



# GREENHILL PETROLEUM CORPORATION

Incorporated in Delaware, U.S.A.

RECEIVED  
OIL CONSERVATION DIVISION

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

'92 MAR 27 AM 9 47

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 76  
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 76 in the Lovington San Andres Unit, located in Lea County, New Mexico.

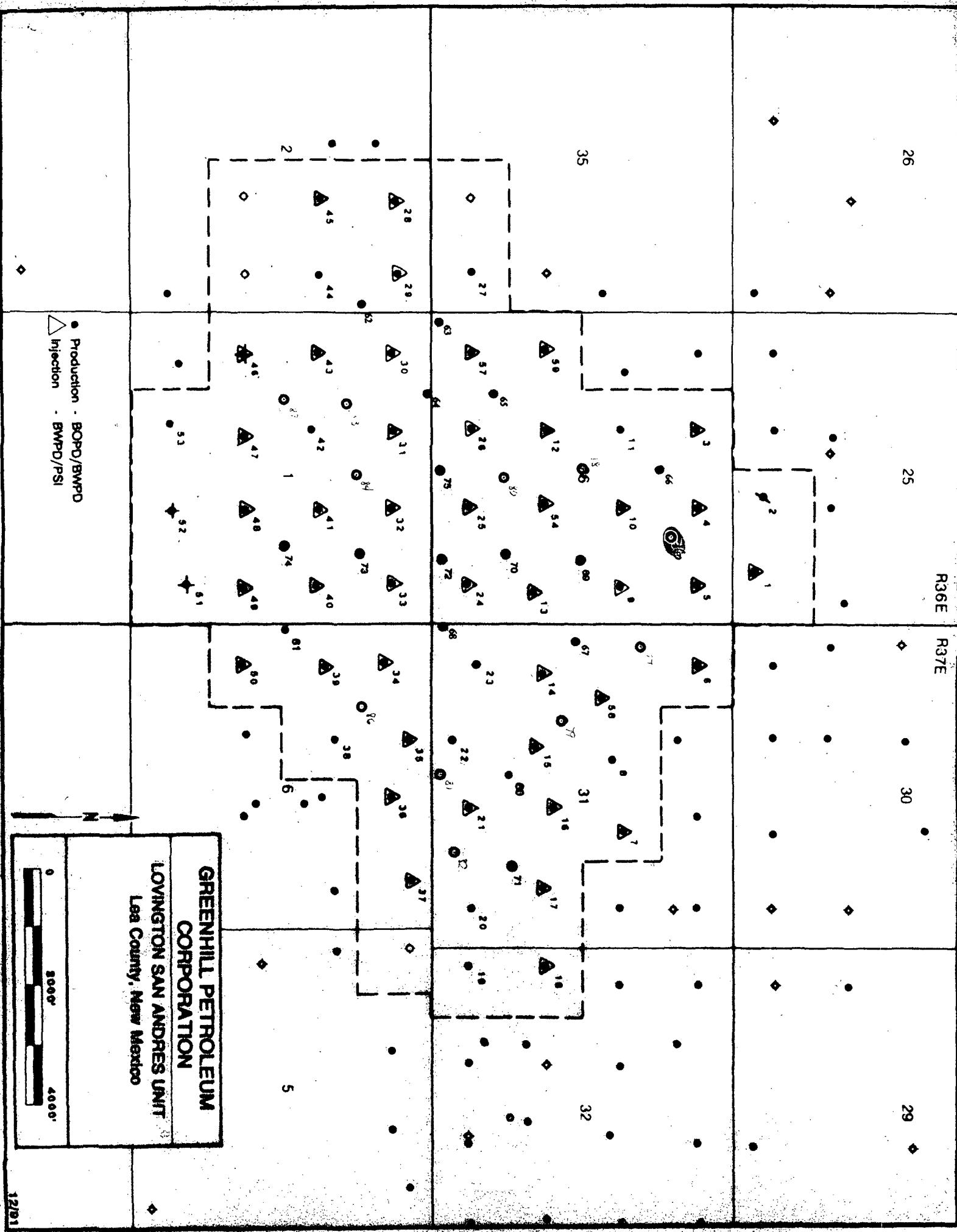
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 76 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures





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Lea County, New Mexico

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Respectfully yours,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

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)

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

B 2411

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#76

3. Address of Operator

11490 Westheimer, Ste. 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter B : 1058 Feet From The North Line and 1480 Feet From The East Line

Section 36

Township 16 South Range 36 East

NMPM

Lea County

10. Proposed Depth

5150'

11. Formation

San Andres

12. (Rotary) or C.T.

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

3830

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

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	1300'	550	Surface
7 7/8	5 1/2	15.5	5150'	1000	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

*Richard Newport*

TITLE

Land Manager-Permian Basin

DATE

3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

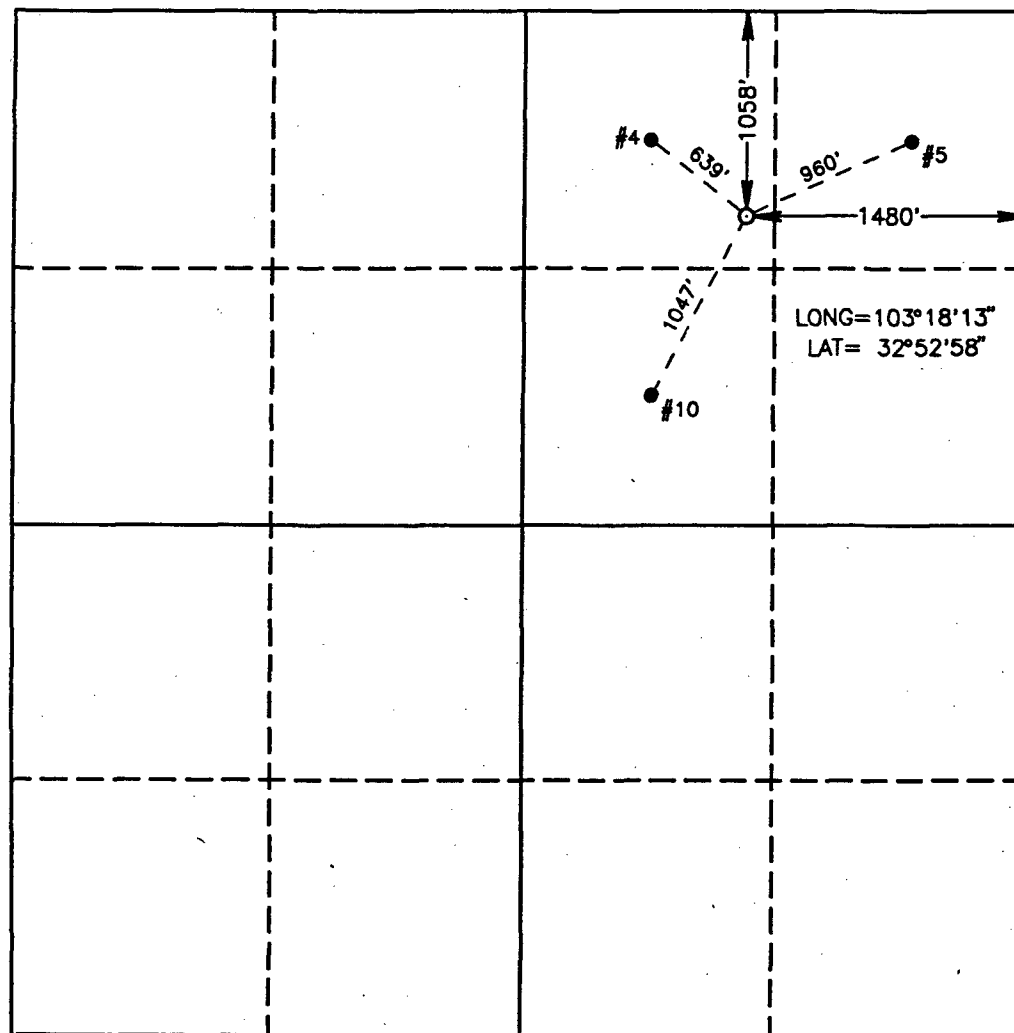
All Distances must be from the outer boundaries of the section

Operator GREENHILL PETROLEUM CORP.			Lease LOVINGTON SAN ANDRES UNIT		Well No. 76
Unit Letter B	Section 36	Township 16 SOUTH	Range 36 EAST	NMPM	County LEA
Actual Footage Location of Well: 1058 feet from the NORTH line and 1480 feet from the EAST line					
Ground Level Elev. 3830.0'	Producing Formation San Andres	Pool Lovington Grayburg San Andres		Dedicated Acreage: 40 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 interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature  
*Michael J. Newport*

Printed Name  
Michael J. Newport

Position  
Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corp.

Date  
3-23-92

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
MARCH 5, 1992

Signature & Seal of  
Professional Surveyor

REGISTERED LAND SURVEYOR  
*Ronald J. Eidson*  
Certificate No. JOHN W. WEST. 676  
RONALD J. EIDSON. 3239  
DARYL E. JONES. 7977  
RONALD J. EIDSON

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 76

<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<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.

sjs:s  
92.222

26

25

R36E

R37E

30

29

35

2

32

5

● Production - BOPD/BWPD  
△ Injection - BWPD/PSI

GREENHILL PETROLEUM  
CORPORATION  
LOVINGTON SAN ANDRES UNIT  
Lara County, New Mexico





**GREENHILL PETROLEUM CORPORATION** CONSERVATION DIVISION  
11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
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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 77  
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 77 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 77 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.

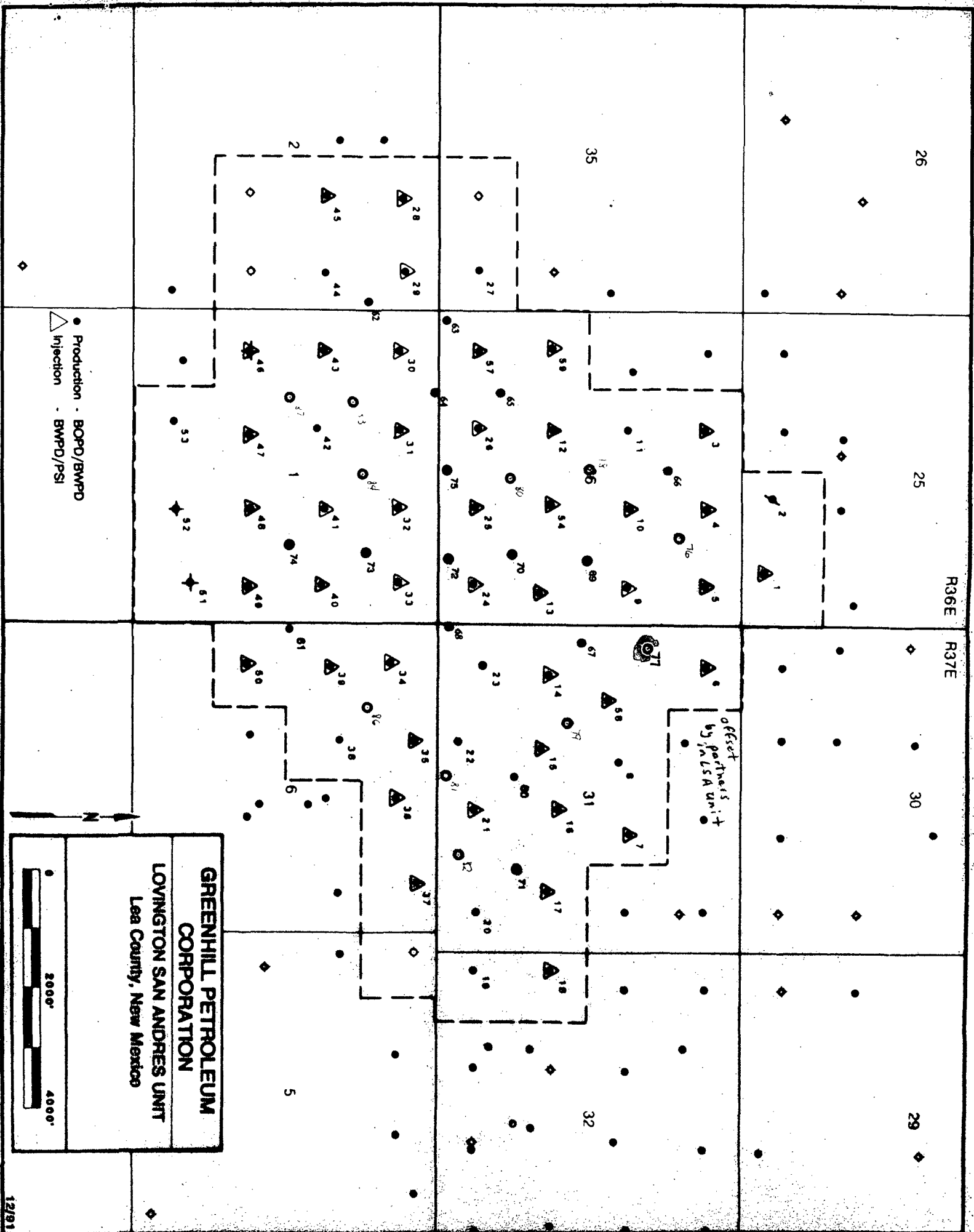
Greenhill Petroleum Corporation wishes to commence drilling operations on the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures





26

25

R36E

R37E

30

29

35

31

32

2

5

**GREENHILL PETROLEUM  
CORPORATION**  
**LOVINGTON SAN ANDRES UNIT**  
Lea County, New Mexico

● Production - BOPD/BWPD  
△ Injection - BWPD/PSI

2000'  
4000'

12/91



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March 23, 1992

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

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Proposed Well Number 77  
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 77 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 77 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.

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Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

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)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#77

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter E : 1582 Feet From The North Line and 381 Feet From The West Line

Section 31

Township 16 South Range 37 East

NMPM

Lea, County

10. Proposed Depth  
5150'

11. Formation  
San Andres

12. ☒ Rotary or C.T.

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

3830

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{2}$	8 $\frac{5}{8}$	24	1300'	550	Surface
7 $\frac{7}{8}$	5 $\frac{1}{2}$	15.5	5150'	1000	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

3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**Santa Fe, New Mexico 87504-2088**

1000 Rio Brazos Rd., Aztec, NM 87410

**All Distances must be from the outer boundaries of the section**

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

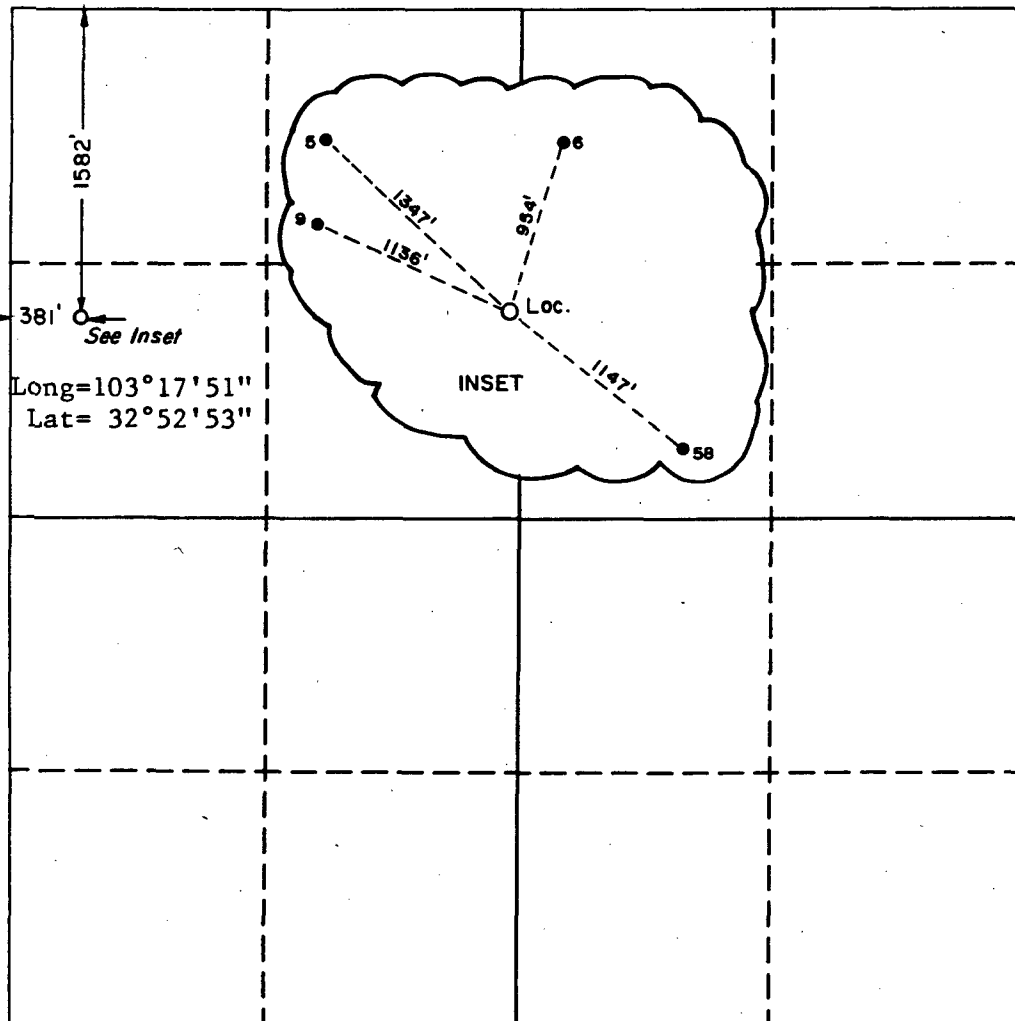
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☒ Yes      ☐ No      If answer is "yes" type of consolidation      unitized

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best of my knowledge and belief.

**Signature**

Printed Name \_\_\_\_\_

Michael J. Newport

**Position**

Land Manager-Permian Basin

**Company**

Greenhill Petroleum Corp.

Data

3-23-92


### 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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed \_\_\_\_\_

February 19, 1992

**Signature & Seal of  
Professional Surveyor**


 Certificate No. 1000 JOHN A. WEST 678  
 RONALD E. EDSON 3239  
 State of Nevada 7877  
 W.O. 92-11-5038

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 77

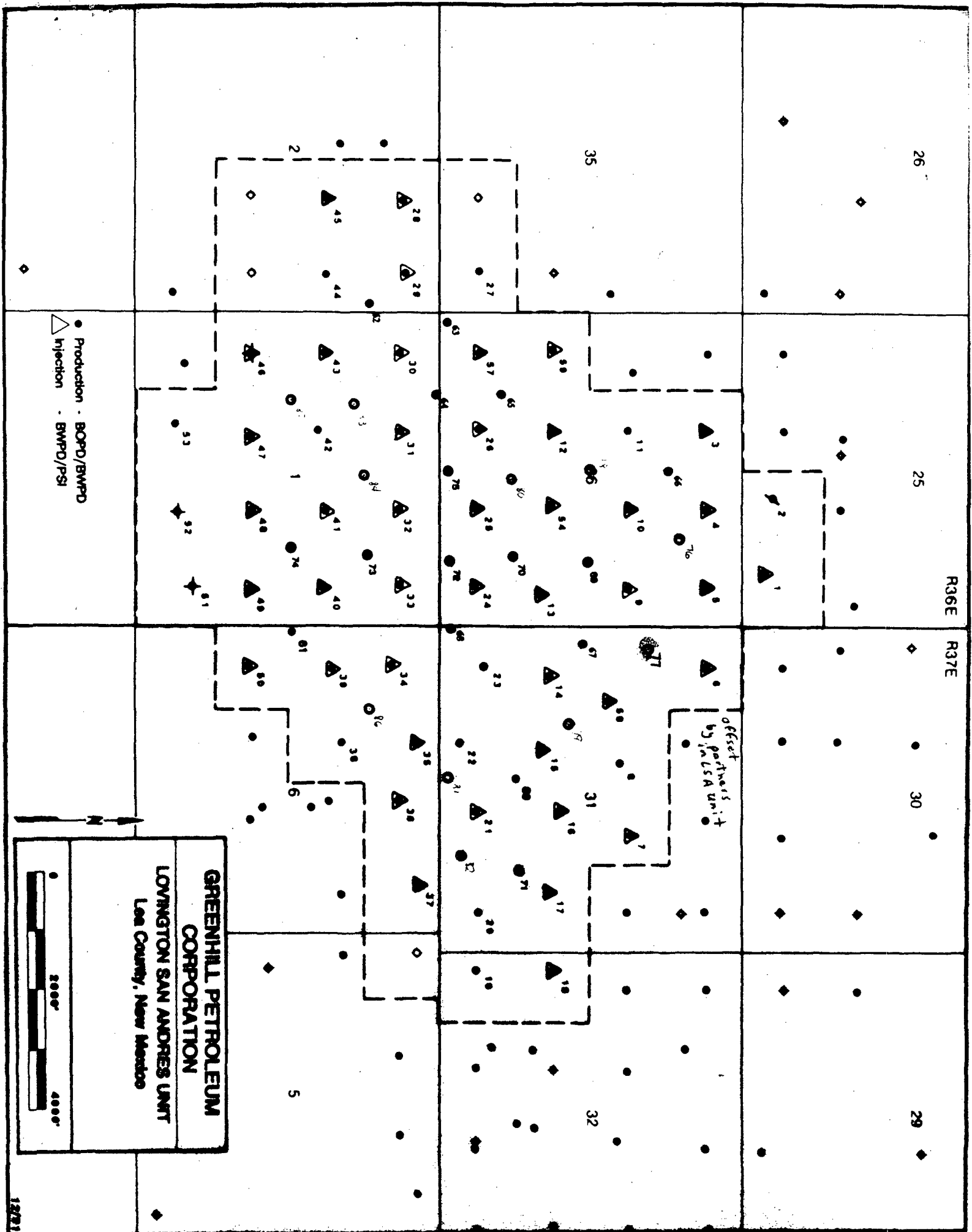
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222



**GREENHILL PETROLEUM CORPORATION**  
**LOVINGTON SAN ANDRES UNIT**  
 Lea County, New Mexico





# GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION  
RECEIVED

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March 23, 1992

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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 78  
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 78 in the Lovington San Andres Unit, located in Lea County, New Mexico.

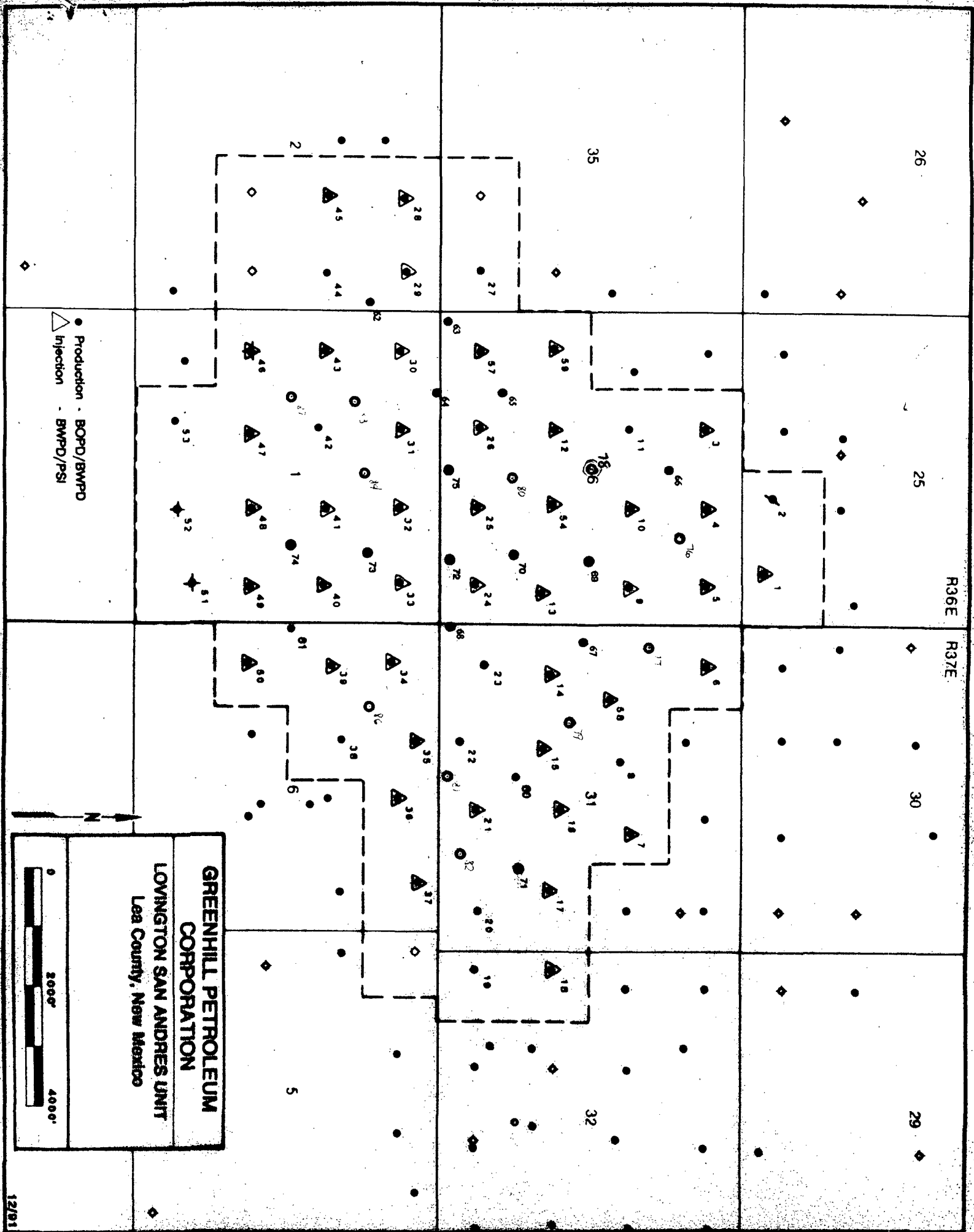
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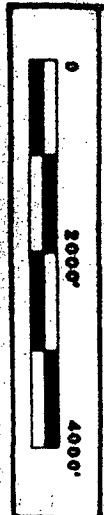
Respectfully yours,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures



GREENHILL PETROLEUM  
CORPORATION  
LOVINGTON SAN ANDRES UNIT  
Lea County, New Mexico







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Land Manager-Permian Basin

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Enclosures

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

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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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 2894

**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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#78

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter G : 2575 Feet From The North Line and 2630 Feet From The West Line

Section 36

Township 16 South

Range

36 East

NMPM

Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

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

3833

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

**PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/2	8 5/8	24	1300'	550	Surface
7 7/8	5 1/2	15.5	5150'	1000	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 3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

**DISTRICT I**

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**DISTRICT II**

P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**

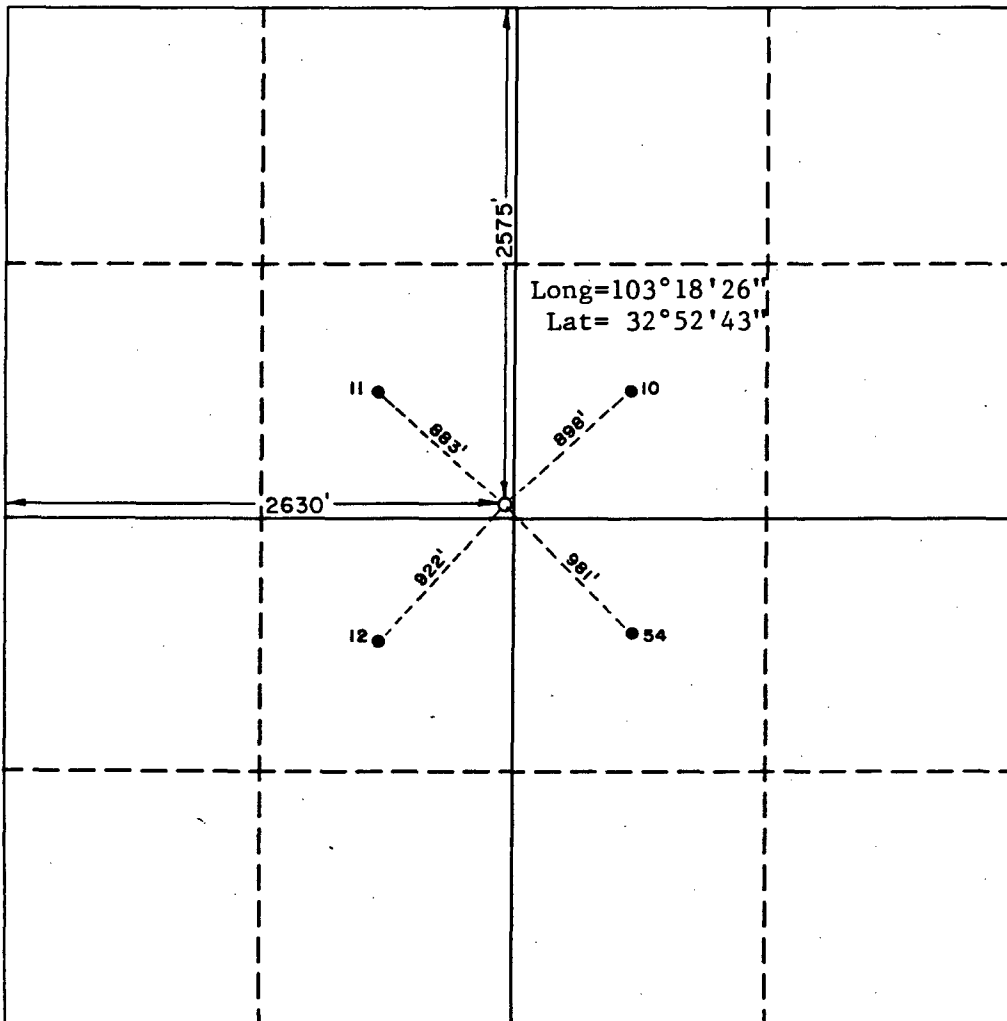
1000 Rio Brazos Rd., Artec, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

Operator Greenhill Petroleum Corp.			Lease Lovington San Andres		Well No. 78
Unit Letter G	Section 36	Township 16 South	Range 36 East	NMPM	County Lea
Actual Footage Location of Well: 2575 feet from the north line and 2630 feet from the west line					
Ground Level Elev. 3833.3'	Producing Formation San Andres		Pool Lovington Grayburg San Andres		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.?  
☒ Yes ☐ No If answer is "yes" type of consolidation unitized
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature

*Michael J. Newport*

Printed Name

Michael J. Newport

Position

Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corporation

Date

3-23-92

**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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

February 20, 1992

Signature & Seal of  
Professional Surveyor

*Ronald J. Edson*  
Certificate No. JOHN W. WEST 676  
RONALD J. EDSON 3839  
BART L. JONES 7877  
W.O. 92-11-0239

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 78

<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>		
<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.

sjs:s  
92.222

26

25

R36E

R37E

30

29

35

32

2

6

5

● Production - BOPD/BWPD  
△ Injection - BWPD/PSI

**GREENHILL PETROLEUM  
CORPORATION**  
**LOVINGTON SAN ANDRES UNIT**  
Lea County, New Mexico





# GREENHILL PETROLEUM CORPORATION

RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 79  
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 79 in the Lovington San Andres Unit, located in Lea County, New Mexico.

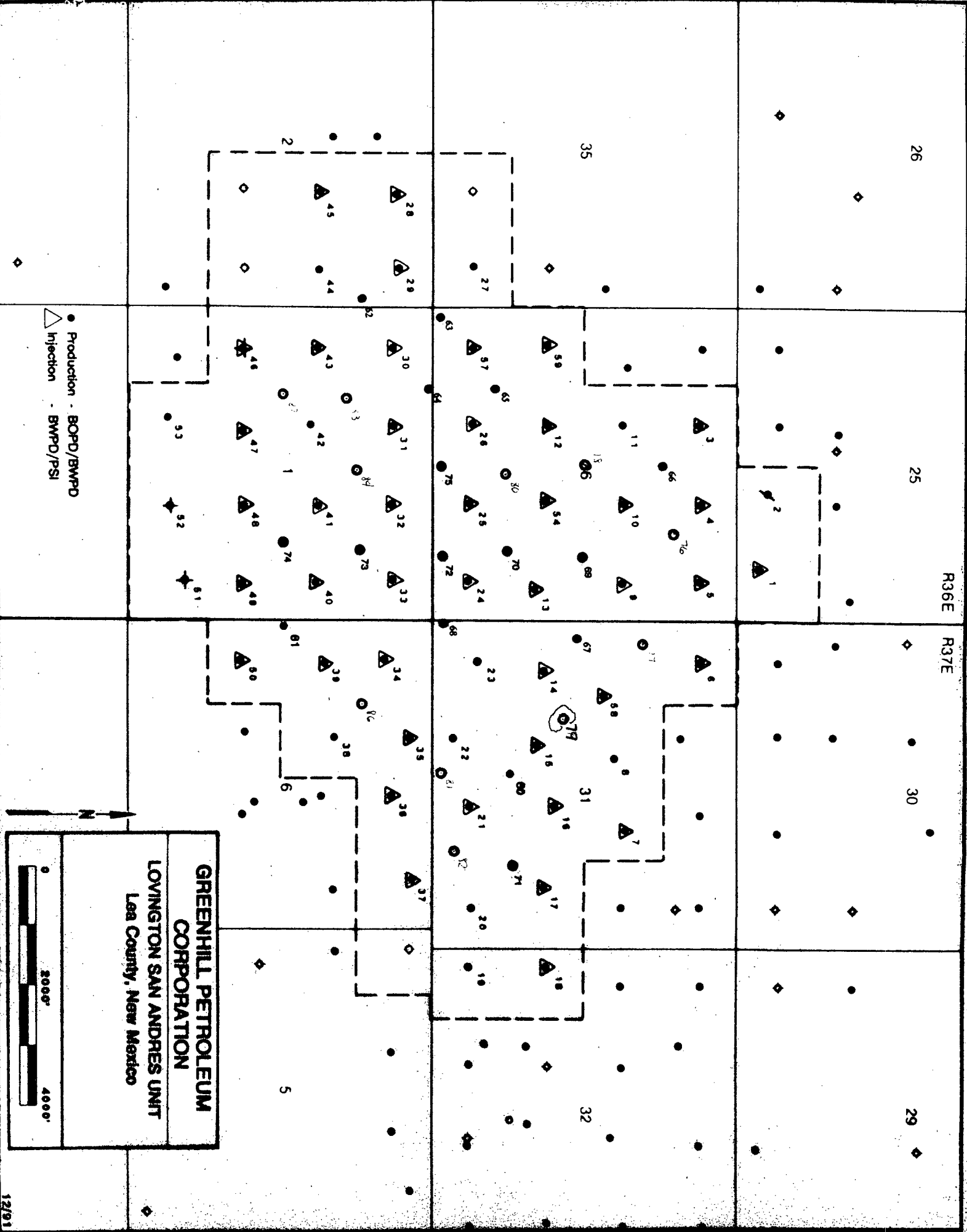
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 79 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures





# GREENHILL PETROLEUM CORPORATION

Oil Conservation Division  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 79  
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 79 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 79 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

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)

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

B 1505

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#79

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter K : 2225 Feet From The South Line and 1605 Feet From The West Line

Section 31

Township 16 South Range 37 East

NMPM

Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

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

3818

14. Kind & Status Plug Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/2	8 5/8	24	1300'	550	Surface
7 7/8	5 1/2	15.5	5150'	1000	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 3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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., Artec, NM 87410

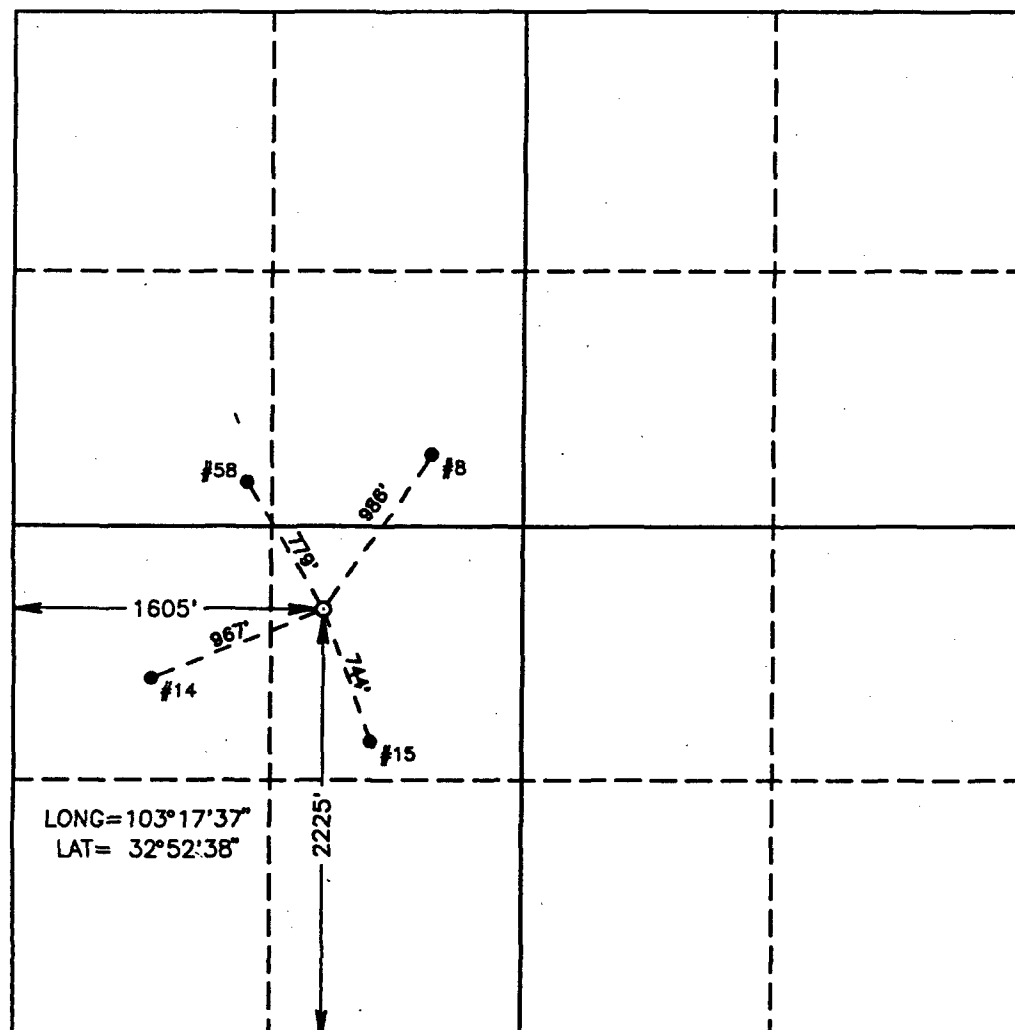
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator GREENHILL PETROLEUM CORP.			Lease LOVINGTON SAN ANDRES UNIT		Well No. 79
Unit Letter K	Section 31	Township 16 SOUTH	Range 37 EAST	NMPM	County LEA
Actual Footage Location of Well: 2225 feet from the SOUTH line and 1605 feet from the WEST line					
Ground Level Elev. 3818.3'	Producing Formation San Andres		Pool Lovington Grayburg San Andres		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.?  
☒ Yes ☐ No If answer is "yes" type of consolidation unitized

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)  
No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature Michael J. Newport  
Printed Name  
Michael J. Newport  
Position  
Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corp.  
Date  
3-23-92

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
FEBRUARY 20, 1992

Signature & Seal of  
Professional Surveyor

REGISTERED LAND SURVEYOR  
Certificate No. JOHN W. WEST 676  
RONALD J. EIDSON 3239  
GARY L. JONES 7877  
RONALD J. EIDSON

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 79

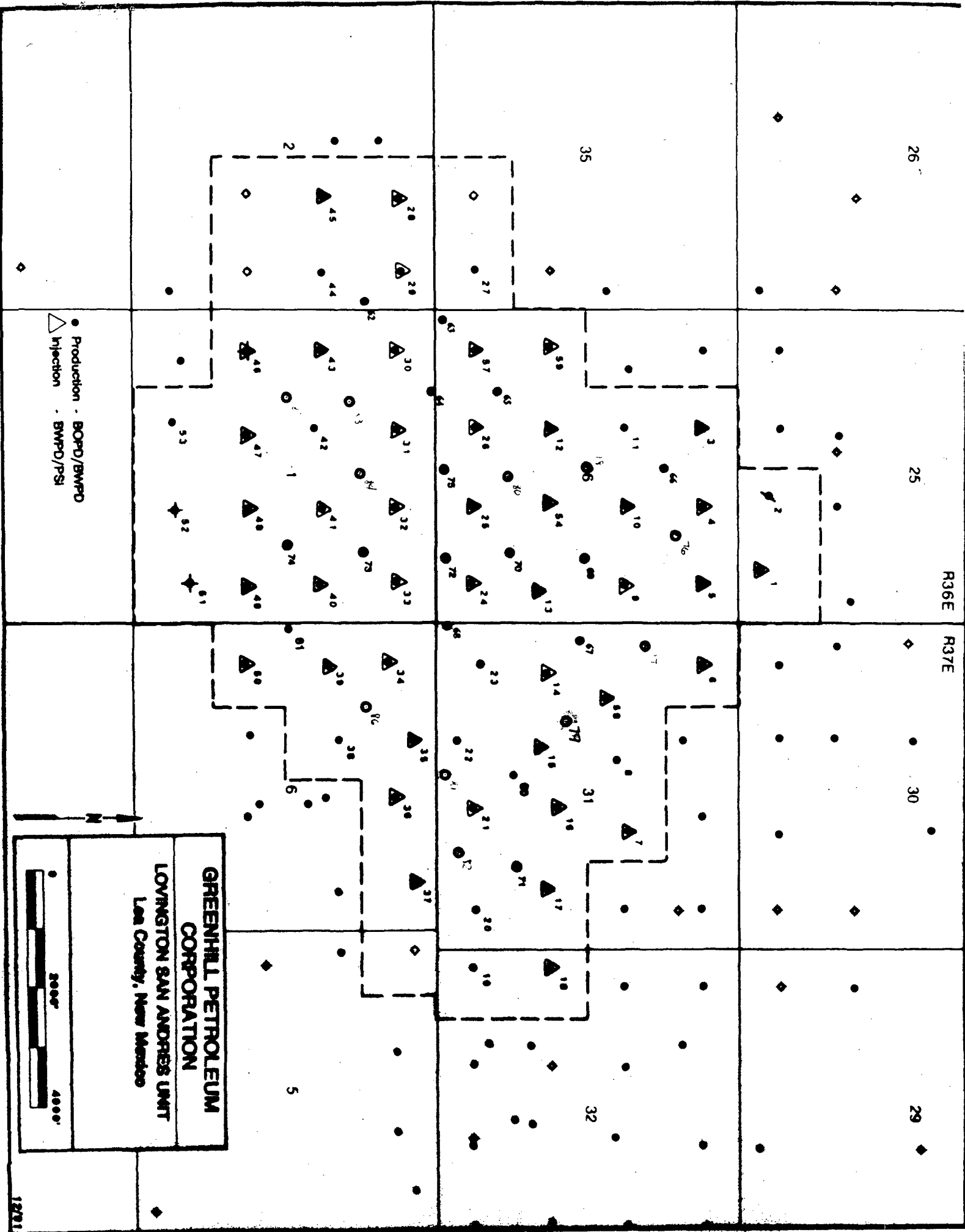
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222



26

25

R36E

R37E

30

29

35

32

31

2

5

GREENHILL PETROLEUM  
CORPORATION  
LOVINGTON SAN ANDRES UNIT  
Lea County, New Mexico

● Production - BOPD/BWPD  
△ Injection - BWPD/PSI

0 2000 4000'



# GREENHILL PETROLEUM CORPORATION

CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

'92 MAR 27 AM 9 47

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.

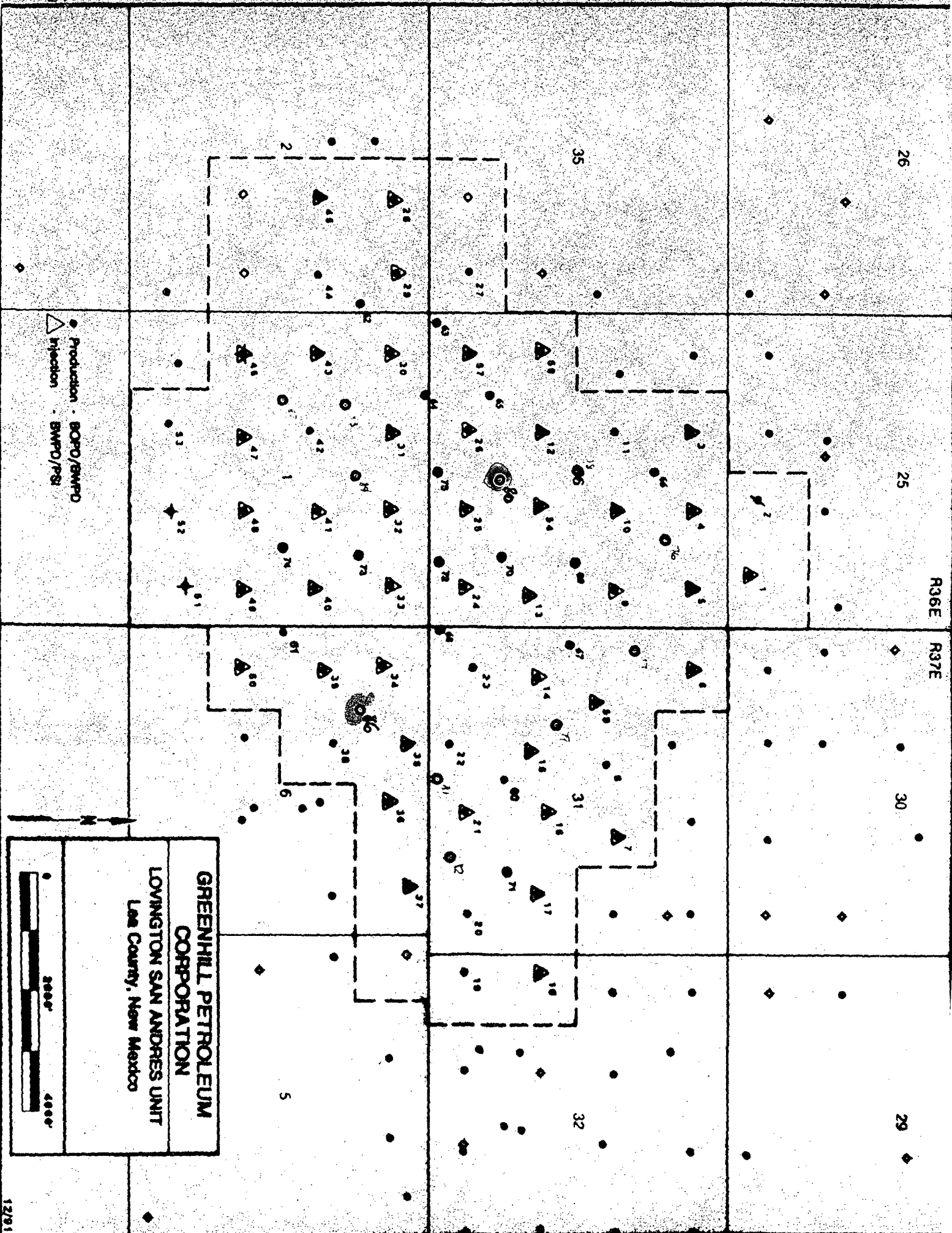
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 80 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 7845

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#80

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tex. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter 0 : 1225 Feet From The South Line and 2485 Feet From The East Line

Section 36

Township 16 South Range 36 East

NMPM

Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

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

3823

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{4}$	8 $\frac{5}{8}$	24	1300'	550	Surface
7 $\frac{7}{8}$	5 $\frac{1}{2}$	15.5	5150'	1000	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 3-23-92  
(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



# GREENHILL PETROLEUM CORPORATION

Oil Conservation Division  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 80 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,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures



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

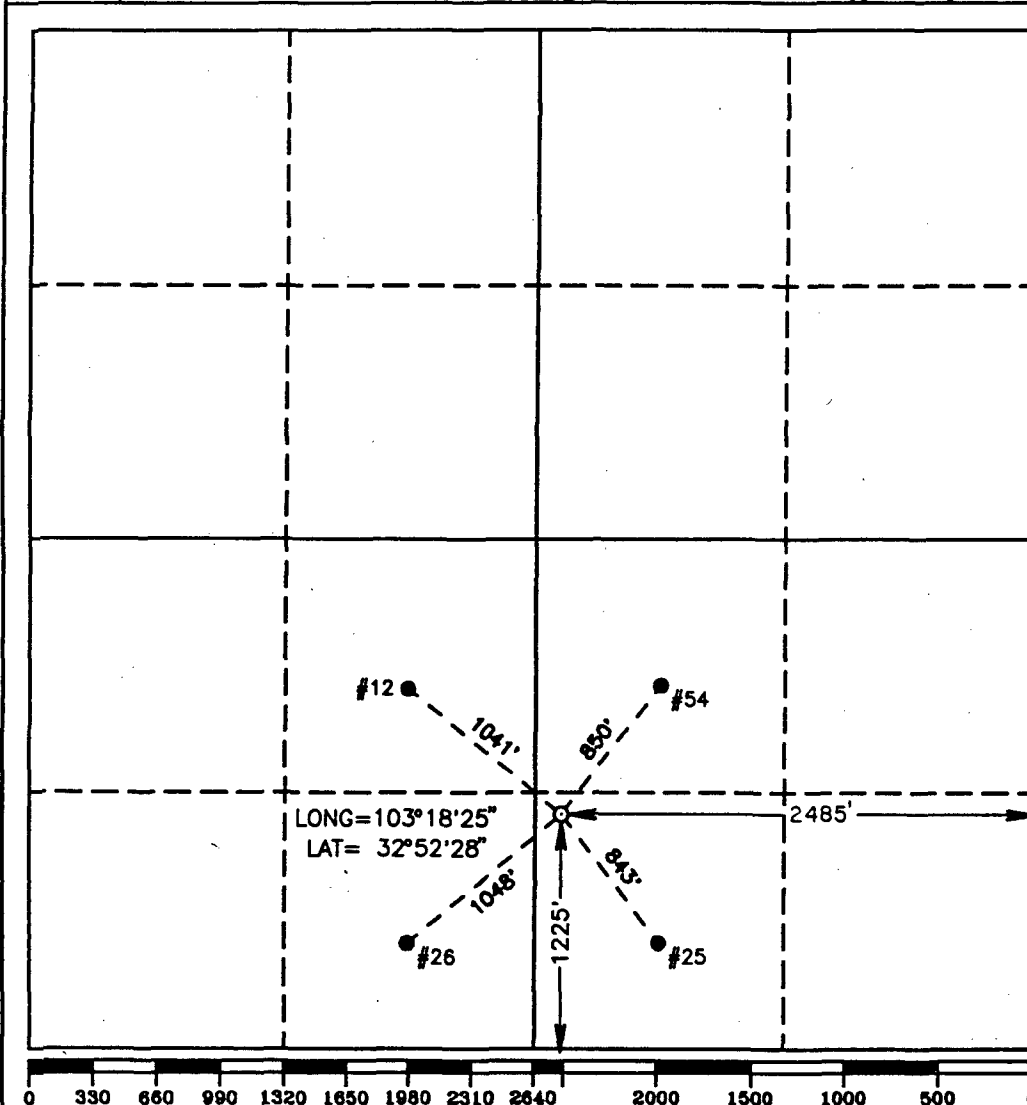
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator GREENHILL PETROLEUM CORP.			Lease LOVINGTON SAN ANDRES UNIT		Well No. 80
Unit Letter O	Section 36	Township 16 SOUTH	Range 36 EAST NMPM	County LEA	
Actual Footage Location of Well: 1225 feet from the SOUTH line and 2485 feet from the EAST line					
Ground Level Elev. 3823.4'	Producing Formation San Andres		Pool Lovington Grayburg San Andres		Dedicated Acreage: 40 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 interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)  
No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

Printed Name

Michael J. Newport

Position

Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corp.

Date

3-23-93

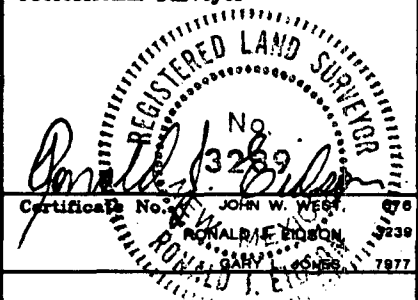
SURVEYOR CERTIFICATION

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

FEBRUARY 20, 1992

Signature & Seal of  
Professional Surveyor



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

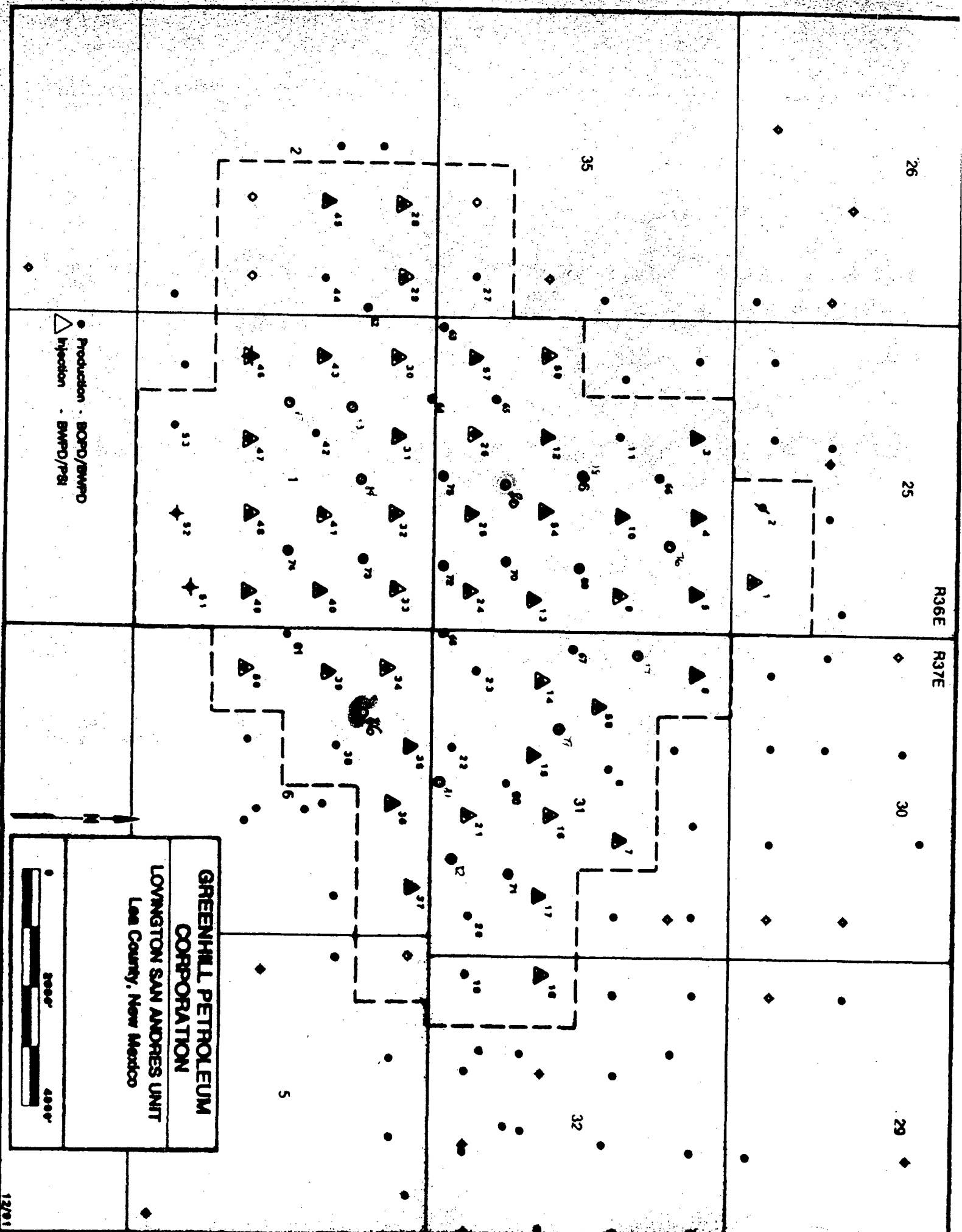
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222





# GREENHILL PETROLEUM CORPORATION

CON DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

'92 MAR 27 AM 9 47

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 81  
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 81 in the Lovington San Andres Unit, located in Lea County, New Mexico.

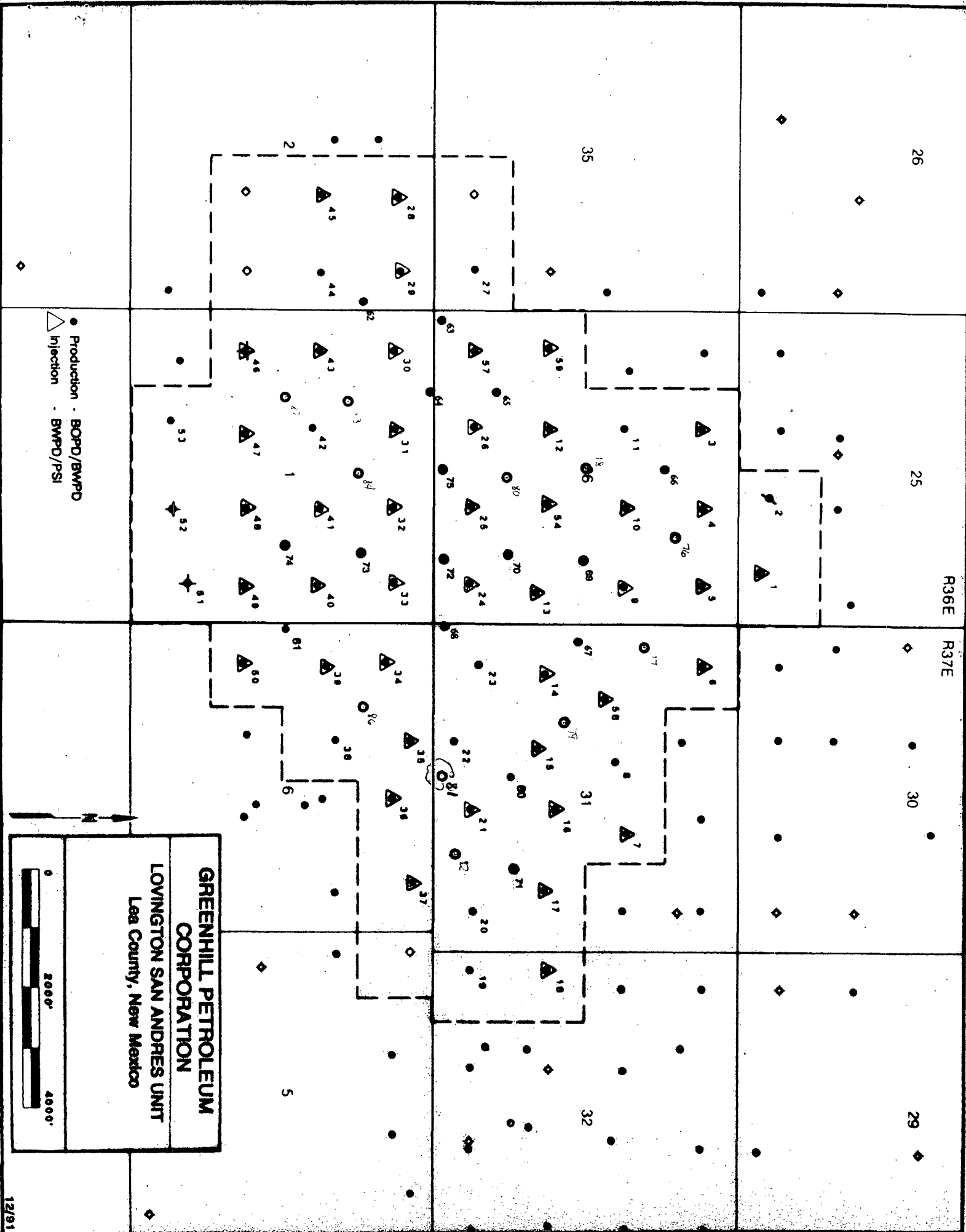
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 81 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,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures





# GREENHILL PETROLEUM CORPORATION

ON DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 81  
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 81 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 81 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.

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Respectfully yours,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 1505

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#81

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter N : 2532 Feet From The West Line and 122 Feet From The South Line

Section 31

Township 16 South Range 37 East

NMPM

Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

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

3808

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{2}$	8 $\frac{5}{8}$	24	1300'	550	Surface
7 $\frac{7}{8}$	5 $\frac{1}{2}$	15.5	5150'	1000	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 3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

## 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., Artesia, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

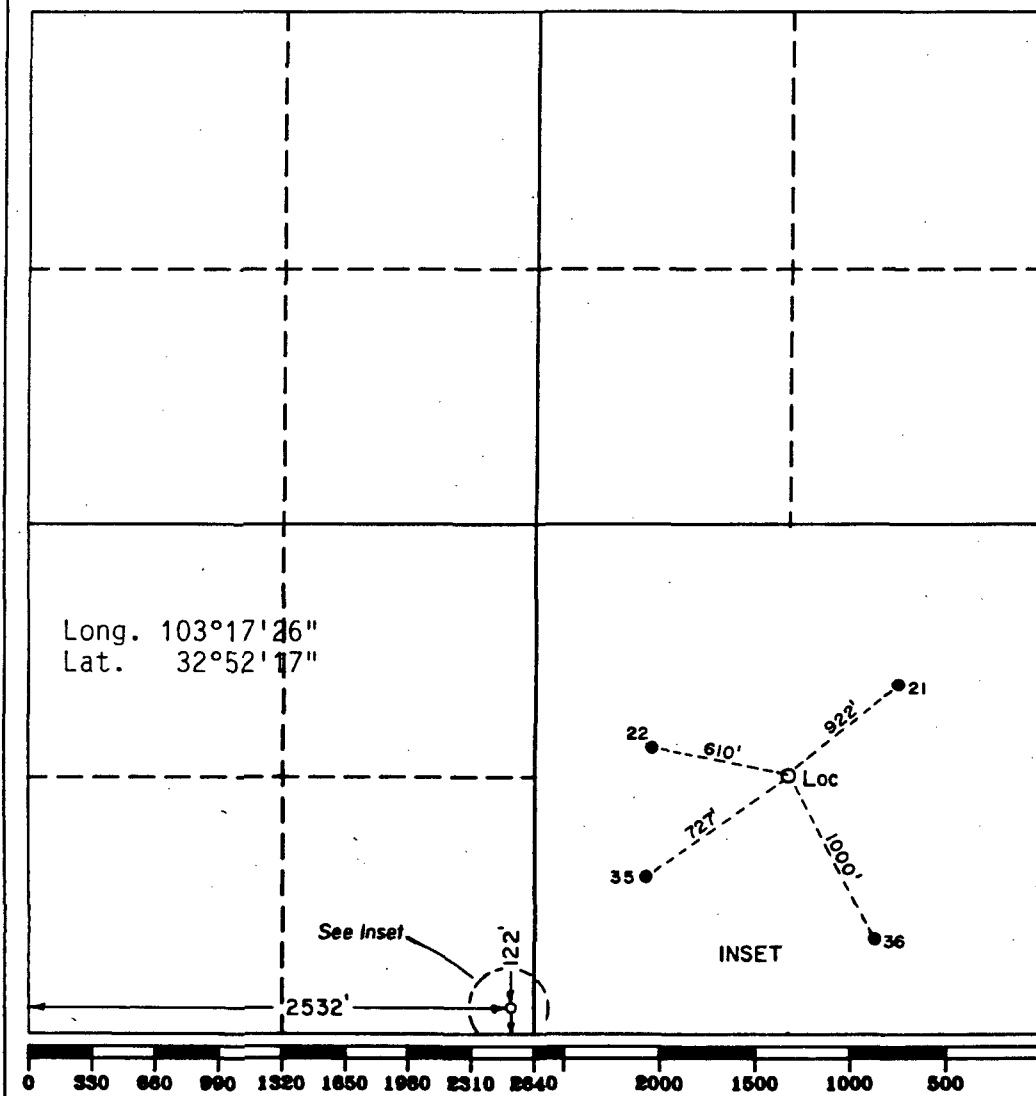
Operator Greenhill Petroleum Corp.			Lease Lovington San Andres Unit		Well No. 81
Unit Letter N	Section 31	Township 16 South	Range 37 East	County Lea	
Actual Footage Location of Well: 2532 feet from the West line and 122 feet from the South line					
Ground Level Elev. 3808.6	Producing Formation San Andres		Pool Lovington Grayburg San Andres		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 communization, unitization, force-pooling, etc.?

☒ Yes ☐ No If answer is "yes" type of consolidation unitized

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



### OPERATOR CERTIFICATION

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

Signature  
*Michael J. Newport*  
Printed Name  
Michael J. Newport

Position  
Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corp.

Date  
3-23-92

### 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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
March 6, 1992

Signature & Seal of  
Professional Surveyor

*Ronald J. Eidson*  
REGISTERED LAND SURVEYOR  
Certificate No. 3 JOHN W. WEST, 876  
RONALD J. EIDSON, 3239  
RAY L. JONES, 7877  
NEW MEXICO  
MAR 11 1992  
RONALD J. EIDSON 42

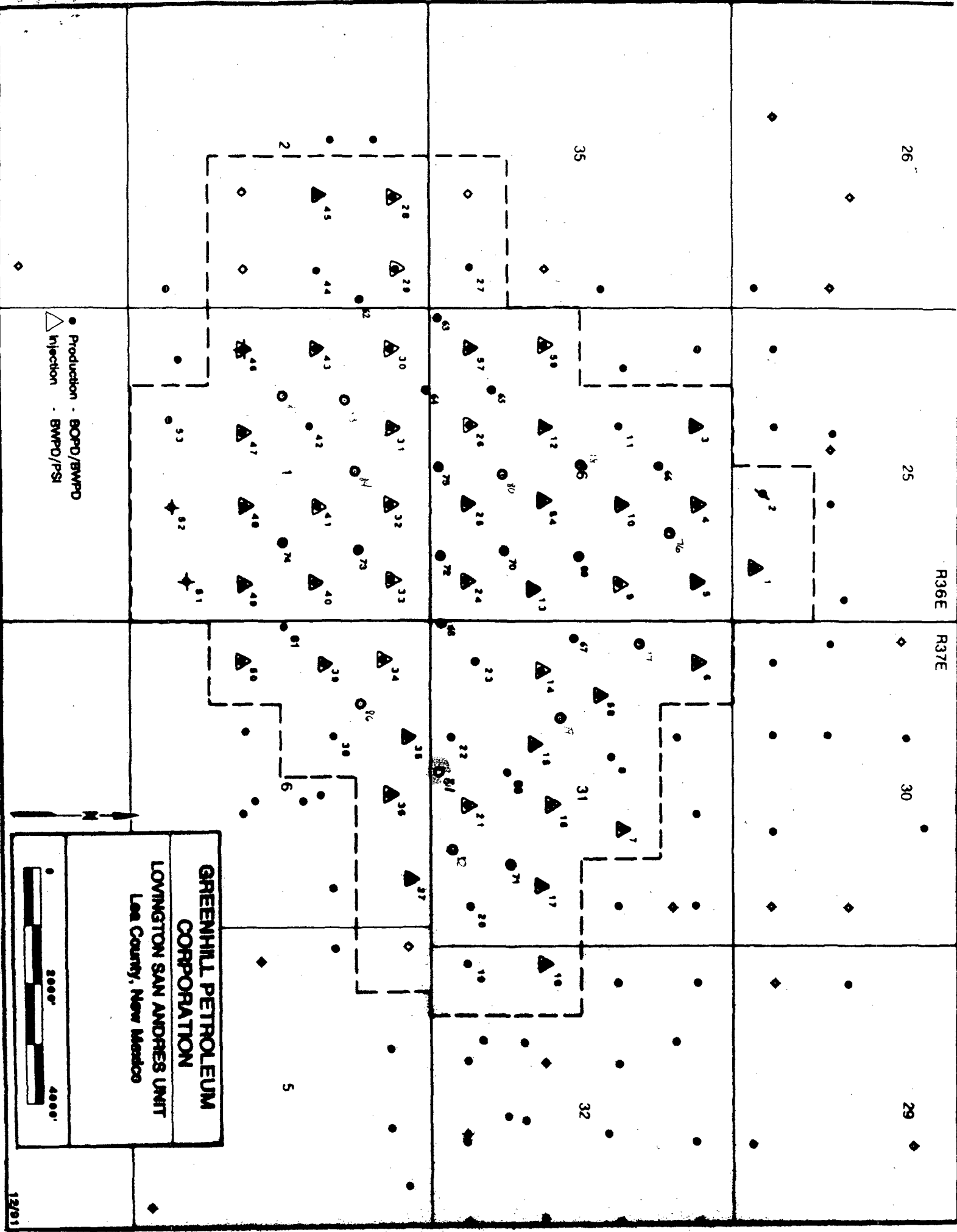


GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 81

<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<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.

sjs:s  
92.222





# GREENHILL PETROLEUM CORPORATION

Incorporated in Delaware, U.S.A.

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

OIL CONSERVATION DIVISION  
RECEIVED

'92 MAR 27 AM 9 47

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 82  
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 82 in the Lovington San Andres Unit, located in Lea County, New Mexico.

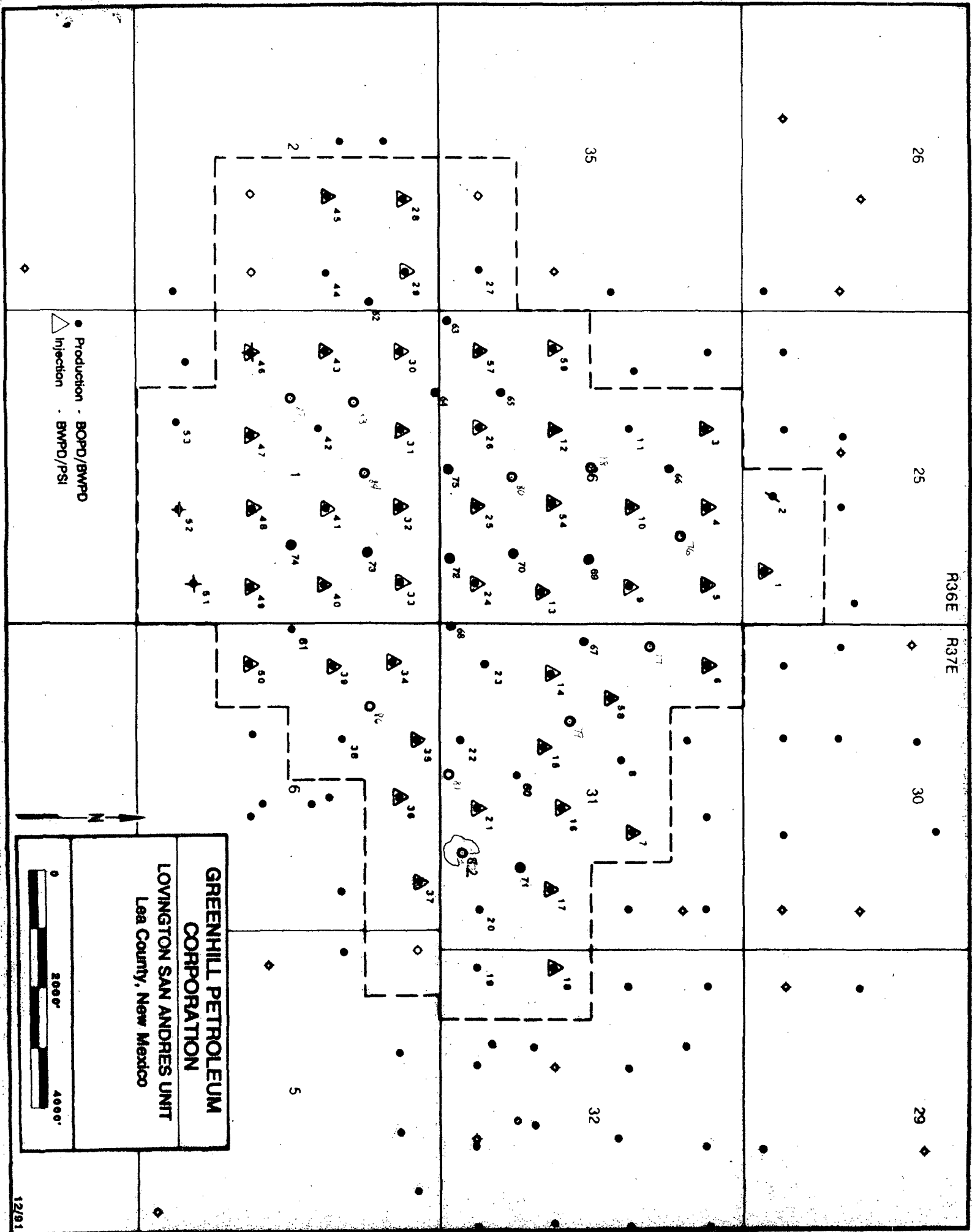
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 82 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,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures





# GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

OIL CONSERVATION DIVISION  
RECEIVED

'92 MAR 27 AM 9 47

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 82  
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 82 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 82 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,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 7896

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#82

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter 0 : 1630 Feet From The East Line and 350 Feet From The South Line

Section 31 Township 16 South Range 37 East NMPM Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

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

3806

14. Kind & Status Plug Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

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	1300'	550	Surface
7 7/8	5 1/2	15.5	5150'	1000	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 3-23-92

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO.

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

**DISTRICT I**

P.O. Box 1990, Hobbs, NM 88240

**DISTRICT II**

P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**

1000 Rio Brazos Rd., Artesia, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

Operator Greenhill Petroleum Corp.			Lease Lovington San Andres Unit		Well No. 82
Unit Letter 0	Section 31	Township 16 South	Range 37 East	County Lea	

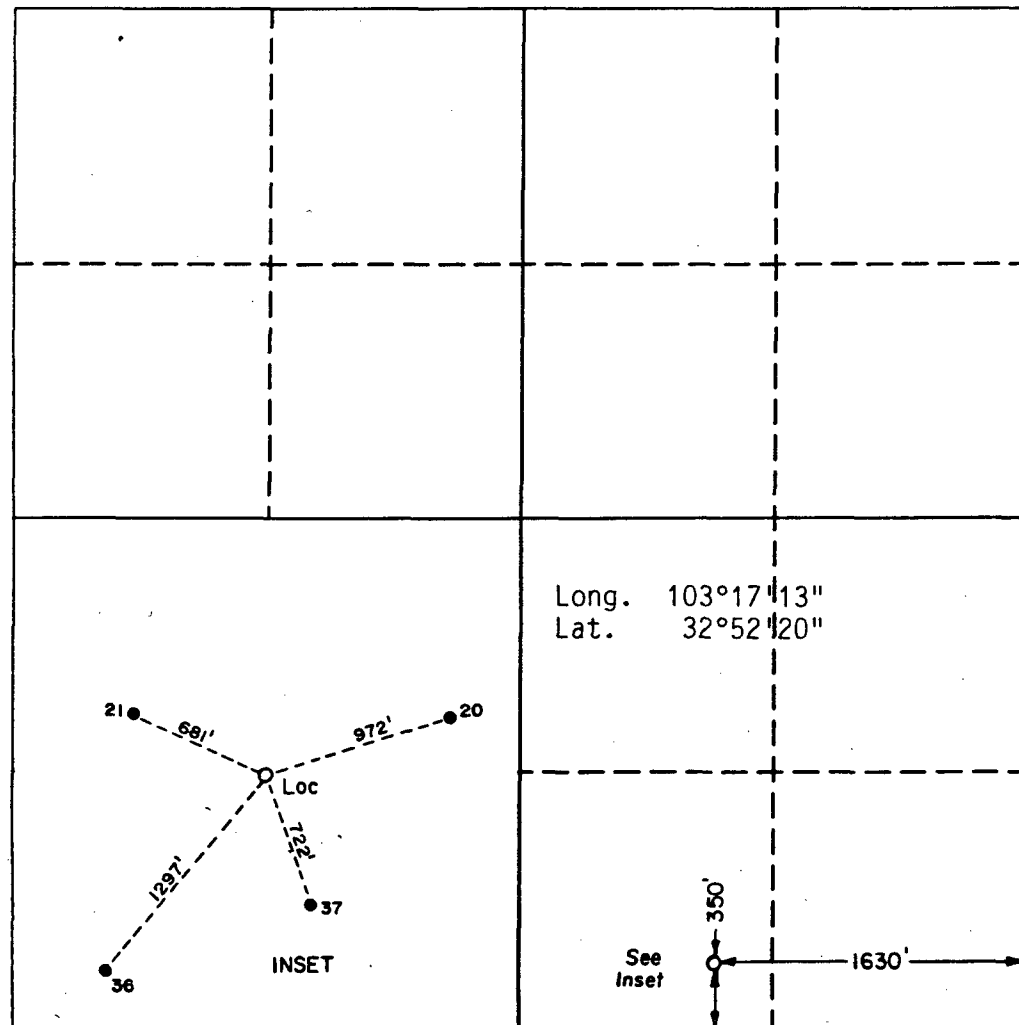
Actual Footage Location of Well:

1630 feet from the East	350 feet from the South
Ground Level Elev. 3806.3	Producing Formation San Andres
Pool Lovington Grayburg San Andres	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.?  
☐ Yes ☐ No If answer is "yes" type of consolidation unitized

xxx If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature Michael J. Newport  
Printed Name  
Michael J. Newport  
Position  
Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corp.  
Date  
3-23-92

**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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
March 6, 1992

Signature & Seal of  
Professional Surveyor

REGISTERED LAND SURVEYOR  
N.M.  
Certificate No. JOHN W. WEST 878  
RONALD J. EASON 2339  
DAVID L. JONES 7977  
W.O. 924011-0243

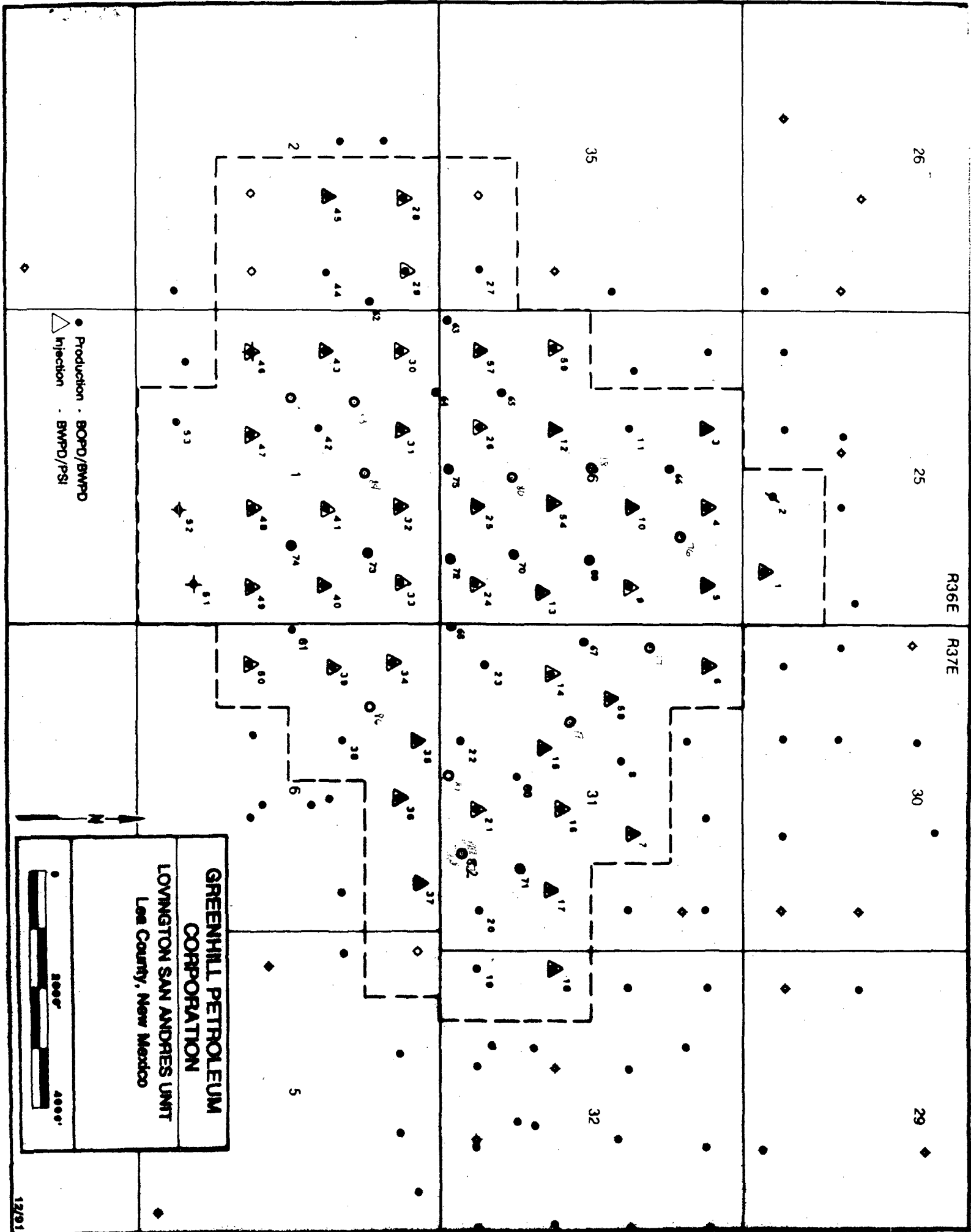
GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 82

<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<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.

sjs:s  
92.222







# GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 83  
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 83 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 83 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures

25

R36E

R37E

30

29

35

31

32

2

6

5

● Production - BOPO/BWPD  
△ Injection - BWPD/PSI

GREENHILL PETROLEUM  
CORPORATION  
LOVINGTON SAN ANDRES UNIT  
Lee County, New Mexico

2000'



**GREENHILL PETROLEUM CORPORATION**  
OIL CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 83  
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 83 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 83 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

**OIL CONSERVATION DIVISION**

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 1553

**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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#83

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter F : 1520 Feet From The West Line and 1472 Feet From The North Line

Section 1 Township 17 South Range 36 East NMPM Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

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

3831

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

**PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{2}$	8 $\frac{5}{8}$	24	1300'	550	Surface
7 $\frac{7}{8}$	5 $\frac{1}{2}$	15.5	5150'	1000	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 3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**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 Ed., Artesia, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

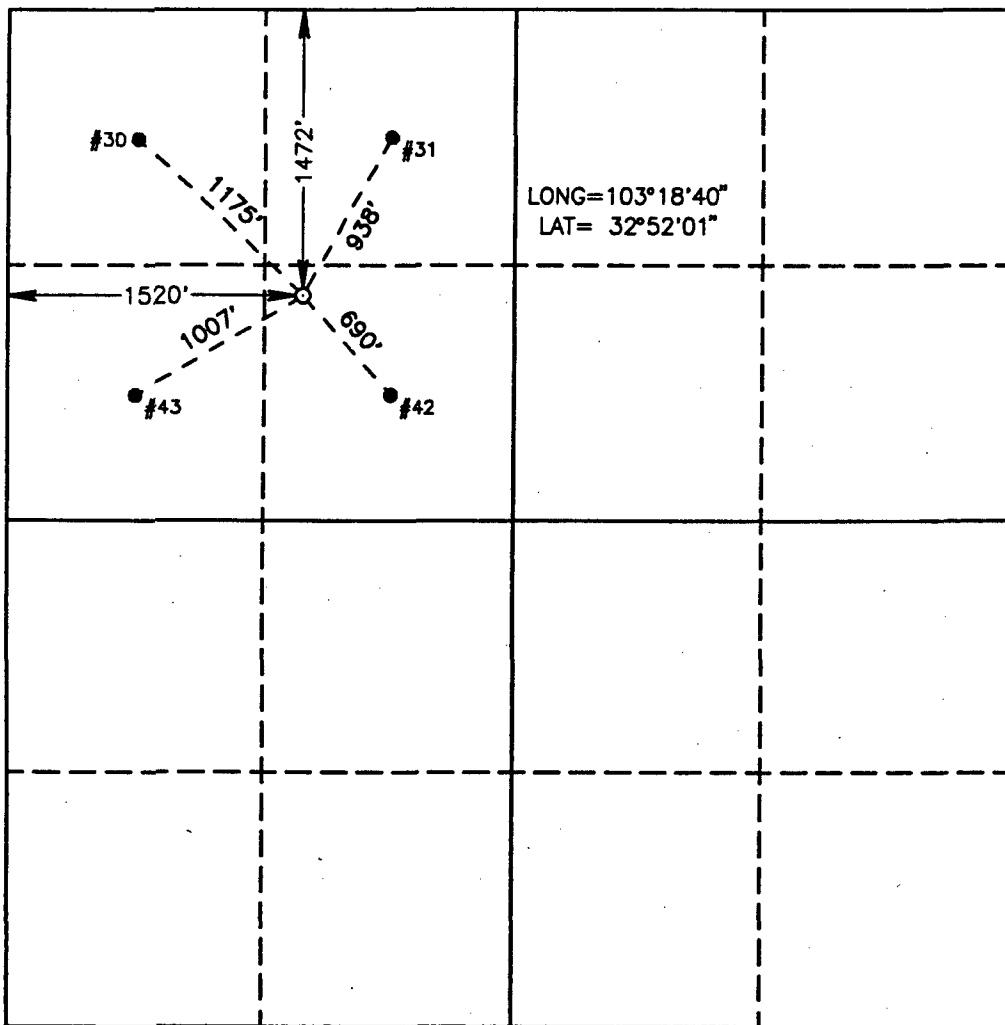
All Distances must be from the outer boundaries of the section

Operator <b>GREENHILL PETROLEUM CORP.</b>			Lease <b>LOVINGTON SAN ANDRES UNIT</b>		Well No. <b>83</b>
Unit Letter <b>F</b>	Section <b>1</b>	Township <b>17 SOUTH</b>	Range <b>36 EAST</b>	County <b>LEA</b>	
Actual Footage Location of Well: <b>1520</b> feet from the <b>WEST</b> line and <b>1472</b> feet from the <b>NORTH</b> line					
Ground Level Elev. <b>3831.2'</b>	Producing Formation <b>San Andres</b>		Pool <b>Lovington Grayburg San Andres</b>		Dedicated Acreage: <b>40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.?  
☒ Yes ☐ No If answer is "yes" type of consolidation unitized

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature

Printed Name  
**Michael J. Newport**

Position  
**Land Manager-Permian Basin**

Company  
**Greenhill Petroleum Corporation**

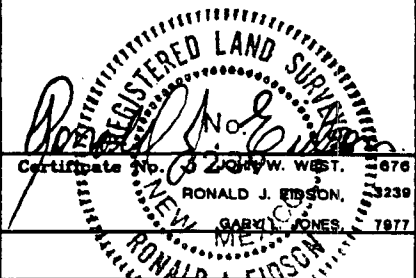
Date  
**3-23-92**

**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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**MARCH 6, 1992**

Signature & Seal of  
Professional Surveyor

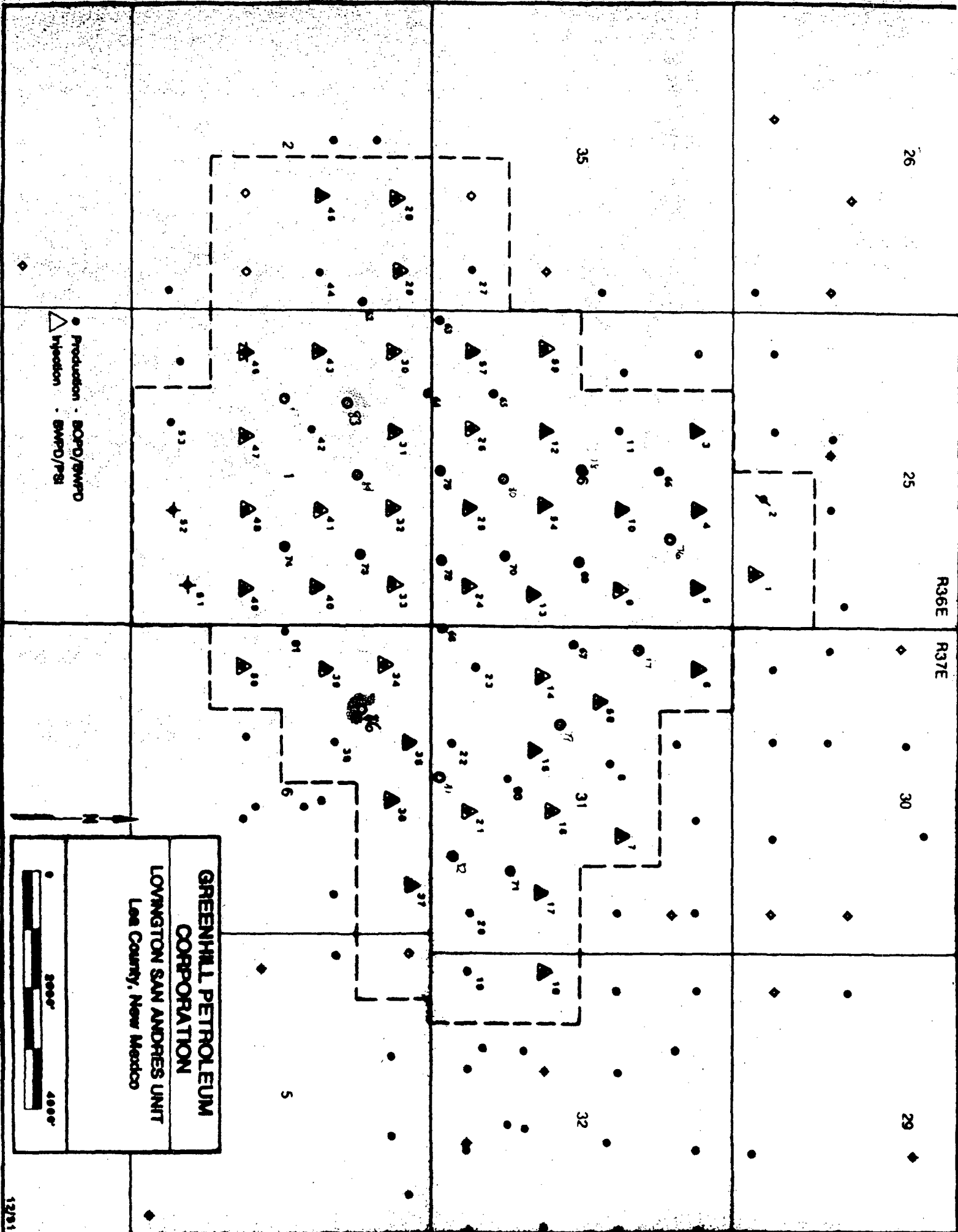


GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 83

<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<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.

sjs:s  
92.222



26

25

R36E

R37E

30

29

35

31

32

GREENHILL PETROLEUM  
CORPORATION

LOWINGTON SAN ANDRES UNIT  
Lea County, New Mexico

● Production - BOPD/GWPD  
▲ Injection - BWPD/PSI

2000' 4000'

12/91





# GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 84  
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 84 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 84 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,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures

R36E R37E

29

30

25

26

32

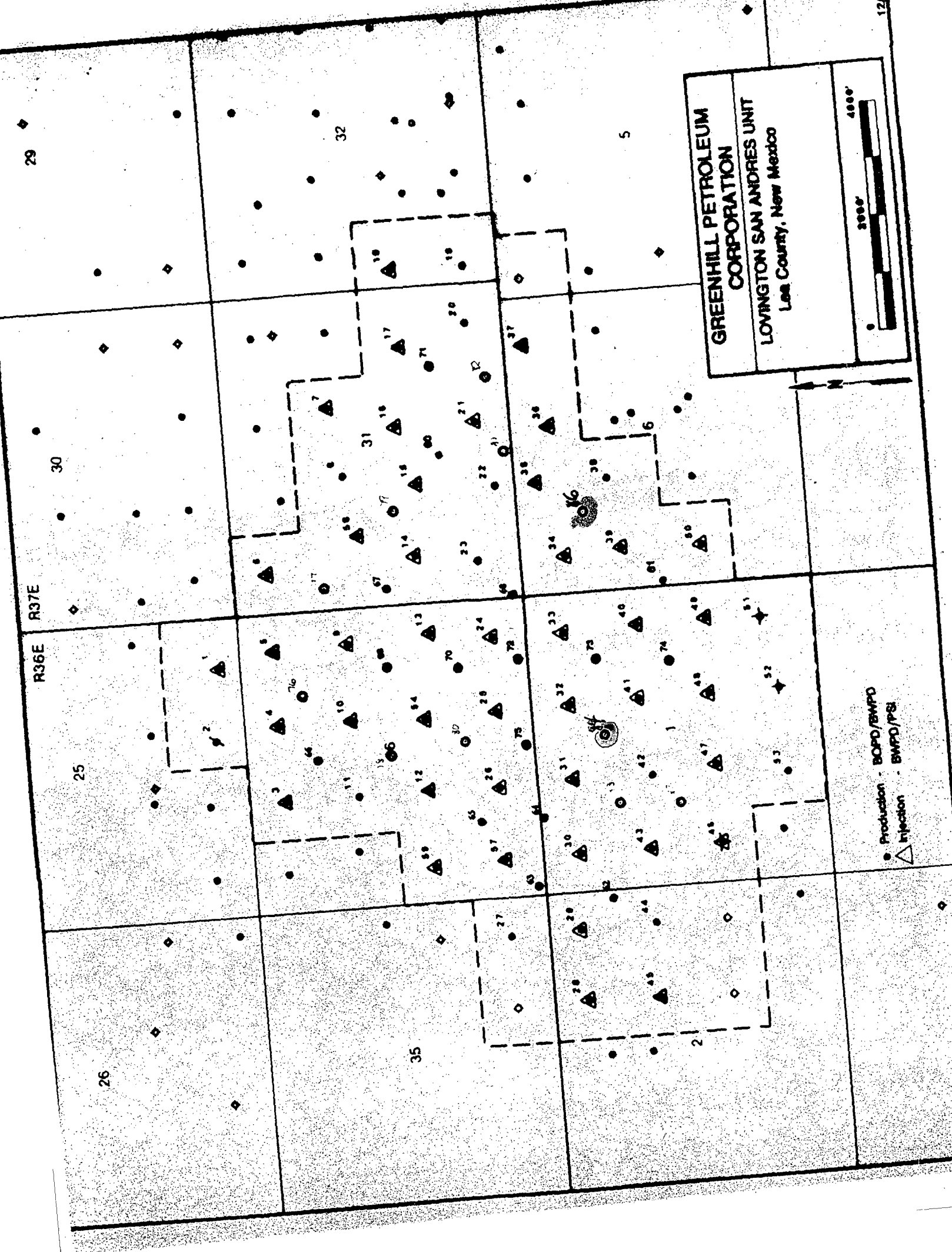
5

12

**GREENHILL PETROLEUM CORPORATION**  
**LOVINGTON SAN ANDRES UNIT**  
Lea County, New Mexico

3000' 4000'

● Production - BOPO/BWPD  
▲ Injection - BWPD/PSI





# GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 84  
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 84 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 84 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 2359

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#84

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter B : 1290 Feet From The North Line and 2490 Feet From The East Line

Section 1

Township 17 South Range 36 East

NMPM

Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

☒ Rotary ☐ C.T.

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

3830

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

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	1300'	550	Surface
7 7/8	5 1/2	15.5	5150'	1000	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 3-23-92

(713)

TYPE OR PRINT NAME Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Greenhill Petroleum Corp.			Lease Lovington San Andres		Well No. 84
Unit Letter B	Section 1	Township 17 South	Range 36 East	County Lea	

Actual Footage Location of Well:

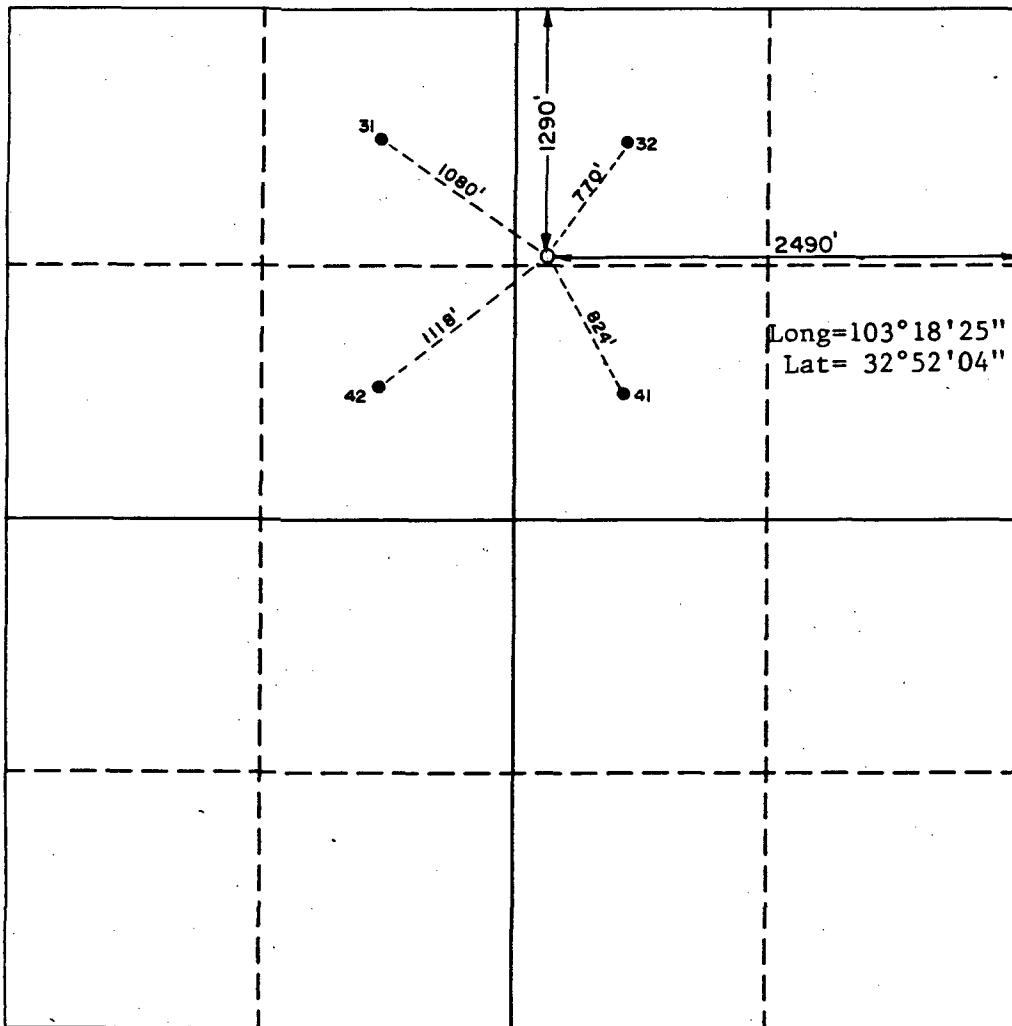
1290 feet from the north line and		2490 feet from the east line	
Ground Level Elev. 3830.3'	Producing Formation San Andres	Pool Lovington Grayburg San Andres	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 communization, unitization, force-pooling, etc.?

☒ Yes ☐ No If answer is "yes" type of consolidation unitized

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature  
*Michael Newport*  
Printed Name  
Michael J. Newport  
Position  
Land Manager-Permian Basin  
Company  
Greenhill Petroleum Corp  
Date  
3-23-92

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
February 27, 1992

Signature & Seal of  
Professional Surveyor

*Ronald J. Edson*  
REGISTERED LAND SURVEYOR  
No. 3239  
Certificate No. 3239  
JOHN M. WEST 678  
RONALD J. EDSON 3239  
RALPH C. JONES 7877

W.O. 92-11-0245



GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 84

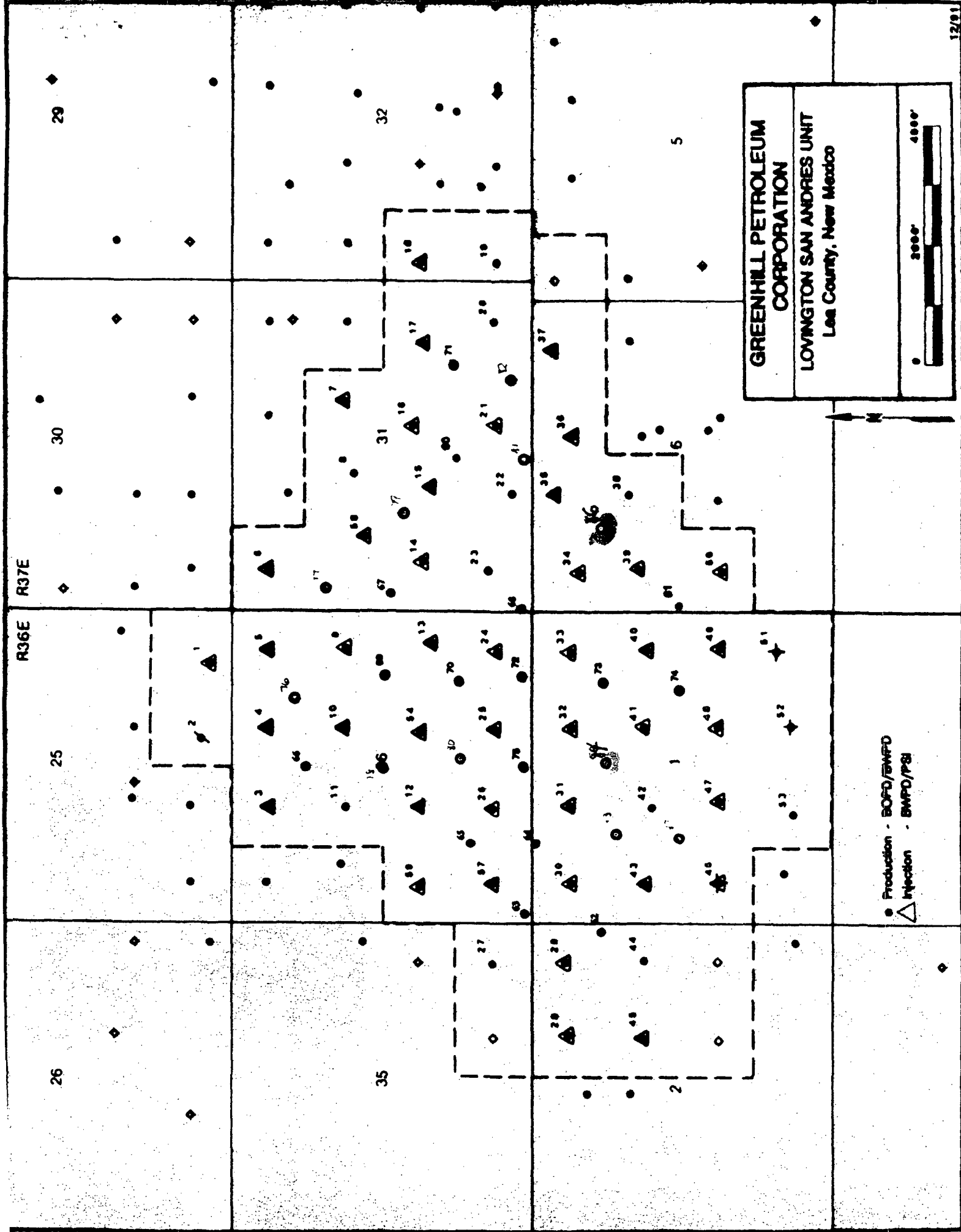
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222





# GREENHILL PETROLEUM CORPORATION

RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX. (713) 589-7892

'92 MAR 27 AM 9 47

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 85  
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 85 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 85 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.

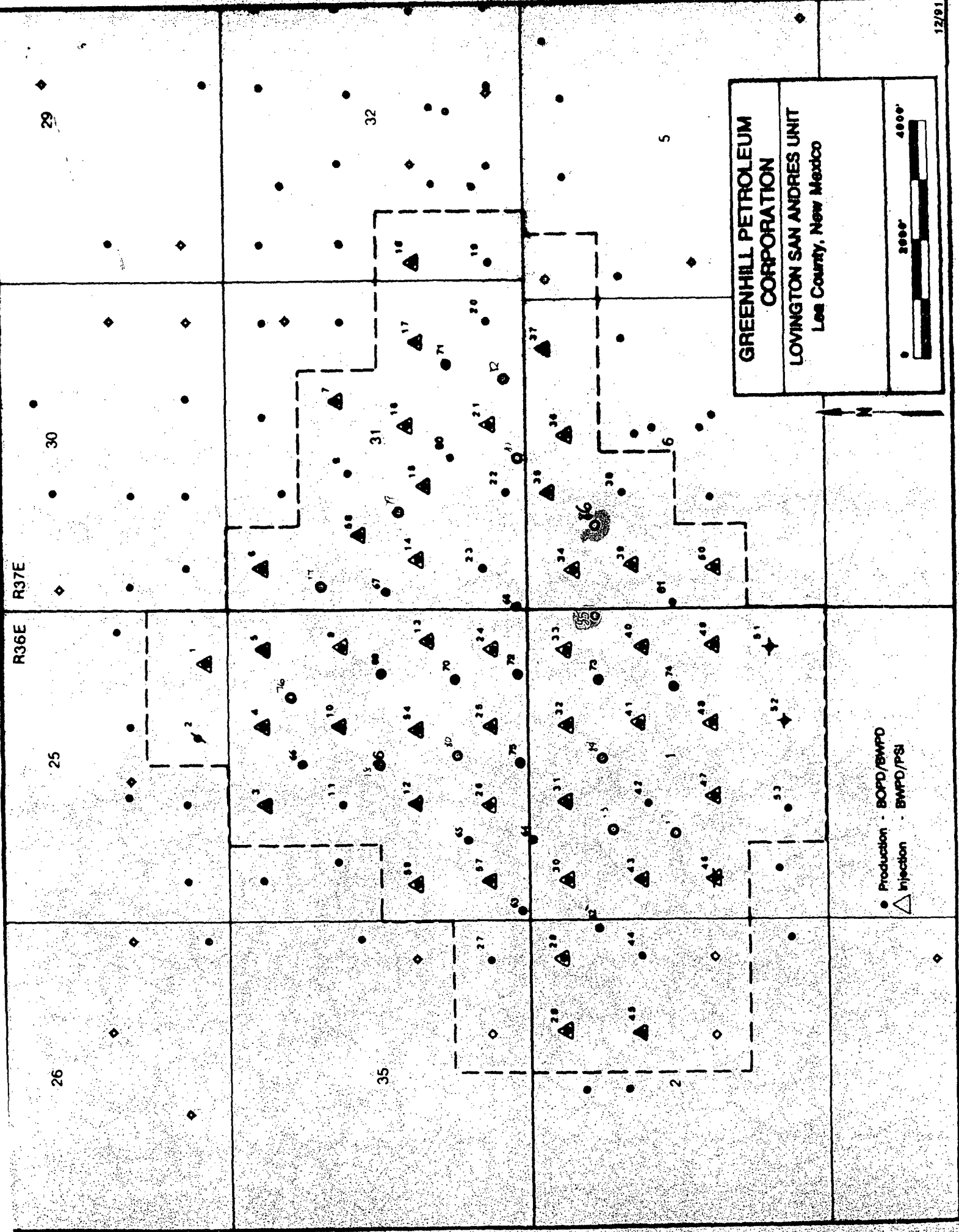
Greenhill Petroleum Corporation wishes to commence drilling operations on the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures







# GREENHILL PETROLEUM CORPORATION

RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 85  
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 85 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 85 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 2359

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Lease Name or Unit Agreement Name Lovington San Andres Unit			
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Well No. 85			
2. Name of Operator GREENHILL PETROLEUM CORPORATION		9. Pool name or Wildcat Lovington Grayburg San Andres			
3. Address of Operator 11490 Westheimer, Suite 200, Houston, Texas 77077-6841					
4. Well Location Unit Letter H : 1,335 Feet From The North Line and 120 Feet From The East Line Section 1 Township 17S Range 36E NMPM Lea County					
10. Proposed Depth 5,150 ft.		11. Formation San Andres	12. Rotary or C.T. Rotary		
13. Elevations (Show whether DF, RT, GR, etc.)	14. Kind & Status Plug. Bond on file	15. Drilling Contractor TBD	16. Approx. Date Work will start 04/92		
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	1,300 ft.	550	Surface
7-7/8	5-1/2	15.5	5,150 ft.	1,000	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

03/23/92

TYPE OR PRINT NAME

Michael J. Newport

713

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**Santa Fe, New Mexico 87504-2088**

**All Distances must be from the outer boundaries of the section**

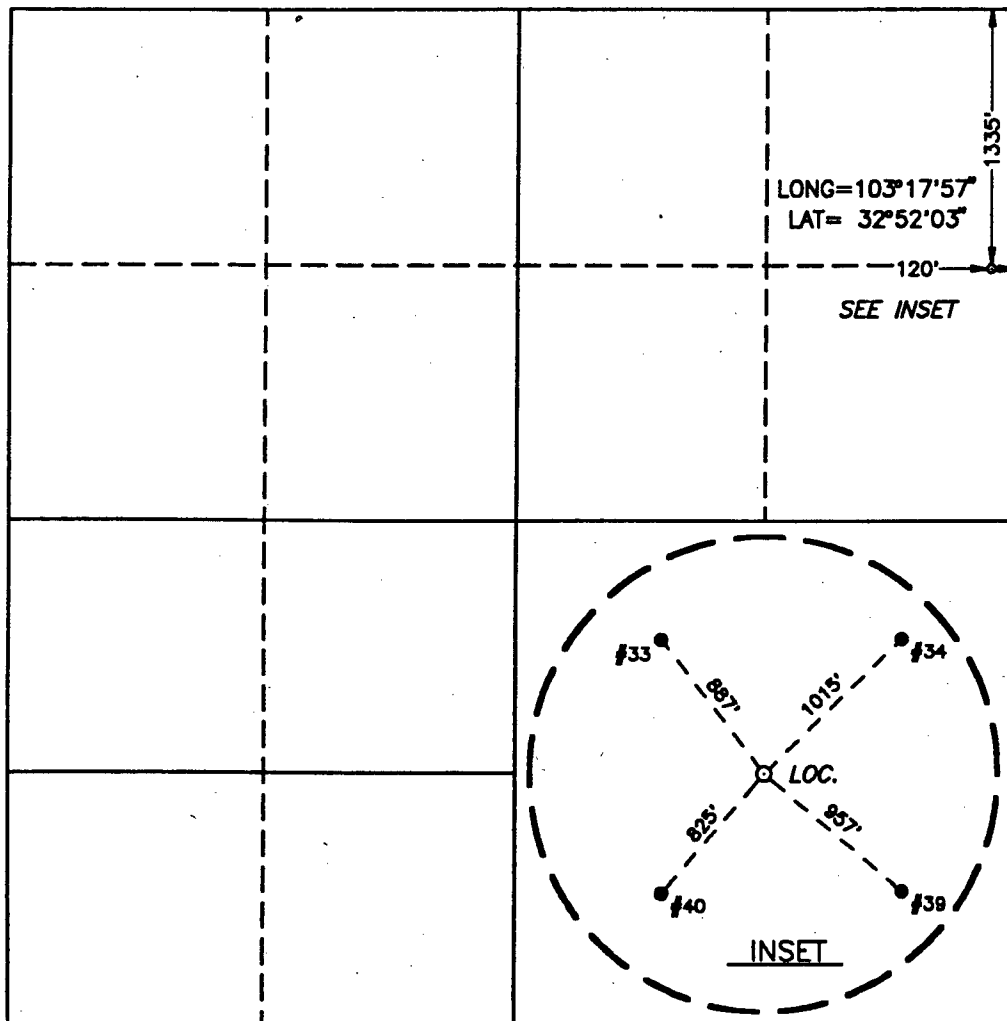
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

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.?  
☒ Yes      ☐ No      If answer is "yes" type of consolidation unitized

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500

REGISTERED LAND SURVEYOR  
No. 678  
Certificate No. JOHN W. WEST  
RONALD J. EIDSON 3239  
GARY L. JONES 7977

92-11-0246

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 85

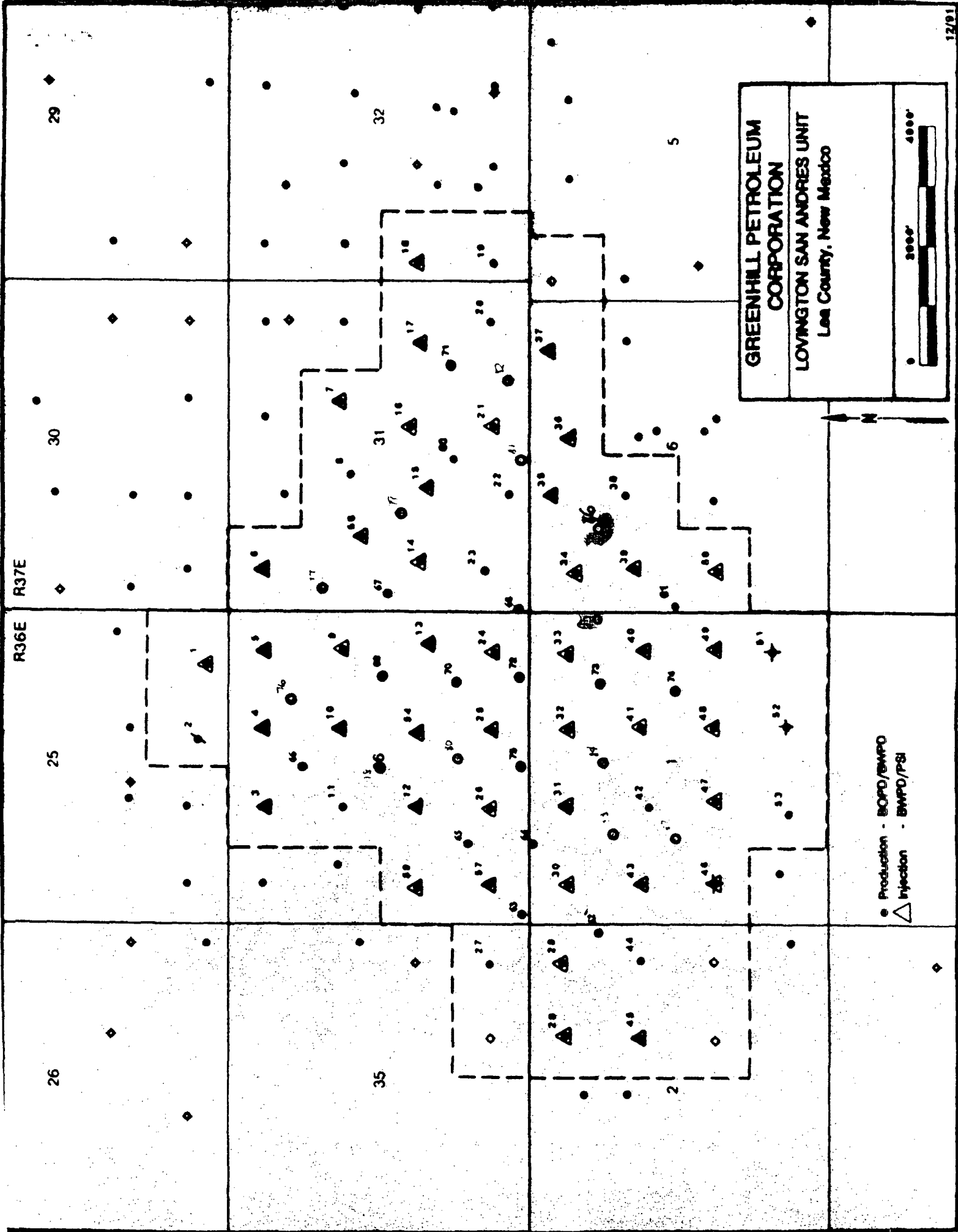
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222





# GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION

'92 MAR 27 AM 9 47

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
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 86  
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 86 in the Lovington San Andres Unit, located in Lea County, New Mexico.

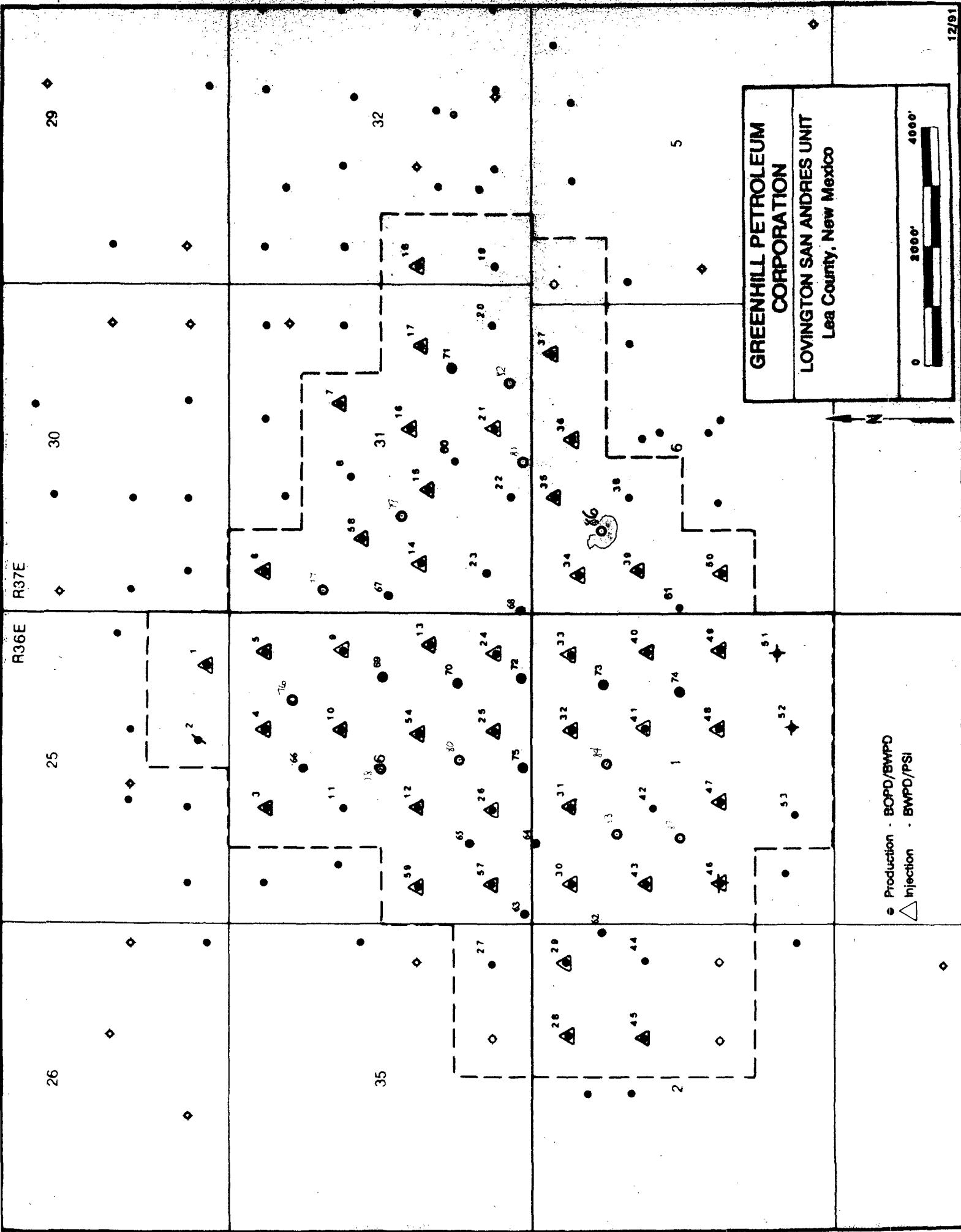
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 86 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,

*Michael J. Newport*  
Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures







OIL CONSERVATION DIVISION  
**GREENHILL PETROLEUM CORPORATION**

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

'92 MAR 27 AM 9 47

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 86  
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 86 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 86 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

**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)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Lease Name or Unit Agreement Name Lovington San Andres Unit			
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Well No. #86			
2. Name of Operator Greenhill Petroleum Corporation		9. Pool name or Wildcat Lovington Grayburg San Andres			
3. Address of Operator 11490 Westheimer, Suite 200; Houston, Tx. 77077		6. State Oil & Gas Lease No.			
4. Well Location Unit Letter <u>C</u> : <u>1170</u> Feet From The <u>North</u> Line and <u>1400</u> Feet From The <u>West</u> Line Section <u>6</u> Township <u>17 South</u> Range <u>37 East</u> NMPM Lea, County					
10. Proposed Depth 5150'		11. Formation San Andres			
12. Rotary or C.T.					
13. Elevations (Show whether DF, RT, GP, etc.) 3811		14. Kind & Status Plug. Bond On File			
15. Drilling Contractor TBD		16. Approx. Date Work will start 4/92			
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	1300'	550	Surface
7 7/8	5 1/2	15.5	5150'	1000	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 3-23-92  
(713)  
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

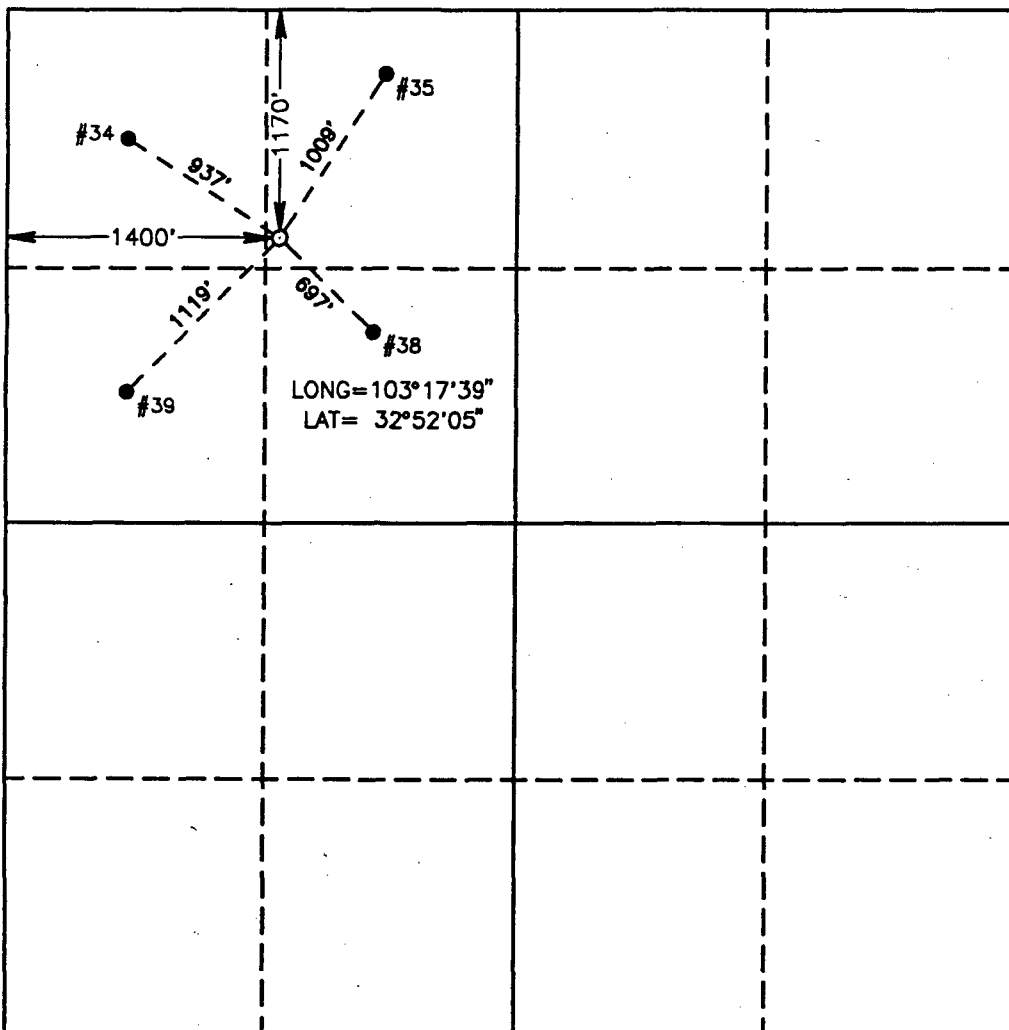
Operator GREENHILL PETROLEUM CORP.			Lease LOVINGTON SAN ANDRES UNIT		Well No. 86
Unit Letter C	Section 6	Township 17 SOUTH	Range 37 EAST	County NMPM LEA	
Actual Footage Location of Well: 1170 feet from the NORTH line and 1400 feet from the WEST line					
Ground Level Elev. 3811.9'		Producing Formation San Andres		Pool Lovington Grayburg San Andres	
				Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.?

☒ Yes ☐ No If answer is "yes" type of consolidation unitized

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

OPERATOR CERTIFICATION

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

Signature

*Michael J. Newport*

Printed Name

Michael J. Newport

Position

Land Manager-Permian Basin  
Company

Greenhill Petroleum Corp.

Date

3-23-92

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  
supervision, and that the same is true and  
correct to the best of my knowledge and  
belief.

Date Surveyed

FEBRUARY 20, 1992

Signature & Seal of  
Professional Surveyor



GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 86

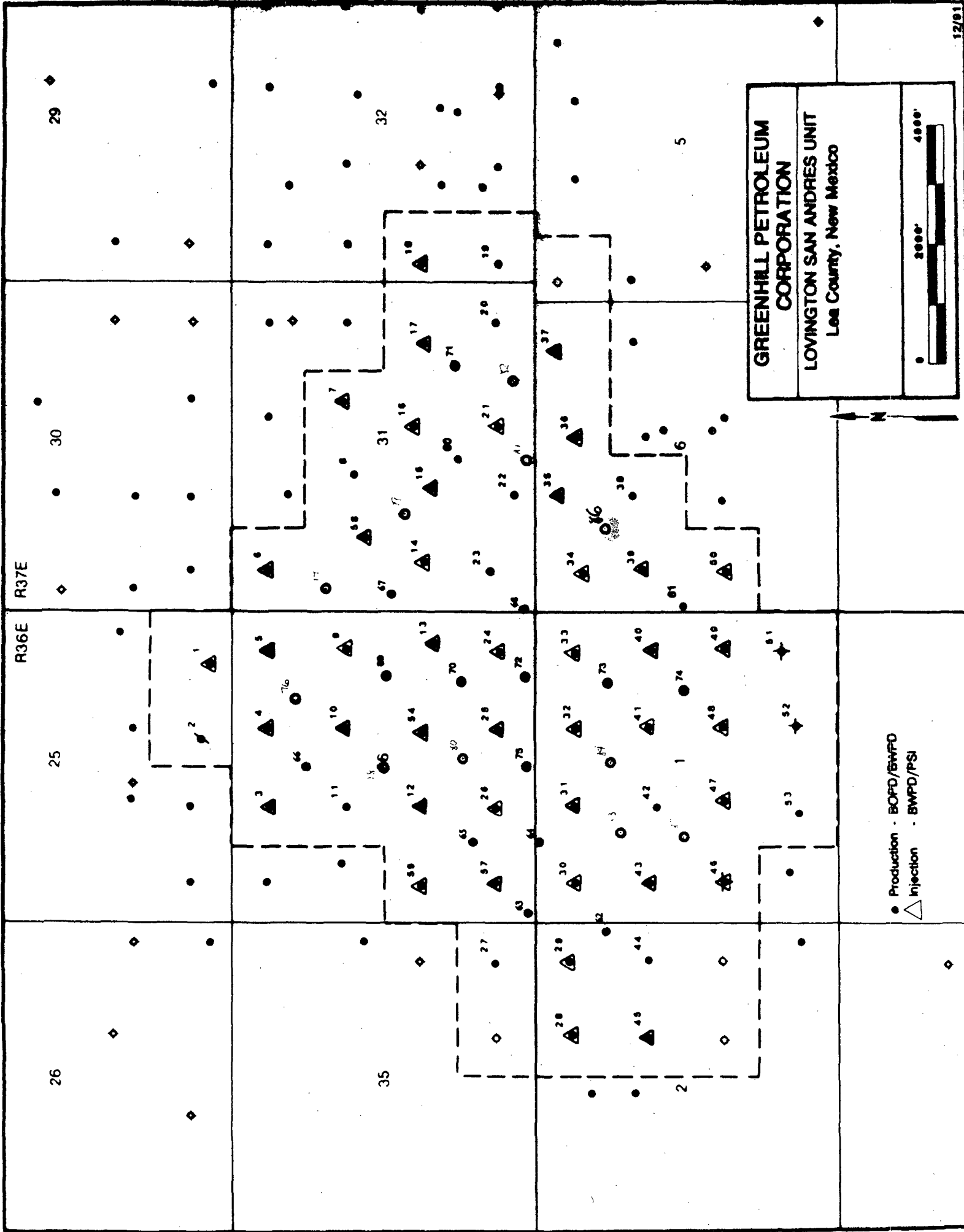
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222





# GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX. (713) 589-7892

Incorporated in Delaware, U.S.A.

'92 MAR 27 AM 9 47

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 87  
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 87 in the Lovington San Andres Unit, located in Lea County, New Mexico.

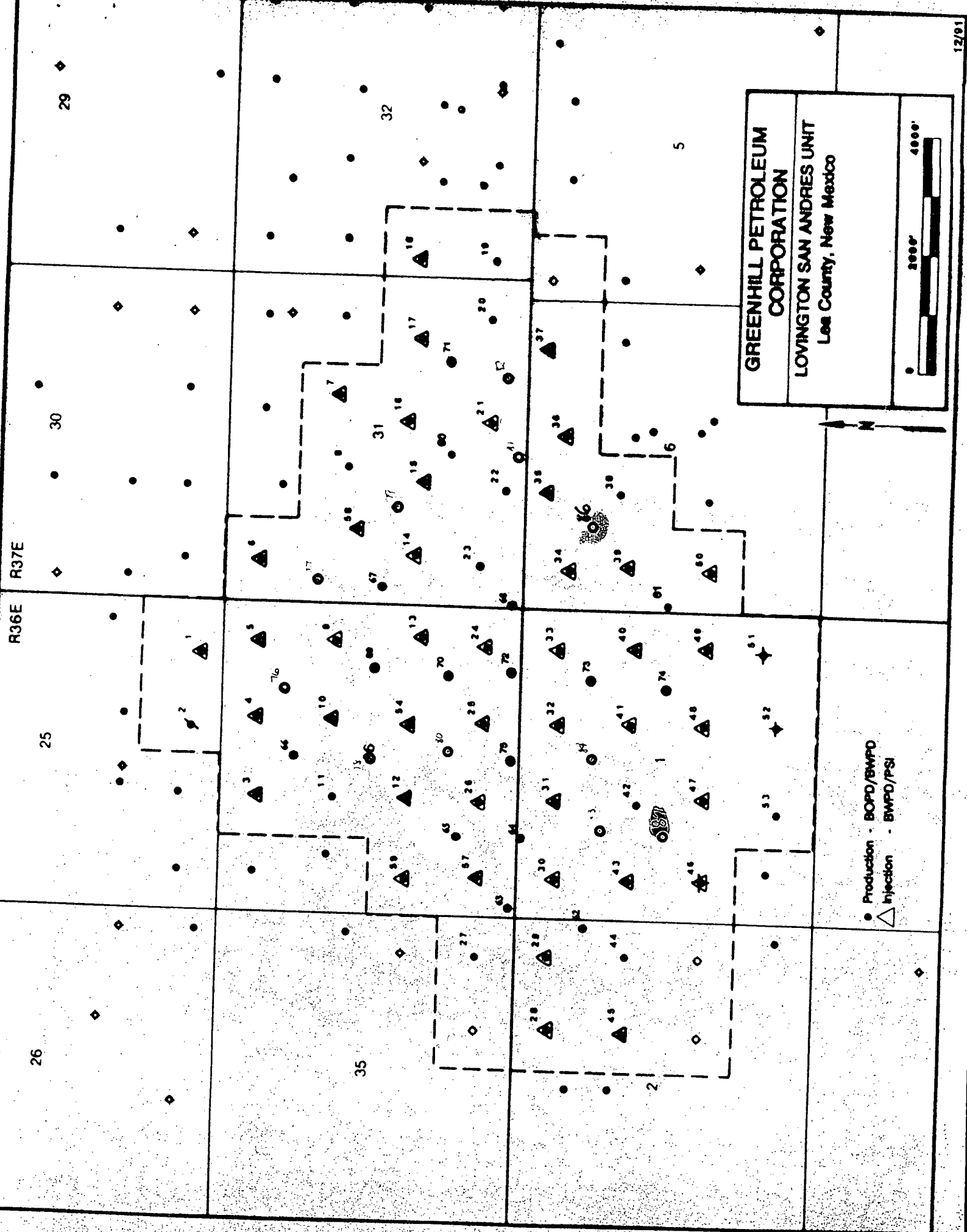
The Lovington San Andres Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well Number 87 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,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
Enclosures



GREENHILL PETROLEUM  
CORPORATION

LOVINGTON SAN ANDRES UNIT  
Lea County, New Mexico





**GREENHILL PETROLEUM CORPORATION**  
OIL CONSERVATION DIVISION  
RECEIVED

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
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Incorporated in Delaware, U.S.A.

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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

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Proposed Well Number 87  
Lovington San Andres Unit  
Lea County, New Mexico

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Respectfully yours,

Michael J. Newport  
Land Manager-Permian Basin

MJN:sjs  
92. 204  
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

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 1553

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 San Andres Unit

2. Name of Operator

Greenhill Petroleum Corporation

8. Well No.

#87

3. Address of Operator

11490 Westheimer, Suite 200; Houston, Tx. 77077

9. Pool name or Wildcat

Lovington Grayburg San Andres

4. Well Location

Unit Letter F : 2515 Feet From The North Line and 1462 Feet From The West Line

Section 1

Township 17 South

Range 36 East

NMPM

Lea, County

10. Proposed Depth

5150'

11. Formation

San Andres

12. Rotary or C.T.

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

3830

14. Kind & Status Plug. Bond

On File

15. Drilling Contractor

TBD

16. Approx. Date Work will start

4/92

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{4}$	8 $\frac{5}{8}$	24	1300'	550	Surface
7 $\frac{7}{8}$	5 $\frac{1}{2}$	15.5	5150'	1000	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 3-23-92

(713)

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO. 589-8484

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

## 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., Artesia, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <b>Greenhill Petroleum Corp.</b>			Lease <b>Lovington San Andres</b>		Well No. <b>87</b>
Unit Letter <b>F</b>	Section <b>1</b>	Township <b>17 South</b>	Range <b>36 East</b>	County <b>NMPM Lea</b>	

Actual Footage Location of Well:

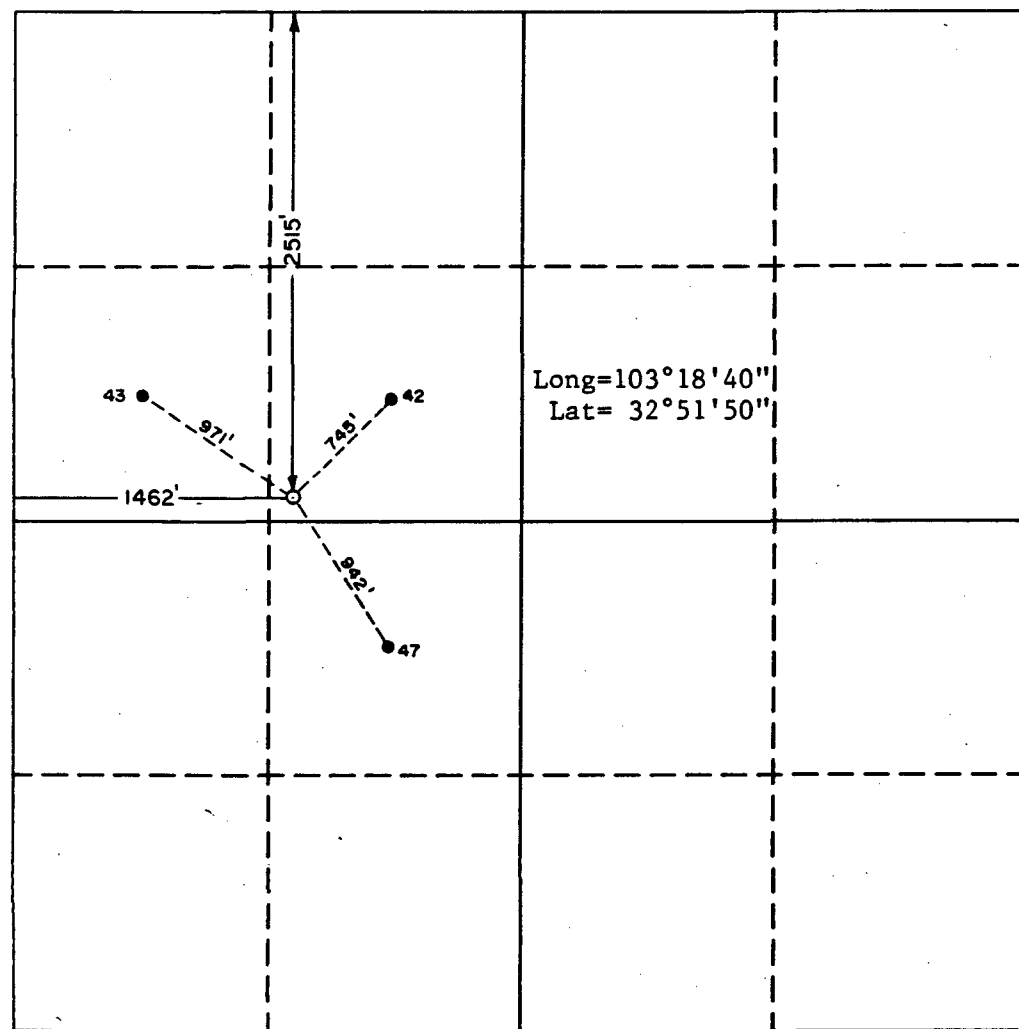
2515 feet from the north line and 1462 feet from the west line			
Ground Level Elev. <b>3830.0'</b>	Producing Formation <b>San Andres</b>	Pool <b>Lovington Grayburg San Andres</b>	Dedicated Acreage: <b>40 Acres</b>

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.?

☒ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



### OPERATOR CERTIFICATION

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

Signature

*Michael J. Newport*

Printed Name

Michael J. Newport

Position

Land Manger-Permian Basin  
Company  
Greenhill Petroleum Corp.

Date

3-23-92

### 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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

February 26, 1992

Signature & Seal of  
Professional Surveyor

*Ronald J. Edson*  
REGISTERED LAND SURVEYOR  
No. 678  
Certificate No. 678  
MICHAEL J. EDSON, 3239  
RONALD J. EDSON, 7877

W.O. 92-4110248

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 87

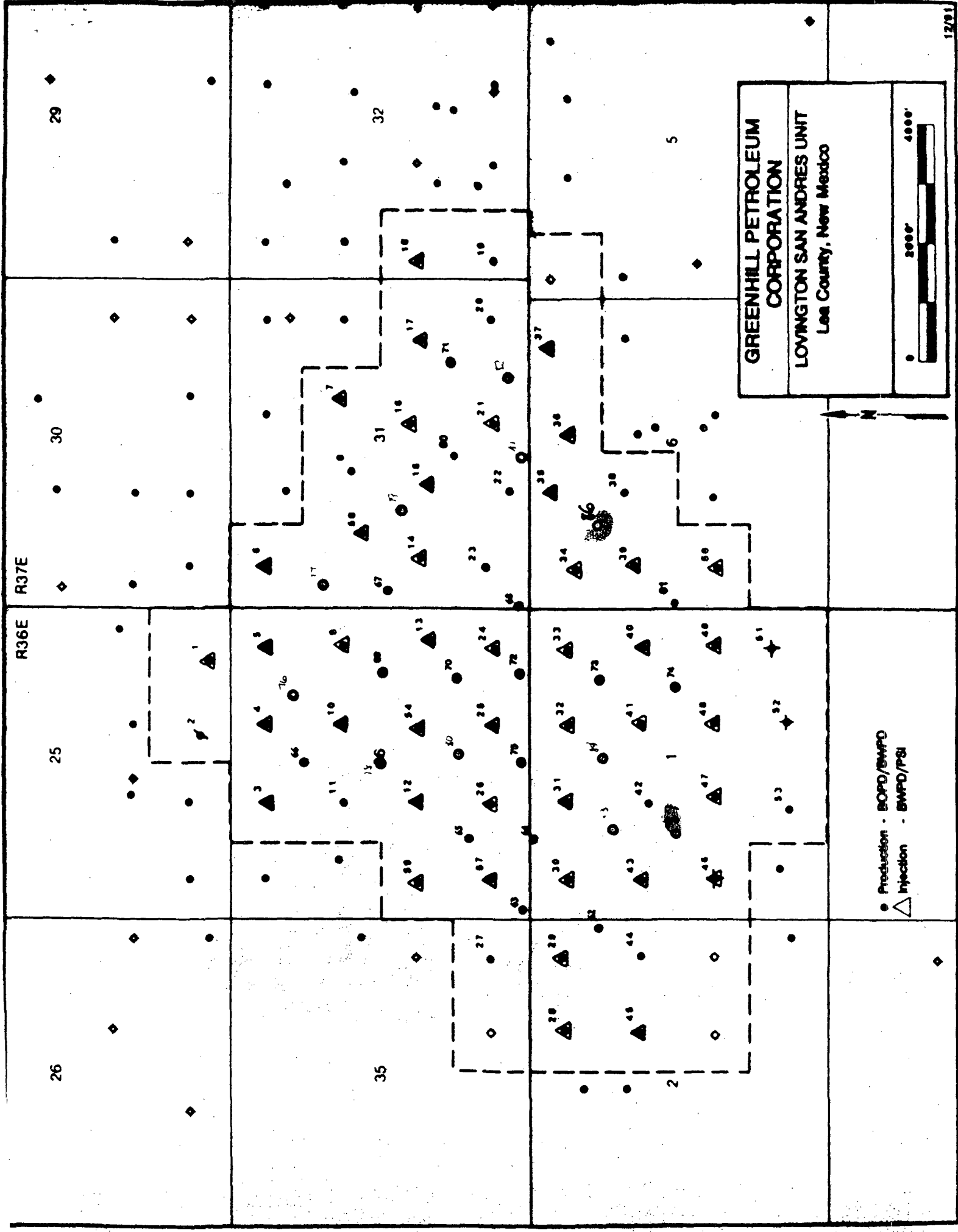
<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Pressure</u>
8 5/8"	1300'	24	H40, STC	RA*	200 psi
5 1/2"	5150'	15.5	K55, STC	RR*	250/1500 psi

\*RR-Ram Ram

RA-Ram Annular

Diverter-Hydrill may be substituted for a diverter.

sjs:s  
92.222



GREENHILL PETROLEUM  
CORPORATION  
LOVINGTON SAN ANDRES UNIT  
Lea County, New Mexico

● Production - BOPO/BWPD  
△ Injection - BWPD/PSI



# GREENHILL PETROLEUM CORPORATION

Incorporated in Delaware, U.S.A.

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

OIL CONSERVATION DIVISION  
RECEIVED

'92 MAR 27 AM 9 47

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 88  
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 88 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 88 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.

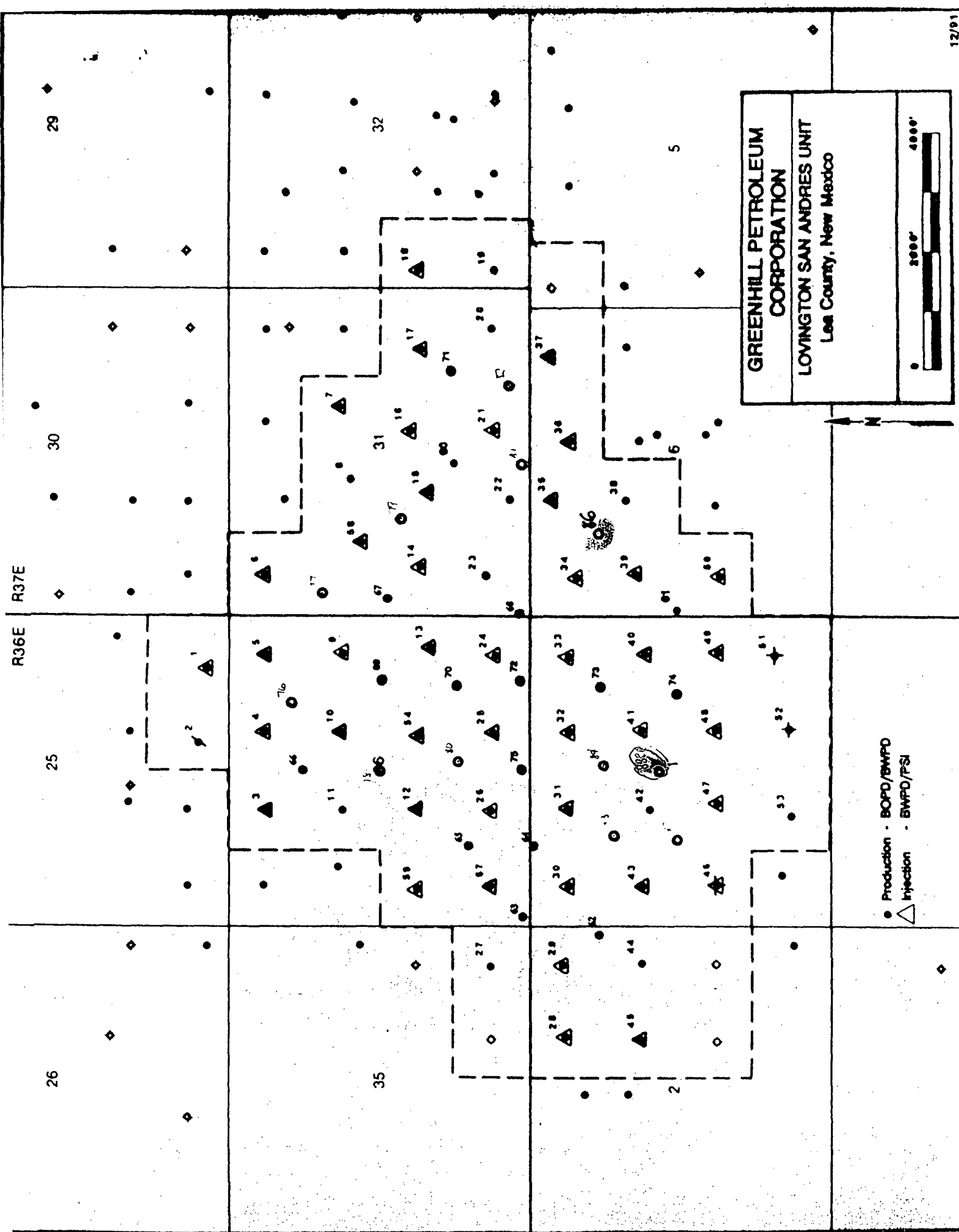
Greenhill Petroleum Corporation wishes to commence drilling operations on the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs  
92. 204





# GREENHILL PETROLEUM CORPORATION

Incorporated in Delaware, U.S.A.

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX: (713) 589-7892

OIL CONSERVATION DIVISION  
RECEIVED

'92 MAR 27 AM 9 47

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

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Respectfully yours,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs  
92. 204

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)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B 1553

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Lease Name or Unit Agreement Name Lovington San Andres Unit			
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			
2. Name of Operator Greenhill Petroleum Corporation		8. Well No. 88			
3. Address of Operator 11490 Westheimer, Suite 200, Houston, Texas 77077		9. Pool name or Wildcat Lovington Grayburg San Andres			
4. Well Location Unit Letter F : 2,522 Feet From The North Line and 2,600 Feet From The West Line Section 1 Township 17S Range 36E NMPM Lea County					
10. Proposed Depth 5,150 ft.		11. Formation San Andres			
12. Rotary or C.T. Rotary					
13. Elevations (Show whether DF, RT, GR, etc.) 3,827.7 ft.		14. Kind & Status Plug Bond on file			
15. Drilling Contractor TBD		16. Approx. Date Work will start 04/92			
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	1,300 ft.	550	Surface
7-7/8	5-1/2	15.5	5,150 ft.	1,000	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 03/23/92  
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 713 589-8484

(This space for State Use)

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



**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**

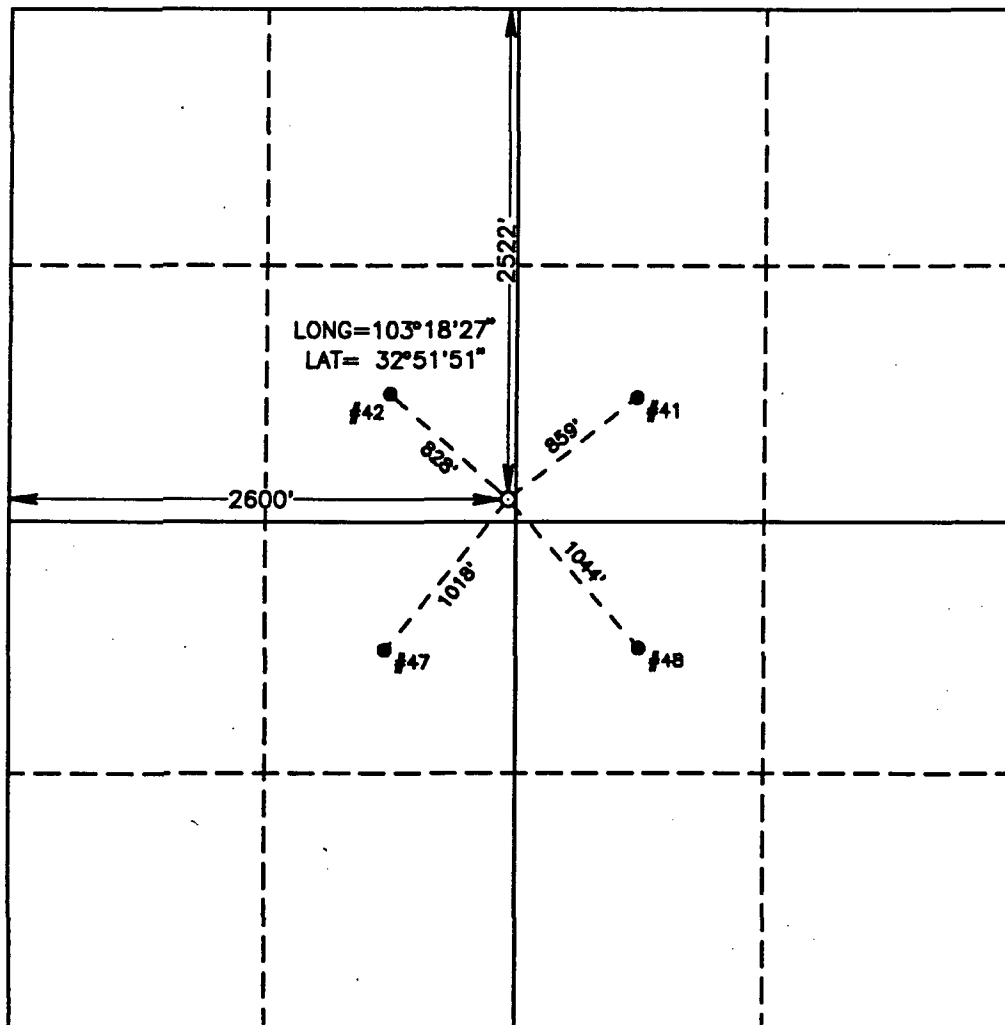
1000 Rio Bravos Rd., Artec, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

Operator <b>GREENHILL PETROLEUM CORP.</b>			Lease <b>LOVINGTON SAN ANDRES UNIT</b>		Well No. <b>88</b>
Unit Letter <b>F</b>	Section <b>1</b>	Township <b>17 SOUTH</b>	Range <b>36 EAST</b>	County <b>LEA</b>	
Actual Footage Location of Well: <b>2522</b> feet from the <b>NORTH</b> line and <b>2600</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>3827.7'</b>	Producing Formation <b>San Andres</b>		Pool <b>Lovington Grayburg San Andres</b>		Dedicated Acreage: <b>40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 communization, unitization, force-pooling, etc?  
☒ Yes ☐ No If answer is "yes" type of consolidation unitized
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)  
No allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

**OPERATOR CERTIFICATION**

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

Signature  
*Michael J. Newport*  
Printed Name  
**Michael J. Newport**  
Position  
**Land Manager-Permian Basin**  
Company  
**Greenhill Petroleum Corp.**  
Date  
**03/23/92**

**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  
supervision, and that the same is true and  
correct to the best of my knowledge and  
belief.

Date Surveyed  
**MARCH 4, 1992**  
Signature & Seal of  
Professional Surveyor

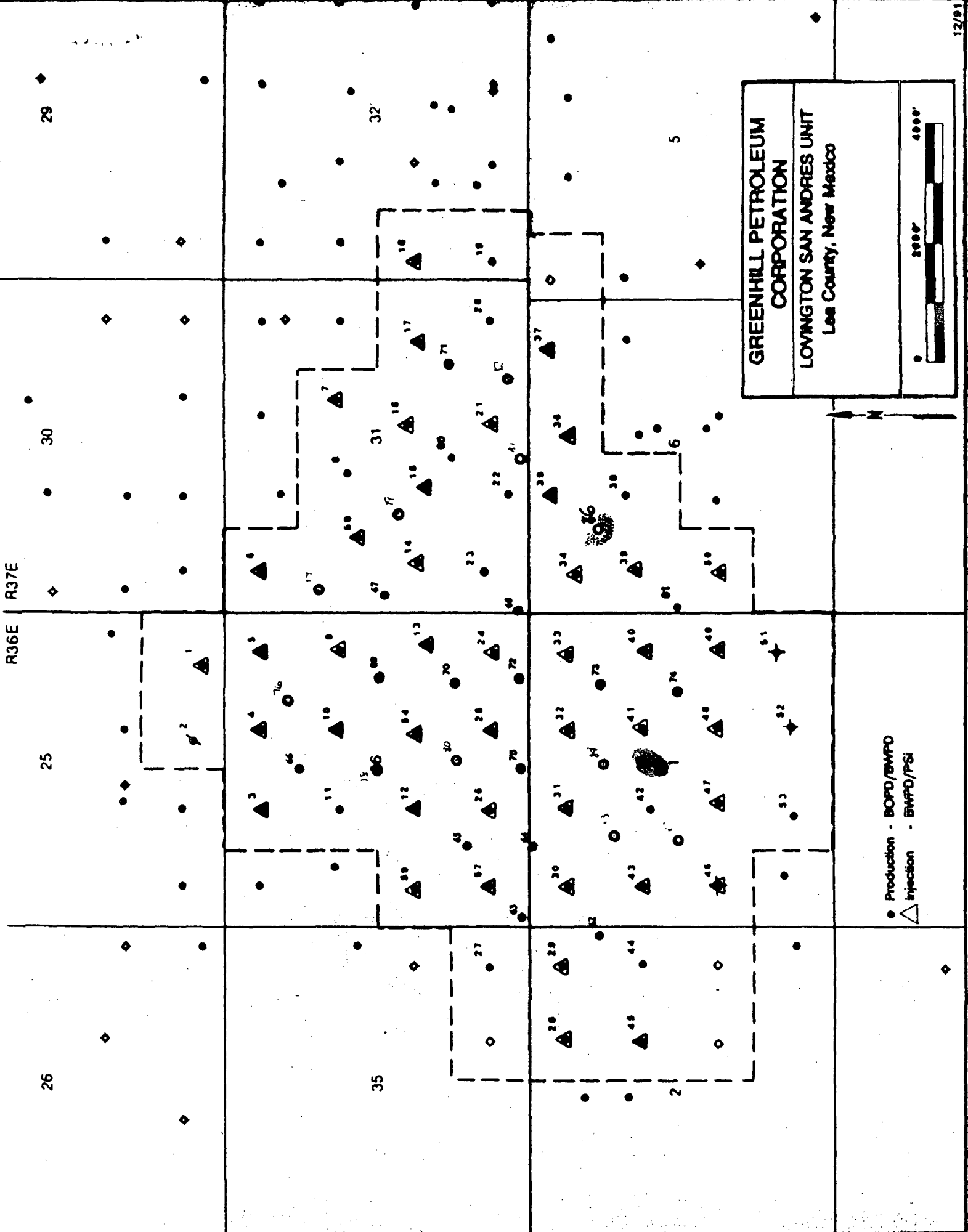
*Ronald J. Eidson*  
Certificate No. **JOHN W. WEST, 676**  
**RONALD J. EIDSON, 3239**  
**MARY L. JONES, 7977**  
**NEW MEXICO**  
**REGISTERED LAND SURVEYOR**  
**1992-11-02-49**

GREENHILL PETROLEUM CORPORATION  
BOP PROGRAM FOR  
LOVINGTON SAN ANDRES UNIT NUMBER 88

<u>CASING PROGRAM</u>				<u>BOP PROGRAM</u>	
<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.

sjs:s  
92.222



**GREENHILL PETROLEUM CORPORATION**

**LOVINGTON SAN ANDRES UNIT**  
Lea County, New Mexico

0 2000 4000'

N

● Production - BOPD/BWPD  
△ Injection - BWPD/PSI