

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>Jicarilla Contract No. 163</b> |                                              |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |                                                  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br><b>Jicarilla</b>                 |                                              |
| 2. NAME OF OPERATOR<br><b>Shar-Alan Oil Company</b>                                                                                                                                                          |                                                  | 7. UNIT AGREEMENT NAME                                                   |                                              |
| 3. ADDRESS OF OPERATOR<br><b>1402 Denver U. S. National Center, Denver, Colorado 80202</b>                                                                                                                   |                                                  | 8. FARM OR LEASE NAME<br><b>Jicarilla N 163</b>                          |                                              |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)<br>At surface <b>1850' XEN FSL and 790' FEL</b><br><br>At proposed prod. zone                                  |                                                  | 9. WELL NO.<br><b>2</b>                                                  |                                              |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*                                                                                                                                        |                                                  | 10. FIELD AND POOL, OR WILDCAT<br><b>So Blanco PC</b>                    |                                              |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)                                                                                        |                                                  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br><b>22 - 23N - 2W</b> |                                              |
| 16. NO. OF ACRES IN LEASE                                                                                                                                                                                    |                                                  | 12. COUNTY OR PARISH<br><b>Sandoval</b>                                  |                                              |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br><b>160</b>                                                                                                                                                         |                                                  | 13. STATE<br><b>New Mexico</b>                                           |                                              |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.                                                                                                |                                                  | 20. ROTARY OR CABLE TOOLS<br><b>Rotary</b>                               |                                              |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br><b>7367.0 CL</b>                                                                                                                                           |                                                  | 22. APPROX. DATE WORK WILL START*<br><b>January 25, 1967</b>             |                                              |
| 23. PROPOSED CASING AND CEMENTING PROGRAM                                                                                                                                                                    |                                                  |                                                                          |                                              |
| SIZE OF HOLE<br><b>10 3/4</b><br><b>6 3/4"</b>                                                                                                                                                               | SIZE OF CASING<br><b>8 5/8"</b><br><b>4 1/2"</b> | WEIGHT PER FOOT<br><b>24#</b><br><b>9.5#</b>                             | SETTING DEPTH<br><b>100'</b><br><b>3200'</b> |
|                                                                                                                                                                                                              |                                                  | QUANTITY OF CEMENT<br><b>60 sacks</b><br><b>100 sacks</b>                |                                              |

To set surface casing and cement same as shown above. To drill with rotary tools to an approximate total depth of 3200'. To run an electric log and if productive to set pipe and cement same as above. To perforate the Pictured Cliffs pay zone and sand water frac same. To run approximately 3150' of 1 1/4" EUE tubing and to complete and produce as a Pictured Cliffs Gas Producer.

To comply with the rules and regulations of the U.S.G.S. and New Mexico Oil and Gas Commission.

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 conditions and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *H. G. Gung* TITLE Mgr. of Lands & Explorations DATE 1-13-67  
(This space for Federal or State office use)

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

APPROVED BY *GA* TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

RECEIVED  
JAN 16 1967  
U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C.

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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

All distances must be from the outer boundaries of the Section

|                                                                                                                               |                                               |                             |                                 |                                  |                     |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------|---------------------------------|----------------------------------|---------------------|
| Operator<br><b>SHAR ALAN OIL COMPANY</b>                                                                                      |                                               |                             | Lease<br><b>JICARILLA N 163</b> |                                  | Well No<br><b>2</b> |
| Unit Letter<br><b>I</b>                                                                                                       | Section<br><b>22</b>                          | Township<br><b>23 NORTH</b> | Range<br><b>2 WEST</b>          | County<br><b>SANDOVAL</b>        |                     |
| Actual Footage Location of Well:<br><b>1850</b> feet from the <b>SOUTH</b> line and <b>790</b> feet from the <b>EAST</b> line |                                               |                             |                                 |                                  |                     |
| Ground Level Elev.<br><b>7367.0</b>                                                                                           | Producing Formation<br><b>Pictured Cliffs</b> | Pool<br><b>So Blanco PC</b> |                                 | Dedicated Acreage:<br><b>140</b> | Acres               |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 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.

**E. F. Goss**  
Name

**Mgr. of Lands & Explorations**  
Position

**Shar-Alan Oil Company**  
Company

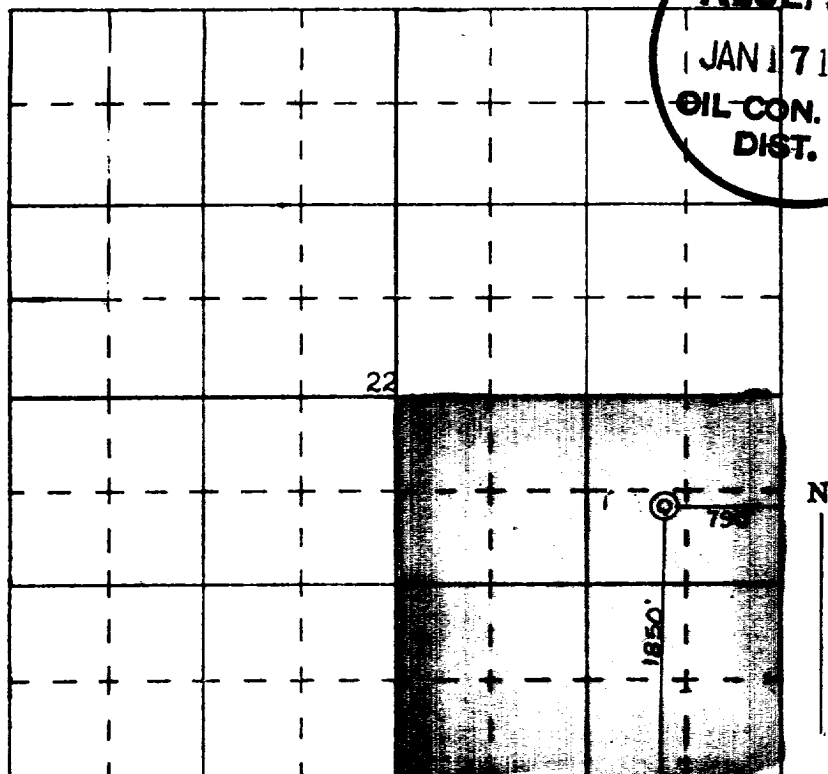
**January 11, 1967**  
Date

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.

**11 January 1967**  
Date Surveyed

*[Signature]*  
Registered Professional Engineer  
and/or Land Surveyor

**1463**  
Certificate No.



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

A blank sheet of white paper with a light gray grid pattern. The grid consists of horizontal and vertical lines forming small squares across the entire page. There are no margins or other markings on the paper.