

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

Southland Royalty Company

## 3. ADDRESS OF OPERATOR

P. O. Drawer 570, Farmington, NM 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

J -1520\* FSL &amp; -1520\* FEL

At proposed prod. zone 1670 1525

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 1 1/4 miles west of Bloomfield, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

200'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

300'

## 16. NO. OF ACRES IN LEASE

713.69

## 19. PROPOSED DEPTH

6229'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320 S 314.97

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5492' GR

## 22. APPROX. DATE WORK WILL START\*

January 15, 1980

## 23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH        | QUANTITY OF CEMENT  |
|--------------|----------------|-----------------|----------------------|---------------------|
| 12 1/4"      | 8 5/8"         | 24#             | <del>200'</del> 200' | 140 Sacks CIRCULATE |
| 7 7/8"       | 4 1/2"         | 10.5#           | 6229'                | 204 Sacks (Stage 1) |
|              |                |                 |                      | 310 Sacks (Stage 2) |
|              |                |                 |                      | 236 Sacks (Stage 3) |

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 709'.

Top of Pictured Cliffs sand is at 1539'.

Fresh water mud will be used to drill from surface to total depth.

No abnormal pressures or poisonous gases are anticipated in this well.

It is expected that this well will be drilled before June 30, 1980. This depends  
on time required for approval, rig availability and the weather.

Gas is dedicated.

RECEIVED

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

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

TITLE District Engineer

DATE 12-17-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED  
AS AMENDED  
DATEJUN 14 1980  
JAMES F. SIMS  
DISTRICT ENGINEER

NMOCG

NWU-440

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-107  
Revised 10-1-78

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

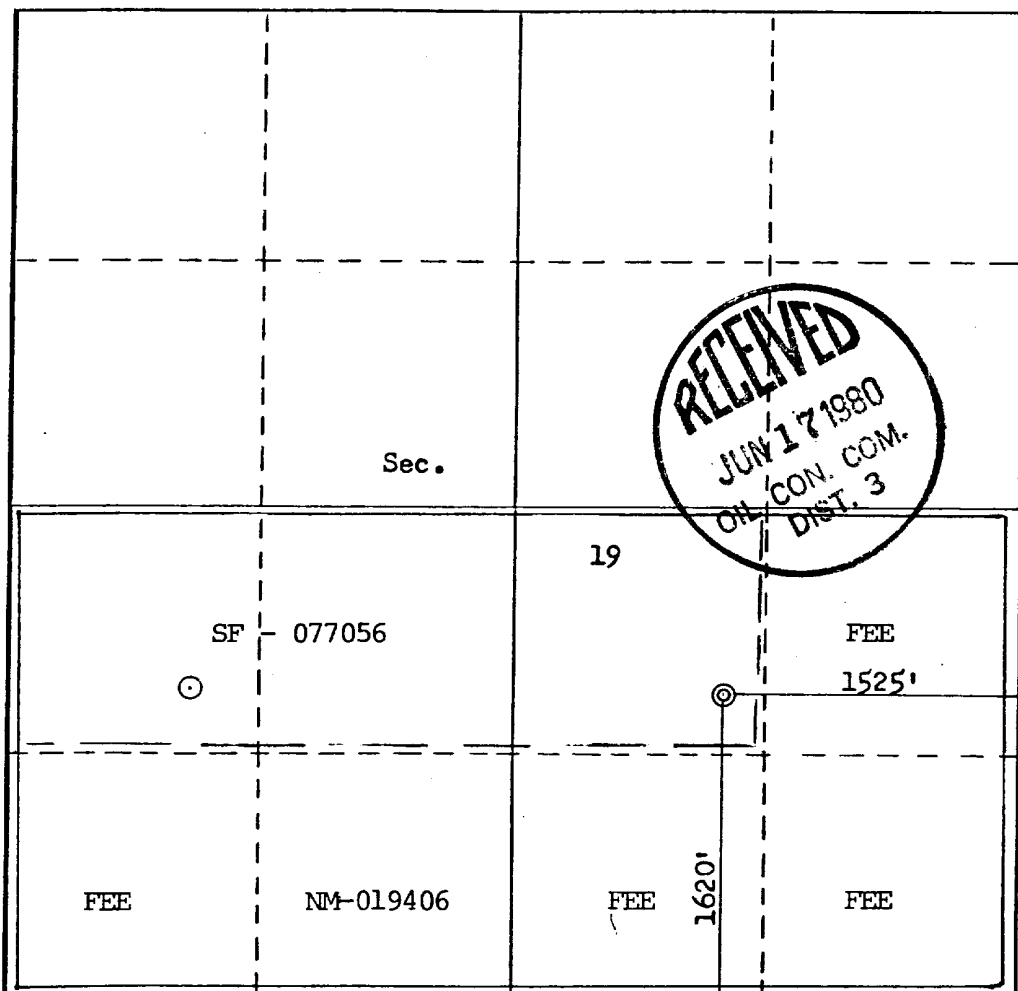
|  |                                      |                        |                             |                           |  |
|--|--------------------------------------|------------------------|-----------------------------|---------------------------|--|
| Operator<br><b>SOUTHLAND ROYALTY COMPANY</b>   |                                      |                        | Lease<br><b>COZZENS "B"</b> |                           | Well No.<br><b>1-E</b>                           |
| Unit Letter<br><b>J</b>  | Section<br><b>19</b>                 | Township<br><b>29N</b> | Range<br><b>11W</b>         | County<br><b>San Juan</b> |  |
| Actual Footage Location of Well:<br><b>1620</b> feet from the <b>South</b> line and <b>1525</b> feet from the <b>East</b> line |                                      |                        |                             |                           |  |
| Ground Level Elev.<br><b>5484</b>  | Producing Formation<br><b>Dakota</b> |                        | Pool<br><b>Basin Dakota</b> |                           | Dedicated Acreage:<br><b>320.3 3/4 .97</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 Communitized

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.



## CERTIFICATION

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

Name  
**Curtis C. Parsons**  
Position  
**District Engineer**  
Company  
**Southland Royalty Company**  
Date  
**April 28, 1980**

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  
**April 14, 1980**  
Registered Professional Engineer and/or Land Surveyor  
**Fred B. Kerr, Jr.**  
Certificate No.  
**3950**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other

2. NAME OF OPERATOR  
Southland Royalty Company

3. ADDRESS OF OPERATOR  
P. O. Drawer 570, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1620' FSL & 1525' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Re-Stake ☒

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

5. LEASE  
SF-077056

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Cozzens "B"

9. WELL NO.  
#1E

10. FIELD OR WILDCAT NAME  
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 19, T29N, R11W

12. COUNTY OR PARISH  
San Juan

13. STATE  
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5484' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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 locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Southland Royalty Company hereby requests permission to re-stake location from 1520' FSL & 1520' FEL to 1620' FSL & 1525' FEL.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

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

SIGNED [Signature] TITLE District Engineer DATE April 28, 1980

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

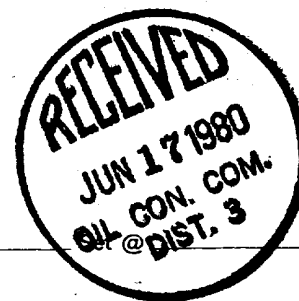
APPROVED

MAY 1 1980

JAMES F. SIMS  
DISTRICT OIL & GAS SUPERVISOR

\*See Instructions on Reverse Side

NMOCC



SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

C O Z Z E N S   " B "   # 1 E

1520' FSL & 1520' FEL  
Section 19, T29N, R11W  
San Juan County, New Mexico

Field: Basin Dakota

Elevation: 5447' GR

|                        |                 |       |             |       |
|------------------------|-----------------|-------|-------------|-------|
| <u>Formation Tops:</u> | Ojo Alamo       | 709'  | Gallup      | 5159' |
|                        | Fruitland       | 1304' | Graneros    | 5959' |
|                        | Pictured Cliffs | 1539' | Dakota      | 6079' |
|                        | Cliff House     | 3109' | Total Depth | 6229' |
|                        | Point Lookout   | 3869' |             |       |

Logging Program: IES and GR-Density from total depth to surface.

Coring Program: None

Natural Gauges: None

Drilling:

Contractor:

Tool Pusher:

SRC Rep.:

SRC Ans. Svc.: 325-1841  
Dispatch No.: 325-7391

Mud Program: Fresh water mud from surface to total depth.  
Maintain mud weight of 8.9 - 9.4; vis. of  
35 - 40 sec.; water loss of 10 - 12 cc.

Materials:

| Casing Program: | Hole Size | Depth | Casing Size | Wt. & Grade |
|-----------------|-----------|-------|-------------|-------------|
|                 | 12 1/4"   | 200'  | 8 5/8"      | 24# K-40    |
|                 | 7 7/8"    | 6229' | 4 1/2"      | 10.5# K-55  |

Float Equipment:

8 5/8" Surface Casing: Pathfinder type "A" guide shoe.

4 1/2" Production Casing: Pathfinder type "A" guide shoe. Self-fill flapper type float collar run 1 joint off bottom. 5 Pathfinder bow type stabilizers. Run Dowell stage tools at 4270' and 1740'. Run 1 cement basket below and 5 Pathfinder rigid stabilizers above each tool.

Wellhead Equipment:

8 5/8" x 10", 2000# bradenhead with 4 1/2" casing hanger.

10", 2000# x 6", 2000# tubing head and tree.

Cementing:

- 8 5/8" Surface Casing: 140 sacks (165 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3%  $\text{CaCl}_2$ . WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)
- 4 1/2" Production Casing: STAGE ONE - 204 sacks (305 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack, followed by 50 sacks of neat with 2%  $\text{CaCl}_2$ . (Volume is 25% to cover top of Gallup.)
- STAGE TWO - 266 sacks (397 cu. ft.) of 50/50 Poz with 6% gel, followed by 50 sacks of neat with 2%  $\text{CaCl}_2$ . (Volume is 50% excess to cover the Cliff House.)
- STAGE THREE - 236 sacks (352 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% excess to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

---

L. O. Van Ryan  
District Production Manager

BJM/ke



**Southland Royalty Company**

December 17, 1979

United States Geological Survey  
Mr. James Sims  
P. O. Box 959  
Farmington, NM 87401

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Cozzens "B" #1E well.

The locations of tank batteries and flow lines will be on location with well. A burn pit will be provided for disposal of trash. Cuttings, drilling fluid and produced fluids will be put into the reserve pit and properly disposed of depending on amount and type of fluids.

There will be no camps or airstrips.

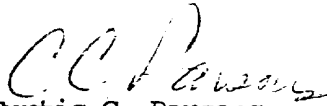
Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.

Water supply will be the San Juan River.

The location will be restored according to Bureau of Land Management standards. This work will begin when all related construction is finished.

Mr. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

  
Curtis C. Parsons  
District Engineer

CCP/ke



**Southland Royalty Company**

United States Geological Survey  
Mr. James Sims  
P. O. Box 595  
Farmington, NM 87401

Dear Sir:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Southland Royalty Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

December 17, 1979

Date:

L. O. Van Ryan  
District Production Manager

LOVR/ke



**Southland Royalty Company**

December 17, 1979

United States Geological Survey  
Mr. James Sims  
P. O. Box 959  
Farmington, NM 87401

RE: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double hydraulic blowout preventers and a hydraulic closing unit with steel lines.

The preventer is 3000# working pressure and 6000# test pressure.

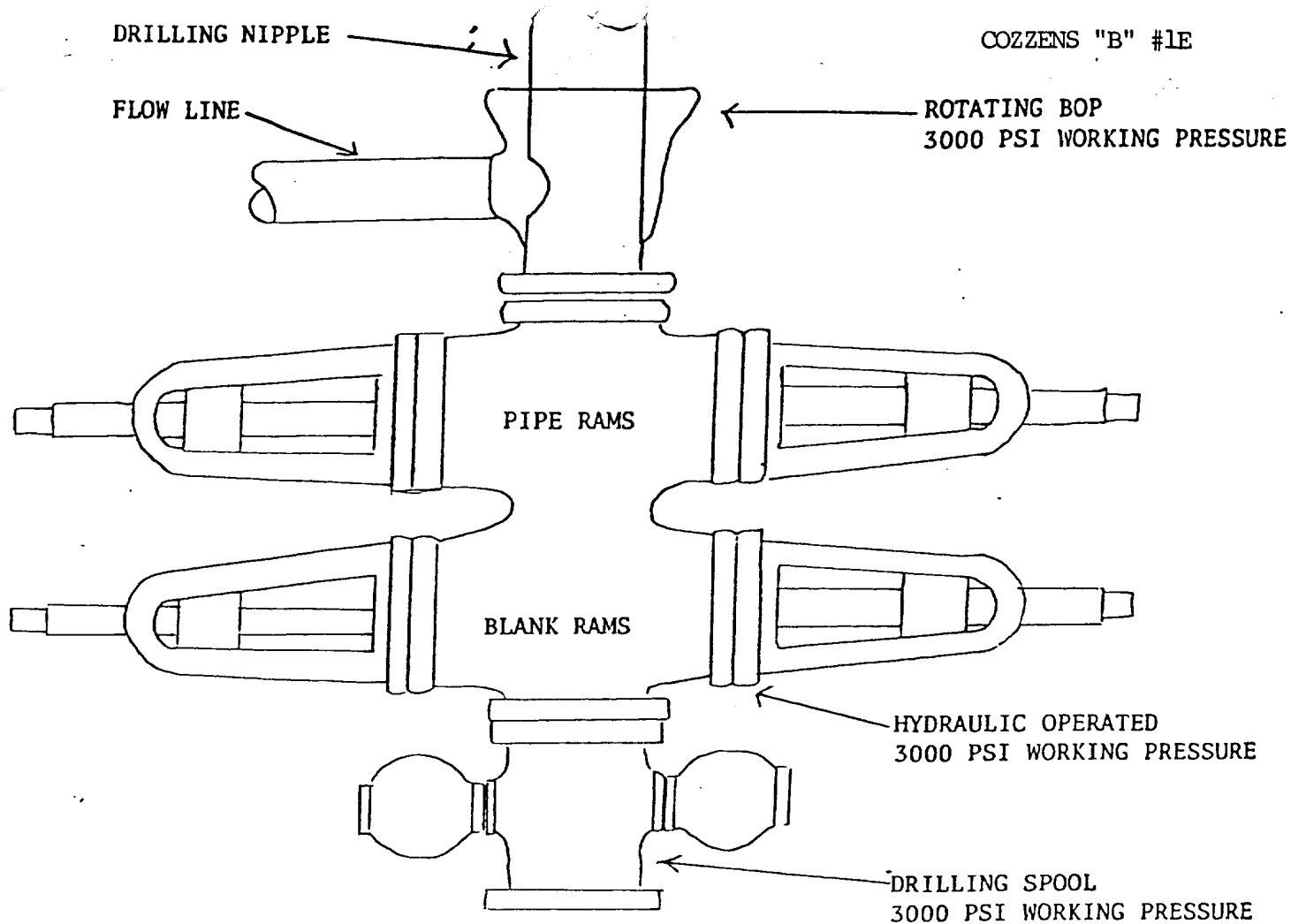
All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

Yours truly,

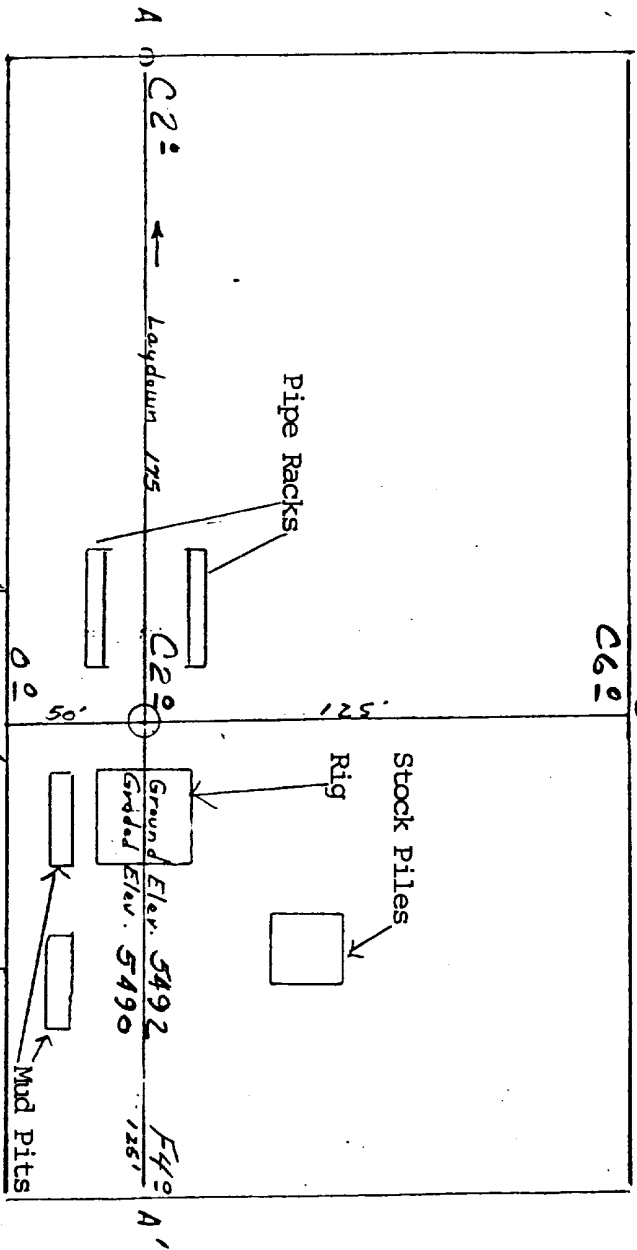
Curtis C. Parsons  
District Engineer

CCP/ke



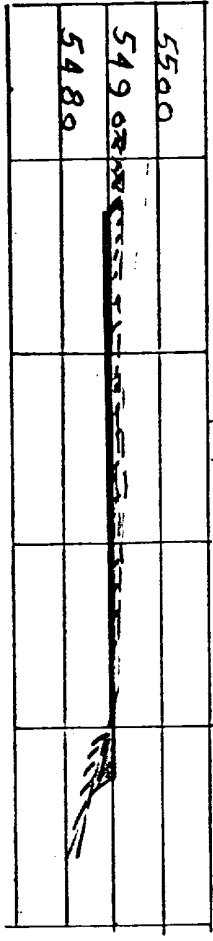


PREVENTERS AND SPOOLS ARE TO HAVE  
THROUGH BORE OF 6" - 3000 PSI OR LARGER

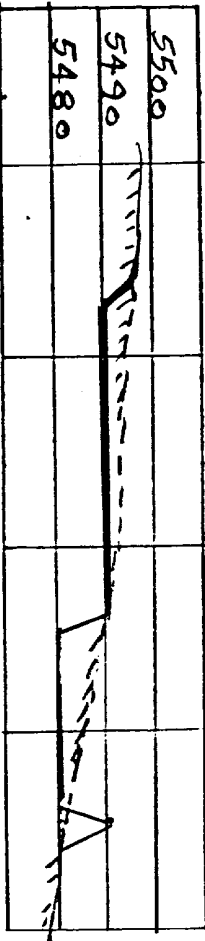


Scale: 1" = 50'

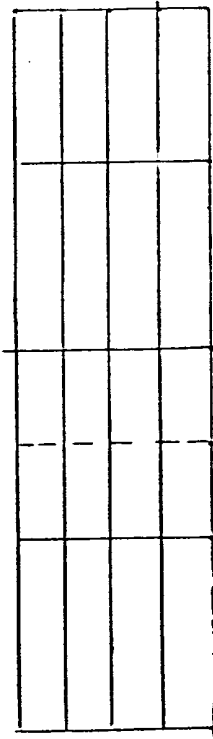
Vert. 1"=40'      A-A'      Horiz: 1"=100'



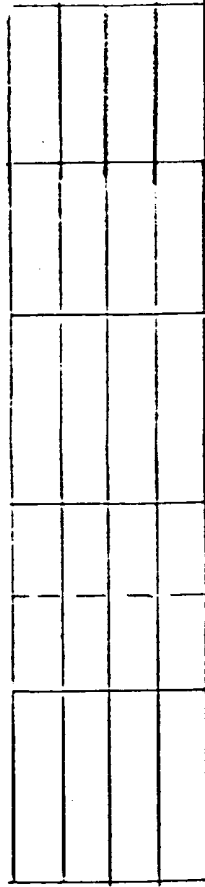
B-B'



Vert: 1"=40'      C-C'      Horiz: 1"=100'



D-D'



*[Signature]*

R. 12 W. 2'30"

R. 11 W.

765

766

767 450 000 FEET

108°00'

36°45'

