

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                 |  |                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|
| 1a. TYPE OF WORK<br><b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>                           |  | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>LC-054908</b>               |  |
| b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                                                |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                  |  |
| 2. NAME OF OPERATOR<br><b>Ray Westall</b>                                                                                                                                       |  | 7. UNIT AGREEMENT NAME                                                |  |
| 3. ADDRESS OF OPERATOR<br><b>P.O. Box 4, Loco Hills, NM 88255</b>                                                                                                               |  | 8. FARM OR LEASE NAME<br><b>Hudson Federal</b>                        |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface <b>330' HFT &amp; 930' FEL</b><br>At proposed prod. zone <b>same</b> |  | 9. WELL NO.<br><b>7</b>                                               |  |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br><b>4 miles East of Loco Hills</b>                                                                      |  | 10. FIELD AND POOL, OR WILDCAT<br><b>Gbr. Jackson Q-GB-SA</b>         |  |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line if any) <b>330'</b>                                                |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br><b>18-17S-31E</b> |  |
| 16. NO. OF ACRES IN LEASE<br><b>80</b>                                                                                                                                          |  | 12. COUNTY OR PARISH<br><b>Eddy</b>                                   |  |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br><b>40</b>                                                                                                                             |  | 13. STATE<br><b>NM</b>                                                |  |
| 18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.<br><b>3500'</b>                                                   |  | 19. PROPOSED DEPTH<br><b>3500'</b>                                    |  |
| 20. ROTARY OR CABLE TOOLS<br><b>Rt.</b>                                                                                                                                         |  | 21. APPROX. DATE WORK WILL START*<br><b>10-15-88</b>                  |  |
| 22. ELEVATIONS (Show whether DF, LT, GR, etc.)<br><b>3600' Gr. 3701 Gr.</b>                                                                                                     |  |                                                                       |  |

## 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#             | 350'          | 275 sxs circulated |
| 7-7/8"       | 5 1/2"         | 17#             | 3500'         | 600 sxs circulated |

We propose to drill and test the San Andres and intermediate formations. Approximately 350' of new 8-5/8" casing will be set above top of salt, and circulate with cement. Fresh water will be used to drill the surface and brine water will be used to drill the production hole. 5 1/2" production casing will be run and circulated to surface with cement.

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.

SIGNED [Signature] TITLE Geologist DATE 9/26/88  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY [Signature] TITLE Acting DATE 10-26-88  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-79

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

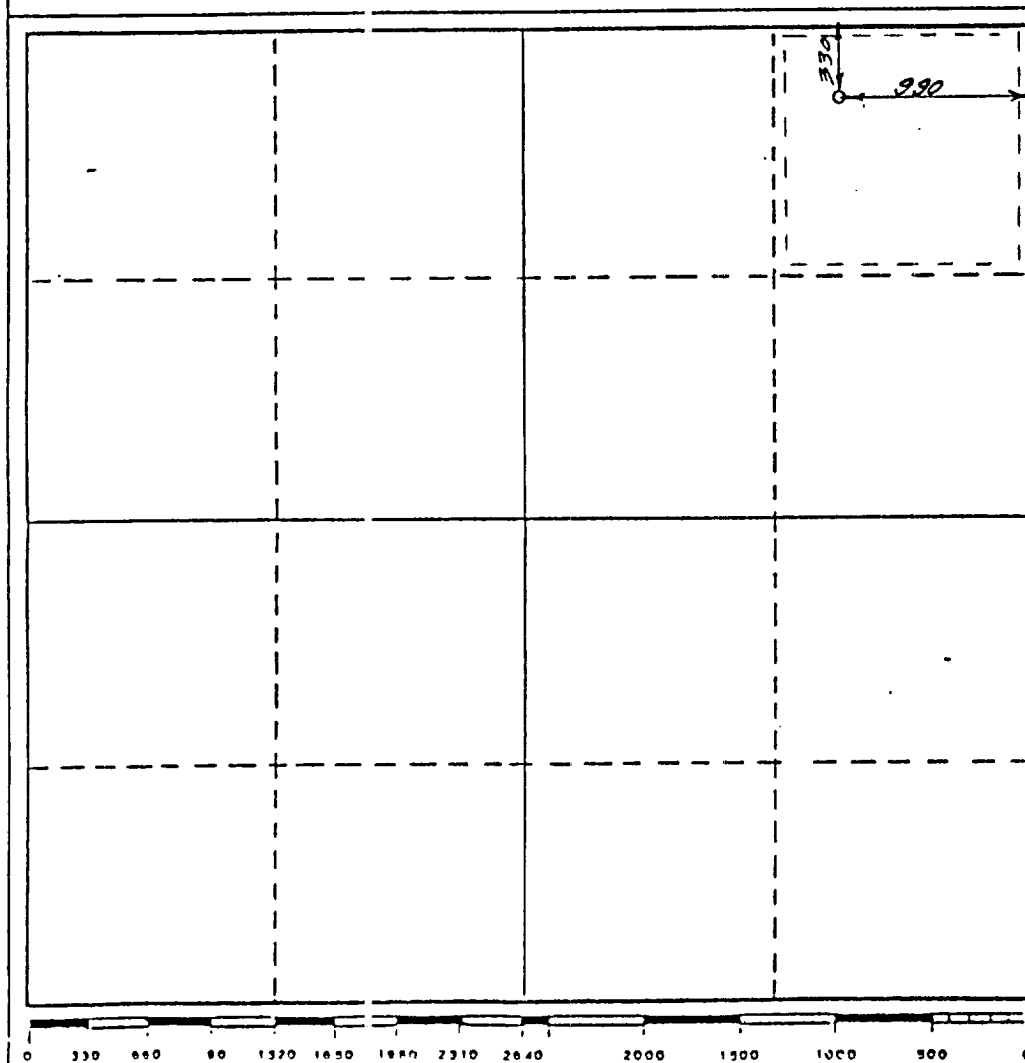
|                                   |                                         |                                 |                                      |                        |
|-----------------------------------|-----------------------------------------|---------------------------------|--------------------------------------|------------------------|
| Operator<br><b>Ray Westall</b>    |                                         | Lease<br><b>Hudson Federal</b>  |                                      | Well No.<br><b>7</b>   |
| Unit Letter<br><b>A</b>           | Section<br><b>18</b>                    | Township<br><b>17 South</b>     | Range<br><b>31 East</b>              | County<br><b>Eddy</b>  |
| Actual Footage Location of Well:  |                                         |                                 |                                      |                        |
| 330 feet from the                 |                                         | North                           | line and                             | 990 feet from the East |
| Ground Level Elev.<br><b>3701</b> | Producing Formation<br><b>Qn-G B-SA</b> | Pool<br><b>Grayburg Jackson</b> | Dedicated Acreage<br><b>40</b> Acres |                        |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 \_\_\_\_\_

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 Division.



## CERTIFICATION

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

 Name  
**RANDALL L. HARRIS**  
 Position  
**GEOLOGIST**  
 Company  
**RAY WESTALL**  
 Date  
**9-26-88**

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.

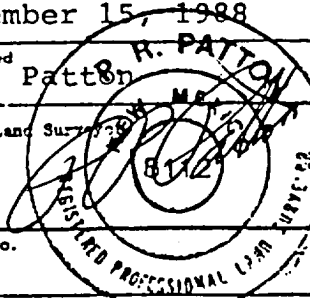
September 15, 1988

 Date Surveyed  
**P. R. Patton**

Registered Land Surveyor

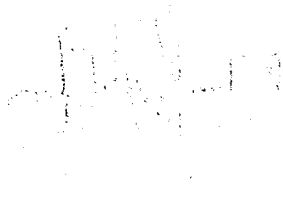
8112

Certificate No.



REFERENCE TO FORM C-101

# Ray Westall



## APPLICATION FOR DRILLING

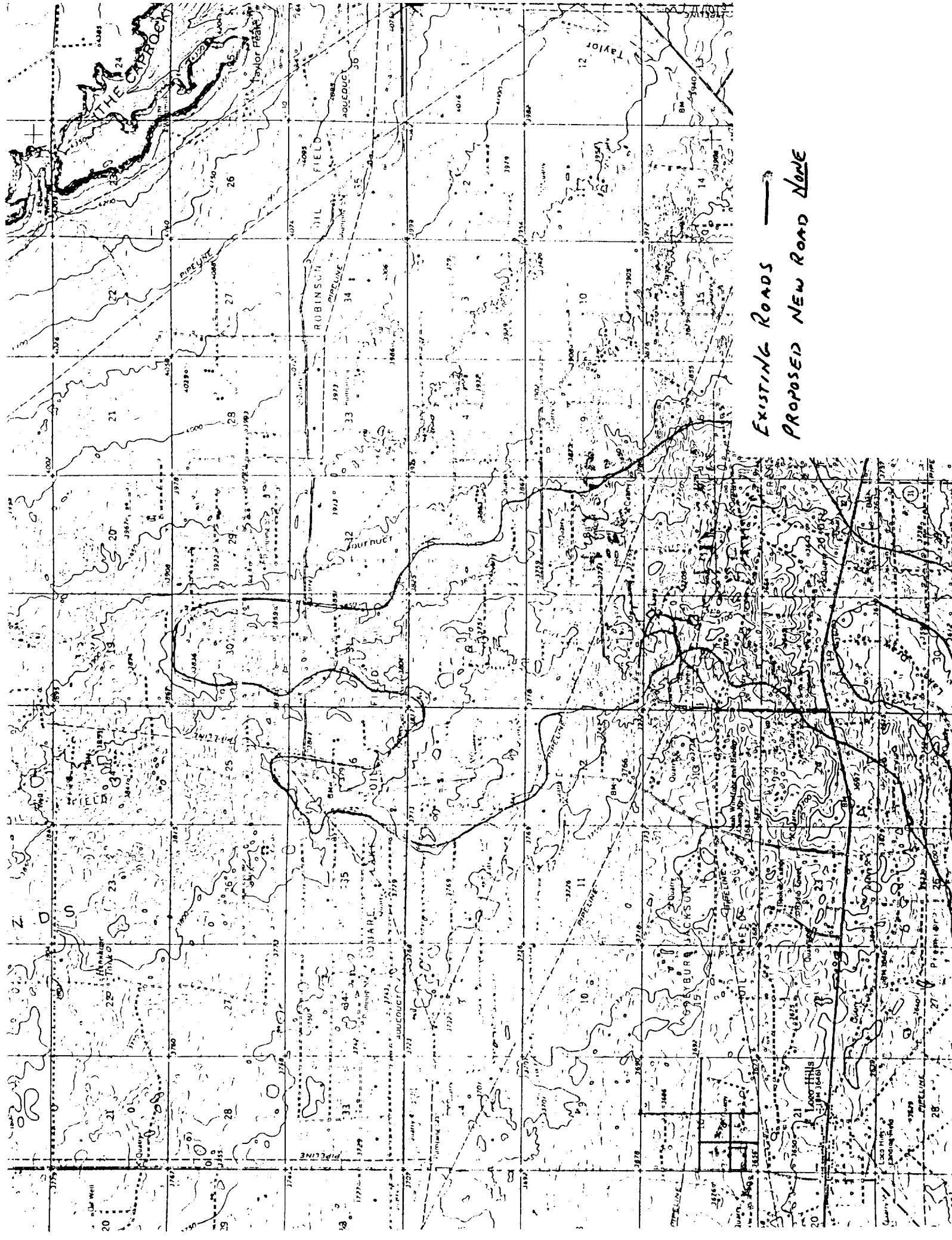
Ray Westall  
Hudson Federal #7

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

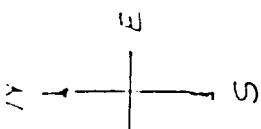
1. The Geological surface formation is quaternary
2. The estimated tops of geological markers are as follows:

|            |      |
|------------|------|
| T/Salt     | 400  |
| B/Salt     | 1300 |
| Yates      | 1430 |
| 7 Rivers   | 1820 |
| Queen      | 2360 |
| - Grayburg | 2730 |
| San Andres | 3070 |
3. The estimated depths at which anticipated water, oil & gas formations are expected to be encountered:

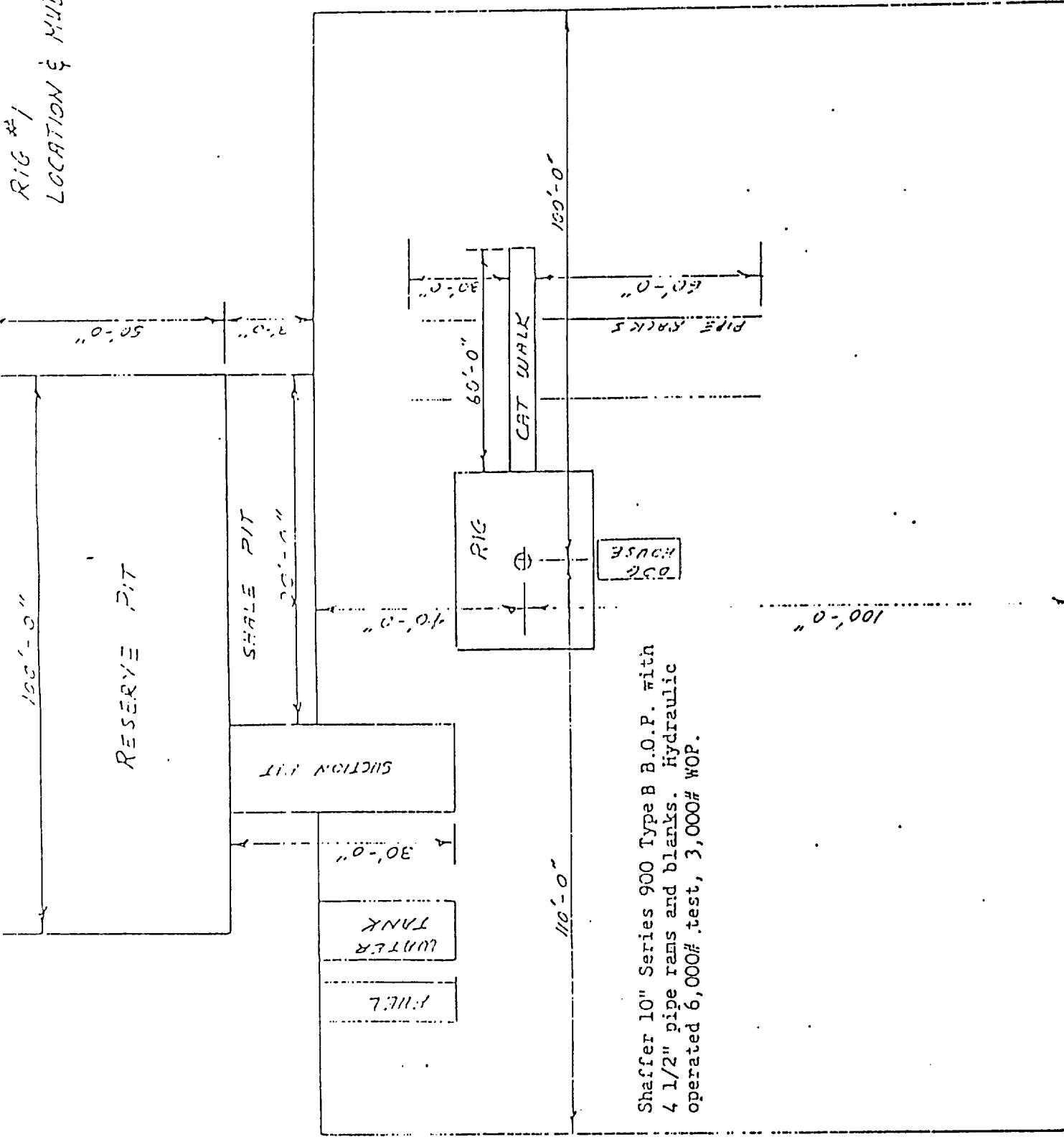
|           |                             |
|-----------|-----------------------------|
| Water     | intermittent 0-300          |
| Oil & Gas | Grayburg 2730 - TD of 3500' |
4. Proposed casing Program: See 9-331C
5. Pressure Control Equipment: See 9-331C and Exhibit E.
6. Mud Program: Mud up 100 to 150' before TD and circulate 2 hours after TD and pull out laying down and running casing.
7. Auxiliary Equipment: gas detector, kelly cock, blow out preventer
8. Testing, Logging, and Coring Program: (E) logs, CNL/FDC, DLL
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated Starting Date: 10-15-88



EXISTING ROADS —  
PROPOSED NEW ROAD NAME



RIG #1  
LOCATION & MUD PIT SPECS.



Shaffer 10" Series 900 Type B B.O.P. with  
4 1/2" pipe rams and blanks. Hydraulic  
operated 6,000# test, 3,000# WOP.