

PRIVATE AND CONFIDENTIAL

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NEW MEXICO OIL CONSERVATION COMMISSION

30-001-20001

SEP 11 1972

Form C-101  
Revised 1-1-65

|                                |                                         |
|--------------------------------|-----------------------------------------|
| 5A. Indicate Type of Lease     |                                         |
| STATE <input type="checkbox"/> | FEE <input checked="" type="checkbox"/> |
| 5. State Oil & Gas Lease No.   |                                         |

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                                       |                                                    |                                                    |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------|
| 1a. Type of Work                                                                                                                                                                                      |                                                    | 7. Unit Agreement Name                             |                                             |
| b. Type of Well<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                                                                      |                                                    | 8. Farm or Lease Name<br>Laguna-Wilson Trust       |                                             |
| 2. Name of Operator<br>Shell Oil Company (Rocky Mountain Division Production)                                                                                                                         |                                                    | 9. Well No.<br>1                                   |                                             |
| 3. Address of Operator<br>1700 Broadway, Denver, Colorado 80202                                                                                                                                       |                                                    | 10. Field and Pool, or Wildcat<br>Cactus Area (WC) |                                             |
| 4. Location of Well<br>UNIT LETTER <u>F</u> LOCATED <u>2080</u> FEET FROM THE <u>north</u> LINE<br>AND <u>1780</u> FEET FROM THE <u>west</u> LINE OF SEC. <u>8</u> TWP. <u>9N</u> RGE. <u>1W</u> NMPM |                                                    | 12. County<br>Bernalillo                           |                                             |
| 19. Proposed Depth<br>11,000'                                                                                                                                                                         |                                                    | 19A. Formation<br>Pre-Cambrian                     | 20. Rotary or C.T.<br>Rotary                |
| 21. Elevations (Show whether DE, RT, etc.)<br>5394 GL                                                                                                                                                 | 21A. Kind & Status Plug. Bond<br>\$10,000 Plugging | 21B. Drilling Contractor<br>Noble                  | 22. Approx. Date Work will start<br>9-11-72 |

23.

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
|              |                |                 |               |                 |          |
|              |                |                 |               |                 |          |
|              |                |                 |               |                 |          |

As per attached drilling prognosis and legal description of well.

cc: U. S. Geological Survey - Roswell, New Mexico  
w/attachments

cc: Laguna Pueblo Indian Reservation w/attachments  
P. O. Box 194  
Laguna, New Mexico 87826

APPROVAL VALID  
FOR 90 DAYS UNLESS  
CANCELED OR REVOKED

SEP 13 1972

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed R. J. Gaudin Title Division Operations Engineer Date September 7, 1972

(This space for State Use)

APPROVED BY J. E. Lupton TITLE Oil & Gas Inspector DATE 9/14/72

CONDITIONS OF APPROVAL, IF ANY:

COLLECT AND SACK SAMPLES  
NEW MEXICO BUREAU OF  
AT AT LEAST TWO MONTHS

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

|                                      |                         |                         |                     |                                      |                      |
|--------------------------------------|-------------------------|-------------------------|---------------------|--------------------------------------|----------------------|
| Operator<br><b>SHELL OIL COMPANY</b> |                         | Lease<br><b>LAGUNA</b>  |                     | SEP 11 1972                          | Well No.<br><b>1</b> |
| Unit Letter<br><b>F</b>              | Section<br><b>Eight</b> | Township<br><b>9 N.</b> | Range<br><b>1 W</b> | County<br><b>Santa Fe Bernalillo</b> |                      |

Actual Footage Location of Well:

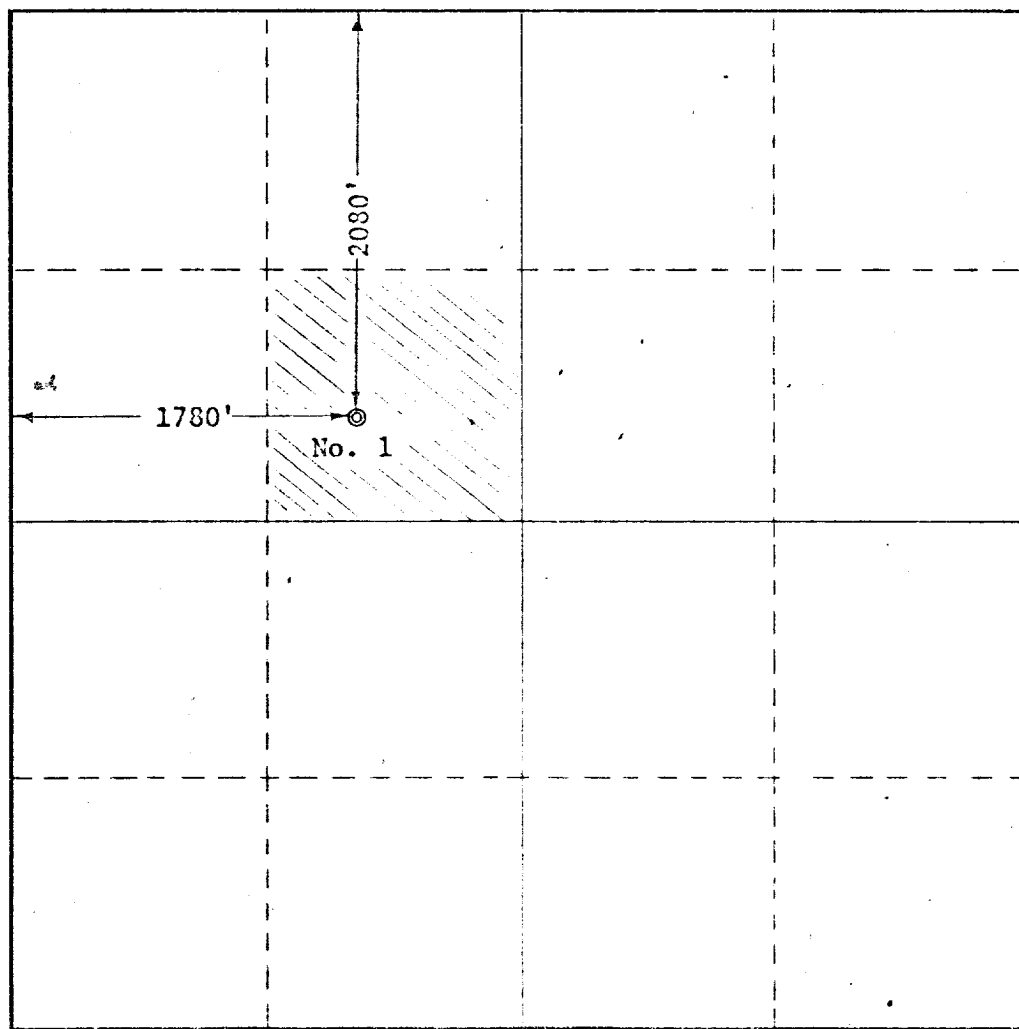
|                                   |                                            |              |                         |             |                                 |             |      |       |
|-----------------------------------|--------------------------------------------|--------------|-------------------------|-------------|---------------------------------|-------------|------|-------|
| <b>2080</b>                       | feet from the                              | <b>North</b> | line and                | <b>1780</b> | feet from the                   | <b>West</b> | line |       |
| Ground Level Elev.<br><b>5394</b> | Producing Formation<br><b>Pre-Cambrian</b> |              | Pool<br><b>Wild Cat</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 Commission.



CERTIFICATION

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

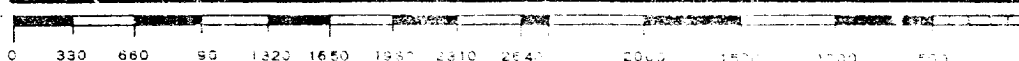
Name  
**M. G. Gray**  
Position  
**Reg. Foreman**  
Company  
**Shell oil co**  
Date  
**8-31-72**

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  
**August 31, 1972**  
Registered Professional Engineer  
and/or Land Surveyor

**F. J. Munn**  
Certificate No.

**2031**



## DRILLING WELL PROGNOSIS

**PRIVATE & CONFIDENTIAL**

SEP 11 1972

WELL NAME

Shell-Laguna-Wilson Trust #1

TYPE WELL

## Exploration Wildcat

FIELD/AREA

Cactus Area, Albuquerque Basin

**OIL CONSERVATION COAM**

APPROX. LOCATION (SUBJECT TO SURVEY) SE/4 NW/4 Section 8-T9N-R1W, Bernalillo County, New Mexico

EST. G. L. ELEVATION 5,400' PROJECTED TO 11,000 OBJECTIVE Precambrian

| HOLE SIZE | CASING PROGRAM           | LOGGING PROGRAMS                                                                                               | MAX DEV. | DEPTHS AND FORMATION TOPS        | SPECIAL INSTRUCTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|--------------------------|----------------------------------------------------------------------------------------------------------------|----------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 20"                      | Conductor                                                                                                      |          | 30' minimum                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 17 1/4"   | 13 3/8"                  | Surface                                                                                                        | 1°       | 300' ±                           | SAMPLES:<br>10' surface to TD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|           |                          | BHC Sonic<br>GR/CAL<br>CNL-FDC<br>PML<br>DIL<br>Dipmeter                                                       |          |                                  | CORES:<br>conventional: 5-30' cores<br>sidewalls: as needed for evaluation<br>plus 100 shale shot core                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 12 1/4"   | 9 5/8"                   | *<br>*<br>*<br>*<br>*<br>*                                                                                     | 2°       | 3,200' ±                         | DST'S:<br>Six possible from Dakota Sands to TD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8 3/4"    | 7" or 5 1/2" if required | BHC Sonic/GR/CAL<br>CNL-FDC<br>PML<br>DIL<br>2 Man Mud Logging Unit<br>Dipmeter<br>(Seismic check shot survey) |          |                                  | DEVIATION CONTROL<br>Dogleg severity not to exceed 1 1/2° per any 100' interval. Deviation not more than 5° average in any 500' interval.<br>CEMENT<br>Circulate Class "G" to surface on 13 3/8" casing. See casing & cement prognosis for 9 5/8" detail. (WOC minimum 18 hours)<br>MUD<br>Surface to 3,200' - water, mud up as necessary for logs and casing.<br>3,200' to TD - water, circulate res pit to keep clean, flocculate as necessary. When mud up is necessary use low solids, lightly dispersed mud. Treat out anhydrite with soda ash. |
|           |                          |                                                                                                                |          | Precambrian<br>10,700' (-5,300') |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|           |                          |                                                                                                                |          | TD 11,000'                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

ORIGINATOR

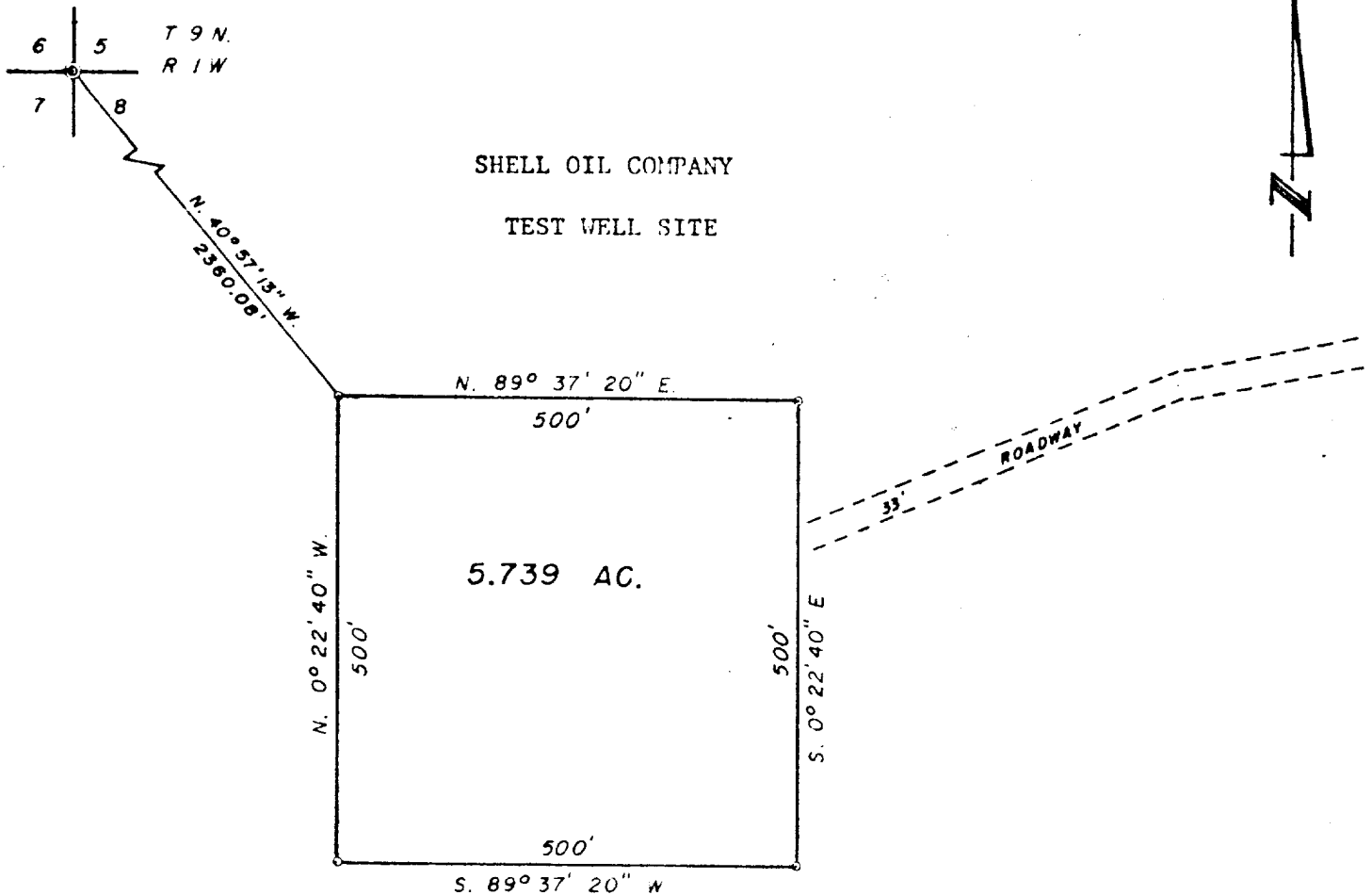
DATE 8/15/72

ENGINEERING APPROVAL:

PETROLEUM:

OPERATIONS APPROVAL

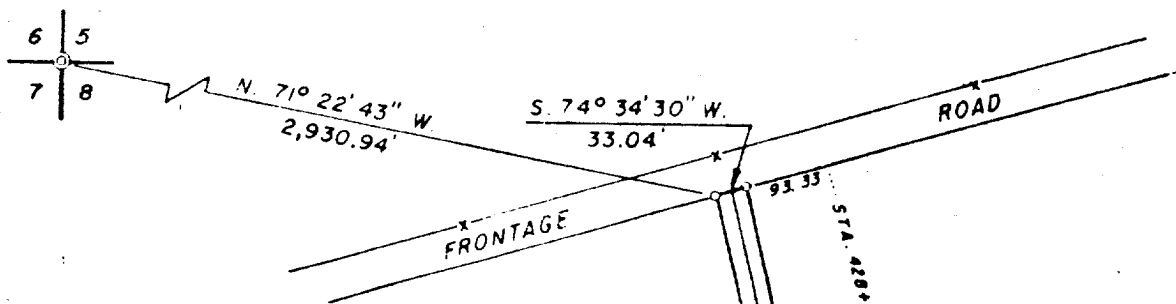
N.W. 1/4, Sec. 8, T.9 N., R.1 W.  
N.M.P.M.



#### LEGAL DESCRIPTION

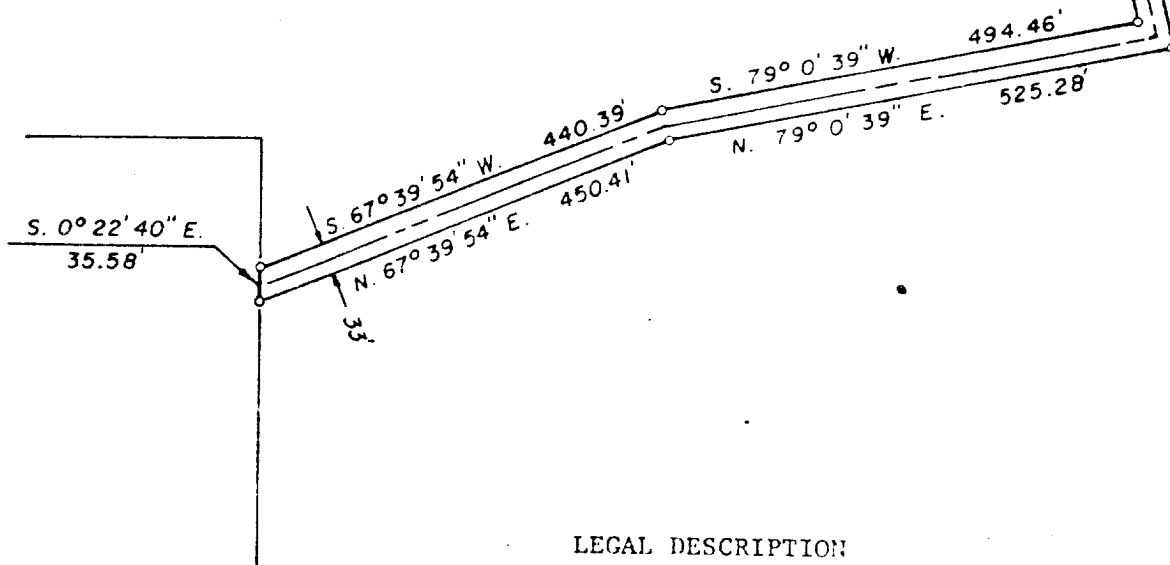
A tract of land situated in the northwest quarter of Section 8, T.9 N., R.1 W., N.M.P.M., Bernalillo County, New Mexico, and being more particularly described as follows:

From the point of beginning, being the northwest corner of said tract, the northwest corner of Section 8, being a marked stone, bearing N. 40° 57' 13" W. 2360.09'



N. 1/2, Sec. 8, T.9 N., R.1 W.  
N.M.P.M.

AREA ACCESS ROADWAY = 1.268 A.C.



A tract of land situated in the North half of Section 8, T.9 N., R.1 W..