

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-23115

## 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 ☐

JAN - 3 1980

SINGLE  
ZONES ☐MULTIPLE  
ZONES ☐

2. NAME OF OPERATOR

Rhonda Operating Company

O. C. D.

3. ADDRESS OF OPERATOR

511 North Main; Midland, Texas 79701

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

At surface

330' FNL &amp; 380' FWL

At proposed prod. zone

330' FNL &amp; 380' FWL

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

4 miles South and 8 miles East of Artesia, New Mexico

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

330' FNL &amp;

380' FWL

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

50' Well

to be plugged

19. PROPOSED DEPTH

6250'

20. ROTARY OR CABLE TOOLS

Rotary

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

3620'

22. APPROX. DATE WORK WILL START\*

12/28/79

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"-11"	8-5/8"	22#	1600' 400'	850 sacks
7-7/8"	5-1/2"	17#	6250'	150 sacks

- Exhibit A BLM Quad color maps Nos. SE23 & SE24  
 Exhibit B Portion of USGS Topographic map of area  
 Exhibit C Eddy County, New Mexico ownership map  
 Exhibit D Well pad dimension and reserve pit diagrams  
 Exhibit E Blow-out preventer diagram  
 Exhibit F Mud Program  
 Exhibit G Drilling Rig equipment description  
 Exhibit H New Mexico Oil Conservation Commission Form C

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U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

Agent

DATE 12/10/79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

1-2-80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 10-65

All distances must be from the outer boundaries of the Section

Operator <b>RHONDA OIL COMPANY</b>			Lease <b>Federal EA</b>			Well No. <b>3</b>		
Tract Letter <b>D</b>	Section <b>12</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>				
Actual Portage Location of Well: <b>330</b> feet from the <b>North</b> line and <b>380</b> feet from the <b>West</b> line								
Ground Level Elev. <b>3607.2</b>	Producing Formation <b>ABO</b>		Pool <b>Indep. Abo</b>			Dedicated Acreage <b>40 <del>160</del></b>		

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?

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**JAN - 3 1980**

**O. C. D.**

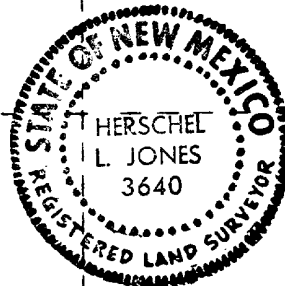
**ARTESIA, OFFICE**

☐ 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.

	<p align="center"><b>EXHIBIT H</b></p> <p align="center">Rhonda Operating Company "EA" Federal Lease, Well #3 330' FNL &amp; 380' FWL Section 12, T-18-S, R-27-E Eddy County, New Mexico</p>
	<p align="center"><b>RECEIVED</b></p> <p align="center"><b>DEC 11 1979</b></p> <p align="center"><b>U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO</b></p>



**CERTIFICATION**

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

Name  
**H. Scott Davis - Agent**  
Position  
**Rhonda Operating Company**  
Company  
**December 10, 1979**  
Date

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  
**December 3, 1979**  
Registered Professional Engineer  
and/or Land Surveyor  
  
Certificate No.  
**3640**



United States Department of the Interior

GEOLOGICAL SURVEY  
P. O. Drawer U  
Artesia, New Mexico 88210

IAN - 3 1980

RECEIVED  
JAN - 3 1980

O. C. D.  
ARTESIA, OFFICE

O. C. D.  
ARTESIA, OFFICE

IAN 0 2 1980

Rhonda Operating Company  
511 North Main  
Midland, Texas 79701

Gentlemen:

RHONDA OPERATING CO.  
Federal "EA" No. 3  
330 FNL 380 FWL Sec. 12 T.18S R.27E  
Eddy County Lease No. NM 6852

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 6,250 feet to test the Abo formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
5. Cement behind the 8-5/8" casing must be circulated.
6. Notify Survey in sufficient time to witness the cementing of the 8-5/8" and 5-1/2" casing.
7. Special stipulations: This location is approved at 380 FWL (BLM).



8. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

GEORGE H. STEWART

George H. Stewart  
Acting District Engineer

## APPLICATION FOR DRILLING

Rhonda Operating Company  
"EA" Federal Well No. 3  
330' FNL and 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Rhonda Operating Company submits the following ten items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is Permian.
2. The estimated tops of geologic markers are as follows:

Queen	1015'
San Andres	1954'
YESO	3518'
ABO	5210'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water:	N.A.
Oil or gas:	YESO: approximately 3010' to 3550'
	ABO: approx. 4950' to 6250'

4. Proposed Casing Program: See Form 9-331C.
5. Pressure Control Equipment: See Form 9-331C and Exhibit E.
6. Mud Program: See Exhibit D
7. Auxiliary Equipment: See Exhibit H.
8. Testing, Logging and Coring Programs:

Drill stem tests (all DST's to be justified by a valid show of oil):

ABO 5210'-6250'

Logging:

Logging unit from 5000' (basal ABO) to TD.

Electric Log Program:

Neutron Porosity Log

Dual Induction Laterolog

9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Rhonda Operating Company

"EA" Federal Well No. 3

330' FNL and 380' FWL

Section 12, T-18-S, R-27-E

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U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

This plan is submitted with Form 9-331C, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS.

- A. Exhibit A is composite BLM Quad-Color maps nos. SE-23 and SE-24. Exhibit B is a portion of a USGS topographic map of the area on a scale of approximately 2.65 inches to the mile, showing the location of the proposed wellsite, and roads in the vicinity. The proposed location is situated approximately 8 miles East and 4 miles South of Artesia, New Mexico, via the access route shown in red.

DIRECTIONS:

1. Proceed North from Carlsbad on 6213 for  $\pm$  20 miles.
2. Turn Left (Northwest) and continue for .4 miles.
3. Proceed West on meandering existing road 1.6 miles to location.

2. PLANNED ACCESS ROAD.

- A. Well site is located on an existing road and no additional access will be required.

3. LOCATION OF EXISTING WELLS.

- A. The well locations in the vicinity of the proposed well are shown in Exhibit C.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

- A. There is no producing well on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY.

- A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibits A and B.

6. SOURCES OF CONSTRUCTION MATERIALS.

- A. Any caliche required for construction of the drilling pad and the new access road will be obtained from an existing pit on federally owned surface shown of Exhibit B.

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the USGS for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in the reserve pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES.

- A. None required.

9. WELL SITE LAYOUT.

- A. Exhibit D shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- B. The ground surface at the drilling location is sloping down toward the North. No cutting will be required to level the pad area, which will be covered with at least six inches of compacted caliche.

10. PLANS FOR RESTORATION OF THE SURFACE.

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. TOPOGRAPHY.

- A. The wellsite and access route are located in a hilly area.
- B. The top soil at the wellsite is rocky.
- C. The vegetation cover at the wellsite is moderately sparse, with prairie grasses, some yucca, and miscellaneous weeds.
- D. No wildlife was observed but it is likely that rabbits, lizards, insects, and rodents traverse the area.
- E. There are no ponds, lakes, streams, or rivers within several miles of the wellsite.
- F. The wellsite is located on federal surface.
- G. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.



12. OPERATOR'S REPRESENTATIVES.

- A. The field representatives responsible for assuring compliance with the approved surface use plan are:

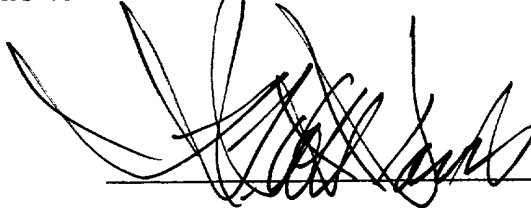
Scott Davis  
Rhonda Operating Company  
511 North Main  
Midland, Texas 79701  
Phone: (915) 682-5346 (office)  
(915) 697-3812 (home)

Ralph H. Viney  
Rhonda Operating Company  
511 North Main  
Midland, Texas 79701  
Phone: (915) 682-5346 (office)  
(915) 683-1003 (home)

13. CERTIFICATION.

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 Rhonda Operating Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

12/10/79  
DATE

A handwritten signature in black ink, appearing to be "R. Viney", written over a horizontal line.

RHONDA OPERATING COMPANY  
SUMMARY

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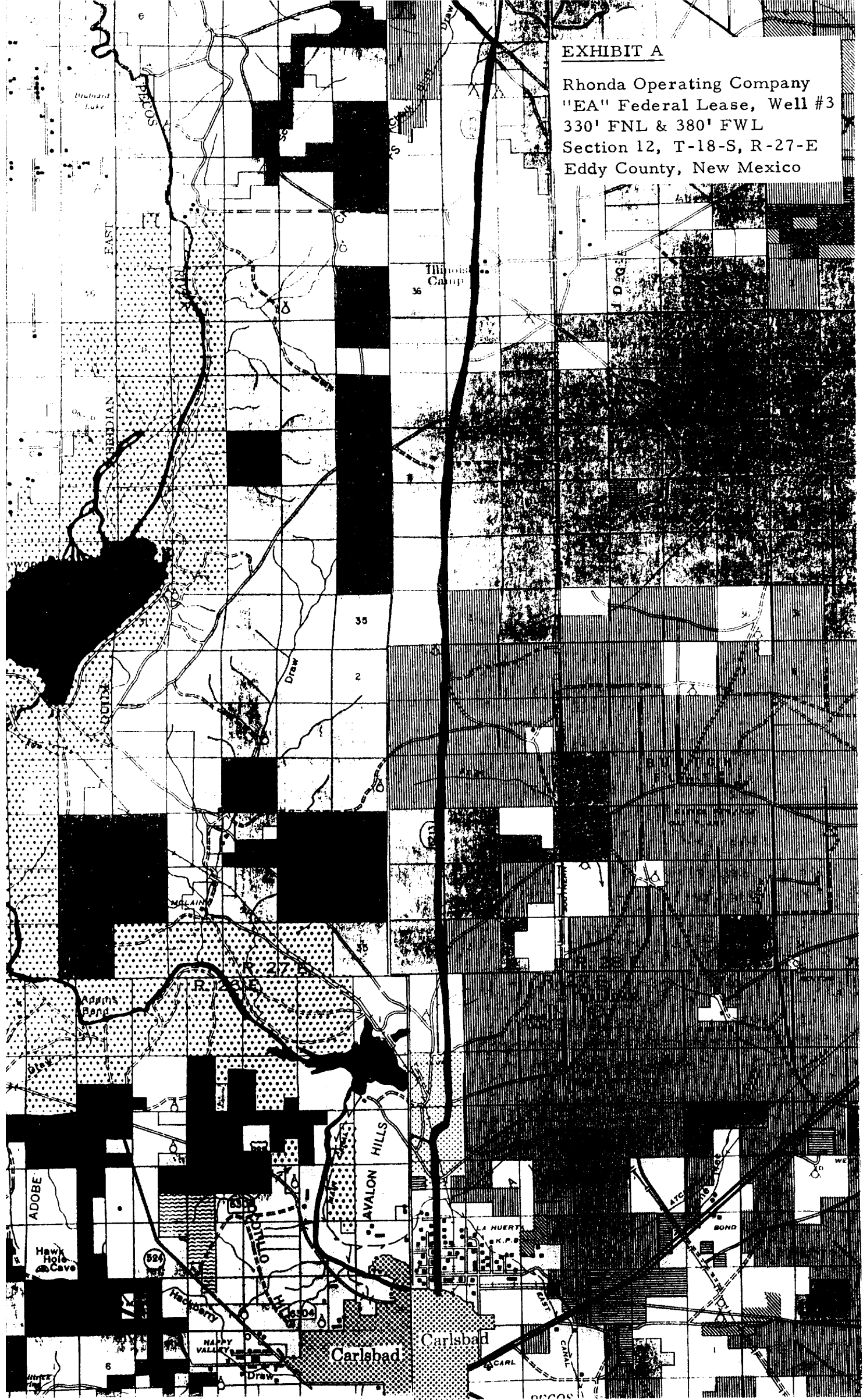
Drilling, Drill Stem Tests, Casing and Cementing Program

1. Drill 12-1/4" hole to 1600'.
2. Cement 8-5/8", 24# J-55 casing with Class "C" HOWCO "Thickset", followed by HOWCO Lite containing Gilsonite and Flocele, and tail in with Class "C" containing 2% CaCl<sub>2</sub> and Flocele. Run combination Guide-Shoe with an insert float valve. Weld first two joints of casing. Use wooden plug to displace cement.
3. Release pressure immediately, nipple up and install BOP's. Test casing to 600 psi after 12 hours and drill out cement.
4. Drill 7-5/8" hole to TD.
5. Cement 5-1/2", 15.5 & 17# J-55 casing with Class "C". Run guide shoe and insert float on bottom joint, and 6-10 centralizers. Weld first few joints of casing. Use one wooden plug to displace cement.
6. Release pressure immediately, nipple up and install BOP's. Test casing to 1500 psi for 30 minutes after WOC 18 hours and drill out cement after 24 hours.
7. Drill 7-7/8" hole to TD at 6250'. A fresh water mud system will be used to 5000'. At that point the system will be mudded up to 9.5-10#/gal. to obtain good samples.  
  
DST flow periods and shut-in time will be determined on location. A mud logging unit will be on location at 5000' to assist in evaluating samples and shows for exact drill stem test intervals. Run Formation Logs.
8. Run 5-1/2", 17# casing and cement. Use guide shoe and float collar and 18-24 centralizers where necessary. Use top and bottom rubber plugs, displace cement with clean, fresh water treated with 2% KCl and non-emulsifying agent (2 gals. NE per 1000 gals. water).
9. Perforations, acid job, and additional stimulation to be determined after completion.

H. Scott Davis  
Drilling Superintendent  
Rhonda Operating Company

EXHIBIT A

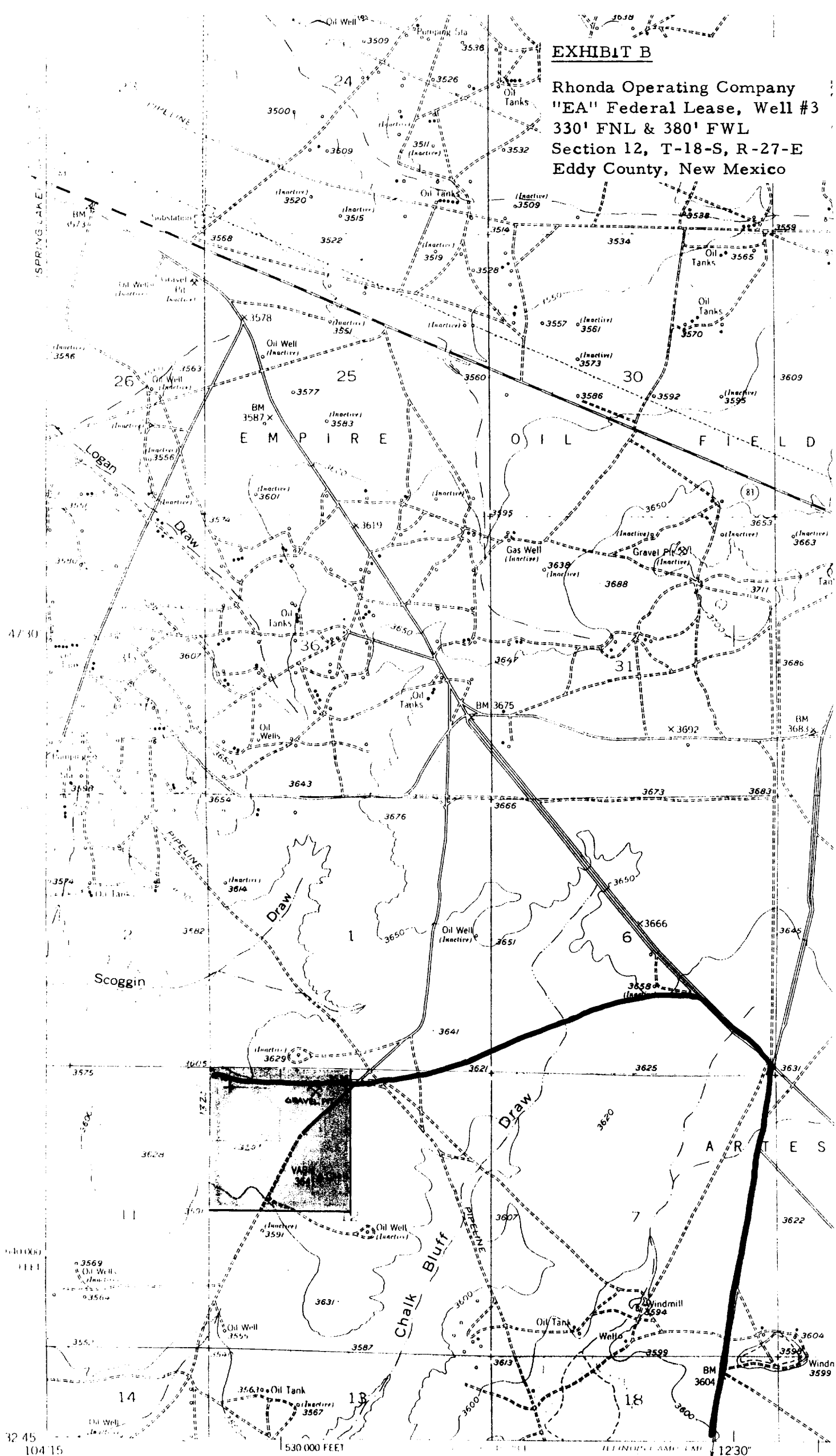
Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico



11.13

EXHIBIT B

Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico



Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico

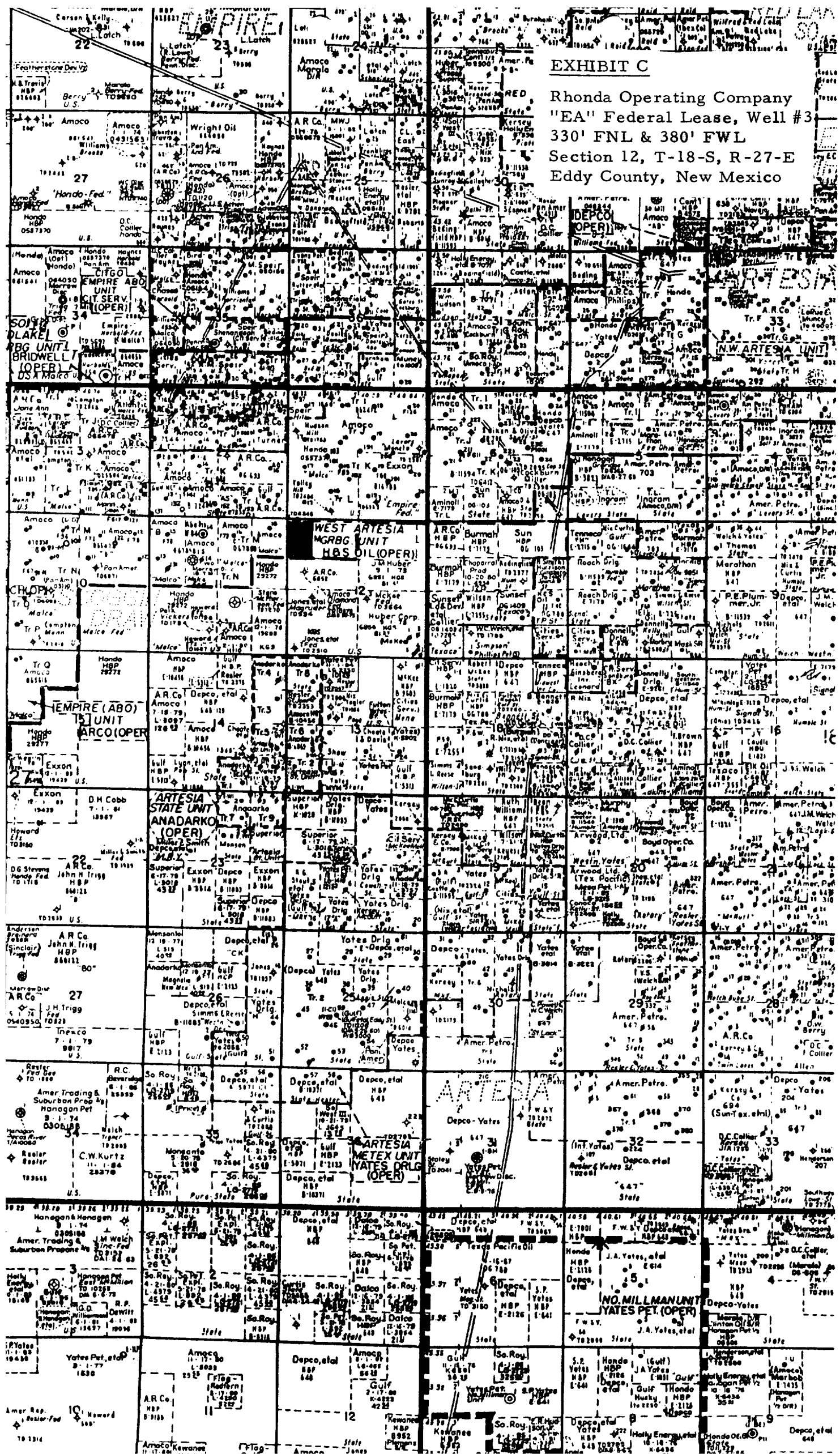


EXHIBIT D

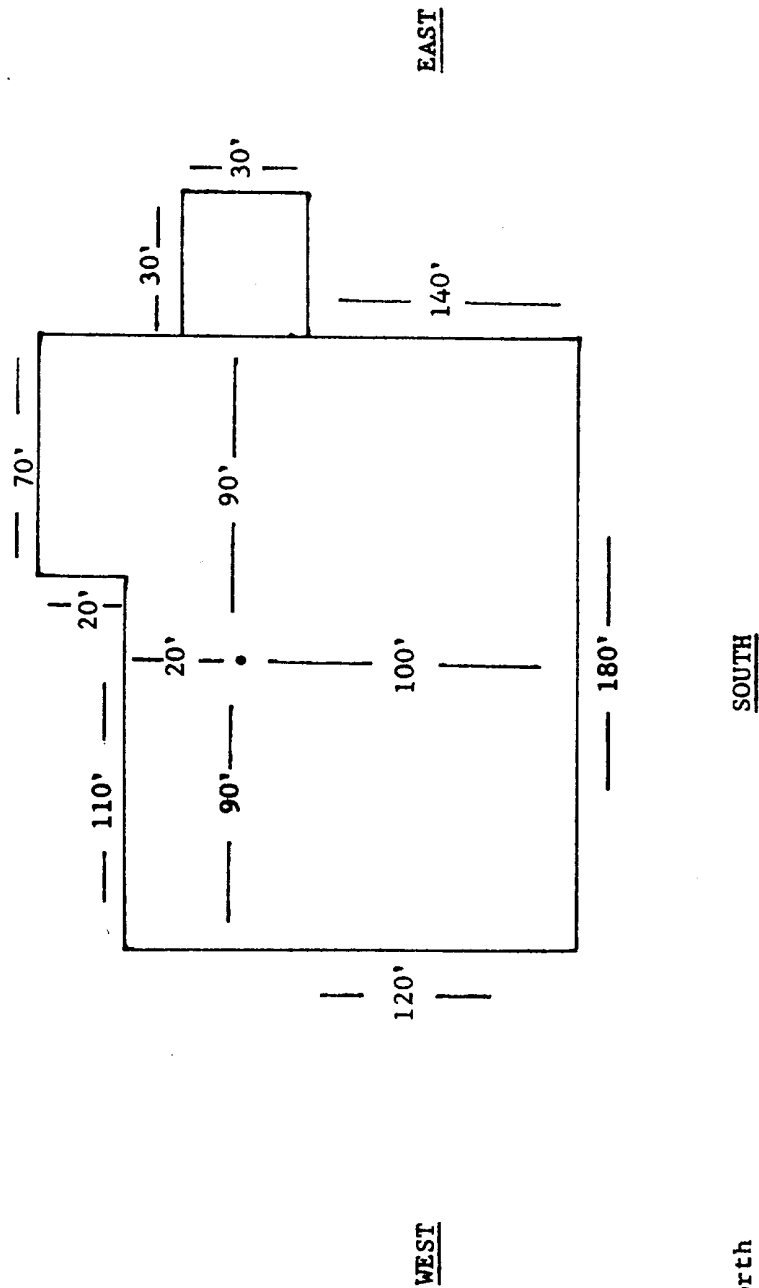
Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico

RIG PAD LAY OUT

DERRICK RIGS / CACTUS DRILLING COMPANY

RIG 67

NORTH



PITS:  
41' North  
53' West  
12' Offset North  
10' Offset East  
80' X 80' Reserve Pit

Fig #67

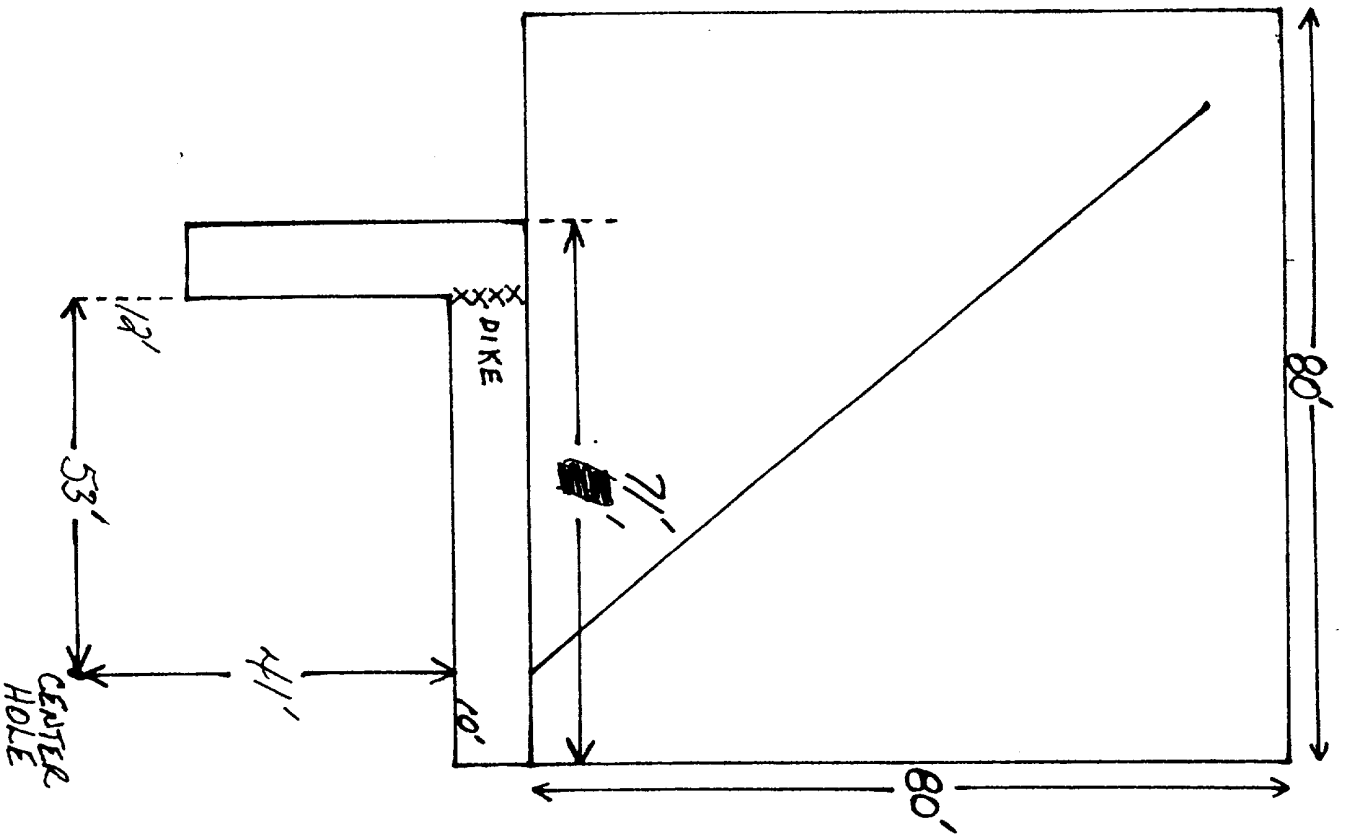
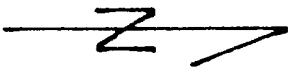
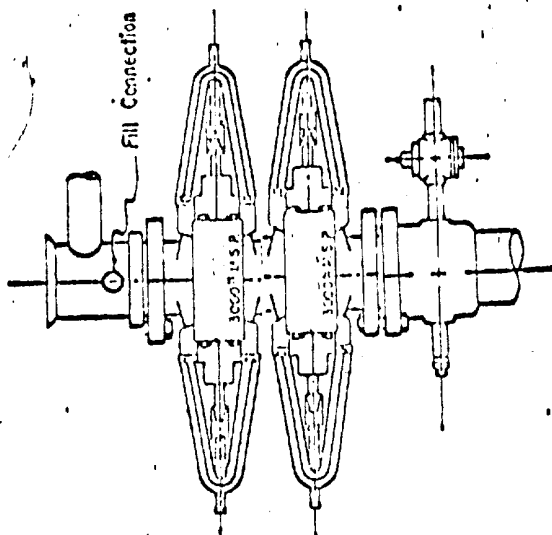


EXHIBIT E

Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico

Shaffer Type E Series 900  
Hydraulic B.O.P.



3,000 PSI WORKING PRESSURE  
BLOWOUT PREVENTER HOOK-UP

Series 900 Flanges, or Better





POST OFFICE BOX 5525

/ MIDLAND, TEXAS 79701

/ (915) 682-6872

EXHIBIT A  
Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico

Company Ralph Viney & AssociatesDate 11-19-79

Well name

& number Federal LeaseProposed Depth 8500Location Section 12 Twn. 18 Range 27 County Eddy State New MexicoCasing: Surf. 8 5/8 at 2750

Inter. \_\_\_\_\_

Prod. 5 1/2 at 8500

RECOMMENDED MUD PROPERTIES			
Depth	Weight	Viscosity	Filtrate
Feet	LB/Gal	Sec.	ml.

## TREATMENT

0-2750	8.4	34-38	N.C.
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Spud mud. Fresh water gel flocculated with Lime for desired viscosity.

2750-5600	8.4	Min.	N.C.
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Fresh water, lime for PH 10-10.5. Paper for seepage.

5600-6000	8.4	Min.	N.C.
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Cut brine, mud weight 8.6-9.0 ppg, add 3-5% KCL to system.

6000- Total Depth	8.6-9.0	32-34	8-10cc
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Mud up with Drispac - starch. Treat total hardness down to 5 EPM with Soda Ash. Filtrate 10cc or less with Drispac (1/2-lppb) and starch (3ppb).

Estimated cost for mud materials: \$12,000. to \$14,000 without severe hole problems.

Recommended Program based Upon

The above recommendations are statements of opinion only, and are made without any warranty of any kind as to performance and without assumption of any liability by Mesa Mud Company., or its agents.



POST OFFICE BOX 5525

MIDLAND, TEXAS 79701

(915) 682-6872

November 20, 1979

Mud Program

0 - 2750 (2000)

Spud Mud. Fresh Water Gel Flocculated with Lime for desired viscosity to prevent hole wash out of the surface. Possible seepage in Water Sands 90', 200', and 350'.

2750 - 5600'

Fresh Water. Paper for seepage, Lime for PH. 10-10.5. At 5600 start adding KCL to system for 3-5% content and continue to total depth. Also, add Brine to system to raise mud weight to 8.8 - 9.0 ppg.

6000 - Total Depth

Suggest Mud-Up with Drispac - Starch. Treat total hardness to 5epm with Soda Ash (1-2ppb). Filtrate 10cc or less with Drispac ( $\frac{1}{2}$ -1ppb) and Starch (3ppb). If viscosity becomes necessary, add Salt Water Gel 10-12ppb and Sea Mud 3-4ppb.



POST OFFICE BOX 5525

MIDLAND, TEXAS 79701

(915) 682-6872

November 20, 1979

Casing Program

- I. 8 5/8 at 2750 Set in lower San Andres.
- II. 8 5/8 at 2000' Set in upper San Andres.

Suggest set casing in lower San Andres due to the water injection wells in the area.

Estimated Tops

Tansil	90
Yates	200
7 Rivers	380
Queen	1020
San Andres	1887
ABO	6200
Wolfcamp	6697
Penn	7590
Canyon	8080
Strawn	8650

RICHARDSON, TEXAS 75080  
P. O. BOX 1239  
(214) 234-0102

HOBBS, NEW MEXICO  
P. O. BOX 2068  
(505) 393-2146

## CACTUS DRILLING COMPANY

905 SOUTH CECIL  
HOBBS, NEW MEXICO 88240

### EXHIBIT G

Rhonda Operating Company  
"EA" Federal Lease, Well #3  
330' FNL & 380' FWL  
Section 12, T-18-S, R-27-E  
Eddy County, New Mexico

### RIG NO. 67

CAPACITY - 3,000' to 6,500'

DRAWWORKS:	NATIONAL T-32 POWERED BY TWO 6-71 GM TWIN DIESELS INPUT HORSEPOWER - 454
DERRICK:	98' LEE C. MOORE CAPACITY 400,000#
SUBSTRUCTURE:	9' KB 12.00'
MUD PUMP:	IDECO MM550F W/FORGED STEEL FLUID END 7-1/4" X 15" RATED H.P. - 550 POWERED BY D-379 CATERPILLAR 502 HORSEPOWER
B.O.P.:	10" CAMERON SS SERIES 900 DOUBLE HYDRAULIC W/PAYNE CLOSING UNIT
WATER STORAGE:	500 BARRELS
TRAILER HOUSE:	15' MOBILE HOME
DRILL PIPE:	3-1/2" IF - GRADE E
DRILL COLLARS:	6-1/2" X 31'

24 HOUR RADIO COMMUNICATION