

OIL CONSERV 11490 MESTHEI 918 RDAD, SUITE 200 RECHOUSTON, TEXAS 77077-6841 FAX. (713) 589-8484 FAX. (713) 589-9399

'91 NOU 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

N-5-175-38E

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 West Lovington 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 West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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

3056 NSL-3012 Z868

MJN:sjs 91.261

Submit to Appropriate District Office State Lease - 6 copies	Energy	State of New M , Minerals and Natural R	- 4 L		Form C-101 Revised 1-1-89
Foe Lease - S copies DISTRICT I P.O. Bax 1980, Hobbs, N	·	CONSERVATIO P.O. Box 200		API NO. ( assigned by OC	D og New Wells)
DISTRICT II P.O. Drawer DD, Artesia		Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease S	
DISTRICT III 1000 Rio Brazos Rd., Azi	lec, NM 87410			6. State Oil & Gas Lease B 4119	
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, O	OR PLUG BACK		
1a. Type of Work:			۹ 	7. Lease Name or Unit A	greement Name
b. Type of Well:	L KX RE-ENTE		PLUG BACK	West Lovington	n Unit
WELL XK WELL	OTHER	ZONE	LXX ZONE		
2. Name of Operator GREEI	NHILL PETROLEUM	CORPORATION	:	8. Well No. 85	
3. Address of Operator				9. Pool name or Wildcat	
1149(	) Westheimer, S	uite 200, Houston	n, TX. 77077	West Lovington	Upper San Andr
6. Well Location Unit Letter	N : 2625 Feet	From The West	Line and 14	0 Feet From The	south Lin
Section	5 Town	ship 17S Ra	nge 36E	NMPM	Lea County
		10. Proposed Depth 5230		ormation n Andres	12. Rowy or C.T. Rotary
13. Elevations (Show wheel	wr DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor		Date Work will start
3889.9	<u> </u>	Blanket on file	TBD	12-1-9	1
17.	······································	ROPOSED CASING AM	ND CEMENT PROGR	AM Sector MAR	al da an an an Angelangan da Angelangan da
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	350!	250	Surface
7 7/8	5 1/2	15.5#	5230'	1300	Surface
		• • •			
,		· · ·			· · ·

IN ABOVE SPACE DESCRIBE PRO 20NE. GIVE BLOWOUT PREVENTER PROGR	POSED PROGRAM: IF PROPOSAL IS TO DE	eren or flug back, give da	ATA ON PRESENT PRODUCTIVE ZONE AND PR	OPOSED NEW PRODUCTIVE

WHATTIRE <u>Aschall / floorg</u> /	mu	Basin DATE <u>11-11-91</u> 713 589-8484 TELEPHONE NO.
This space for State Use)		
PTROVED BY		DATE

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

125830

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

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

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

### OIL CONSERVATION DIVISION

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			Lease		W	ell No.	
GREEN	HILL PETRO	DLEUM CORP.	WEST LO	OVINGTON UNIT		85	
Unit Letter	Section	Towaship	Range		County		
N	5	17 SOUT	H 36 EAS	r nmpm	LEA		
Actual Footage Loc	ation of Well:		· · · · · · · · · · · · · · · · · · ·			······	
2625	feet from the	WEST	e and 140	feet from	the SOUTH	line	
Ground level Elev.	Prod	ucing Formation	Pool		De	dicated Acres	ge:
3889.9	ک [	an Andres	Lovington	Upper San An	dies	20	Acres
		dedicated to the subject well by cold			interest and rova	ltv).	
3. If mor unitize	re than one lease of ation, force-pooling Yes	f different ownership is dedicate t, etc.?	d to the well, have the intere yes" type of consolidation	unitized	idated by communi	•••	
	if neccessary.	vuers and used descriptions wins	at have actually been consol				
		ed to the well until all interests			, forced-pooling, or	otherwise)	
or until a	non-standard unit,	, eliminating such interest, has b	cen approved by the Divisio	a.			
	i	1 24-3 28			OPERATOR	CERTIFIC	CATION
					I hereby cer	••	•
					ontained herein in est of my knowledge		mplete to th
	1				si oj my knomede	сали овниј.	
				Si	gnature /	~ 1	<u></u>
	1		1		Chickay /	11	<i>4</i> .
	1		1	P	rinted Name	1 mgar	
27.7 Y 200 - 71 W 27 2 10	- WILFALL PRIME			M	ichael J. I	Newport	
				P	osition		······
	l			· L.	and Manage:	r-Permia	n Basin
				4 1	ompany		
	I			G	reenhill Po	etroleum	Corp.
	ł			- 1	ate		
	1			1	1-11-91	•	
ļ	: <b> </b>		1		SURVEYOR	CERTIFIC	TATION
					001072101		
	1	1			hereby certify the		
	1				n this plat was j		
· ·	j	· ·	j		ctual surveys ma upervison and th		
	İ		1	1 1	prrect to the be		• • • • • •
				. b	elief.		-
	i		i		Date Surveyed		<u> </u>
L			<b> _</b> _	[		10-7-91	
	ĺ		i		Signature & Seal of	10-1-71	
1	i		i	I	Tofessional Survey	AND FF	
	i				Signature & Seal of rofessional Survey	Signa Signa	
	i		. 1		403. 18 and		4 N N N N N N N N N N N N N N N N N N N
					Vonoli		Am
	2625		, I I		enficate No.	JOHN W. VES	T, 676
L	L	140	<u></u>			LD I EIDSO	N, 3239
					W:0.4/91		<u>.</u>
) 330 660	990 1320 16	50 1980 2310 2640	2000 1500 10	00 500 0	W:0:4291	<u>-11-0108</u>	<u></u>

Casing Program			BOP Program			
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	Grade	<u>Configuration</u>	<u>Test Program</u>	
8 5/8" 5 1/2"	350 <b>′</b> 5230 <b>′</b>	24# 15.5#	J55, STC J55,STC	*RR or RA N/A	250/1500 psi	

\*RR-Ram Ram RA-Ram Annular

\* \*\*\*

GREENHILL PETROLEUM CORPORATION DIVISION 11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 RECEVED

FAX. (713) 589-9399

'91 NOU 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

B-8-17-36

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 West Lovington 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 West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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,

al Theyar

Michael J. Newport Land Manager-Permian Basin

MJN:sjs 91.261

	<b>.</b>		· · · · · · · · · · · · · · · · · · ·		
Scillui to Appropriate District Office "State Lease - 6 copies For Lease - 5 copies		State of New Mo Minerals and Natural Ro	esources Department	. *	Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NA	1 88240	P.O. Box 200	38	API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artesia,	and the second	anta Fe, New Mexico	01304-2008		
DISTRICT III 1000 Rio Brazos Rd., Azte	c. NM 87410			6. State Oil & Gas Lease B4704	No.
APPLICAT	ION FOR PERMIT T	O DRILL, DEEPEN, O	OR PLUG BACK		
1a. Type of Work:		······································		7. Lease Name or Unit A	greement Name
b. Type of Well:	- KX RE-ENTER		PLUG BACK		1
WELL XX WELL	] on tex	SINOLE 20NE		West Lovingtor	ı Unit
2. Name of Operator GREEN	HILL PETROLEUM	CORPORATION		8. Well No. 86	
3. Address of Operator 11490	Westheimer, Su	ite 200, Houston	n, TX. 77077	9. Pool same or Wildcar West Lovington	Upper San Andre
4. Well Location B Unit Letter		om The East	Line and1	190 Feet From The	North Line
Section 8	Townst	up 17 South Ra	36 East	NMPM	Lea County
		10. Proposed Depth 5230		ormation 1 Andres	12. Rotary or C.T. Rotary
13. Elevations (Show whether 3901.6		4. Kind & Status Plug. Bood lanket on file	15. Drilling Contractor TBD	16 Approx. 12-1-9	Date Work will start
17.	PR	OPOSED CASING AN	ID CEMENT PROGE	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	350'	250	Surface
7 7/8	5 1/2	15.5#	5230'	_1300	Surface
·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	L	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OF PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OF PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OF PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OF PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OF PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED NEW PROPOSED NEW PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED NE

I hereby certify that the information above is true and complete to the best of m	y knowledge and belief.		
SKONATURE Ajichael Mungh	Land 1	Manager-Permian	Basin DATE
			713 589-8484
TYPE OR PRONT NAME Michael J. Newport			TELEPHONE NO.

TIL

(This space for State Use)

ATTROVED BY\_

CONDITIONS OF APPROVAL, IF ANY:

Casing Program				BOP Program			
<u>Size</u>	Depth	<u>Wt.</u>	Grade	<u>Configuration</u>	<u>Test Program</u>		
8 5/8" 5 1/2"	350' 5230'	24# 15.5#	J55, STC J55,STC	*RR or RA N/A	250/1500 psi		

\*RR-Ram Ram RA-Ram Annular

1

2

- it -

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

125630

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

39 Å.

OIL CONSERVATION DIVISION 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

chual Footage Location of Well:	County       LEA         from the       NORTH         line       Dedicated Acreage:         dres       20         vorking interest and royalty).         consolidated by communitization,         de of
B       8       17 SOUTH       36 EAST       NM         Imal Footage Location of Well:       1450       feet from the       EAST       line and       1190       feet in the intervention of the interventintex of the intervention of the interventintex of the in	IEA       from the     NORTH       Ine       Dedicated Acreage:       dres     20       Acres
uai Footage Location of Well:       1450       feet from the       EAST       line and       1190       feet :         und level Elev.       Producing Formation       Pool       100       feet :       100       feet :         3901.6       San Andres       Lovington Upper San Andres       Lovington Upper San Andres       1.         I. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below.       2.       If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to v         3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been cusitization, force-pooling, etc.?       Xxx       Yes       No       If answer is "yes" type of consolidation       unitized         If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse si this form if neccessary.       No       No       all interests have been consolidated (by communitization, unitized)	from the NORTH line Dedicated Acreage: dres 20 Acrea vorking interest and royalty). consolidated by communitization, de of
1450       feet from the       EAST       line and       1190       feet mage         and level Elev.       Producing Formation       Pool       Lovington Upper San Andres         3901.6       San Andres       Lovington Upper San Andres       Lovington Upper San Andres         1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below.       2. If more than one lease is dedicated to the subject well, outline each and identify the ownership thereof (both as to w         3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been ounitization, force-pooling, etc.?       No       If answer is "yes" type of consolidation       unitized         If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if neccessary.       No       No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitized)	Interview     Interview       Ires     Dedicated Acreage:       1res     20       Acres       Porting interest and royalty).       consolidated by communitization,       de of
Indexet Elev.       Producing Formation       Pool         3901.6       San Andres       Lovington Upper San Andres         I. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.       It more than one lease is 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 subject well, outline each and identify the ownership thereof (both as to w         3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been or unitization, force-pooling, etc.?         XIX Yes       No         If answer is "yes" type of consolidation       unitized         If more than one lease and tract descriptions which have actually been consolidated. (Use reverse si this form if neccessary.         No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitized)	Interview     Interview       Ires     Dedicated Acreage:       1res     20       Acres       Porting interest and royalty).       consolidated by communitization,       de of
<ul> <li>3901.6 San Andres Lovington Upper San Andres</li> <li>I. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the subject well, outline each and identify the ownership thereof (both as to w</li> <li>If more than one lease of different ownership is dedicated to the well, have the interest of all owners been or unitization, force-pooling, etc.?</li> <li>Xex Yes INO If answer is "yes" type of consolidation <u>unitized</u></li> <li>If more its the owners and tract descriptions which have actually been consolidated. (Use reverse sit this form if neccessary.</li> <li>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitized)</li> </ul>	dres <u>20</u> Acres vorking interest and royalty). onsolidated by communitization, de of
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the subject well, outline each and identify the ownership thereof (both as to w</li> <li>If more than one lease of different ownership is dedicated to the well, have the interest of all owners been o unitization, force-pooling, etc.?</li> <li>Xex Yes INO If answer is "yes" type of consolidation <u>unitized</u></li> <li>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse si this form if neccessary.</li> <li>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitized)</li> </ol>	vorking interest and royalty). onsolidated by communitization, de of
<ul> <li>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to well).</li> <li>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been or unitization, force-pooling, etc.?         Xxx Yes     </li> <li>If answer is "yes" type of consolidation <u>unitized</u>         If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse such is form if neccessary.     </li> <li>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitized)</li> </ul>	onsolidated by communitization,
unitization, force-pooling, etc.? XXX Yes I No If answer is "yes" type of consolidation <u>unitized</u> If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse si this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitiz	ie of
XXX Yes No If answer is "yes" type of consolidation	
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse sin this form if necessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitiz	
this form if neccessary	
	ation, forced-pooling, or otherwise)
or until a non-standard unit, eliminating such interest, has been approved by the Division.	
	OPERATOR CERTIFICATION
	I hereby certify that the information
	contained herein in true and complete to the
	best of my knowledge and belief. Michael J. Newport
	Signature
	Printed Name
Q	Land Manager-Permian Basin
	Position
i · · · · ·	Greenhill Petroleum Corp. Company
	11-11-91
	Date
	SURVEYOR CERTIFICATION
	I hereby certify that the well location show on this plat was plotted from field notes o
	actual surveys made by me or under m
	supervison, and that the same is true and
	correct to the best of my knowledge and
	belief.
	Date Surveyed
	10-7-91
	Signature & Seal of
	Professional Surveyor 171
	11 AL DOCTODERON SHIP
	ALE IN A SAE
	CHMall Ja Ouldon
	Chilicate No. JOHN W. WEST, 576
	RONALD JEDSON 3239
<b>330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0</b>	Fre Chi a conserve Chi 1



# GREENHILL PETROLEUM CORPORATION ERV ON DIVISIONSTON, TEXAS 77077-6841 TELEPHONE (713) 589-8484

11490 WESTHEIMER ROAD, SUITE 200 FAX. (713) 589-9399

RECEVED

Incorporated in Delaware, U.S.A.

'91 NOI 18 AM 9 56

November 11, 1991

P-6-17-36

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 West Lovington 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 West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 Information gathered as a result of drilling this infill unit. 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,

ichael Things &

Michael J. Newport Land Manager-Permian Basin

MJN:sjs 91.261

		λ. <u>λ</u>	e e l'éténye		
Submit to Appropriate District Office State Lease - 6 copies Foe Lease - 5 copies		State of New Me Minerals and Natural Re	esources Department		Form C-101 Revised 1-1-89
DISTRICT I P.O. Bax 1980, Hobbs, NI	M 88240	CONSERVATIC P.O. Box 208 anta Fe, New Mexico	38	API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artesia,			0150-72000	5. Indicate Type of Lease ST 6. State Oil & Gas Lease	
DISTRICT III 1000 Rio Brazos Rd., Azte	sc, NM 87410	•		B 4120	
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK	{//////////////////////////////////////	
1a. Type of Work:				7. Lease Name or Unit Ap	greement Name
b. Type of Well;	L KX RE-ENTER	DEEPEN	PLUG BACK		, ,
WELL XK WELL	OTHER	SINOLE ZONE		West Lovington	Unit
2. Name of Operator GREEN	HILL PETROLEUM	CORPORATION		8. Well No. 87	
3. Address of Operator 11490	Westheimer, Su	ite 200, Houstor	n, TX. 77077	9. Pool name or Wildcat West Lovington	Upper San Andre
4. Well Location Unit Letter	<u>P:_1305_</u> F∞t F	· <u> </u>	Line and	1305 Feet From The	South Line
Section	6 Towns	hip 17South Ray	e 36East N	IMPM	Lea County
		10. Proposed Depth 5230		ormation n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show wheth 3907.7		4. Kind & Status Flug. Bond Blanket on file	15. Drilling Contractor TBD	16. Approx. 1 12-1-9	Date Work will start
17.	PR	OPOSED CASING AN	ID CEMENT PROGE	MA	•
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	350'	_250	Surface
7 7/8	5 1/2	15.5#	5230'	1300	Surface
	<u> </u>				

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FLUG 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 this and complete to the be	at of my knowledge	6 284 045	H <b>K.</b>			:	
SIGNATURE Michael Abund	· · · · ·		Land Manager-	Permian	Basin DATE _	11-11-91	
						589-8484	:
TYPE OR PRONT HANGE Michael J. Newport					TELEPHO	NENO.	

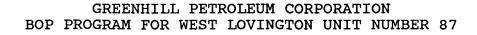
TITLE

DATE

(This space for State Use)

APPROVED BY .....

CONDITIONS OF APPROVAL, IF ANY:



#### Casing Program BOP Program <u>Configuration</u> <u>Size</u> <u>Depth</u> <u>Wt.</u> <u>Grade</u> Test Program J55, STC J55,STC 8 5/8" 350**′** 24# \*RR or RA 250/1500 psi 5 1/2" 15.5# 5230**′** N/A

4

\*RR-Ram Ram RA-Ram Annular

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

125630

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

State of New Mexico

Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION P.O. Box 2088

an an the state of 
Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Well No.	
GREENHILL	. PETROLEU	M CORP.		WEST I	OVINGTON	UNIT		87	
Unit Letter Sec	boa	Township	<u> </u>	Range			County	L	
Р	6	17	SOUTH	3	6 EAST	NMPM	LE	A	
Actual Footage Location	of Well:		· · · · · · · · · · · · · · · · · · ·						
	from the	EAST	line and	130	)5	feet from t	the SOU	1114	
Ground level Elev.	-	Formation		Pool				Dedicated Acres	ige:
3907.7	San And				ton Upper		s	20	Acres
2. If more than 3. If more than unitization, f	one lease is dedi one lease of diffe orce-pooling, etc.	cated to the we erent ownership ? No If	well by colored per ll, outline each and is dedicated to the answer is "yes" typ	identify the or well, have the	where the second of all own interest of all own it is a second se	both as to workin ners been consoli zed	-	• •	
If answer is "no this form if nec No allowable w	cessary	the well until	iptions which have all interests have be terest, has been app	en consolidate	d (by communitiz		forced-pooling	z, or otherwise)	
						Josephine Single	I hereby misined herein sist of my knowl Michael gnature and Mana sition reenhill mpany 1-11-91 ate SURVEY hereby certify a this plat we chief. Date Surveyed ignature & Sea pervison, and wrect to the shief.	OR CERTIFIC certify that the in true and ca edge and belief. J. Newpor ager-Permi Petroleu OR CERTIFIC that the well has plotted from made by me that the same best of my h OCT. 7 Hof SISSIFIC STAND SISSIFIC CON NUMER CON NUMER CON NUMER	e information omplete to the t an Basin m Corp. CATION coation shown field notes of or under my e is true and nowledge and , 1991
0 330 660 990	1320 1650	1980 2310	2640 200	0 1500	1000 50		THUNK AND	1D J. END	<u>N</u>

91-11-0110

Form C-102

Revised 1-1-89

GREENHILL PETROLEUM CORPORATION

 ON DIVISION
 11490 WESTHEIMER ROAD, SUITE 200

 HOUSTON, TEXAS 77077-6841

 TELEPHONE (713) 589-8484

 FAX. (713) 589-9399

'91 NOU 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

A-7-17-36

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 West Lovington Unit <u>Lea County, New Mexico</u>

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 West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 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 91.261

<sup>1</sup> Subimit io Appropr District Office State Lease - 6 co Foe Lease - 5 cop	pics		Minerals and		sources Depar				Form C- Revised	
DISTRICT I P.O. Bax 1980, He	655, NM 88240		P.0	. Box 208		UN	API NO. ( assign	ned by OC	D og New Wel	15)
DISTRICT II P.O. Drawer DD, A	Artesia, NM 8821		inta Fe, New		87504-2088	• • *	5. Indicate Typ	x of Lease ST	ATE XX	FEE
DISTRICT III 1000 Rio Brazos R				<u>_</u>	· · ·		6. State Oil & B 4	Gas Lease	No	-
		OR PERMIT T	O DRILL, DI	EEPEN, C	DR PLUG BA	СК				
1a. Type of Work:							7. Lease Name	or Unit Ag	preement Name	•
b. Type of Well:	DRILL EX	RE-ENTER	DEEPE	EN DI SINOLE ZONE	PLUG BACK MULTE XXX	□ <sup>™</sup> □	West Lov	ington	Unit	1
2. Name of Opera				- <u></u>	······································		8. Well No.			
G	REENHILL	PETROLEUM (	CORPORATI	ON			88			
3. Address of Ope							9. Pool name of	r Wildcat		
1	1490 West	heimer, Su	ite 200,	Houstor	1, TX. 770	77	West Lovi	ngton	Upper Sa	an Andres
4. Well Location Unit Lette	r:	130 Foot Fr	m The No	rth	Line and	1305	Feet Fro	m The	East	Liae
Section	7	Townsh	17 Sou	th Rar	36Eas	t	NAPM		Lea	County
			10. Pro 5230	posed Depth		1	ormation n Andres		12. Rotary or Rotary	С.Т.
13. Elevations (Shor 3905.7	v whether DF, R1		.Kind & Sums lanket on		15. Drilling C TBD			Approx. 1	Date Work will 1	start
17.			OPOSED CA	SING AN	ID CEMENT					
SIZE OF HO	E SIZE	OF CASING	WEIGHT PE	R FOOT	SETTING D	EPTH	SACKS OF C	EMENT	EST.	TOP
12 1/4		<u>i/8</u>	24#	<u> </u>	350'	<u> </u>	250		Surfacë	
7 7/8	5 1	/2	15.5#		5230'	·	1300	······	Surface	
L	·		L			<u> </u>				

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL B TO DEETEN OR FLOU BACK, GIVE	DATA ON PRESE	0001146	DUNE AND P	HUITUBED I	CH LHO	 
ZONE. GIVE BLOWOUT PREVENTER PROGRAM, B'ANY.					÷	
I hereby certify that the information above is true and complete to the best of my knowledge and belief.			÷ .	· .		÷

	ichael Mund	Land Manager-Permian Basin pate	11-11-91
		71	3 589-8484
TYPE OR FRINT NAME	Michael J. Newport	122	HONE NO.

DAT

(This	space	for	State	Use)	)
-------	-------	-----	-------	------	---

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

-----

<u>Casing</u>	Program			BOP Program	
<u>Size</u>	Depth	<u>Wt.</u>	Grade	<u>Configuration</u>	<u>Test Program</u>
	350 <b>'</b> 5230 <b>'</b>	24# 15.5#	J55, STC J55,STC	*RR or RA N/A	250/1500 psi

\*RR-Ram Ram RA-Ram Annular

1

. -

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

125630

1

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

State of New Mexico Energy, Minerals and Natural Resources Department

#### **OIL CONSERVATION DIVISION** 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							Lease						W	el No.	
GREENHI	LL P	ETROL	EUM (	CORP.				WES	ST LOVI	NGTON	UNIT				88
Unit Letter	Secti	010		Townshi	P		Range					County	<u>,</u>		
А		7			17	SOUTH		36	EAST		NMPM		LE	A	
Actual Footage Loca	ation of	Well:		•								<u>.                                    </u>			
130	feet f	rom the		NC	RTH	line and			1305		feet from	the	EAST	line	
Ground level Elev.			tucing F	ormatio	۵	<u>.</u>	Pool						D	edicated Acr	eage:
3905.7		San A	Andre	es			Lovi	ngto	on Uppe	r San	Andre	s		2Ó	Acres
1. Outline	e the ac	reage ded	icated to	o the sub	ject we	ll by colored pe								<u></u>	
2. If more	e than o	Me lease i	s dedica	ited to the	s well.	outline each and	l identify	the ow	nership then	eof (both a	s to workir	interes	at and row	lity).	
							-		-			-	•	•	
		one lease ( ree-poolin		ent owne	ership is	dedicated to th	e well, ha	ve the	interest of al	l owners b	een consol	idated by	y commun	itization,	
xxx		ice-pooim	· — .	No	lf an	swer is "yes" ty	ne of cons	olidati	on u	nitize	d			•	
		list the o				ions which have									
this form													·		- <u>v</u>
or until a	BOD-Sta	u oe assig indard uni	ned to ti Lelimin	ne well t nating sou	unui all ch inter	interests have b est, has been ap	cen conso proved hv	ndated the Di	i (by commu ivision	111221008,	unilization	, iorced-	pooling, c	r Otherwise)	
											·····			<u> </u>	
A CONTRACTOR		2				<u> </u>	130		d	-1305'-				R CERTIF	
		1				1				1305					he information
														n true and re and belief.	complete to the
		l t									N N	licha	el J.	Newpor	·+ ,
		1						1				gnature	11		
		1				1						4	k: I.	.Ι.Μ.	
Ŋ		ļ									P	inted Na	<u>/~~~~</u>	a y ww	
						<b>↓</b>			 		_  I	and	Manag	er-Perm	ian Basin
		1								~		ositica			tan basti
												reen	hill	Petrole	um Corp.
		I										ompany			<u>am_oorp</u> .
8		1				Į.						.1-11	-91		
		1 .									D	ate			
24 24		1						1							
		Í											VEVOI		ICATION
Sectore and Statistics at	313.500° @		1000 C		15.0.2.7.4	Ş700:						301	VEIO		CATION
		i				£		. 1				hereby	certify th	at the well	location shown
		i						j	н. - С		a	n this p	olat was	plotted from	s field notes of
		i			L.			1			0				or under my
-								1							ne is true and knowledge and
		1 -										elief.	• ·		
		1										•			
					ł.							Date Sur	veyed		
<b></b>						100000000	a herri w	. www.k			┉╽	1	A C 1	10-9-9	
						1			ŀ			rofessio	: & Seal o nal Surye	yor AM	117.
-		1											1111	y LAM	l'alle
		I								•			15	,	00 ( P) + F
		1										$\square$		1 No /	
1		1										U.		Valar	AZ
		1				<b>.</b> .		ſ				<u>U</u> Certificati	Mail	17-0	
		Ì								. <u></u>			<b>E</b> 1.40	(1.10) W. W.	
					F====			4					Y RON	ALD JEID	5239
0 330 660	990	1320 10	i 19	980 23	10 26	40 200	10 1	500	1000	500	o	W.O.	91	1420111	DSN'IN
													<u> </u>	1 10 01 11	144

GREENHILL PETROLEUM CORPORATION ON DIVISION 11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 VED RECE

FAX. (713) 589-9399

'91 NOU 18 AM 9 56

incorporated in Delaware, U.S.A.

November 11, 1991

G-7-17-36

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 89 West Lovington 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 89 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 89 is located in the interior 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 91.261

Submit to Appropriate District Office State Lease - 6 copies	Energy,	State of New Me Minerals and Natural Re		• •	Form C-101 Revised 1-1-89
Foe Lease - 5 copies DISTRICT I P.O. Box 1980, Hobbs, NI	M 88240	CONSERVATIO P.O. Box 208	38	API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artesia,	5	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Azia	ec, NM 87410			6. State Oil & Gas Lease B 4/2 0	No.
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK	<i>\////////////////////////////////////</i>	7777777777777777777
Ia. Type of Work:	<u></u>	······································		7. Lease Name or Unit Ap	greement Name
DRIL. b. Type of Well;	L XX RE-ENTER		PLUG BACK		
OL GAS WELL [	OTHER	SINCLE ZONE	XX ZONE	West Lovington	Unit
2. Name of Operator GREEN	HILL PETROLEUM	CORPORATION		8. Well No. 89	
3. Address of Operator 11490	) Westheimer, Su	ite 200, Houstor	1. TX. 77077	9. Pool name or Wildcat West Lovington	Unner San Andr
4. Well Location	G : <u>1335</u> Feet F	······································	Line and		Nòrth Lie
7 Section	Town	tip 17 South Ray	nge 36 East 1	NMPM	Lea County
		10. Proposed Depth 5230		ormation n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show wheth 3901.0		4. Kind & Status Plug. Bood Blanket on file	15. Drilling Contractor TBD	16. Approx. 1 12-1-9	Date Work will start
17.	PF	OPOSED CASING AN	ID CEMENT PROGE	RAM STATES	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	350!	250	Surface
7 7/8	5 1/2	15.5#	5230'	1300	Surface

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM:	IF PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND P	NOPOSED NEW PRODUCTIVE
ZONE. GIVE BLOWOUT PREVENTER PROGRAM, & ANY.		· .

SIGNATURE	hickael /	$\mathcal{M}$			Manager-	Permian	Basin DATE _	11-11-91	
TYPE OR PRINT NAME		J.	Newport	 		- - -		589-8484	. * ·

.

DATE

(This space for State Use)

APPROVED BY ...

CONDITIONS OF AFTROVAL, IF ANY:

<u>Casing</u>	Program			BOP Program	
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Program</u>
	350 <b>'</b> 5230 <b>'</b>	24# 15.5#	J55, STC J55,STC	*RR or RA N/A	250/1500 psi

\*RR-Ram Ram RA-Ram Annular Sybmit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

. . . ~

Form C-102 Revised 1-1-89

. 9.

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088"

Santa Fe, New Mexico 87504-2088

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								Lease	•					Wei	I No.	
GREENH	ILL F	PETRO	LEUN	1 COR	Ρ.				WEST	LOVIN	GTON U	JNIT			89	
Unit Letter	Sect	ion		Town	nship		-	Rang	e				County	I		 ,
G		7			17	SOUT	H		36	EAST		NMPM		LEA		
Actual Footage L	ocation o	of Well:			•								<u> </u>			
1335	feet	from the		EAS	Т		line and		1335			feet from	the NC	ORTH	line	
Ground level Ele				ng Form	atice			Pool			······			Ded	icated Acro	tage:
3901.0		Sa	an A	ndres				Lo	vingt	on Upp	per Sa	n Andr	es		20	Acres
	line the a	creage d	iedicate	d to the	subject	well by c	olored per	_		arits on the						
		· • • ·					_									
2. lf m	oore than	one leas	is is do	dicated t	0 the W	ell, outlin	e each and	l identi	fy the ow	nership the	reof (both a	as to worki	ng interes	t and royalt	<b>y).</b>	
3. If m	ore than	one leas	e of di	fferent o	wnershi	p is dedic	ated to the	e well. I	have the	interest of a	ul owners l	been consol	idated by	communiti	zation.	
	ization, f					<b>P</b>									,	
	k Yes			] No			s "yes" tyj				itized					
			e owde	rs and tra	act desc	riptions w	hich have	actual	h peer co	onsolidated.	(Use reve	rse side of				· · ·
	rm if nec owable w		signed	to the w	ell until	all intere	sts have b	een cor	solidated	(by comm	unitization	unitization	forced-r	ooling, or o	therwise)	
							s been ap						, 101000 p	oomig, or o		
time and the second	in shinings											T				<b>0</b> 4 <b>37</b> 01 7
(Celerativestration)	C. Martinetter	Ī														CATION
		i														he information complete to the
		i							2					herein in i knowledge		
		1							33				Micha	el J.	Newpon	:t
									Ī			5	ignature	11	A 1	1
		!											Ch.	hard	M	đ
		ļ										P	rinted Nat	me /	my	/
												1 1-			-Permi	lan Basi
									6		-1335-		osition			
		1												ill Pe	trolei	ım Corp.
6		1							1			1	ompany			
		1.3				ļ			j			11	1-11-	91		
		i				1			j					<u>, , , , , , , , , , , , , , , , , , , </u>		
		i							1		•.					
	-															
1A													SUR	VEYOR	CERTIF	ICATION
	树的油之。	<u>- 18 8.85</u>	والمحاطرة والمراجع	1.5 No.7	Staff of the											
						1			•							location show i field notes
1																or under M
																ne is true a
												c	orrect to	the best	of my	knowledge a
												6	elief.			
Į.		1	÷			1			1				Date Surv	eyed		
						10000	all and the part	5.2 M	<del>84: 44.63</del> 6	Sector Sector				•	<b>. 9,</b> 19	991
		i				T			j				Signature	& Seal of		//1
·									1					al Surveyo		· .
		ł							. 1					.114	CD IA	MANTIN
,		ł							2					Nº AF	15 9 800080	Seren
		Į					. L						<i></i>	5 50	ົ່	ose Plan
1		1				1							Kom	. II	14	123
1		1											Certificate	ara j	<u>y - P</u>	<u>ww</u>
		Ì							l			``	T	-	1011 TO 101	
Magnese	fel waren		610 J		120			1970 N. H.	102 <sup>10</sup> -	ug≠ é.,	143.72-5	ヨート		RONAL	D J EIDS	UN 328
0 330 660	990	1320	1650	1980	2310	2640	200	00	1500	1000	500	0		12/0/	ME	and the
												L		· · · ·	44 14_14	<u> </u>
														17	17 Millin	( A CONTRACT

125630

GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

'91 NOU 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

6-7-17-36

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 90 West Lovington Unit <u>Lea County, New Mexico</u>

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 90 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 90 is located in the interior 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 91.261

			•		
Judit Lo Appropriate District Office State Lease - 6 copies	Energy,	State of New Me Minerals and Natural Re			 Form C-101 Revised 1-1-89
Fee Lesse - 5 copies <u>DISTRICT I</u> P.O. Bax 1980, Hobbs, NIV	1 88240	CONSERVATIC P.O. Box 208	38	API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, M		Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease 5 6. State Oil & Gas Lease	
DISTRICT III 1000 Rio Brazos Rd., Azier	c, NM 87410			B 4/2 0	iw).
APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK		
1a. Type of Work:				7. Lease Name or Unit A	greement Name
DRILL b. Type of Well: OIL OAS		SINGLE	PLUG BACK	West Lovingtor	n Unit
WELL XK WELL	OTHER	ZONE	XX ZONE		
2. Name of Operator GREEN	HILL PETROLEUM	CORPORATION	······································	8. Well No. 90	
3. Address of Operator 11490	Westheimer, Su	ite 200, Houstor	л. ТХ 77077	9. Pool name or Wildcat West-Lovington*	
4. Well Location G Unit Letter	:			80 Feet From The	· · ·
7 Section	Точт	thip 17 South Rar	nge 36 East	IMPM	Lea County
		10. Proposed Depth 5230		ormation Andres	12. Rotary or C.T. Rotary
13. Elevations (Show whethe		4. Kind & Status Plug. Bood Blanket on file	15. Dnilling Contractor TBD		Date Work will start
<u>3900.4</u> 17.		IOPOSED CASING AN		12-1-9	L
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#		250	Surface
7.7/8	5 1/2	15.5#	5230'	1300	Surface
·					

Ł

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # MOPOSAL IS TO 20NE. GIVE NOWOUT PREVENTER PROGRAM, # ANY.	DICEPTEN OI	R PLUG BA	CK, GIVE DATA ON PRESENT PROD	UCTIVE ZONE AND PR	OPOSED NEW PRODUCTIVE
I hereby certify that the information above is true and complete to the best of my knowled, SIGNATURE	•		Managor-Dormian	Pasia	11 11 01
SIGNATURE Michael J. Newport		Lallu	<u>Manager-Permian</u>		589-8484

TILLE

···..•.

DATE

(This space for State Use)

APPROVED BY \_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Casing	Program			BOP Program	
<u>Size</u>	Depth	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Program</u>
,	350 <b>'</b> 5230 <b>'</b>	24# 15.5#	J55, STC J55,STC	*RR or RA N/A	250/1500 psi

\*RR-Ram Ram RA-Ram Annular

. 4

DISTRICT | P.O. Box 1980, Habbs, NM 88240

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

DISTRICT III Rd. Artes NM \$7410

#### State of New Mexico Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

erator	······	<u> </u>	<u></u>	Leas	-					Well No.
	HILL PETROI	LEUM CORP.	•			LOVING	TON U			90
it Letter	Section	Towaship		Ran	-	-			County.	
G	7	1/	SOUTH	L		EAST		NMPM	. LE	A
nal Footage Loca	tion of Well:	71.07			2500			n	NOR	ጥሀ
1335 und level Elev.	feet from the	EAST cing Pormation	line	and Pool	2580		-	leet from th		Dedicated Acreage:
	1	-								<b>-</b> ,
3900.4	San Ar	ndres		Lov_	vingtor	Uppe	r San	Andres		<u>20 Acre</u>
	the acreage dedict	Ked to the subjec	t well by color	ea peacu or			plat below.	:		
2. If more	s than one lease is (	dedicated to the v	vell, outline ca	ch and ident	ify the own	ership there	of (both as	to working	; interest and r	oyalty).
2 14	than one lease of	different company	in in dedicate		have the in	ternet of all			lated by comm	maitination
	tion, force-pooling,		nh m occared	i so une weit,	, na ve une la		OWINCIS OF		and by comm	MINUZARON,
<u>E3</u>	Yes		lf answer is "y	es" type of (	onsolidatio	<u>un</u> :	itized			
	is "no" list the own	eers and tract des	criptions which	h have actua	lly been cor	solidated.	(Use reven	e side of		
	if neccessary	d to the well unt	il all interests l	have been or	naolidated (	hy commu	nitization t	mitization	forced-pooling	or otherwise)
	non-standard unit,					• •				
									OPER AT	OR CERTIFICATIO
	· •									certify that the info
	1		ł					c0		in true and complete
	1	· .			1			be	t of my knowl	edge and belief.
	l				Ö					I. Newport
	İ				ŝ			248		IN A
÷	i				Ĩ				Jucha	11. Lugar
	i				li				nted Name	Pormion 1
			╼╺┽╼╼┈	, <del></del>	· +					ager-Permian
	l i								<b>itica</b> reenhili	Potroloum C
	1 1 .									L Petroleum Co
	I I							1 1	<b>mpany</b> 1 <b>-</b> 11-91	
•	I I		Í							
	·						335'		SURVEY	OR CERTIFICATI
16176 - 18 Martin	THE POLY				!					
	ļ				· · •					that the well location as plotted from field t
	ļ				1					made by me or un
	ļ				ļ				pervison, and	t that the same is tr
	l de la companya de la							11	rrect to the	best of my knowled
								be	lief.	
			ALL STREET						ate Surveyed	
	╺╺╍╸╍╍┥╍╍╸						and the second		00	T-9-1991
	1								gnature & Sei	ul of
	ľ				í			_     <sup>n</sup>	rofessional Su	
	İ				İ				3	SED LAND "
	i i				. i				O JIN	ALLE CONTRACTOR
					1				WES	NIL L. S.
									OS MARIA	KEGIAN
۰,					l				ertificate No.	PANEWS WEST, ?
	1								1 = 8	ONALD J EIDSON
330 660	990 1320 165	0 1980 2310	2640	2000	1500	1000	500	키는		B. MELSON



## GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

'91 NOU 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

P-8-17-36

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 91 West Lovington 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 91 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 91 is located in the interior 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 91.261

		an the Constant of The States of the States	an an ang sa sa sa sa sa sa sa sa sa sa sa sa sa		
Jubril 10 Appropriate District Office State Lease - 6 copies Foe Lease - 5 copies		State of New Me Minerals and Natural Re	esources Department		Form C·101 Revised 1·1-89
DISTRICT I P.O. Box 1980, Hobbe, NM 882	40	CONSERVATIC P.O. Box 208	38	API NO. ( assigned by OC	D on New Wells)
DISTRICT <sup>II</sup> P.O. Drawer DD, Artesia, NM 8		anta Fe, New Mexico	87504-2088	5. Indicate Type of Lease S	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM	87410			6. State Oil & Gas Lease B 4/2 C	No.
APPLICATION	FOR PERMIT T	O DRILL, DEEPEN, C	OR PLUG BACK		
1a. Type of Work:				7. Lease Name or Unit A	greement Name
DRILL KX b. Type of Well: OL OAS WELL XK WELL OT	RE-ENTER		PLUG BACK	West Lovingtor	Unit
2. Name of Operator				8. Well No.	
GREENHILI	L PETROLEUM (	CORPORATION	· · · · · · · · · · · · · · · · · · ·	91	
3. Address of Operator				9. Pool name or Wildcat	
11490 Wes	stheimer, Su	ite 200, Houstor	<u>1, TX. 77077</u>	West Lovington	Upper San Andre
4. Well Location Unit Letter D :	158 Food Fre	m The West	Line and130.	5 Feet From The	North Line
Section 8	Townsh	ip 17 South Rar	ge 36 East	MPM	Lea County
		10. Proposed Depth 5230		ormation n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show whether DF, 3901.0		. Kind & Status Plug. Bond lanket on file	15. Drilling Contractor TBD	16. Approx. 12-1-9	Dale Work will start
17. 14 sec. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1	PR	POSED CASING AN	ID CEMENT PROGR		n an an an an an an an an an an an an an
SIZE OF HOLE SIZ	ZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
	5/8	24#	_350!	250	Surface
7 7/8 5	. 1/2	15.5#	5230'	1300	Surface
L			· · · · · · · · · · · · · · · · · · ·	L	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED NEW

I hereby certify that the infog	tution above is true as	ad complete to the best of my	knowledge and belie	ĸ.				18 L
SKONATURE Micha	el Munt			Land	Manager-Permia	n Basin PATE	11-11-91	
	, , ,						3 589-8484	
TYPE OR PRINT NAME	Michael J.	Newport			· · · · · · · · · · · · · · · · · · ·	TELEP	HONE NO.	

TILE

••••

DATE

(This space for State Use)

APPROVED BY ....

CONDITIONS OF APPROVAL, IF ANY:

<u>Casing</u>	Program			BOP Program	
<u>Size</u>	Depth	<u>Wt.</u>	Grade	<u>Configuration</u>	<u>Test Program</u>
8 5/8" 5 1/2"	350 <b>'</b> 5230 <b>'</b>	24# 15.5#	J55, STC J55,STC	*RR or RA N/A	250/1500 psi

\*RR-Ram Ram RA-Ram Annular

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

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

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

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

والمتعليم أوجر والمعاجرة أجروا محاور أراده والمراجع والمراجع

مېيىسى د يې بېرى بېر. بېكى تېرېكى د رايامى قىلى يې د تىرى يې شو يې يې د

No. 1996

• .

#### **OIL CONSERVATION DIVISION** P.O. Box 2088

Santa Fe, New Mexico 87504-2088 

### WELL LOCATION AND ACREAGE DEDICATION PLAT

125630

All Dies as he form the extent heredealers of the constant

4, 23

GREENHI	LL P	ETROLEU	M CORP.		Lease	WEST	C LOVI	NGTON	UNI	6	Well N	91	
Letter	Sect		Township	······	Range		· · · · ·		-,	County	l		
D		8	17 SO	UTH	3	6 EA	AST	_	NMP	M	LEA		
I Footage Lo	cation o	f Well:						1. 2					
15	feet	from the	WEST	line and		.305			feet fro	m the NC		ine	
ad level Elev.			ing Formation		Pool		*				Dedica	led Acreag	e:
3901.0		San And						er San		res		_20	Acres
I. Outli	ne the a	creage dedicat	ed to the subject w	ell by colored p	scil or hac	hure m	arits on th	e plat below	•				
2. If mo	re than	one lease is d	edicated to the well	, outline each an	d identify t	the own	ership the	reof (both a	s to wor	king interest a	nd royalty).		
			ifferent ownership	is dedicated to th	ie well, hav	ve the is	aterest of a	ali owners b	een con	solidated by o	ommunitizat	on,	
		nce-pooling, o	stc.?			-1: 4-4-4	- 110	itizad					
XX If answe		" list the own	No If a	nswer is "yes" ty sions which hav	pe or cons e actually h	olioalio Xeer co	nsolidated	(lise rever	se side	of			
this for	n if necc	zesary.						_		· ·		_	
No allo	vable w	ill be assigned	to the well until a	l interests have l	seen consol	lidated	(by comm	unitization,	unitizati	on, forced-poo	ling, or othe	twise)	
or until	8 DOD-51	indara unit, e	liminating such into	erest, has been aj	proved by	the Div				· · · · · · · · · · · · · · · · · · ·		·	
·····				1						OPER	ATOR CE	RTIFIC.	ATION
		1		ſ							by certify		
										contained h			iplete to
										ben of my kn Michae	<b>owiedge and</b> 1 T Nie	belief.	
						. !				Signature		wport	
,		1				ļ				0.	//		
						ļ				Printed Name	rait (11	mpl _	
						<u> </u>					anager-	Dormi	D
5'				T		T				Position	allager	Permia	an Ba
		i				· 1					;11 Dom		0
						1				Company	ill Pet	roeiu	<u>n Cor</u>
				ļ		- İ				11-11-	01		
		ĺ				Í				Date	71		
		İ				i							
		i				- i		~					
							4 			SURV	EYOR CE	RTIFIC.	ATION
		i		1			1	All and a second second	-stane /.	I hereby ce	with that th	a wall ta	ntion at
		i								on this plat			
		i		1		i i		-		actual surv	rys made	by me of	under
		1	• •							supervison,			is true
		1								belief.	INE DESI O	ту као	wiedge
												-	
		 	و المحمد المراجع المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد الم			I				Date Survey			· .
			ala sa kana kana kana kana kana kana kana		281.292		ş'				OCT.	1,199	1
		1		1		1				Signature & Professional			
*		1				ļ		*			,111111	1 8 8 8 8 8 8 9 9	•
					•	ļ					I'L'ERED	LAND	P. Con
						2				0 3			C. La
						Ì				WE	SIV I	Ver"	
		1			•	- I				ym	WU J	Qu	
		1	•	1		- Ì				Certificate N	27	W/WEST	'ā •
				1							0011		<u> </u>
									۲,	1 =	RONALD	EIDSON	



OIL CONSERV 1140 WESTNERMER ROAD, SUITE 200 REC: HOUSTON, TEXAS 77077-6841 TELÉPHONE (713) 589-8484 FAX. (713) 589-9399 '91 NOV 18 AM 9 56

Incorporated in Delaware, U.S.A.

سعاد سعدن

November 11, 1991

E-8-17-36

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

Unorthodox Location and Drilling Permit Re: Proposed Well Number 92 West Lovington 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 92 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 92 is located in the interior 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 91.261

		in the strength of		I		
- Submit & Appropriate District Office	Energy.	State of New Me Minerals and Natural Re		¢	Form C	
tate Lesse – 6 copies ce Lesse – 5 copies <u>ISTRICT I</u> .O. Bax 1980, Habbs, NN	OIL (	CONSERVATIC P.O. Box 208	N DIVISION	API NO. ( assigne	Kevised d by OCD on New We	
) <u>ISTRICT II</u> .O. Drawer DD, Anesia, I	S	Santa Fe, New Mexico	87504-2088	5. Indicate Type	STATE XX	FEE
<u>OSTRICT III</u> 000 Rio Brzzos Rd., Aze	c, NM 87410		· ·	6. State Oil & G B 4/2		
APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK			
. Type of Work:	<u></u>	<u></u>		7. Lease Name o	r Unit Agreement Nam	6
DRILI	L KX RE-ENTER		PLUG BACK		· · · · ·	
WELL XK WELL	] OTHER	SINOLE ZONE	XX ZONE		ngton Unit	·
Name of Operator		CORDORATION		8. Well No.		· ·
	HILL PETROLEUM	CORPORATION	· ·	92 9. Pool name of	Wildcat	
Address of Operator 11490	Westheimer, Su	ite 200, Houstor	n, TX. 77077		gton Upper S.	an Andi
Section 8		thip 17 South Rai 10. Proposed Depth 5230		NMPM Formation an Andres	Lea ////////////////////////////////////	County /////// C.T.
Elevations (Show whesh 3897.8		4. Kind & Status Plug. Bond Blanket on file	15. Drilling Contracto TBD		Approx. Date Work will 2-1-91	i cart
•		OPOSED CASING AN	ومسراة فتقسير فسيهوز استأكر وججات فتقسيها التصاصي البوري ويند			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CE		. TOP
2 1/4 7 7/8	8 5/8	24#	350'	250	Surface	
7/8	5 1/2	15.5#	5230'	1300	Surface	<b>.</b>
					· · · ·	· ·

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEETEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

SKONATURE _ Min	had Mingh	- 	. • *	 Land	Manager-Permian	Basin DATE -	11-11-91
				 			589-8484
TYPE OR FRONT HAME	Michael J.	Newport			· · · · · · · · · · · · · · · · · · ·	TELEPH	ONE NO.

TTLE

DATE

(This space for State Use)

ATTROVED BY ....

CONDITIONS OF APPROVAL, IF ANY:

### Casing Program

• • • • •

#### BOP Program

1

<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Program</u>
8 5/8" 5 1/2"			J55, STC J55, STC		250/1500 psi

\*RR-Ram Ram RA-Ram Annular

۲

.

Submit Appropriate State Lease - 4 copies Fee Lease - 3 copie P.8.

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

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102

Revised 1-1-89

1224

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. Operator ..... 92 WEST LOVINGTON UNIT GREENHILL PETROLEUM CORP. Unit Letter Section Township Range County LEA 36 EAST 8 17 SOUTH E NMPM Actual Footage Location of Well: NORTH 1335 1305 WEST feet from the line and feet from the line Ground level Elev. Pool **Dedicated Acreage:** Producing Formation 3897.8 20 Lovington Upper San Andres Acres San Andres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? **X**X ] No Yes If answer is "yes" type of consolidation unitized If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Michael J. Newport Signature ula Printed Name Land Manager-Permian Basin 1305 Position Greenhill Petroleum Corp. Company 11-11-91 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 10-11-91 2 toring and the Signature & Seal of Professional Surveyo LAND RED. 3239 RONÂL D. **IDSON** Acro' El II WALD 1 E10; 330 1320 1980 2310 2640 2000 1500 1000 500 Û 660 990 1650 1111191-11 -0115

WELL LOCATION AND ACREAGE DEDICATION PLAT

GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

'91 NON 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

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

Mr. Mike Stogner

Re:

Attention:

Unorthodox Location and Drilling Permit Proposed Well Number 93 West Lovington 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 93 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 93 is located in the interior 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,

ichael Themat

Michael J. Newport Land Manager-Permian Basin

MJN:sjs 91.261

F-8-17-36

Submit to Appropriate District Office State Lease - 6 copies For Lease - 5 copies		State of New Me , Minerals and Natural Re	sources Department		Form C-101 Revised 1-1-89
DISTRICT I P.O. Bax 1980, Hobbs, NM 88	240	CONSERVATIO P.O. Box 208	8	API NO. ( assigned by OC	D on New Wells)
<u>DISTRICT II</u> P.O. Drawer DD, Arlesia, NM		Santa Fe, New Mexico	87304-2088		
DISTRICT III 1000 Rio Brazos Rd., Aztec, N			·	6. State Oil & Gas Lease <i>B</i> 4/2 0	No.
	N FOR PERMIT	TO DRILL, DEEPEN, C	DR PLUG BACK		
1a. Type of Work:				7. Lease Name or Unit A	greement Name
DRILL & b. Type of Well: OIL OAS WELL X WELL	RE-ENTE	R DEEPEN SINGLE		West Lovington	n Unit
2 Name of Operator GREENHII	L PETROLEUM	CORPORATION		8. Well No. 93	
3. Address of Operator 11490 We	stheimer, S	uite 200, Houston	, TX. 77077	9. Pool name or Wildcat West Lovington	Upper San Andres
4. Well Location F Unit Letter	· ····································	From The	Line and133		North Line
Section 8	Точт	stip 17 South Ran	<b>e</b> 36 East 1	MPM Lea	County
		10. Proposed Depth 5230		formation n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show whether DF 3898.9		14. Kind & Status Plug. Bond Blanket on file	15. Drilling Contractor TBD	16. Approx. 12-1-9	Date Work will start
17.	hatal da <b>P</b> I	ROPOSED CASING AN	D CEMENT PROGE	AM	
SIZE OF HOLE S	IZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
	8 5/8	24#	350'	250	Surface
7 7/8	5 1/2	15.5#	5230'	1300	Surface

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED NEW PROPOSE

7 1.7

I hereby certify that the inf	primation above is true and complete to the be	nt of my knowledge	and belief.				• •
SIGNATURE	chael themal		Lane	<u>1 Manager-Pe</u>	ermian Bas	51n DATE	91
TYPE OR FRINT NAME	Michael J. Newport		· · ·			713 589-848 телетноме мо.	4
(This space for State Use)				<u> </u>			
	L F ANY:		TTLE			DATE	

<u>Casing</u>	Program		BOP Program			
<u>Size</u>	<u>Depth</u>	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Program</u>	
	350 <b>′</b> 5230 <b>′</b>	24# 15.5#	J55, STC J55, STC	*RR or RA N/A	250/1500 psi	

\*RR-Ram Ram RA-Ram Annular

а,

ź

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

125630

A,

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

			ances must be		r boundanes			
ator				Lease	TOUTNOT			Well No.
	ILL PETROLE				LOVINGT	UN UNIT		93
Letter	Section	Township		Range			County	
F	8	17 S	OUTH	36	EAST	NMPM	LEA	
al Footage Loca	tion of Well:							
2625	feet from the	WEST	line and	1335		feet from	the NORTH	line
nd level Elev.		ing Formation		Pool				Dedicated Acreage:
3898.9	San A	ndres		Lovingt	on Unner	San Andre		20 Acres
		ted to the subject wel	l by colored pen	cil or hachure	marks on the p	<u>san Andre</u>	<del>S</del>	
		edicated to the well, o	-				na internet and a	<b>H</b> =r)
2 H 1000			·	Jocatal y use ov	mersub mereo	A (DOLL AS ID WORKIN	ng interest and r	oyany).
3. If more	than one lease of d	ifferent ownership is	dedicated to the	well, have the	interest of all	owners been consol	idated by comm	unitization,
	ion, force-pooling,				_		•	·
	Yes [		wer is "yes" typ					
		ers and tract descripti	ons which have	actually been o	consolidated. (	Use reverse side of		
	if neccessary.	to the well until all	internete basis ba		1 (has a more that is		6	
		liminating such intere				uzation, unitization	, forced-pooling	, or otherwise)
			at me ocet app					
	1		<b></b>		1		OPERAT	OR CERTIFICATION
	!				1		I hereby	certify that the informati
	ļ	-			ļ		ontained herein	in true and complete to
	l	33			1	be	est of my knowle	
	1	C1			1		Michael	J. Newport
	i				i	Si	ignature	I IAA A
					1		mil	as Illium It
	Į.				1	P	rinted Name	
	 				<u> </u>		Land Mar	nager-Permian Ba
	26 25	0			I		osition	lagor rormran be
	1				1			1 Dotralaum Car
	i				i			<u>l Petroleum Cor</u>
	i				1		ompany	
	1				1		11-11-91	
	1				l		ate	
	1					· · · ·		
	· · ·				1		SUDVEV	OD CERTIFICATION
						Service 201 10	SURVEIL	OR CERTIFICATION
	i						hanaha aastifa	that the wall location she
								that the well location sho s plotted from field notes
								made by me or under
	1					a.	upervison, and	that the same is true of
	l				2			best of my knowledge a
	1 1					·   b	elief.	
	i						Date Surveyed	·····
	1				2	•	ME SUIVEYED	
a sea de provinción				a mana and a second	₽	·───╎└		10-11-91
					ļ		Signature & Sea Tofessional Sur	
					l	"	17.0FU	AND STE
	Ì				1 .		THE LEWIS	Seeson Sliper
	i				i		S	
			. •		) 	] [	XII N	
	ļ				1		Kmal	the Fridam
					ł			ADHIN W. WEST. 67
	1				1		Manual INO.	
							RO	NALD & EIDSON, 323
		A						
330 660	90 1320 1650	1980 2310 264	10 2000	0 1500	1000	500 0	112	11. 2013

GREENHILL PETROLEUM CORPORATION RECEVED DIVESTION, TEXAS 77077-6841 RECEVED

TELEPHONE (713) 589-8484 FAX. (713) 589-9399

E-8-17-31

'91 NOU 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

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 94 West Lovington 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 94 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 94 is located in the interior 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 91.261

Enclosures

A 27

1			* * * *		
Subruit to Appropriate District Office State Lease - 6 copies For Lease - 5 copies	Energy,	State of New M Minerals and Natural R			Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbe, N	M 88240	CONSERVATIO P.O. Box 20 Janta Fe, New Mexico	88	API NO. ( assigned by OC	D on New Wells)
DISTRICT'II P.O. Drawer DD, Artesia,		and re, new mexico	875042088		
DISTRICT III 1000 Rio Brazos Rd., Azt				6. State Oil & Gas Lease <i>B</i> 4/20	No.
	TION FOR PERMIT	TO DRILL, DEEPEN,	OR PLUG BACK	<i>\////////////////////////////////////</i>	
1a. Type of Work:				7. Lease Name or Unit A	greement Name
	L KX RE-ENTER	DEEPEN	PLUG BACK		
b. Type of Well: OIL OAS WELL XX WELL [	OTHER	SINOLE ZONE	XXX ZONE	West Lovingtor	ı Unit
2. Name of Operator GREEN	HILL PETROLEUM	CORPORATION		8. Well No. 94	
3. Address of Operator			· · ·	9. Pool name or Wildcat	
	Westheimer, Su	ite 200, Housto	n, <u>TX. 77077</u>	West Lovington	Upper San Andre
4. Well Location Unit Letter	: <u>15</u> Feet F	rom The West	Line and 2625	Feet From The	North Line
Section 8	Towas	hip 17 South Ra	nge 36 East	MPM Lea	County
		10. Proposed Depth 5230		ormation 1 Andres	12. Rotary or C.T. Rotary
13. Elevations (Show wheth 3894.3		4. Kind & Sunns Plug. Bond lanket on file	15. Drilling Contractor TBD	16 Approx. 1 12-1-9	Dule Work will stan
17.	PR	OPOSED CASING A	ND CEMENT PROGE	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	350'	250	Surface
7 7/8	5 1/2	15.5#	5230'	1300	Surface
an and an in	an an an an Australia			and the second second second second second second second second second second second second second second second	and the second se

-- j. ...

ι,

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OVER DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OVER DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE OVER DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE

I hereby certify that the skink ture	istornasion above is true and complete to the best	of my knowled	ge and bel	Manager-Perm	ian	Basin DATE	11-11-91	
TYPE OR FRINT NAME	Michael J. Newport				-		589-8484	
(This space for State Use	)	· ·	- <u></u>	· · · · · · · · · · · · · · · · · · ·				•

TILE

DATE

APPROVED BY \_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

<u>Casing</u>	<u>Program</u>		BOP Program			
<u>Size</u>	Depth	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Program</u>	
8 5/8" 5 1/2"			J55, STC J55, STC	*RR or RA N/A	250/1500 psi	

\*RR-Ram Ram RA-Ram Annular

.

5

مھر ہے۔ معرف میں اور اور Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

125630

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

γ.

# OIL CONSERVATION DIVISION

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				Lease				Well No.
GREE	NHILL PETRO	LEUM CORP.		WEST	LOVINGTON	UNIT		94
Jnit Letter	Section	Township		Range			County	1
E	8	17 SOUT	'H	36 E	AST		LE	CA
ctual Footage Loc	1					NMPM		
-		WEST		2625		<b>.</b> -	NORT	чн
15	feet from the		line and			feet from t	he NORI	Dedicated Acreage:
fround level Elev.		ing Formation		Pool				Providence voltage:
3894.3	San A				n Upper Sa		s.	20 Acres
1. Outlin	e the acreage dedica	ted to the subject well	by colored pea	cil or hachure ma	rics on the plat being	DW.		
7 16	n than and lease is d	edicated to the well, o	tine and and	identify the com	and in the second (both	as to workin	a internet and .	menalita)
		current to the well, o		Jucatility and own	eranth mercos (oon	I do LU WULLIN	R IIIICI CAL AULT I	oyany).
3. If mor	e than one lease of d	lifferent ownership is a	ledicated to the	well, have the in	terest of all owners	been consoli	dated by comm	mitization,
	tion, force-pooling,	etc.?					-	
<u></u>	Yes [				<u>unitized</u>			<u></u>
		ers and tract descriptio	ns which have	actually been cos	isolidated. (Use re	verse side of		
	a if neccessary.	to the well until all in	terests have be	en consolidated (	by communitizatio	a unitization	formed-monline	a or otherwise)
		liminating such interes				u,,		
		<u>_</u>						
	1			1				OR CERTIFICATION
11 ·	l l			1				certify that the informati
								n in true and complete to t edge and belief.
				-		1 1		. Newport
11	!						manuer /	
- -	<b>I</b>						0.1	
2	· •							4/ flight
56	1							, ,
╞┿╾╾╾╼╴				-—— †				<u>iger-Permian Bas</u>
[]	i						eition	
	1			ľ				<u>Petroleum Corp</u>
]]	1						mpany	
	1	i					1-11-91	
				ļ		Da	uc.	
	1			ļ				
	· •			ľ			SURVEY	OR CERTIFICATION
N				J.			Joint	
15	İ					1	hereby certify	, that the well location sho
	í			E E				as plotted from field notes
	1					F 1		made by me or under
	1	Į				1 I	•	d that the same is true of
								best of my knowledge a
						De	lief.	
							ate Surveyed	
						<b></b> }		10-15-91
	1			1		S	ignature & Sei	d of
1	İ	í		i		P	rofessional Su	veyor
1	2	4 N.	· · · ·	, i				AND I AM PP
)	· · ·			r t			∧ <sup>*</sup>	ALPEN LAND CHA
	ļ	1		l l			1) 8:	
· ·	1			!		l I I	YMAN	A KONASE
	1	1		ļ			criticate No.	OFIN 2W3 WEST, 261
				<u> </u>		/ /	7 6	ONALD L EIDSON 32
						== ⊬	n	
330 660	990 1320 1650	1980 2310 264	200	0 1500	1000 500	0	W.O. 91	£11-0117
	. ,						·e	CALD J ENDS

DIL CONSERVATION DIVISION RECEIVED



GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 HILL Strengthone (713) 589-8484 FAS 0713) 589-9399

Incorporated in Delaware, U.S.A.

November 11, 1991

E-8-17-3(

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 95 West Lovington 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 95 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 95 is located in the interior 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 91.261

Enclosures

Submit to Appropriate District Office State Lease - 6 copies Foe Lease - 5 copies		State of New Me Minerals and Natural Re	esources Department		Form C·101 Revised 1·1-89
DISTRICT I P.O. Box 1980, Hobbe, NM 8824	0	CONSERVATIC P.O. Box 208	38 ,	API NO. ( assigned by OC	ID on New Wells)
DISTRICT <sup>7</sup> II P.O. Drawer DD, Artesia, NM 88		anta Fe, New Mexico	87304-2088	5. Indicate Type of Leas S	TATE
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM	87410			6. State Oil & Gas Lease B 4/2 0	: No.
APPLICATION	FOR PERMIT T	O DRILL, DEEPEN, C	OR PLUG BACK		
a. Type of Work:			······································	7. Lease Name or Unit A	igroement Name
DRILL KX	RE-ENTER		PLUG BACK		
b. Type of Well:		SINGLE	MULTIPLE	West Leminster	- TT
	HER	ZONE		West Lovington	a unit
Name of Operator				8. Well No.	
GREENHILL	PETROLEUM	CORPORATION		95	
Address of Operator			· · · · · · · · · · · · · · · · · · ·	9. Pool name or Wildcat	······································
11490 Wes	theimer, Su	ite 200, Houston	n, TX. 77077	West Lovington	Upper San Andr
. Well LocationE . Unit LetterE :	2625 Feet Fr	om The North	Line and	240 Feet From The	West Lin
Section 8	Towns	hip 17 South Rar	nge 36 East	NMPM Lea	County
		10. Proposed Depth 5230		Formation n Andres	12. Rowry or C.T. Rotary
3. Elevations (Show whether DF, K 3890.8	T. GR. elc.)	4. Kind & Stanus Plug. Bond lanket on file	15. Drilling Contracto TBD		Date Work will start
	PR	OPOSED CASING AN	ID CEMENT PROG	RAM	n i natarén singan kablinasa ka Manganan Kablinasa kab
SIZE OF HOLE SIZ	E OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
	5/8	24#		250	Surface
7 7/8 5	1/2	15.5#	<u>5230'</u>	1300	Surface
		L	anto provincia de la Alemania.		
· · ·				· · · · ·	
				• •	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE 20NE AND PROPOSED NEW PRODUCTIVE 20NE. GIVE BLOWOUT PREVENTER PROGRAM, # ANY.

I hereby certify that the in SIONATURE	formation above is true and complete to the best of		Manager-Permian	Basin DATE	11-11-91	
TYPE OR PRINT HAME	Michael J. Newport				589-8484	·
(This space for State Use)			· · · · · · · · · · · · · · · · · · ·			

TITLE .

DATE

APPROVED BY ....

CONDITIONS OF APPROVAL, IF ANY:

<u>Casing</u>	Program	· · ·	BOP Program			
<u>Size</u>	Depth	<u>Wt.</u>	Grade	<u>Configuration</u>	<u>Test Program</u>	
8 5/8"	350'	24#	J55, STC	*RR or RA	250/1500 psi	

### \*RR-Ram Ram RA-Ram Annular

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

125830

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 State of New Mexico Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

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

erator				Lease			·····	Well No.	
GREEN	HILL PETR	ROLEUM CORP.		WEST	C LOVINGT	ON UNIT		95	
Letter	Section	Township		Range			County	L	
E	8	17 SO	UTH	- · ·	EAST		LEA	7	
al Footage Loca	tion of Well:	L	<u> </u>			NMPM	<u> </u>		
2625		NORTH		1240			. WEST		
nd level Elev.	feet from the	ucing Formation	line and	Pool		feet from t	116	line Dedicated Acre	196°
3890.8		•				0 1			<b></b>
		Andres cated to the subject well				San Andre	S	20	Acres
		i dedicated to the well, ou f different ownership is d							
	ion, force-pooling Yes		/er is "yes" type	of consolidat	ion uni	tized			
If answer	is "no" list the ov	vners and tract description	as which have a	ctually been o	onsolidated. (L	Jse reverse side of			
	if neccessary	<b>i</b>							
No allowa	ble will be assign	ned to the well until all in	crests have been	en consolidate	d (by communit	ization, unitization,	forced-pooling	g, or otherwise)	
or until a :	non-standard unit,	, eliminating such interes	t, has been appr	roved by the L	ivision.				
									0.000
	1				1			OR CERTIFI	
					1			certify that th	
					i			n in true and c edge and belief.	ompiete la
	6				1			• Newport	
		[			[		gnature	·	/
	52				1		hickor	Mund	
	لو ال				!	Pri	inted Name	1	
	<u>`</u> ]					L	and Mana	ger-Permi	an Ba
	<b>[</b>				F	1	sition	0	
	1				1			Petroleu	m Corr
	li				j		mpany	Tecrorea	
	li					- i i			
		í			1. 1		1-11-91		
						Da	lle		
					. ·				
1240	1	х. 					SURVEY	OR CERTIFI	CATIO
1240'	<u> </u>				1 1		SURVEI		CATIO
	i						haraba cartify	that the well	location .
	1							as plotted from	
	!							made by me	
					l	54	•	t that the sam	
	I			· .		0	wrect to the	best of my l	mowledge
		· · · · · ·		1		be	dief.		
	i				13	│┝╤	bate Surveyed		······
		Cold S. D. State and an or			<u>ii</u>			10 1/ 01	
ببينية ومسيرة ومسيرة وتبييه		A menter i anno i anno i anno i anno i anno i anno i anno i anno i anno i anno i anno i anno i anno i anno i a				<b>/</b> _		10-14-91	
	ļ	]			1		ignature & Sea rofessional Sur		
	I	1			l	· []		ALTITUTE	
		1			I .			"EN LAMO	Str.
	1	1			1		O NI	A	Sugar
	1						W ES	SXI 0	° De
	1	l l			9 8		() NELE	N/ Mon	Nnon
•	ļ	х					entificate: No.	NORN WY WE	ST,
	l				[	`	/ E R	GNALD J EIDS	
			· · · · · · · · · · · · · · · · · · ·						
330 660 9	990 1320 16	50 1980 2310 2640	2000	1500	1000	500 0	W.O. 9	P. 14-0148	94 m
								• <i>;;;(0</i> ], El	

GREENHILL PETROLEUM CORPORATION NSERVE ON DIMOSSION, TEXAS 77077-6841

TELEPHONE (713) 589-8484 RECEIVED FAX. (713) 589-9399

'91 NON 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

F-8-17-36

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 96 West Lovington 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 96 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 96 is located in the interior 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 91.261

Enclosures

		•	· ·		
Submit to Appropriate District Office +State Lease - 6 copies For Lease - 5 copies	Energy,	State of New M Minerals and Natural R			Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NI	M 88240	CONSERVATIO P.O. Box 20	88	API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Arlesia,		Santa Fe, New Mexico	87304-2088	5. Indicate Type of Lease ST	
DISTRICT III 1000 Rio Brazos Rd., Azi	ec, NM 87410			6. State Oil & Gas Lease B 4/2 0	
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, O	OR PLUG BACK		
Ia. Type of Work:				7. Lease Name or Unit A	greement Name
	L KX RE-ENTER	DEEPEN	PLUG BACK		-
OL CAS WELL XK WELL [	OTHER	SINOLE ZONE		West Lovington	n Unit
2. Name of Operator GREEN	IHILL PETROLEUM	CORPORATION		8. Well No. 96	· .
3. Address of Operator 11490	Westheimer, Su	ite 200, Houston	n, TX. 77077	9. Pool name or Wildcal West Lovington	Upper San Andre
4. Well Location Unit Letter	F : Foot F	rom The North	Line and 2540	Feet From The	West Line
Section	8 Town	tip 17 South Ra	nge,	NMPM	Lea County
		10. Proposed Depth 5230	-	ormation n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show wheth 3897.4		4. Kind & Sums Plug. Bood Blanket on file	15. Drilling Contractor TBD		Date Work will start
17.		OPOSED CASING AN		······	•
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	350'	250	Surface
7 7/8	5 1/2	15.5#	5230'	1300	Surface
· · · ·			· · · ·		<u></u>

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

SKONATURE Air	haef I things	Land Manager-Per	nian Basin DATE 11-11-91
TYPE OR FRINT NAME	Michael J. Newport	÷ '.	713 589-8484 TELEPHONE NO.

TTLE

· · · · · · · ·

DATE

ATTROVED BY \_\_\_\_

CONDITIONS OF APPROVAL, # ANY:

•••

<u>Casing</u>	Program		BOP Program		
<u>Size</u>	Depth	<u>Wt.</u>	<u>Grade</u>	<u>Configuration</u>	<u>Test Program</u>
8 5/8" 5 1/2"		24# 15.5#	J55, STC J55, STC	*RR or RA N/A	250/1500 psi

\*RR-Ram Ram RA-Ram Annular

يتترر

mit to Appropriate Durict Office State Lease - 4 copies Fee Lease - 3 copies

Operator

Unit Letter

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

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

F Actual Footage Location 2410

Ground level Elev.

3897.4

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

#### State of New Mexico Energy, Minerals and Natural Resources Department

Acres

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

				Distances must be	from the out	er boundaries	of the section			
					Lease				Well No.	
GREENHILL PETROLEUM CORP.					WEST LOVINGTON UNIT				96	
r	Sectio	Xa	Township		Range			cunty.		
F	Ì	8	17	SOUTH	36	EAST	NMPM	L	EA	
stage Loca	tion of	Well:								
10	feet fi	rom the	NORTH	line and	2540		feet from the	WES	T line	_
el Elev.		Produ	cing Formation		Pool				Dedicated /	Acreage:
7.4		San	Andres		Loving	ton Uppe	r San Andres		20	
1. Outline	the ac	reage dedica	sted to the subject	a well by colored per	cil or hachun	marks on the p	plat below.			
2. If more	than o	ne lease is o	ledicated to the v	well, outline each and	l identify the (	waership there	of (both as to working	interest and	royalty).	

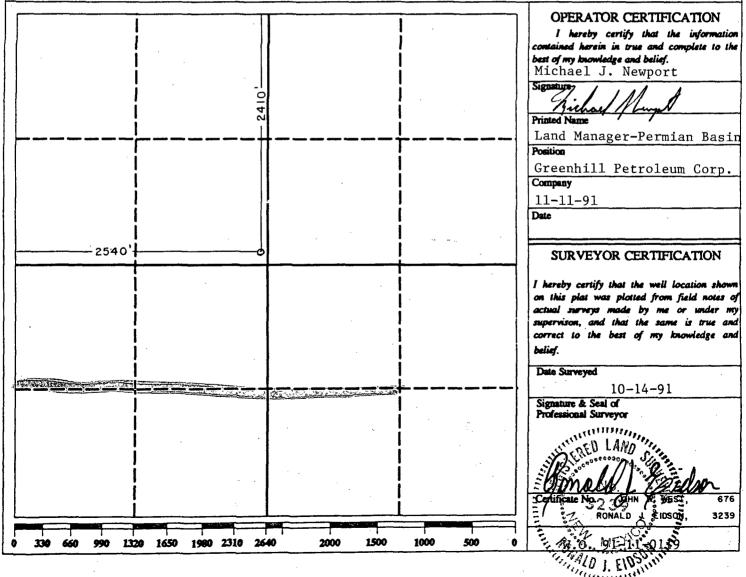
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

unitized kx. Yes No 'If answer is "yes" type of consolidation

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

this form if neccessary.

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





### GREENHILL PETROLEUM CORPORATION

RECEIVED

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

'91 NOW 18 AM 9 56

Incorporated in Delaware, U.S.A.

November 11, 1991

D-8-17-36

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 97 West Lovington Unit <u>Lea County, New Mexico</u>

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 97 in the West Lovington Unit, located in Lea County, New Mexico.

The West Lovington 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 97 is located in the interior 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 91.261

Enclosures

Submit to Appropriate District Office State Lease - 6 copies	Energy	State of New Me , Minerals and Natural Re			Form C-101 Revised 1-1-89
Foe Lease - S.copies <u>DISTRICT I</u> P.O. Bax 1980, Hobbs, NI	M 88240	CONSERVATIO P.O. Box 201	38	API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Arlesia,		Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease 51	
DISTRICT III 1000 Rio Brazos Rd., Azi	ec, NM 87410			6. State Oil & Gas Lease B4/20	No.
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, O	OR PLUG BACK	<i>\////////////////////////////////////</i>	
la. Type of Work:				7. Lease Name or Unit Ap	greement Name
DRIL b. Type of Weil:	L XX RE-ENTE	R DEEPEN	PLUG BACK		
OR WELL XK WELL	OTHER	SINGLE ZONE	XX ZONE	West Lovington	u Unit
Name of Operator GREEN	HILL PETROLEUM	CORPORATION		8. Well No. 97	
Address of Operator	·		-	9. Pool name or Wildcat	• • •
11490	) Westheimer, S	uite 200, Houstor	1, <u>TX. 77077</u>	West Lovington	Upper San And:
				· .	
I. Well Location Unit Letter	D 95 Feet	From The North	Line and 115	Feet From The	West Li
Unit Letter	D : Feel 8 Town	17 0 1		Feet From The	West Li County
Unit Letter	Fed	ship 17 South Ran			County
Unit Letter	Fed		18e 36 East 1	NMPM Lea	<u> </u>
Unit Letter	8 Town	ship 17 South Ran	18e 36 East 1	NMPM Lea Commutice n Andres	County 12. Rotary or C.T. Rotary Date Work will start
Unit Letter Section	8 Town	ship 17 South Ran 10. Proposed Depth 5230 14. Kind & Status Plug. Bond	Ige 36 East 1 11. F Sat 15. Drilling Contractor TBD	NMPM Lea formation n Andres 16 Appror 1 12-1-9	County 12. Rotary or C.T. Rotary Date Work will start
Unit Letter Section	8 Town	17 South Ram 10. Proposed Depth 5230 14. Kind & Status Plug. Bood Blanket on file	Ige 36 East 1 11. F Sat 15. Drilling Contractor TBD	NMPM Lea formation n Andres 16 Appror 1 12-1-9	County 12. Rotary or C.T. Rotary Date Work will start
Unit Letter Section 3. Elevations (Show wheth 3903.1 7. SIZE OF HOLE	E Town	17 South Ran 10. Proposed Depth 5230 14. Kind & Status Plug. Bood Blanket on file ROPOSED CASING AM	Ige 36 East 1 11. F Sau 15. Drilling Contractor TBD 10 CEMENT PROGE	NMPM Lea commatice n Andres 16. Approx. I 12-1-9 RAM	County 12. Rotary or C.T. Rotary Date Work will start 1
Unit Letter Section 3. Elevations (Show wheth 3903.1	8         Town           8         Town           #r DF, RT, GR, etc.)         PI           SIZE OF CASING         PI	17 South Ran 10. Proposed Depth 5230 14. Kind & Sanus Plug. Bood Blanket on file ROPOSED CASING AN WEIGHT PER FOOT	IS. Drilling Contractor TBD ID CEMENT PROGR SETTING DEPTH	NMPM Lea ormation n Andres 16 Approz I 12-1-9 RAM SACKS OF CEMENT	County 12. Rotary or C.T. Rotary Date Work will start 1 EST. TOP

11.24

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, # ANY.

I hereby certify that the information above is true, and complete to the best of my know	windge and belief.	
SKONATURE Richard Abund	Land Manager-Permian Basin DATE	11-11-91
		589-8484
TYPE OR PRINT HAME Michael J. Newport	TELETH	ONE NO.

TILLE

DATE

(This space for State Use)

APPROVED BY \_\_

CONDITIONS OF APPROVAL, IF ANY:

<u>Casing</u>	Program			BOP Program	
<u>Size</u>	Depth	<u>Wt.</u>	Grade	<u>Configuration</u>	<u>Test Program</u>
8 5/8" 5 1/2"		24# 15.5#	J55, STC J55, STC	*RR or RA N/A	250/1500 psi

\*RR-Ram Ram RA-Ram Annular

.

mit to Appropriate		Energy		e of New Ma nd Natural R	exico esources Department		Form C-102 Revised 1-1-89
e Lease - 4 copies Lease - 3 copies		ЛП	CONSE	RVÅTT	ON DIVISION		
IRICT I Box 1980, Hobb	<b>6, NM 88240</b>		- <b>-</b> - <b>-</b> - <b>-</b>	P.O. Box 20	88		
TRICT II Dawer DD, An			Santa Fe, N	ew Mexico	87504-2088		
TRICT III	HAR STAR	WELL A			GE DEDICATION P		
0 Rio Brazos Rd.,	Aztec, NM 87410	,			boundaries of the section		and a second second second second second second second second second second second second second second second Second second second second second second second second second second second second second second second second
Greenhil	1 Petroleum	Corn		Lease	lest Lovington	Unit	<b>Well No.</b> 97
t Letter	Section	Township		Range	est Lovington	County	97
D uai Footage Locat	8 ion of Well:	17 Sout	:h	36	<u>East</u>	Lea	· .
95	feet from the N	orth	line and	115	(cet 1	from the West	line
und level Elev. 3903.1		g Formation	······································	Pool	on Upper San A	ndros	Dedicated Acreage: 20 Acres
	<u>San An</u> the acreage dedicated	to the subject well	by colored penci	il or bachure ma	unks on the plat below.		20 Acres
unitizati KX	on, force-pooling, etc Yes	.? No If answ	ver is "yes" type	of consolidation	terest of all owners been on <u>unitized</u>	-	unitization,
	s "no" list the ownen f neccessary.				solidated. (Use reverse si	le of	
No allowat					by communitization, unitiz	ation, forced-pooling	, or otherwise)
			· · · · · · · · · · · · · · · · · · ·			OPERAT	OR CERTIFICATION
95' 115'						I hereby	certify that the information
			• •	l		best of my knowle	
						Michael J Signature	. Newport
• 1	ļ					Printed Name	el //hupt
	·			+		Land Mana	ger-Permian Basi
	i			Ì		Greenhill	Petroleum Corp.
	l l			1		Company	
	1			1		1	
	<b>)</b>   					<u>11-11-91</u> Date	
· ·						<u>11-11-91</u> Date	
	           				an organization of the state of	<u>11-11-91</u> Date	OR CERTIFICATION
					and a substantian of the substantian of the substantian of the substantian of the substantian of the substantia	11-11-91 Date SURVEY	that the well location show
					and a state of the	11-11-91 Date SURVEY I hereby certify on this plat we actual surveys	that the well location show s plotted from field notes a made by me or under m
					North State and State State State State State State	11-11-91 Date SURVEY I hereby certify on this plat we actual surveys supervison, and correct to the	that the well location show is plotted from field notes o made by me or under m that the same is true an
			· · · · ·		an an an an an an an an an an an an an a	11-11-91 Date SURVEY( I hereby certify on this plat we octual surveys supervison, and correct to the belief.	that the well location show is plotted from field notes o made by me or under m that the same is true an
					an or figure and an entry for the	11-11-91 Date SURVEY I hereby certify on this plat we actual surveys supervison, and correct to the belief. Date Surveyed	that the well location show is plotted from field notes o made by me or under m that the same is true an
					anter anter a substantia de la composition de la composition de la composition de la composition de la composit	11-11-91 Date SURVEY I hereby certify on this plat we actual surveys supervison, and correct to the belief. Date Surveyed	that the well location show is plotted from field notes a made by me or under m that the same is true an best of my knowledge an Der 24, 1991
						11-11-91 Date SURVEY I hereby certify on this plat way supervison, and correct to the belief. Date Surveyed Octo Signature & Sea	that the well location show is plotted from field notes a made by me or under m that the same is true an best of my knowledge an Der 24, 1991
					an ang ng ng ng ng ng ng ng ng ng ng ng ng n	11-11-91 Date SURVEY I hereby certify on this plat way supervison, and correct to the belief. Date Surveyed Octo Signature & Sea	that the well location show is plotted from field notes a made by me or under m that the same is true an best of my knowledge an Der 24, 1991
					an original and some states of the second second second second second second second second second second second	11-11-91 Date SURVEY I hereby certify on this plat way supervison, and correct to the belief. Date Surveyed Octo Signature & Sea	that the well location show is plotted from field notes a made by me or under m that the same is true an best of my knowledge an Der 24, 1991
			<u> </u>			11-11-91 Date SURVEY I hereby certify on this plat way supervison, and correct to the belief. Date Surveyed Octol Signature & Sea Professional Sur Manual Certificate Na	that the well location show is plotted from field notes of made by me or under m that the same is true an best of my knowledge an Oer 24, 1991 tof weyor
	90 1320 1650	1980 2310 264				11-11-91 Date SURVEY I hereby certify on this plat we octual surveys supervison, and correct to the belief. Date Surveyed Octol Signature & Sea Professional Sur Professional Sur	that the well location shown is platted from field notes of made by me or under m that the same is true and best of my knowledge and Der 24, 1991 of veyor

DIL CONSERV! . .UN P . # D STATE OF NEW MEXICO CONSERNERGY, WINERALS AND NATURAL RESOURCES DEPARTMENT RECE VED **OIL CONSERVATION DIVISION** 91 NOU 21 AM 9 51 HOBBS DISTRICT OFFICE 11-18-91 POST OFFICE BOX 1980 BRUCE KING HOBBS, NEW MEXICO 88241-1980 GOVERNOR (505) 393-6161 #93-F 8-17-36 #92. E 8-17-36 #91-2 8-17-36 OIL CONSERVATION DIVISION #90-\$ 7-17-36 P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 #89-G 7-17-36 RE: Proposed: #88-A 7-17-36 MC #87-P 6-17-36 DHC NSL #86-8 8-17-36 NSP SWD #85-N 5-17-36 WFX #94-E 8-17-36 #95-E 8-17-36 #96-F 8-17-36 РМХ Gentlemen: I have examined the application for the: West Lovenation Unit #97-D 8-17-36 Operator and my recommendations are as follows: Yours very trul exton upervisor, District 1 /ed