STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

n&1-3108

| OIL CONSERVATION DIVISION<br>P. O. BOX 2088<br>SANTA FE, NEW MEXICO 87501 | #76-B                | 2/ // -/                |
|---|----------------------|-------------------------|
| RE: Proposed:   | # 77-E               | 36-16-36<br>31-16-37    |
| MC<br>DHC   | # 78-7               | 36-16-36                |
| NSL   | # 79-K               | 31-16-37                |
| NSPSWD  | # 80-0<br># 81-N     | 36-16-36                |
| WFX<br>PMX  | # 82-0               | 31-16-37<br>31-16-37    |
|   | # 83-J<br># 84- B    | 1-17-36                 |
| Gentlemen:  | # 84-B<br># 85-74    | - 17 - 36<br> - 17 - 36 |
| I have examined the application for the:                                  | # 86-C               | 6-17-37                 |
| Dreenhill Petroleum Corp. Lovin   | ston San a           | ndres Unit              |
|   | hit S-I-R<br># 87- 7 | 1-17-36                 |
| and my recommendations are as follows:                                    | # 88-J               | 1-17-36                 |
| OK  |                      | -   40                  |
|   |                      |                         |
|   |                      |                         |
|   |                      |                         |

Youns very tru Jerry Sexton

Supervisor, District 1

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# GREENHILL PETROLEUM CORPORATION

at 30 a an out the set

1149U VESTHE/MERIRCAD 200112200 HOUSTON TEXAS 77077-6641 TELEPHONE (713) 589-8484 FAX: 713) 589-7892

Incorporated in Delaware, U.S.A.

March 23, 1992

Oil Conservation Division State of New Mexico Energy, Minerals and Natural Resources Department P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Attention:

Mr. Mike Stogner

Re:

Unorthodox Location and Drilling Permit Proposed Well Number 80 Lovington San Andres Unit Lea County, New Mexico

Dear Mr. Stogner:

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 80 in the Lovington San Andres Unit, located in Lea County, New Mexico.

The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 30 is located in the interior of the unit and is not competitive with offset wells outside the unit. Information gathered as a result of drilling this infill well will be utilized in evaluating additional infill development potential in the unit and ultimately may be used to evaluate the feasibility of tertiary recovery.

Greenhill Petroleum Corporation wishes to commence drilling operations on the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

nihael the

Michael J. Newport Land Manager-Fermian Basin

MJN:sjs 92. 204 Enclosures



Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies State of New Mexico EL gy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT [ P.O. Box 1980, Hobbs, NM 68240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT\_III 1000 Rio Brazos Rd., Aztec, NM 67410 WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, New Mexico 87504-2088

All Distances must be from the outer boundaries of the section

| Operator<br>GR   | EENHILL PETRO                              | FUM CORP.                     | Lease<br>LO\   | /INGTON SAN A      | NDRES U        | INIT                    | Well No.<br>80   |  |
|--|--|-------------------------------|----------------|--------------------|----------------|-------------------------|--|--|
|  |  |                               | Range          |                    |                | County                  |  |  |
| Unit Letter<br>O   | Section<br>36                              | Township<br>16 SOUTH          | That a g       | 36 EAST            | NMPM           |                         | LEA  |  |
| Actual Footage Loc   |  | <u>10_000111</u>              |                |                    |                | 1                       |  |  |
| 1225 feet from the SOUTH line and 2485 feet from the EAST line   |  |                               |                |                    |                |                         |  |  |
| Ground Level Elev  |  |                               | Pool           | <u></u>            |                |                         | Dedicated Acreage:   |  |
| 3823.4'  | San Andr                                   | es                            | Loving         | <u>ton Graybur</u> | <u>g Şan A</u> | ndres                   | 40 Acres   |  |
| 1. Outline the se  | creage dedicated to                        | the subject well by colored ; |                |                    |                |                         |  |  |
| 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). |  |                               |                |                    |                |                         |  |  |
|  | one lease of differ<br>orce-pooling, etc.? | ent ownership is dedicated t  |                |                    |                | been consol             | idated by communitization.   |  |
| XXX Yes  | □ No                                       | If answer is "yes" type (     | of consolidati | on <u>unitiz</u>   | ed             | <u></u>                 |  |  |
|  |  | d tract descriptions which i  | have actually  | been consolidated  | l. (Use reve   | rse side of             |  |  |
| this form necess<br>No allowable w   | ill be assigned to                         | the well unit all interest    | s have been    | consolidated (b    | y commun       | itization, u            | nitization, forced-pooling,  |  |
| otherwise) or u  | ntil a non-standar                         | d unit, eliminating such in   | ALCICSL, MAS   | veen approved by   |                |                         | OR CERTIFICATION   |  |
|  |  |                               |                | 1                  |                |                         |  |  |
|  | ł  |                               |                |                    |                |                         | by certify the the information<br>ein is true and complete to the  |  |
|  | 1  |                               |                | 1                  |                |                         | owiedge and bellef.  |  |
|  | 1  |                               |                | 1                  |                |                         |  |  |
|  | l  |                               |                |                    |                | Signatur                | 11. A  |  |
|  | 1  |                               |                |                    |                | Printed Nan             | a hug V  |  |
|  | ł  |                               |                |                    |                | -                       | J. Newport   |  |
|  | +  |                               |                | +                  |                | Position                |  |  |
|  | ĺ  |                               |                | 1                  |                | Land Mar                | nager-Permian Basin  |  |
|  | Í  |                               |                | 1                  |                | Company                 |  |  |
|  | i  |                               |                |                    |                |                         | 1 Petroleum Corp.  |  |
|  | Ī  |                               |                |                    |                | Date<br>3-23-93         |  |  |
|  | 1  |                               |                | ļ                  | 1 F            | CLIDVEN                 | OD CEDTIFICATION   |  |
|  |  |                               |                | 1                  |                | SURVEY                  | OR CERTIFICATION   |  |
|  | 1  |                               |                | 1                  |                |                         | ty that the well location shown  |  |
|  | I  |                               |                | 1                  |                | -                       | was plotted from field notes of<br>a made by me or under my  |  |
|  |  |                               |                | 1                  |                | supervison, e           | end that the same is true and  |  |
|  |  |                               |                | 1                  |                | correct to t<br>belief. | he best of my knowledge and  |  |
|  | <b>₩</b> `                                 | 12                            | ●#54           |                    |                |                         |  |  |
|  | - I  | 104, 631                      | -              |                    |                | Date Surve              | RUARY 20, 1992   |  |
|  |  | ···· 0/                       |                |                    | 11             | Signature 4             | the second s |  |
|  | +  |                               |                | 2485'              |                | Professions             |  |  |
|  |  | 103°18'25"                    |                | 2485               |                |                         | AND DIAND  |  |
|  |  | 32°52'28"                     |                | I                  |                | <u>ئە</u>               | In All anoneway Signa  |  |
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|  | 1  | 52                            | • #05          | ļ                  |                | Î Î Î                   |  |  |
|  | l  | #26                           | ₩25            | 1                  |                | Vani                    | K (3289, // m =  |  |
|  | i  |                               |                | ļ                  |                | Certificate             | No. JOHN W. WEST. 076  |  |
| L  | i  | <u> </u>                      |                | <u> </u>           |                | / 1                     | A MONALPAF ENDEON \$230  |  |
|  |  |                               |                |                    | j              |                         | 1. GAHY L. JONES   |  |
| 0 330 660  | 990 1320 1650                              | 1980 2310 2640 20             | 000 1500       | 1000 500           | 0              |                         | (Domme)  |  |

## GREENHILL PETROLEUM CORPORATION BOP PROGRAM FOR LOVINGTON SAN ANDRES UNIT NUMBER 80

## CASING PROGRAM

#### BOP PROGRAM

| <u>Size</u> | <u>Depth</u> | <u>Wt.</u> | <u>Grade</u> | <u>Configuration</u> | <u>Test Pressure</u> |
|-------------|--------------|------------|--------------|----------------------|----------------------|
| 8 5/8"      | 1300'        | 24         | H40, STC     | RA*                  | 200 psi              |
| 5 1/2"      | 5150'        | 15.5       | K55, STC     | RR*                  | 250/1500 psi         |

\*RR-Ram Ram RA-Ram Annular Diverter-Hydrill may be substituted for a diverter.

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sjs:s 92.222