

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

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 Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

30-025-31288

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B1505

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL  
WELL ☒

GAS  
WELL ☐

OTHER ☐

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

7. Lease Name or Unit Agreement Name

Lovington Paddock Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

112

3. Address of Operator

11490 Westheimer, Ste., 200, Houston, TX 77077

9. Pool name or Wildcat

Lovington Paddock

4. Well Location

Unit Letter K : 1370 Feet From The South Line and 2720 Feet From The West Line

Section 31

Township 16S

Range 37E

NMPM Lea

County

10. Proposed Depth

6600

11. Formation

Paddock

12. Rotary or C.T.

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

3815 GR

14. Kind & Status Plug. Bond

on file

15. Drilling Contractor

TBD

16. Approx. Date Work will start

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24	2050	900	Surface
7 7/8	5 1/2	15.5	6600	to be determined by fluid caliper	Surface

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.

SIGNATURE

*Michael J. Newport*

TITLE Land Manager-Permian Basin DATE 6-6-91

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 955-1146

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT I SUPERVISOR

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NEL-3020

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.

JUN 24 1991

**MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-63

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

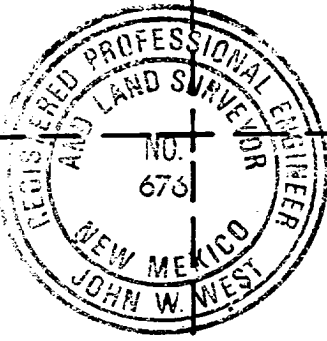
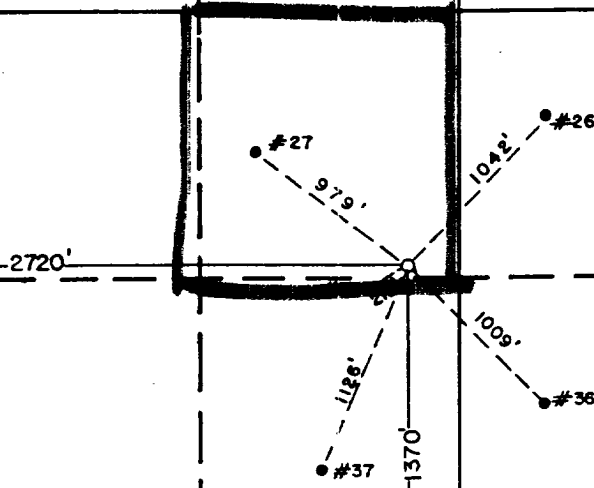
Operator <b>GREENHILL PETROLEUM CORP.</b>			Lease <b>LOVINGTON PADDOCK UNIT</b>		Well No. <b>112</b>
Unit Letter <b>K</b>	Section <b>31</b>	Township <b>16 SOUTH</b>	Range <b>37 EAST</b>	County <b>LEA</b>	
Actual Footage Location of Well: <b>1370</b> feet from the <b>SOUTH</b> line and <b>2720</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>3815.5</b>	Producing Formation <b>Lovington Paddock</b>		Pool <b>Lovington Paddock</b>		Dedicated Acreage: <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 unitized

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.

<div style="text-align: center;">  </div> <div style="margin-top: 20px;"> <p>LONG. 103°17'26"</p> <p>LAT. 32°52'30"</p> </div> <div style="margin-top: 20px;">  </div>	<div style="text-align: center;"> <p><b>CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p style="text-align: right;"><i>Michael J. Newport</i></p> <p>Name <u>Michael J. Newport</u></p> <p>Position <u>Landman</u></p> <p>Company <u>Greenhill Petroleum Corp</u></p> <p>Date <u>6/5/91</u></p> <p>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.</p> <p>Date Surveyed <u>5-13-91</u></p> <p>Registered Professional Engineer and/or Land Surveyor <i>John W. West</i></p> <p>Certificate No. <u>JOHN W. WEST 676</u></p> <p align="right"><b>Ronald J. Eidson 3239</b></p> </div>
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GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON PADDOCK WELL # 112

Casing Program

BOP Program

Size	Depth	Wt	Grade	Configuration	Test Pressure
8 5/8"	2050'	24	H40, STC	RA	200 psi
5 1/2"	6350'	15.5	K55, STC	RR	250/1500 psi

\* RR - Ram Ram

RA - Ram Annular

Diverter - Hydrill may be substituted for a diverter



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

6-14-91

BRUCE KING  
GOVERNOR

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

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

782-3020

RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_  
NSL ☒ \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Greenhill Pet Corp., Lovington Paddock Unit #112-K 31-16-37  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

Jerry Sexton  
Jerry Sexton  
Supervisor, District 1

/ed



# GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

June 6, 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. 112  
Lovington Paddock  
Lea County. New Mexico

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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 112 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. 112 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.

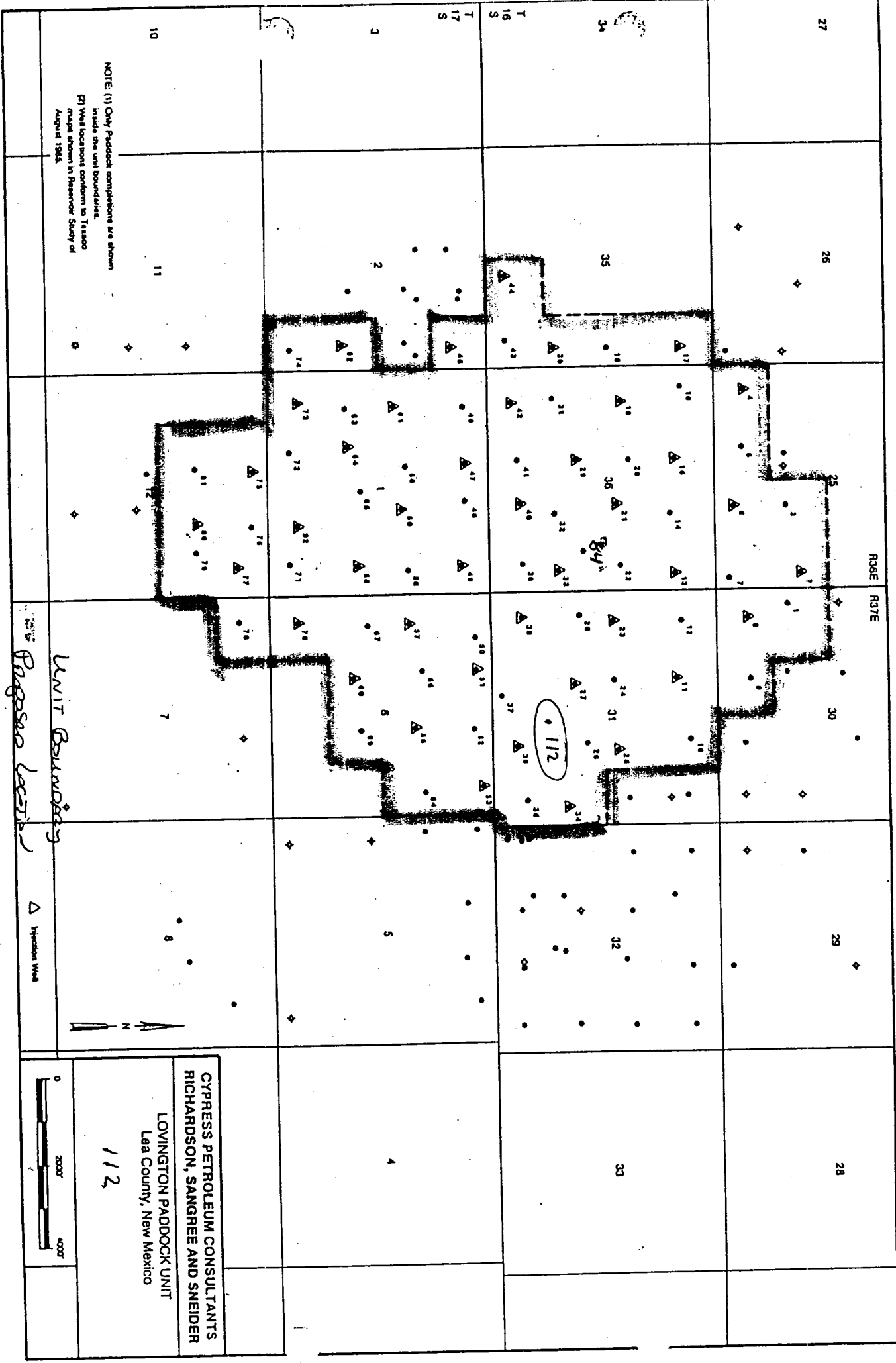
Greenhill Petroleum Corporation wishes to commence drilling operations on the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

*Michael J. Newport*  
Michael J. Newport  
Landman

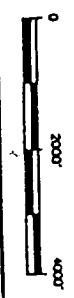
MJN:JB  
Enclosures



NOTE: (1) Only Padlock completions are shown inside the unit boundaries.  
 (2) Well locations conform to Texas maps shown in Reservoir Study of August 1985.

UNIT Boundary  
 Padlock location

Injection Well



112

CYPRESS PETROLEUM CONSULTANTS  
 RICHARDSON, SANGREE AND SNEIDER  
 LOVINGTON PADDOCK UNIT  
 Lea County, New Mexico

76-12-0 8224

173

RECEIVED

JUN 13 1991

MOBILE OFFICE