | | |
| 1a. Type of Work: ☑ DRILL ☐ REENTER | 7. If Unit or CA Agreement, Name and No. | | | | | |
| 3,7, and 3, and | • | | NORTH SQUARE LAKE UNIT | | | |
| 1b. Type of Well: 🔀 Oil Well 🔲 Gas Well 🛄 Other | Single Zone Multip | ole Zone | 8. Lease Name and Well No. NORTH SQUARE LAKE | | | |
| 2. Name of Operator | | | 9. API Well No. | | | |
| CBS OPERATING CORPORATION | | | 30-015- | 32905 | | |
| | 3b. Phone No. (include area code) | | 10. Field and Pool, or Explora | • | | |
| MIDLAND, TX 79702 | 915/685-0878 | | SQUARE LAKE GI | | | |
| 4. Location of Well (Report location clearly and in accordance with a At surface 2630' FSL & 1310' FWL Lo | | | | • | | |
| • |) | | Sec. 31, T16 | SS, R31E | | |
| At proposed prod. zone Same | | | 10.0 | 112 6 | | |
| 14. Distance in miles and direction from nearest town or post office* 5.4 air miles NE of Loco Hills | 3 | | 12. County or Parish | 13. State | | |
| 15. Distance from proposed* | | | EDDY g Unit dedicated to this well | <u> </u> | | |
| location to nearest 10 property or lease line, ft. | Approx 6125 ac | • | | | | |
| (Also to nearest drig. unit line, if any) | in Unit | 40 | 40 acres | | | |
| 18. Distance from proposed location* As nearest well, drilling, completed. 900 | 19. Proposed Depth | 20. BLM/ | BIA Bond No. on file | | | |
| nearest well, drilling, completed, 900 applied for, on this lease, ft. | 3500' NM | | B000024 | | | |
| Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will star | rt* | 23. Estimated duration | | | |
| 3800' GL | January 1, 200 | 3 | Drill & Complete 30 days | | | |
| | 24. Attachments | eli Cont | rolled Water Basin | | | |
| The following, completed in accordance with the requirements of Onshor | | | | | | |
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover th | ne operation | ns unless covered by an existing | g bond on file (see | | |
| 2. A Drilling Plan. | Item 20 above). 5. Operator certification | ation | | | | |
| A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site : | specific info | ormation and/or plans as may | be required by the | | |
| // \ | authorized office | f. | | | | |
| 25. Signature Digo | Name (Printed/Typed) M. A. SIRGO, | III | DEC. | . 10, 2002 | | |
| AGENT FOR CBS OPERATING CORP | | | | | | |
| Approved by (Signature) /s/ LESLIE A. THEISS | Name/Printed/Typed) | A. TH | EISS Date | UL 0 8 2003 | | |
| FIELD MANAGER | Office | | ELD OFFICE | | | |
| Application approval does not warrant or certify the the applicant holds le | | | | | | |
| operations thereon. Conditions of approval, if any, are attached. | ^API | PROV. | AL FOR 1 YEA | NR | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12 22 flace it States any false, fictitious or fraudulent statements or representations as to | a crime for any person knowingly and any maile within its jurisdiction. | d willfully t | o make to any department or ag | ency of the United | | |
| *(Instructions on reverse) | * | PPPAL | Al CHDIERT TA | | | |

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

DISTRICT I P.O. Box 1980, Robbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

DISTRICT IV

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Code | Pool Code Pool Name | | | |
|---------------|-----------|---------------------|-------------|--|--|
| | 57570 | SQUARE LAKE GB-SA | | | |
| Property Code | Prop | perty Name | Well Number | | |
| 30768 | 1 | 175 | | | |
| OGRID No. | | rator Name | Elevation | | |
| 216852 | CBS (| OPERATING CORP | 3800 | | |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| LOT 3 | 31 | 16 S | 31 E | f | 2630 | SOUTH | 1310 | WEST | EDDY |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-----------------|---------|-------------|---------------|----------|---------------|------------------|---------------|----------------|--------|
| Dedicated Acres | Joint o | r Infill Co | nsolidation (| Code Oro | ler No. | L | | <u> </u> | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| LOT 1 | | OPERATOR CERTIFICATION | N |
|-------------------------|------------------------|---|------------------|
| | | I hereby certify the the inform contained herein is true and complete to best of my knowledge and helds. | |
| | | La A. Sigo | B |
| 30.82 ACRES | | - Signature | |
| LOT 2 | | M. A. SIRGO, III Printed Name | |
| | | AGENT | |
| | | DECEMBER 10, 2002 | |
| 30.91 ACRES | | Date | |
| 1310' | | SURVEYOR CERTIFICATION | N |
| LOT 3 <u>SEE DETAIL</u> | 3809.0' 3799.2' O | I hereby certify that the well location is on this plat was plotted from field no actual surveys made by me or und supervison, and that the same is tri | tes of ler my |
| | 3802.5' — J 3803.3' | correct to the best of my belief. | |
| | DETAIL | Data Suresyed J. 5000 | LMP |
| 30.99 ACRES LOT 4 | | Signature & Seal of Professional Surveyor. | |
| 31.08 ACRES | | Certificate No. BONNID F. EIDSON | 3239 12641 |

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

TES
E INTERIOR
NAGEMENT
PORTS ON WELLS

FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000

Lease Serial No.

| Do not use the | Y NOTICES AND REPO is form for proposals to II. Use Form 3160-3 (API | drill or to i | e-enter a | n | / /6. If India | n, Allottee or Tribe Name |
|--|--|------------------------------|--------------------------|--|--------------------------|---|
| SUBMIT IN TRI | PLICATE - Other instr | uctions on | reverse : | side | 7. If Unit | or CA/Agreement, Name and/or No. |
| 1. Type of Well | NORTH | SQUARE LAKE UNIT | | | | |
| 2 Oil Well Gas Well |) Other | | | | | ame and No. |
| 2. Name of Operator | Other | | | | | SQUARE LAKE UNIT |
| CBS OPERATING (| 9. API W | | | | | |
| 3a. Address P. O. BOX | | 1 | No. (include i | · | | |
| MIDLAND T | | | <u>685-08</u> | 78 | | nd Pool, or Exploratory Area |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) | | | | | | RE LAKE GB-SA |
| | | | | | · | or Parish, State |
| | | | | | EDDY | , NEW MEXICO |
| 12. CHECK AP | PROPRIATE BOX(ES) TO | O INDICATI | 3 NATUR | E OF NOTICE, RE | EPORT, O | R OTHER DATA |
| TYPE OF SUBMISSION | | | TYP | E OF ACTION | | |
| | Acidize | ☐ Deepen | | Production (Start/ | Resume) | ☐ Water Shut-Off |
| ■ Notice of Intent | ☐ Alter Casing | Fracture 7 | [reat | Reclamation | , | ☐ Well Integrity |
| Subsequent Report | Casing Repair | New Con | struction | ☐ Recomplete | | ☑ Other Master |
| C sussiquem respect | ☐ Change Plans | Plug and | Abandon | Temporarily Aba | ndon | Drilling Plan |
| ☐ Final Abandonment Notice | Convert to Injection | Plug Back | ٠ . | ■ Water Disposal | | |
| Attached for you North Square Lad drilling operat. Any unique data individual well sheet. | ur review and a ke Unit. CBS C ions subject to to specific we | peratin this M 11 loca | g Corp aster tions | ooration wi Drilling P will be pro | ll con lan. esente | duct all unit |
| | | NOTE: D | epth of s | surface casing | mav | |
| , | | | | geology. Che | ck | |
| | | • | _ | roval for surface | ce casin | d 392021222324 |
| | | setting dep | | | | A B |
| 14. I hereby certify that the foregoin | g is true and correct | | | | | / <u>s</u> |
| Name (Printed/Typed) M. A. SIRGO, | 1/1 I | | Title A | GENT | | 19 ARTESIA CO 2021222324 STATESIA |
| | 1 | D | | | | ARTESIA C |
| Signature C | Just = | | <u> </u> | ECEMBER 10 | , 2002 | \ |
| | THIS SPACE F | OR FEDERA | | ATE OFFICE USE | | र्हे हे ८ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १ |
| Approved by Alexic | C. Swobod | | Till Till | ETROLEUM E | HGINE | ate DED 1 1 12 |
| Conditions of approval, if any, are certify that the applicant holds lega which would entitle the applicant to | I or equitable title to those righ | | | ice | | |

CBS OPERATING CORPORATION DECEMBER 2002 MASTER DRILLING PROGRAM NORTH SQUARE LAKE UNIT EDDY COUNTY, NEW MEXICO

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil & Gas Order No. 1.

1) This Master Drilling Plan is submitted to cover new wells drilled within the North Square Lake Unit boundary as defined below:

County - Eddy

<u>T-16S R30-E</u> E/2 Section 25 N/2 Section 36 T-16S R31-E S/2 Section 19 S/2 Section 20

NW/4 NW/4 Section 27

S/2 Section 27

SW/4 NE/4 Section 27 SW/4 Section 27 W/2 SE/4 Section 27 SE/4 SE/4 Section 27

All Section 28
All Section 29
All Section 30
All Section 31
All Section 32
All Section 33
All Section 34

2) SURFACE FORMATION: Current

3) ESTIMATED TOPS OF GEOLOGIC MARKERS:

| Top of Salt | 525' | Queen | 2200' |
|--------------|-------|------------|-------|
| Base of Salt | 1360' | Grayburg | 2852' |
| Yates | 1570' | San Andres | 3208' |
| Seven Rivers | 1590' | | |

MASTER DRILLING PLAN PAGE 2

4) <u>ESTIMATED DEPTHS TO WATER OIL OR GAS FORMATION</u>:

Water – Possible groundwater from 0' to 75'

Oil - 2100' to TD

Gas - None anticipated

No other intervals are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8-5/8" casing at 400' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a float shoe joint into the 5-1/2" production casing which will be run at TD.

5) CASING PROGRAM:

| HOLE SIZE | INTERVAL | OD CASING | <u>WEIGHT</u> | <u>GRADE</u> | <u>JT.</u> | <u>TYPE</u> |
|-----------|----------|-----------|---------------|--------------|------------|-------------|
| 12-1/4" | 0-400' | 8-5/8" | 24# | J-55 | LTC | R-3 |
| 7-7/8" | 0-TD | 5-1/2" | 15.5# | J-55 | LTC | R-3 |

All strings of casing will be satisfactorily tested to 1000 psi.

CEMENT PROGRAM:

8-5/8" Surface Casing: Cemented to surface with 330 sx of Class C w/2% Calcium Chloride

5-1/2" Production Casing: Cemented with 830 sx Class C. Will attempt to circulate to surface.

6) PRESSURE CONTROL EQUIPMENT:

Install a 3000# 10" Shaffer double hydraulic BOP on the 8-5/8" casing prior to drilling into the Queen. Due to depleted nature of the reservoir, it is requested that a waiver be granted to test pressure control equipment to 1000 psi, using rig pump instead of the normal 2000 psi test. Exhibit D is a diagrammatic sketch of the BOP equipment.

7) CIRCULATING MEDIUM:

Drill with fresh water from surface to setting depth of surface casing. Drill remainder of hole with brine water, using additives to control water loss, viscosity and mud weight.

MASTER DRILLING PLAN PAGE 3

8) **AUXILIARY EQUIPMENT**:

Equipment will include a gas detector, pit level monitor and a full-opening safety valve.

9) TESTING, LOGGING AND CORING PROGRAM:

Samples: Samples will be caught at 10' intervals from below the

surface casing to total depth.

DST and Cores: None anticipated

<u>Logging</u>: Density-Neutron Log, Gamma Ray-Neutron Log

10) ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:

No abnormal pressure or temperatures anticipated. Precautions will be taken to monitor possible traces of hydrogen sulfide gas in the Grayburg. See H2S plan attachment.

11) ANTICIPATED STARTING DATE:

Drilling will commence upon Federal and State approval. Drilling and completion will require about 30 days.

CBS OPERATING CORP.

ATTACHMENT

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of person protective equipment and life support systems.
- 3. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probably H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

1. Well Control Equipment:

- A. Flare line with electronic igniter or continuous pilot.
- B. Choke manifold with a minimum of one remote choke.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head, and flare gun with flares.

2. Protective Equipment for Essential Personnel:

A. Mark II Surviveair 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S Detection and Monitoring Equipment:

- A. Two portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- B. One portable SO2 monitor positioned near flare line.

4. Visual Warning Systems:

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud Program:

- A. The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.
- B. A mud-gas separator and an H2S gas buster will be utilized.

6. Metallurgy:

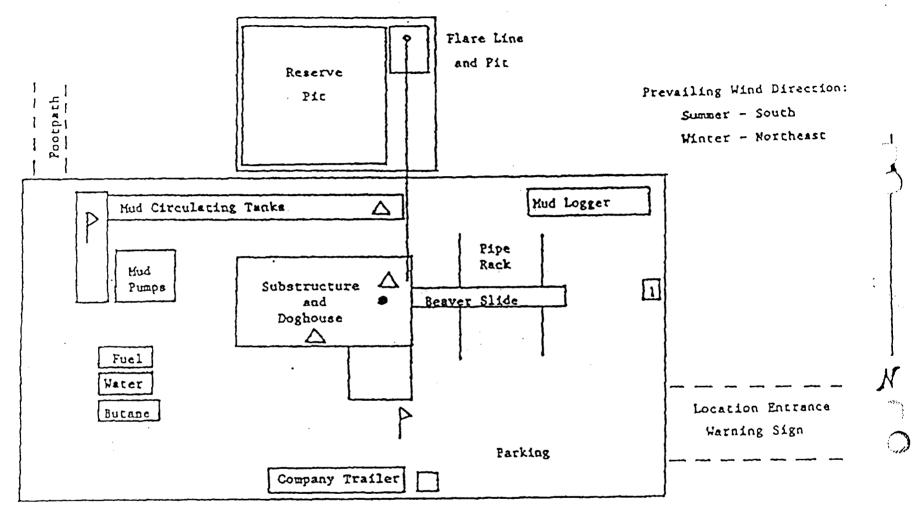
- A. All drill strings, casings, tubing, wellhead, blowout preventors, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and two-way radio.
- B. Land line (telephone) communications at field office.

8. Well Testing:

A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H2S environment will use the closed chamber method of testing.



- Wind Direction Indicators

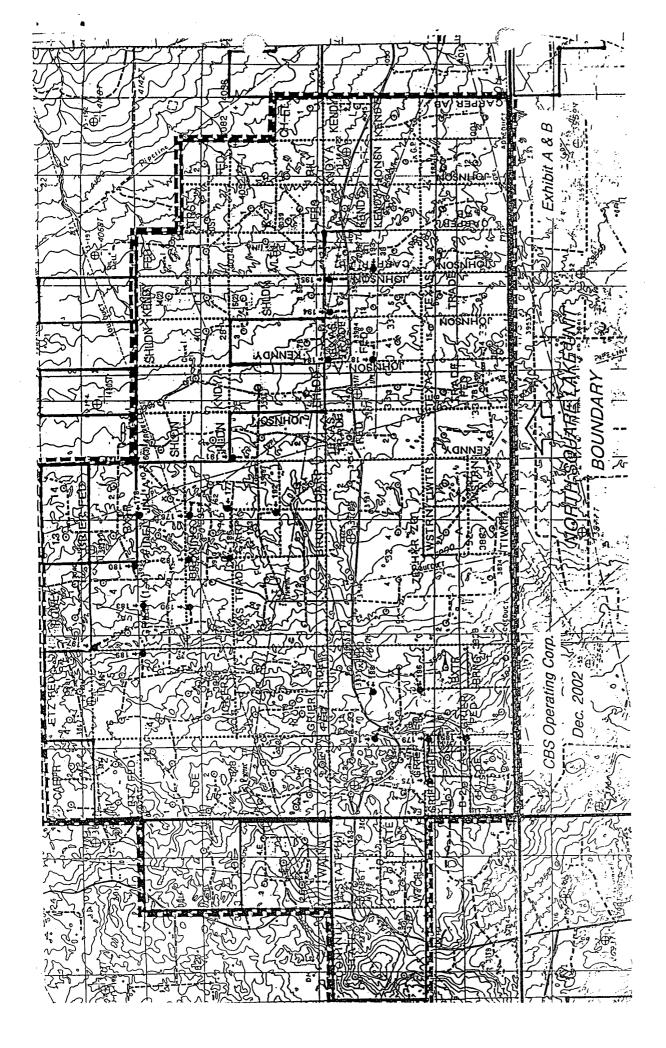
— Safe Briefing areas with caution signs and protective breathing equipment Min. 150 feel from wellhead. I designates primary area

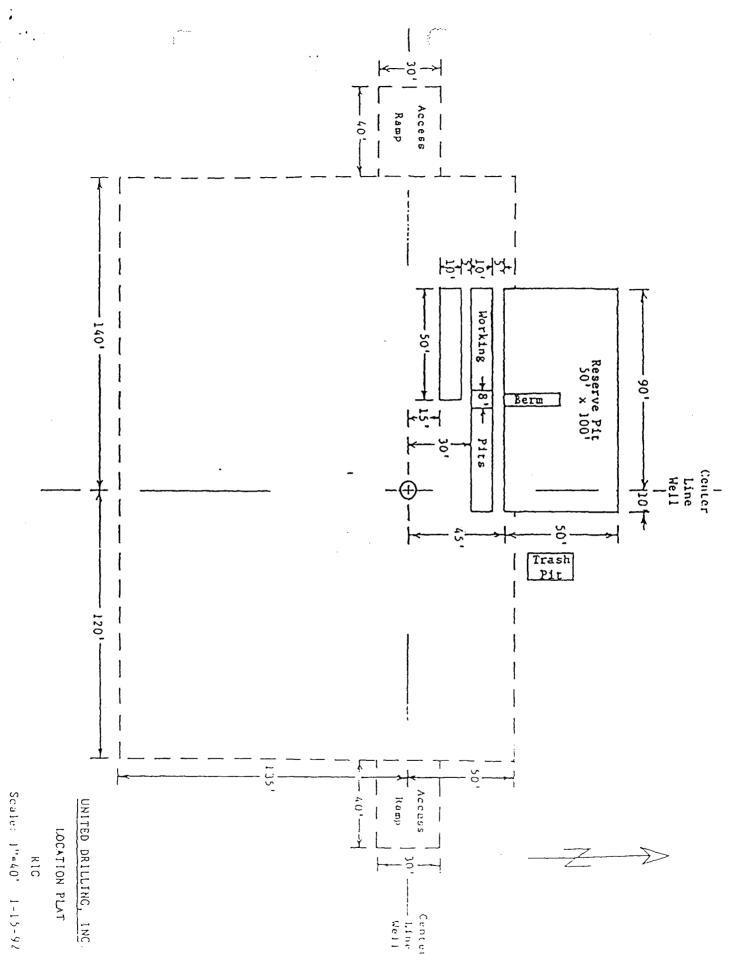
WARNING

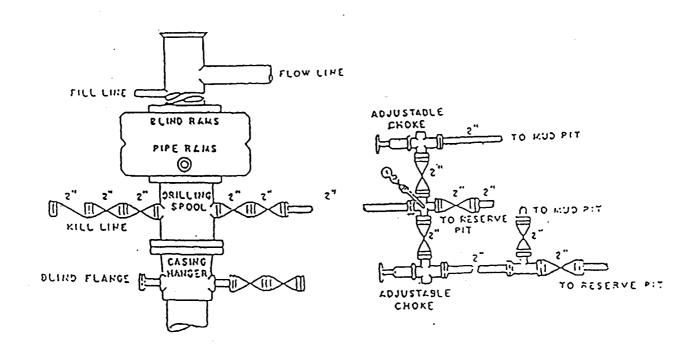
YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5 CHECK WITH CBS OPERATING BEFORE ENTERING

CBS Operating Corp. 1–915–685–0878







BOP DINGRAM

3000# Working Pressure Rams Operated Daily

Attachment to Exhibit D NOTES REGARDING THE BLOWOUT PREVENTERS

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

CBS OPERATING CORP.

P. O. BOX 2236, MIDLAND, TX 79702 432/685-0878 FAX 685-1945

July 28, 2003

VIA FAX 505/748-9720

NM OIL CONSERVATION DIVISION Energy, Minerals & Natural Resource Dept. 1301 W. Grand Ave. Artesia, New Mexico 88210

Attention: Mr. Bryan Arrant

Re: Hydrogen Sulfide Contingency Plan North Square Lake Unit Eddy County, NM

Dear Mr. Arrant:

Reference is made to that certain Master Drilling Plan filed by CBS Operating Corp. for the North Square Lake Unit. This plan was approved by the BLM on December 23, 2002.

This Master Drilling Plan contains a Hydrogen Sulfide Drilling Operations Plan. CBS currently feels that this plan is comprehensive with regard to H2S safety and that expected H2S levels in the field do not warrant an additional contingency plan at this time.

Sincerely,

M. A. Sirgo, III

MAS/pr