

12777 JONES ROAD, SUITE 375 HOUSTON, TEXAS 77070 TELEPHONE (713) 955-1146 FAX (713) 890-2405

Incorporated in Delaware, U.S.A.

June 17, 1991

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit

Proposed Well No. 101 Lovington Paddock

Lea County. New Mexico

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 101 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock 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 No. 101 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 you earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport

Landman

MJN:JB

Enclosures

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Submit to Appropriate
District Office
State Lease — 6 copies
Fee Lease — 5 copies

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

OH CONSEDUATION DIVISION

| Form C | -101 |
|---------|--------|
| Revised | 1-1-89 |

| DISTRICT I P.O. Box 1980, Hoobs, NA | A 88240 | P.O. Box 208 | 38 | API NO. (assigned by OC | D on New Wells) |
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| DISTRICT ^I II P.O. Drawer DD, Arlesia, I | | anta Fe, New Mexico | 87304-2088 | 5. Indicate Type of Lease S | TATE XX FEE |
| DISTRICT III 1000 Rio Brazos Rd., Azte | c, NM 87410 | | | 6. State Oil & Gas Lease | No. B7766 |
| APPLICAT | TION FOR PERMIT T | O DRILL, DEEPEN, O | OR PLUG BACK | | |
| 12. Type of Work: | | | | 7. Lease Name or Unit A | greement Name |
| b. Type of Well: | L XX RE-ENTER | DEEPEN SINGLE | PLUG BACK | LOVINGTON PADDO | OCK UNIT |
| MET XX MET OV | OTHER | 20NE | ZONE | | |
| 2. Name of Operator GREENHILL | . PETROLEUM CORF | PORATION | | | 5/ |
| 3. Address of Operator 11490 WES | THEIMER, STE., | 200, HOUSTON, T | X 77077 | 9. Pool name or Wildcat LOVINGTON PADD | OCK |
| 4. Well Location Unit Letter C | : <u>120</u> Feet Fr | om The NORTH | Line and 14 | 00 Feet From The | EST Line |
| Section 36 | Towns | nip 16S Ras | ige 36E | NMPM LEA | County |
| | | 10. Proposed Depth | | ////////////////////////////////////// | 12. Rosary or C.T. |
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| 13. Elevations (Show whether | er DF, RT, GR, esc.) | 4. Kind & Status Plug. Bond | 15. Drilling Contracto | | Date Work will start |
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| IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: FINOR ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. I hereby certify that the jet ormigion above je tryte and complete to the best of it. | | TIVE 20NE AND PROPOSED NEW PRODUCTIVE |
|--|-------------------------|---------------------------------------|
| SIGNATURE Michael J. Lempus | AND MANAGER-PERMIAN BAS | SIN DATE 6-18-91 |
| TYPE OR PRINT NAME MICHAEL J. NEWPORT | | теленоне но955-1146 |
| (This space for State Use) | | |
| APTROVED BY | ттиг | DATE |

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Azioc, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

| Operator | | | | Lease | | | | Well No. |
|---------------------|--|---------------------|---|---|--|-----------------------------------|-----------------------------|--|
| GREENH | HILL PETRO | LEUM CORP. | | LOVIN | NGTON PADDOCI | K UNIT | | 101 |
| Unit Letter | Section | Township | | Range | | C | ounty | |
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| Ground level Elev. | feet from the | cing Formation | line and | Pool | <u>, </u> | feet from the | 1120 | Dedicated Acreage: |
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| If answer | is "no" list the ow | mens and tract desc | riptions which have | actually been co | esolidated. (Use reve | rse side of | | |
| | if neccessary | | | | | | | |
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| or until a | non-standard unit, | eliminating such is | sterest, has been app | roved by the Div | /18108. | | | |
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BRUCE KING GOVERNOR

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT DIVISION

OIL CONSERVATION DIVISION

RECE YED

HOBBS DISTRICT OFFICE

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6-24-91

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

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|--|--|-----------------------------|-------------------|
| OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 | | | |
| RE: Proposed: MC DHC NSL NSP SWD WFX PMX | | | |
| Gentlemen: | | | |
| I have examined the applicate the supplication of the supplication | Lovendon Padlack, Lease & Well No. Unit | <u>Unit # 101-</u> S-T-R | <u>C 36-16-36</u> |
| | | | |
| Yours very truly, Jerry Sexton Supervisor, District 1 | 7 | | |



12777 JONES ROAD, SUITE 375 HOUSTON, TEXAS 77070 TELEPHONE (713) 955-1146 FAX (713) 890-2405

Incorporated in Delaware, U.S.A.

June 17, 1991

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit

Proposed Well No. 102 Lovington Paddock Lea County. New Mexico

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 102 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock 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 No. 102 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 you earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport

Landman

MJN:JB

Enclosures

Submit to Appropriate District Office State Lesse - 4 copies Fee Lesse - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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DISTRICT II

A.O. Deswer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

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| und level Elev. | | roducing For | metica | | Pool | | | | Dedicated Ac | reage: |
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Submit to Appropriate District Office State Lease - 6 copies
Foe Lease - 1 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-39

P.O. Box 1980, Hobbs, NM 88240

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

1000 Rio Brazos Rd., Aztec, NM 87410

13. Elevations (Show whether DF, RT, GR, etc.)

SIZE OF CASING

8 5/8

5 1/2

3841.9

12 1/4

7 7/8

CONDITIONS OF APPROVAL, IF ANY:

SIZE OF HOLE

17.

OIL CONSERVATION DIVISION

P.O. Box 2088

6600

ON FILE

24

15.5

14. Kind & Status Plug, Bond

WEIGHT PER FOOT

| API NO. | (assigned | by OCD | oa New | Wells) |
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16. Approx. Date Work will start

EST. TOP

SURFACE

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PADDOCK

SACKS OF CEMENT

TO BE DETERMINED

BY FLD. CALIPER

900

15. Drilling Contractor

SETTING DEPTH

TBD

2050

6600

PROPOSED CASING AND CEMENT PROGRAM

Santa Fe. New Mexico 87504-2088 5. Indicate Type of Lease STATE KX 6. State Oil & Gas Lease No. B2411 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 7. Lease Name or Unit Agreement Name RE-ENTER PLUG BACK DRILL X DEEPEN | b. Type of Well: LOVINGTON PADDOCK UNIT SINGLE MULTIPLE WELL X ZONE 2. Name of Operator 8. Well No. 102 GREENHILL PETROLEUM CORPORATION 9. Pool name or Wildcat 3. Address of Operator LOVINGTON PADDOCK 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077 4. Well Location 2755 Feet From The : 290 Feet From The NORTH WEST Line and Township 16S 36E NMPM LEA Range County 10. Proposed Depth 12_Routy_or C.T.

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| IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO I | DEEPEN OR FLUIG BACK, GIVE DATA ON PRESENT PRODUCTIVE 201 | NE AND PROPOSED NEW PRODUCTIVE |
| I horeby certify that the information above is grue and complete to the best of my knowledge | e and belief. | |
| SKINATURE Richard M. hungerst | HILLAND MANAGER-PERMIAN BASIN | DATE 6-18-91 |
| TYPE OR PRINT NAME MICHAEL J. NEWPORT | | ТЕLЕНЮНЕ NO.955-1146 |
| (This space for State Use) | · | |
| APTROVED BY | TITLE | DATE |

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OIL CONSERVATION DISTRIBUTE ROAD, SUITE 375 RECEIVED TELEPHONE (713) 955-1146 FAX (713) 955-5105

'91 JUN 24 AM 10 24

Incorporated in Delaware, U.S.A.

June 17, 1991

Oil Conservation Division State of New Mexico Energy, Minerals and Natural Resources Dept. P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit

> Proposed Well No. 103 Lovington Paddock Lea County. New Mexico

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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 you earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Néwport

Landman

MJN:JB Enclosures

Submanto Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Bessos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

STATE TO STATE

| GREENHILL PETROLEUM CORP. LOVINGTON PADDOCK UNIT County LEA 36 16 SOUTH Range 36 EAST NAPM LEA County LEA County LEA County LEA County LEA County LEA County LEA County LEA A 36 16 SOUTH 10 SOUTH 100 see South 10 Resident South Range Pool County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA County LEA LOA LOA County LEA LOA LOA County LEA LOA LOA County LEA LOA LOA County LOA LOA LOA LOA LOA LOA LOA LO | Operator | | | | Leas | | | | Well No. |
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| 1. Outline the accuse dedicinated to the subject well by colored pencil or hardwardsarks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the consenting thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communication, force-pooling, etc.? Yes No If survey is "type of consolidation Init 2.c. | 3840.8 | lavian | to Dodda | . L | Louis | ton Do | Hack 11 | .:+ | U/O Acme |
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| unitization, force-pooling, etc.? Yes No If snawer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if seccessary. No silcowable 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 interest, has been approved by the Division. LONG. 103°18'09" LAT. 32°53'08" IAT. 32°53'08" OPERATOR CERTIFICATION I havely carrify that the informatic contained herein in true and complete to the best of my knowledge and belief. Signature And Andrea II. Network II. Petrale usion (or p. Date But 14 SURVEYOR CERTIFICATION I havely carrify that the well location show on their potential to row in plant was plotted from field notes and correct to the best of my knowledge an belief. Date Surveyed Grant Surveyed Grant Surveyed Cardinant for Surveyed | | * * | | _ | | | | orking interest | and royalty). |
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Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

| DISTRICT II P.O. Drawer DD, Artesia, I | NJW 189210 | | | 5. Indicate | Type of Leuse | ATE XX | |
|---|-------------------------------|---|-------------------------------------|---------------------------|--------------------------|----------------------------|------------------------|
| · | 1414 90210 | | • | 6 5000 00 | | | FEE _ |
| DISTRICT III 1000 Rio Brazos Rd., Azte | sc, NM 87410 | | | d. State Oil | & Gas Lease ! | ъ. В241 | 1 |
| APPLICAT | TION FOR PERMIT | TO DRILL, DEEPEN, O | R PLUG BACK | 1////// | | | |
| 12 Type of Work: | | · · · · · · · · · · · · · · · · · · · | | 7. Lease Na | une or Unit Ag | reement Name | |
| b. Type of Well: OIL GAS WELL X WELL | L 🚺 RE-ENTER | DEEPEN SINGLE | PLUG BACK MULTIPLE ZONE | LOVINGTO | N PADDO | CK UNIT | |
| 2. Name of Operator | PETROLEUM COR | PORATION | | 8. Well No. 103 | | | |
| 3. Address of Operator 11490 WES | THEIMER, STE., | 200, HOUSTON, TX | 77077 | 1 | e or Wildcau TON PADE | OCK | • |
| 4. Well Location Unit Letter A | : 16 Feet F | from The NORTH | Line and 1 | | From TheE | AST | Line |
| | | 10. Proposed Depth 6600 | | 1. Formation PADDOCK | | 12-Rotary-or | <i>///////</i> с.т. |
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| 3840.8 | er DF, RT, GR, etc.) | 4. Kind & Status Plug. Bond ON FILE | 15. Drilling Contract TBD | tor | 16. Approx. D | tate Work will | start · |
| | | • | TBD | | 16. Approx. D | Nate Work will | start - |
| 3840.8 | | ON FILE OPOSED CASING AN | TBD | GRAM | | este Work will EST. | |
| 3840.8 | PP | ON FILE | TBD D CEMENT PRO | GRAM | | | TOP |
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| 3840.8 17. SIZE OF HOLE 12 1/4 | PF SIZE OF CASING 8 5/8 | ON FILE OPOSED CASING AN WEIGHT PER FOOT 24 | TBD D CEMENT PRO SETTING DEPTH 2050 | GRAM SACKS OF 900 TO BE D | CEMENT | EST. SURFACE D SURFA | TOP |

| | IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: PPROPOSAL IS TO D ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY, | REPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE 20 | HE AND PROPOSED NEW PRODUCTIVE |
|---|--|--|--------------------------------|
| | I hereby cartify that the information above is true and complete to the best of my knowledge SIGNATURE SIGNATURE | e and belief. TITLL AND MANAGER-PERMIAN BASIN | _ DATE6-18-91 |
| = | TYPE OR PERNT NAME MICHAEL J. NEWPORT | | тецетноме но 955-1146 |
| | (This space for State Use) | | |
| | APTROVED BY | . mrs | DATE |
| | CONDITIONS OF APPROVAL, IF ANY: | | |

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENTO IVISION

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE '91 JUN 28 AM 9 33

BRUCE KING GOVERNOR

6-24-91

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

| * |
|---|
| OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 |
| SANTA FE, NEW MEXICO 6/501 |
| RE: Proposed: MC |
| Gentlemen: |
| I have examined the application for the: |
| Grentill Pet-Corp. Lovington Paddock Ut. # 103-A-36-16-36 Operator Lease & Well No. Unit S-T-R |
| and my recommendations are as follows: |
| |
| |
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| |
| Yours very truly, |
| Jerney Clife. |
| Jerry Sexton Supervisor District 1 |



12777 JONES ROAD, SUITE 375 HOUSTON, TEXAS 77070 TELEPHONE (713) 955-1146 FAX (713) 955-5105

incorporated in Delaware, U.S.A.

June 17, 1991

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

Attn: Mike Stogner

Re:

Unorthodox Location and Drilling Permit

Proposed Well No. 107 Lovington Paddock Lea County. New Mexico

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 107 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock 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 No. 107 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 you earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport

Landman

MJN:JB Enclosures Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

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| DISTRICT I P.O. Box 1980, Hobbs, NA | A 88240 | API NO. (a) | ssigned by OCI |) on New Wells) | | |
| DISTRICTI | | anta Fé, New Mexi∞ | 87504-2088 | 5. Indicate | Type of Lease | |
| P.O. Drawer DD, Artesia, | NM 88210 | , | | | | ATE XX FEE |
| DISTRICT III 1000 Rio Brazos Rd., Azie | or NDA 87410 | | | 6. State Oil | & Gas Lease ! | |
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| 1 | TION FOR PERMIT T | O DRILL, DEEPEN, O | OR PLUG BACK | <i>\\\\\\\\</i> | | |
| la. Type of Work: | | | | 7. Lease Na | une or Unit Ag | reement Name , |
| b. Type of Well: | L XX RE-ENTER | DEEPEN | PLUG BACK | | | |
| MET X MET C | отнея | SINGLE ZONE | MULTIPLE ZONE [| | ON PADDO | CK UNIT |
| 2. Name of Operator | | | | 8. Well No. | | |
| | ROLEUM CORPORATI | ION | | 107 | | |
| 3. Address of Operator | | | | 9. Pool nam | e or Wildcat | • |
| 11490 WESTHEIN | MER, STE., 200, | | 7077 | LOVING | STON PADI | DOCK |
| 4. Well Location Unit Letter | : _1265 F∞ Fr | om The NORTH | Line and 25 | 585 Feet | From The | IST GOOD Line |
| Section X | 36 Towns | hip 175 /6 S Ray | 18e 36F | NMPM LE | <u> </u> | County |
| | | 10. Proposed Depth | | 11. Formation | | 12. Boury or C.T. |
| | | 6600 | | PADDOCK | | |
| 13. Elevations (Show wheth | er DF, RT, GR, etc.) | 4. Kind & Status Plug. Bond | 15. Drilling Contra | ctor | 16. Approx. D | tate Work will start |
| 3844 | | ON FILE | TBD | | | |
| 17. | PRO | OPOSED CASING AN | ID CEMENT PRO | GRAM | | |
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| IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO D ZONE. GIVE BLOWOUT PREVENTER PROGRAM, # ANY. | EEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE 201 | NE AND PROPOSED NEW PRODUCTIVE |
| I hereby certify that the information above je trye and complete to the best of my knowledge | 8 and belief. | |
| MICHAEL O. NEWPORT | HALLAND MANAGER-PERMIAN BASIN | DATE 6-18-91 955-1146 |
| TYPE OR PRINT NAME | | TELEPHONE NO. |
| (This space for State Use) | | |
| APPROVED BY | mu | . DATE |
| CONDITIONS OF APPROVAL, IF ANY: | | |
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Submit to Apps ¶ori District Office State Lease - 4 co Foe Lesso , 3 copies

Unit Letter

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

<u>DISTRICT I</u>
P.O. Box 1980, Hobbs, NM 88240 DISTRICT II
P.O. Drawer DD, Artesia, NM \$8210 (10)

1385

Santa Fe, New Mexico 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

Section

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section Wal No. LOVINGTON PADDOCK UNIT 107 GREENHILL PETROLEUM CORP. County Range

36 EAST LEA 36 16 SOUTH NMPM Actual Footage Location of Well: 1290 feet from the 1385 NORTH feet from the line and Ground level Elev. Dedicated Acreage: **Producing Formation** Pool Louington Paddock 3844.3 Louington Paddock 40

- 1. Outline the acreage dedicated to the subject well by colored pencil or hackure 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Unitized If answer is "yes" type of consolidation Yes Yes If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary.

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise)

LONG. 103°18"41"

LAT. 32°52'55"

or until a non-standard unit, eliminating such interest, has been approved by the Division.

OPERATOR CERTIFICATION

Form C-102

Revised 1-1-89

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

Printed Nam

Michael J. Ne Position

Londman Company

Greenhill Petroleum Corp.

6/17/91

SURVEYOR CERTIFICATION

I hereby certify that the well location show on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

6-1-91

Signature & Seal of

RONALD & EIDSON 3239

676

1960 2310 2640 2000 1500 1000 500 990 1320 1650

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| | August 1985. | Note: (1) City Induces compressing are in facility. Inside the unit boundaries. [2] West locations conform to Texaco | | | | | | | | | | · s | • | | - | | | _ |
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| 1 | B | | LOVINGTON PADDOCK UNIT Lea County, New Mexico | M CONS | | | | | | | | | .• | | | | | |
| | | | JNIT | CYPRESS PETROLEUM CONSULTANTS RICHARDSON, SANGREE AND SNEIDER | | | | | | | | | | | | | | |
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STATE OF NÊW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

RECEIVED

'91 JUL 11 AM 8 58

BRUCE KING GOVERNOR

6-24-91

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

N DIVISION

| OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 |
|---|
| RE: Proposed: MC DHC NSL NSP SWD WFX PMX |
| Gentlemen: |
| I have examined the application for the: Dreenfill let Corp. Lovington Paddock Unit # 107-C 1-17-3, Operator Lease & Well No. Unit S-T-R |
| and my recommendations are as follows: |
| |
| |
| |
| Yours very truly, Jerry Sexton Supervisor, District 1 |



12777 JONES ROAD, SUITE 375 HOUSTON, TEXAS 77070 TELEPHONE (713) 955-1146 FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

June 17, 1991

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

Attn: Mike Stogner

Re:

Unorthodox Location and Drilling Permit

Proposed Well No. 117 Lovington Paddock Lea County. New Mexico

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 117 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock 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 No. 117 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 you earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport

Landman

MJN:JB Enclosures

State of New Mexico Energy, Minerals and Natural Resources Department

Submit to Appropriate
District Office
State Lease - 6 copies
For Lease - 5 copies

OIL CONSERVATION DIVISION

| Form | C-101 | |
|--------|---------|---|
| Revise | ± 1·1-5 | 9 |

| DISTRICT 1 P.O. Box 1980, Hoods, NA | M 88240 | , | ed by OCD on New Wells) | | | | | | |
|---|-------------------------|--|---|-------------------|------------------------------|--|--|--|--|
| DISTRICT II P.O. Drawer DD, Arlesia, | | anta Fe, New Mexi∞ | | 5. Indicate Type | STATE X FEE | | | | |
| DISTRICT III 1000 Rio Brazos Rd., Azte | sc, NM 87410 | | | 6. State Oil & C | ist Lease No. B2359 | | | | |
| APPLICA | TION FOR PERMIT | TO DRILL, DEEPEN, C | OR PLUG BACK | | | | | | |
| 12. Type of Work: | | | | 7. Lease Name of | or Unit Agreement Name | | | | |
| DRIL | L 🔀 RE-ENTER | DEEPEN | PLUG BACK | | | | | | |
| b. Type of Well: Off. Area Area Area Area Area Area Area Area | OTHER | SINGLE ZONE | MULTIPLE ZONE | LOVINGTO | N PADDOCK UNIT | | | | |
| 2. Name of Operator | | | | 8. Well No. | | | | | |
| GREENHILL P | ETROLEUM CORPOR | ATION | | 117 | | | | | |
| 3. Address of Operator 11490 WESTH | EIMER, STE., 20 | 1 | 9. Pool name or Wildcat LOVINGTON PADDOCK | | | | | | |
| 4. Well Location Unit Letter B | : <u>1265</u> Foot F | rom The NORTH | Line and 256 | O Feet From | The FAST Line | | | | |
| Section 1 | Towns | tip 17S Rai | nge 36E | NMPM LEA | County | | | | |
| | | | | | | | | | |
| | | 10. Proposed Depth | 11 | . Formation | 12 Rossy or C.T. | | | | |
| 13. Elevations (Show wheth | er DF, RT, GR, etc.) | 4. Kind & Status Plug. Bond ON FILE | 15. Drilling Contract TBD | PADDOCK 16. | Approx. Date Work will start | | | | |
| 17. | PR | OPOSED CASING AN | ID CEMENT PRO | GRAM | | | | | |
| | | | | | | | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CE | | | | | |
| SIZE OF HOLE 12 1/4 | | WEIGHT PER FOOT 24 | SETTING DEPTH 2050 | 900 | SURFACE | | | | |
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| IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DI ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. | EEPEN OR FLUID BACK, GIVE DATA ON PRESENT PRODUCTIVE 201 | NE AND PROPOSED NEW PRODUCTIVE |
| I hereby carefy that the information above is true and complete to the best of my knowledge | and belief. | |
| SIGNATURE | TITLE LAND MANAGER-PERMIAN BASIN | DATE 6-18-91 |
| TYPE OR FRONTHAME MICHAEL J. NEWPORT | | телетноме но. 955-1146 |
| (This space for State Use) | , | |
| APPROVED BY | TITLE | DATE |

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| | + UNIT COUNDAL | Maps above in Reservoir Study of August 1985. | maps shown August 1965. |
| 711 | · · | NOTE: (1) Only Puddock completions are shown inside the unit boundaries. D! Was locations conform to Tesaco | NOTE: (I) Only Paddoc inside the un |
| LOVINGTON PADDOCK UNIT | 12 | * | |
| CYPRESS PETROLEUM CONSULTANTS RICHARDSON, SANGREE AND SNEIDER | | | 5 |
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

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

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. GREENHILL PETROLEUM CORP. LOVINGTON PADDOCK UNIT 117 Unit Letter County Section Township LEA 17 SOUTH 36 EAST **NMPM** Actual Footage Location of Well: 1265 NORTH 2560 EAST feet from the feet from the line line and Dedicated Acreage: Ground level Elev. Producing Formation Pool Louington Paddock Unit 3830.3 Louington Paddock 40 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? X Yes 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 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 interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Printed Nam 2560 Position Landman Company Greenhill Petroleum Corp. 6/17/91 SURVEYOR CERTIFICATION I hereby certify that the well location at LONG 103°18'02" on this plat was plotted from field notes actual surveys made by me or under my LAT. 32°52'04" supervison, and that the same is true correct to the bast of my knowledge and belief. Date Surveyed 5-7-91 Signature & Seal of Professional Surveyor 676 RONAL-D. J. EIDSO 3239 1980 2310 1500 1000 900 330 660 990 1320 1650 2000



BRUCE KING GOVERNOR

'91 JUL 11 AM 8 58 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

6-24-91

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

| OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 | | |
|--|-------|-----------------|
| RE: Proposed: MC DHC NSL X NSP SWD WFX PMX | | |
| Gentlemen: | | |
| I have examined the application for the: Arenhold let Corp. Lowington faddack Unit # Operator Lease & Weld No. Unit S-T-R and my recommendations are as follows: OK | /17-B | <u>1-</u> 17-36 |
| Yours very truly, | | |
| verry Sexton Supervisor, District 1 | | |



12777 JONES ROAD, SUITE 375 HOUSTON, TEXAS 77070 TELEPHONE (713) 955-1146 FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

June 17, 1991

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit

Proposed Well No. 119 Lovington Paddock Lea County. New Mexico

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 119 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock 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 No. 119 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 you earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport

Landman

MJN:JB Enclosures

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| | 28 | ន | • | CYPRESS PETROLEUM CONSULTANTS RICHARDSON, SANGREE AND SNEIDER LOVINGTON PADDOCK UNIT Lea County, New Mexico // 9 |
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| | | | | NOTE: (I) Only Peddock completions are at inside the unit boundaries. (Z) West focusions conform to Tessor maps shown in Reservain Sharty of August 1965. |
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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II

P.O. Deswer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410 WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section Well No. LOVINGTON PADDOCK UNIT 119 GREENHILL PETROLEUM CORP. Section County 17 SOUTH LEA F. 37 EAST **NMPM** Actual Footage Location of Well: 1360 WEST NORTH feet from the feet from the line and Dedicated Acreage: Ground level Elev. Producing Formation Pool 20.2 Louington Paddock Louington Paddock

1. Outline the acreage dedicated to the subject well by colored peacil or hackure marks on the plat below. 3820.2 40 Acres 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Yes 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 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 interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information LONG. 103°17'53" ained herein in true and complete to the LAT. 32°52'02" best of my knowledge and belief. 235 Landman Company Greenhill Petroleum Corn. Date 6/17/91 SURVEYOR CERTIFICATION 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 supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 5-6-91 Signature & Seal of Professional Surveyor RONALD3239 L EIDSON,

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1980 2310 2640

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990

1320 1650

Submit to Appropriate District Office State Lease — 6 copies Foe Lease — 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 DISTRICT I P.O. Box 1980, Hobbs, NM 88240

| Forms C | -101 |
|---------|--------|
| Revised | 1-1-89 |

API NO. (assigned by OCD on New Wells)

| DISTRICT II P.O. Drawer DD, Artesia, I | S | anta Fe, New Mexico | 87504-2088 | 5. Indicate Type of Le | STATE FEE X | |
|---|----------------------|------------------------------------|-------------------------|------------------------|-------------------------|--|
| DISTRICT III 1000 Rio Brazos Rd., Azte | c, NM 87410 | | | 6. State Oil & Gas Le | | |
| APPLICAT | TION FOR PERMIT T | O DRILL, DEEPEN, O | OR PLUG BACK | | | |
| la. Type of Work: | · | | | 7. Lease Name or Unit | i Agreement Name . | |
| 1 | RE-ENTER | DEEPEN | PLUG BACK | | | |
| b. Type of Well: Off GAS WELL X WELL | OTHER | SINOLE ZONE | MULTIPLE ZONE | LOVINGTON PA | DDOCK UNIT | |
| 2. Name of Operator GREENHILL PE | TROLEUM CORPORA | TION | | 8. Well No. 119 | | |
| 3. 11490 WESTHEII | MER, STE., 200, | 9. Pool name or Wilde LOVINGTON PA | • | | | |
| 4. Well Location Unit Letter E: 235 Feet From The WEST Line and 1360 Feet From The NORTH Line | | | | | | |
| Section 6 | Towns | up 17S Ra | nge 37E | NMPM LEA | County | |
| | | | | | | |
| | | 10. Proposed Depth | 1 | Formation ADDOCK | 12 Rosary or C.T. | |
| 13. Elevations (Show whether | er DF, RT, GR, etc.) | 4. Kind & Status Plug. Bond | 15. Drilling Contractor | | z. Date Work will start | |
| 3820.2 | | ON FILE | TBD | | | |
| 17. PROPOSED CASING AND CEMENT PROGRAM | | | | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMEN | | |
| 12 1/4 | 8 5/8 | 24 | 2050 | 900 | SURFACE | |
| 7 7/8 | 5 1/2 | 15.5 | 6600 | TO BE DETERMI | | |
| | | | | BY FLD. CALIP | ER | |

| IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSED PROGRAM: # PROPOSED PROGRAM: # ANY. | AL IS TO DESPEN OR ILLIG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE |
|--|---|
| I hereby certify that the information above is true and complete to the best of my | Exponential and balled. TITLE LAND MANAGER-PERMIAN BASIN DATE 6-18-91 |
| TYTE OR PRINT NAME MICHAEL J. NEWPORT | ты деном 1 м0955-1146 |
| (This space for State Use) | • |
| AFFROYED BY | TITLE DATE |

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL BESOURCES DEPARTMENT OIL CONSERVATION DIVISION RECEIVED HOBBS DISTRICT DEFICION 28 RM 9 33

6-24-91

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

BRUCE KING GOVERNOR

| OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 | |
|---|---------|
| RE: Proposed: MC DHC NSL NSP SWD WFX PMX | |
| Gentlemen: | |
| Here examined the application for the: Here hill Pet Corp. Lovenston Paddack unit #119-E Operator Lease & Well No. Unit S-T-R and my recommendations are as follows: | 6-17-31 |
| | |
| | |
| Yours very truly, | |
| Jerry Sexton Supervisor, District 1 | |