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# GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

November 6, 1990

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 86 Lovington Paddock Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 86 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Paddock Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 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.

Sincerely,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosure

Submit to Appropriate District Office Suite Lease - 6 copies For Lease - 5 copies DISTRICT 1 P.O. Box 1980, Hobbe, NM	OILO	State of New Me Minerals and Natural Re CONSERVATIO P.O. Box 208	sources Department	API NO. ( assigned by OCI	Form C-101 Revised 1-1-89 Dog New Wells)					
DISTRICT II P.O. Drawer DD, Artesia, N DISTRICT III	Si M 88210	anta Fe, New Mexico	S. Indicate Type of Lease STATE X FEE							
APPLICAT	1000 Rio Brazos Rd., Azec, NM 87410 B2894 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK									
	on as style with the style lovington Paddock light									
2 Name of Operator Greenhill Petr 3. Address of Operator				S. Well No.     S6     Pool same or Wildcat						
4. Well Location Unit Letter <u>G</u>		25, Houston, TX	77079 Lize and248	Lovington Pac 5 Feet From The _F						
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		10. Proposed Depth 6350 '		Formation ington Paddock	12. Rowy or C.T. Rotary					
13. Elevations (Show whether 3843.3 GR	DF, RT, GR, elc.) 1	4. Kind & Sums Plug. Bood Blanket	15. Drilling Contractor TBD	r 16. Approz. 1 12-15-	Date Work will start 90					
17.	PR	OPOSED CASING AN	ID CEMENT PROG	RAM						
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP					
12 1/4	8 5/8	24#	2050	800	Surface					
7.7/8	5 1/2	15.5#	6350	500	3000					

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

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(This space for State Use)			
APPROVED BY	·	mu	DATE

CONDITIONS	OF	APPROVAL.	F	ANY
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Submit to Appropri District Office State Lange - 4 cop Pos Lesse - 3 cop 

125630

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

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

Form C-102

Revised 1-1-89

## **OIL CONSERVATION DIVISION**

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

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

DISTRICT III 1000 Rio Bezzos Rd., Aztac, NM: 87410

### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Well No.
GREENHII	LL PETROLE	UM CORP.		LOV	INGTON	PADDOCK UN	IT	86
	ction	Township		Range			County	
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#### STATE OF NEW MEXICO OIL CONSER OIL CONSER OIL CONSERVATION DIVISION OIL CONSERVATION DIVISION HOBBS DISTRICT OF ACE 20 AM 9 05

11-15-90

GARREY CARRUTHERS

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501				
RE: Proposed: MC DHC NSL <u>X</u> NSP SWD WFX PMX		·		
Gentlemen:				
I have examined the application of the application of the second	Lease & Well No. Ur	Paddock Unit 7 nit S-T-R	4 18tz G	36-16-36
OX				
Yours very truly, Jerry Sexton Supervisor, District 1				



# GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

November 6, 1990

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

K-36-165-365

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 90 Lovington Paddock Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 90 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Paddock Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 90 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.

Sincerely,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosure

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125630

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

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, 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 All Distances must be from the outer boundaries of the section

Operator				Lanse				Well No.	· . · · · · · · · · · · · · · · · · · ·
GREEN	HILL PET	ROLEUM CORP.		LC	VINGTON PA	DDOCK	UNIT	90	
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3. If more	than one lease	of different ownership i	s dedicated to the	well, have the	interest of all owner	s been cons	olidated by or	mmmitization,	
unitizat	ion, force-pool						·		
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Submit to Appropriate District Office State Lease - 6 copies For Lease - 5 copies		State of New Me. Minerals and Natural Re	sources Departmen		۰. ۱	Form C-101 Revised 1-1-89	
<u>DISTRICT I</u> P.O. Box 1980, Hobbe, NM	88240	CONSERVATIO P.O. Box 208	8	API NO. ( at	nigned by OCD	on New Wells)	
DISTRICT <sup>II</sup> P.O. Drawer DD, Artesia, N		Santa Fe, New Mexico	87504-2088	5. Indicate	Type of Lease ST/		
DISTRICT III 1000 Rio Brazos Rd., Aziec	, NM 87410				& Gas Lease N 66–2 B776		
APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, O	R PLUG BACK				
In. Type of Work:				7. Lease No	ume or Unit Agr	vement Name	
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2. Name of Operator		······································	····	8. Well No.			
Greenhill	Petroleum			9(	)		
3. Address of Operator		· · · · ·		9. Pool san	e or Wildcal		
16010 Barkers	Point, Ste., 3	25, Houston, TX	77079	Lov	Lovington Paddock		
4. Well Location		· · · · · · · · · · · · · · · · · · ·			-		
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		6350				k Rotary	
13. Elevations (Show whethe	r DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contra		16. Approx. D	ale Work will start	
3836.4 GR		Blanket			12_19	5-90	
17.	PF	OPOSED CASING AN		GRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTI		F CEMENT	EST. TOP	
12 1/4	8 5/8	24#	2050	800		Surface	
7 7/8	5 1/2	15.5#	6350	500		3000	

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

I hereby certify that the information above is true and complete to the best of my ka	covindge and balief.	
SKONATURE Mike heuport	Landman	DATE 11-9-90
TYPE OR PRINT NAME Mike, Newport		ТЕLЕННОНЕ NO. 955-1146
(This space for State Use)		
	TTTL#	DATE
CONDITIONS OF APPROVAL, IF ANY:		

STATE OF NEW MEXICOONSER

ENERGY AND MINERALS DEPARTMENTS

OIL CONSERVATION DISTRICT OFFICE

11-15-90

GARREY CARRUTHERS GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO B8241-1980 (505) 393-6161

P. O. BOX SANTA FE,	2088 NEW MEXICO 87501
RE: Propo MC DHC	osed:
NSL	X
NSP	•
SWD	
WFX_	
PMX	

OIL CONSERVATION DIVISION

Gentlemen:

I have examined the application for the:

A###### Lease &/Well No. Operator Ucit 36-16-36

and my recommendations are as follows:

Yours very truly Jerry Sexton Supervisor, District 1



# GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

November 6, 1990

J- 36-165-366

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 91 Lovington Paddock Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 91 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Paddock Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 91 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.

Sincerely,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosure



# **GREENHILL PETROLEUM CORPORATION**

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

Incorporated in Delaware, U.S.A.

November 12, 1990

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

Attn: Mike Stogner

Re: Lovington Paddock Well Permit 91) Lea County, NM

Enclosed please find the letters dated 11-6-90 whereby we are requesting an unorthodox location for Well Nos. 86, 90, 91 and 93. Also enclosed are copies of the C-101 and C-102 we have sent to the Hobbs office. Please inform me in the event you need additional information.

Sincerely,

Michael J. Newport Landman

MJN:JB Enclosures

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125630

DISTRICT I P.O. Box 1980, Hobbs, NM \$8240

DISTRICT II P.O. Deaver DD, Astania, NM \$8210

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

#### Form C-102 Revised 1-1-89 -44

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## **OIL CONSERVATION DIVISION**

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

# DISTRICT III 1000 Rio Branes Rd., Aster, NM 87410

### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator					Lonso					Well No.	
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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		
<u>DISTRICT I</u> P.O. Box 1980, Hobbe, NN	M 88240	P.O. Box 208	8	API NO. ( assigned by OC	D on New Wells)		
DISTRICT II P.O. Drawer DD, Artesia, I	_	anta Fe, New Mexico	87504-2088	5. Indicate Type of Lease ST	ATE X FEE		
DISTRICT III 1000 Rio Brazos Rd., Azie	x, NM 87410			6. State Oil & Gas Lease	No. B 7845		
APPLICAT	TION FOR PERMIT T	O DRILL, DEEPEN, C	R PLUG BACK				
In Type of Work:	······································			7. Lease Name or Unit A	prement Name		
DRILL b. Type of Well: OIL OAS WELL X WELL	L X RE-ENTER			Lovington Paddo	ock Unit		
2. Name of Operator				<b>A</b>			
	]] Petroleum			8. Well No. 91			
3. Address of Operator				9. Pool same or Wildcat			
	oint, Ste., 325	, Houston, TX 7	7079	Lovington Paddock			
4. Well Location Unit Letter J	: <u>2390</u> Feet Fr	om The South	Lipe and	Feet From The	East Live		
Section 36	Towns	vip 16 South Ram	ge 36 East N	impin Lea	County		
<i>\}}}}}</i>		10. Proposed Depth		//////////////////////////////////////	12. Rotary or C.T.		
\//////////////////////////////////////		6350		ington Paddock	Rotary		
13. Elevations (Show wheth		4. Kind & Status Plug. Bond	15. Drilling Contractor		Dete Work will start		
3834		Blanket	TBD	12-15			
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#	2050	800	Surface		
_7_7/8	5 1/2	15.5#	6350	500			
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 PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

SIGNATURE	istormation above is true and complete to the b	et of my baowledge and betief.	DATE 11-9-90
TYPE OR FRINT NAME			955-1146 номе но
(This space for State Use	a)		
APTROVED BY			

CONDITIONS OF APPROVAL, IF ANY:



# **GREENHILL PETROLEUM CORPORATION**

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

Incorporated in Delaware, U.S.A.

November 6, 1990

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 91 Lovington Paddock Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 91 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Paddock Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 91 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.

Sincerely,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosure ه القن مسير

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## STATE OF NEW MEXICO OIL CONSERVING ON DIVISION ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION NOU 20 RM 9 05 HOBBS DISTRICT OFFICE

11-15-90

GARREY CARRUTHERS

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

36

	OIL CONSERVATION DIVISION P. O. BOX 2088		
	SANTA FE, NEW MEXICO 87501		
	RE:       Proposed:         MC       DHC         NSL       X         NSP       SWD         SWD       WFX         PMX		
	Gentlemen:		
	I have examined the application for the:		
	Spendill Petroleum Corp. J	oundai	fadd
	Operator Lease & Well	No. UNIt	S=T=R
	and my recommendations are as follows:		
	OK		
		<u> </u>	
	Voi 2 voin truli 2		
/	Youns very truly, Jerry Sexton		

/ed

Supervisor, District 1

V



# **GREENHILL PETROLEUM CORPORATION**

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

Incorporated in Delaware, U.S.A.

Received 12/4/90 6-31-165-37E

November 28, 1990

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 92 Lovington Paddocky Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 92 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Unit is presently developed and being water-flooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 92 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 of the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosures Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

 $\otimes \mathbb{N}^{n}$ 

125630

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

DISTRICT II P.O. Drawer DD; Artenia, NM 88210

OIL	CON	SER	VAT	ION	DIVI	SION

State of New Mexico

Energy, Minerals and Natural Resources Department

. .: \*

P.O. Box 2088

Santa Fe, New Mexico. 87504-2088

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P22 P22 P23 P23 P23 P23 P23 P23	Well No.
Soction       Township       Range       County         11       16       SOUTH       37       EAST       NMPM         12       feet from the       WEST       line and       2352       feet from the       SOU         3829.3       // Jouing fon       Paddack       // Louing fon       Paddack       Louing fon       Paddack       SOU         1. Outline the accessed edicated to the uniper well by calored panell or becture marks on the pist below.       2. If more than one lease is dedicated to the well well by calored panell or becture marks on the pist below.       2. If more than one lease of different ownership is dedicated to the well, have the interest of all ownership does consolidated by countrization, force-pooling, etc.?         If answer is "no" list the owners and tract descriptions which have schally been consolidated (by communitization, unitization, force-pool or until a non-standard unit, eliminating such interest, has been approved by the Division.       OPER/ I have a standard unit, eliminating such interest, has been approved by the Division.         17"	92
L     31     16 SOUTH     37 EAST     NMPM       Inail Fordage Location of Well:     17     feet from the     WEST     line and     2352     feet from the     SOU       and level Eav.     Producing Formation     Pool     Louing for     Paddack     Louing for     Paddack       1. Outline the screege dedicated to the subject well by calcred pencil or bechaff marks on the pist below.     1. Outline the screege dedicated to the subject well by calcred pencil or bechaff marks on the pist below.     2. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by countritization, force-pooling, etc.?     N     If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by countritization, force-pooling, etc.?     N     If more than one lease of different ownership is dedicated to the well, have actually been consolidated. (Use reverse side of this form if accessary.       No allowable will be assigned to the well until all interests have been consolidated (by communitization, untilization, forced-pool or until a non-standard unit, eliminating such interest, has been approved by the Division.     Signature       Image: past of the past	92
nual Pootage Location of Well: 17 feet from the WEST ine and 2352 feet from the SOU 3829.3 / Louing formation Paddock / Louing form Paddock 1. Outline the screege dedicated to the achiect well by colored pencil or bachaff marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership beered (both as to working interest a 3. If more than one lease is dedicated to the well, outline each and identify the ownership beered (both as to working interest a 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by co- unitization, force-pooling, etc.? Most low more and tract descriptions which have actually been consolidated. (Use reverse side of this form if accessary. No all answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if accessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pool or until a non-standard unit, etiminating such interest, has been approved by the Division.	LEA
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sund level Elev.       Producing Pormation       Pool       Louing for Paddock       Louing for Paddock         1. Outline the screege dedicated to the subject well by colored pencil or hackshift marks on the plat below.       2. If more than one lesse is dedicated to the subject well by colored pencil or hackshift marks on the plat below.         2. If more than one lesse is dedicated to the subject well by colored pencil or hackshift marks on the plat below.       3. If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest a subject well by colored pencil or hackshift marks on the plat below.         2. If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest a subject well by colored pencil or hackshift marks on the plat below.         3. If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest a subject well, outline each and identify the ownership thereof (both as to working interest a subject well, outline discover a subject well, outline each and identify the ownership thereof (both as to working interest a subject well, outline discover a subject well, outline each and identify the ownership thereof (both as to working interest a subject well, outline discover a subject well, outline each and identify the ownership the descriptions which have actually been consolidated. (Use reverse side of this form if accessary.         No allowable will be assigned to the well until all interests have been consolidated (by communitization, untilization, force-poc or until a non-standard unit, eliminating such interest, has been approved by the Division.       OPER/	111
3829.3       Louing ton Paddock       Louing ton Paddock         1. Outline the screage dedicated to the subject well by colored pencil or hechulf mastes ce the plat below.         2. If more than one lease is dedicated to the subject well by colored pencil or hechulf mastes ce the plat below.         3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by counting interest a maxwer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.         No allowable will be assigned to the well until all interests have been consolidated (by communitization, forced-poor or until a non-standard unit, eliminating such interest, has been approved by the Division.         P22       9P23         9P33       9P23         9P33       0	Dedicated Acreage:
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7' T T T T T T T T T T T T T T T T T T T	y certify that the informa ein in true and complete to wledge and belief. and further the second and further the s
/ Acrety) con on interplat actual the supervision, correct in belief.	Landman 11 Petroleum 8295 <b>ESS</b> /01/2
	YOR CERTIFICATION by that the well lication the was plated from field potent or made by me of today the that the same is the licat the same is the licat the same is the
Signature & Professional	11-15-90

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Submit to Appropriate District Office State Lease - 6 copies	Energy,	State of New Minerals and Natural R			Form C-101 Revised 1-1-89
For Lesse - S. copies. DISTRICT 1 P.O. Box 1980, Hobbs, NN	-	CONSERVATIC P.O. Box 200		API NO. ( assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, I	S	5. Indicate Type of Lease S			
DISTRICT III 1000 Rio Brazos Rd., Azte	c, NM 87410			6. State Oil & Gas Lease	№. B7896
APPLICAT	TION FOR PERMIT 1	O DRILL, DEEPEN, C	OR PLUG BACK		
la. Type of Work:				7. Lease Name or Unit A	greement Name
b. Type of Well: OIL GAS WELL M WELL 2. Name of Operator	L X RE-ENTER	DEEPEN SINGLE		Lovingto	n Paddock Unit
Greenhill	Petroleum			92	
3. Address of Operator		e., 325, Houston	, TX 77079		ddock
3. Address of Operator	kers Point, Ste	e., 325, Houston om The West	, TX 77079	92 9. Pool name or Wildcat	ddock South Lin
3. Address of Operator 16010 Bar 4. Well Location	kers Point, Ste	om The West	Line and 2352	92 9. Pool name or Wildcat Lovington Pa	South
<ol> <li>Address of Operator 16010 Bar</li> <li>Well Location Unit Letter L</li> </ol>	kers Point, Ste	om The West	Line and 2352 nge 37 East	92 9. Pool name or Wildcat Lovington Pa Feet From The	South Line County
3. Address of Operator 16010 Bar 4. Well Location Unit Letter L	kers Point, Ste	om The West hip 16 South Ran	Line and 2352 nge 37 East	92 9. Pool name or Wildcat Lovington Pa Feet From The NMPM Lea Formation Dvington Paddock	South Line County 12. Rotary or C.T. Rotary Date Work will gan
<ol> <li>Address of Operator 16010 Bar</li> <li>Well Location Unit Letter L Section 31</li> <li>Elevations (Show whethe 3829.3 GR</li> </ol>	kers Point, Ste : <u>17</u> Feet Fr Towns Towns <i>T</i> DF. RT, GR, etc.) 1	om The West hip 16 South Ran 10. Proposed Depth 6350 4. Kind & Status Plug. Bood Blanket	Line and 2352 1ge 37 East 11. F 15. Drilling Contractor TBD	92 9. Pool name or Wildcat Lovington Pa Feet From The NMPM Lea Formation by ington Paddock 16. Appror. 1 12-15	South Line County 12. Rotary or C.T. Rotary Date Work will gan
<ol> <li>Address of Operator 16010 Bar</li> <li>Well Location Unit Letter L Section 31</li> <li>Elevations (Show whethe 3829.3 GR</li> </ol>	kers Point, Ste : <u>17</u> Feet Fr Towns Towns <i>T</i> DF. RT, GR, etc.) 1	om The West hip 16 South Ran 10. Proposed Depth 6350 4. Kind & Status Plug. Bood Blanket OPOSED CASING AN WEIGHT PER FOOT	Line and 2352 Ige 37 East 11. F 15. Drilling Contractor TBD ID CEMENT PROGR SETTING DEPTH	92 9. Pool name or Wildcat Lovington Pa Feet From The NMPM Lea Formation Dvington Paddock 16. Approz. 1 12-15 RAM SACKS OF CEMENT	South Line County 12. Rotary or C.T. Rotary Date Work will gan
<ol> <li>Address of Operator 16010 Bar</li> <li>Well Location Unit Letter L Section 31</li> <li>Bevalions (Show whether 3829.3 GR 17.</li> </ol>	kers Point, Ste : <u>17</u> Fee Fr Towns <i>T</i> owns <i>T</i> DF. RT, GR, etc.) 1	om The West hip 16 South Ran 10. Proposed Depth 6350 4. Kind & Status Plug. Bood Blanket OPOSED CASING AM	Line and 2352 Ige 37 East 11. F 15. Drilling Contractor TBD ID CEMENT PROGR	92 9. Pool name or Wildcat Lovington Pa Feet From The NMPM Lea Formation Dvington Paddock 16. Approz. 1 12-15 RAM	South Line County 12. Rotary or C.T. Rotary Date Work will start -90

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

I hereby certify that the information above is true and complete to the be	st of my knowledge and belief.	
SIGNATURE Michael Memoort	Landman	PATE
		955-1146
Michael J. Newport	·	TELEPHONE NO.

TITLE .

DATE -

(This space for State Use)

APTROVED BY \_\_

: . .

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CONDITIONS OF APPROVAL, IF ANY:

### GREENHILL PETROLEUM CORPORATION BOP PROGRAM FOR LOVINGTON PADDOCK WELL # 92

#### Casing Program

### BOP Program

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

\* RR - Ram Ram

RA - Ram Annular

Diverter - Hydrill may be substituted for a diverter

STATE OF NEW MEXICON DIVISION ENERGY AND MINERAL'S DEPARTMENT OIL CONSERVATION DIVISION 03 HOBBS DISTRICT OFFICE

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

GARREY CARRUTHERS

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

RE: Proposed:

MU			
DHC		<u> </u>	
NSL	X		
NSP		· · · · · · · · · · · · · · · · · · ·	
SWD			
WFX	·		
PMX			

Gentlemen:

I have examined the application for the:

<u>Yada</u> No. #92-L 31-16-37 lln ack unit Well Operator Lease

and my recommendations are as follows:

Yours very truly Userry Sexton

/Jerry Sexton Supervisor, District 1



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

Incorporated in Delaware, U.S.A.

November 6, 1990

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 03 Lovington Paddock Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 93 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Paddock Unit is presently developed and being waterflooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 93 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.

Sincerely,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosure

N.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENTION 20 AM 9 05 OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

11-15-90

1 1

GARREY CARRUTHERS

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

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

S. M. S. Mary

RE: Proposed: MC DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

Unit #13=K 31 Elen Jall Operator Lease-&-Well -Mo-Unit

and my recommendations are as follows:

Yours very truly,



OH. CONSER. ON STANDON NEW MEXICO ENERGY AND MINERALS DEPARTMENT '90 DEC 14 ON CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GARREY CARRUTHERS

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

OIL CO	DNSEF	RVAT	[ON DIV]	[SION
P. O.	BOX	2088	3	
SANTA	FE,	NEW	MEXICO	87501

RE: Proposed: MC DHC\_\_\_\_\_\_ NSL\_\_\_\_\_ NSP\_\_\_\_\_ SWD WFX\_\_\_\_\_ PMX

Gentlemen:

I have examined the application for the:

lattack 11 + 493 - K 31-16-37 100~ Lease & Well1 Operator No. Unit

and my recommendations are as follows:

ded - Changed locat Imen

Yours very truly Jerry Sexton

Supervisor, District 1



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

Incorporated in Delaware, U.S.A.

<u>Accessed 13/4/90</u> P-36-165-36E

November 28, 1990

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. 94) (Lovington Paddock) Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 94 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Unit is presently developed and being water-flooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 94 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 of the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosures

<u>*</u>					
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		CONSERVATIO P.O. Box 208		API NO. ( assigned by OC	D on New'Wells)
P.O. Box 1980, Hobbs, M DISTRICT II P.O. Drawer DD, Artesia	' t	Santa Fe, New Mexico		5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Az	nec, NM 87410	·		6. State Oil & Gas Lease	
APPLIC	ATION FOR PERMIT	TO DRILL, DEEPEN, C	R PLUG BACK	{//////////////////////////////////////	
1a. Type of Work:	······································			7. Lease Name or Unit A	greement Name
DRI b. Type of Well: OL GAS WELL WELL	LL (X) RE-ENTER	SINGLE	PLUG BACK	Lovington Paddo	ock Unit
Name of Operator Greenhill	Petroleum		······································	8. Well No. 94	
3. Address of Operator 16010 Bar	kers Point, Ste	., 325, Houston,	TX 77079	9. Pool name or Wildcat Lovington Paddo	ock
4. Well Location Unit Letter P	: <u>1190</u> Feet F	From The East	Line and 1130	Feet From The	South Lin
Section	36 Town	ship 16 South Ran	36 East	MPM Lea	County
Section	36 Town	10. Proposed Depth	11. F	MMPM Lea ormation ington Paddock	County 12 Rotary or C.T. Rotary
			11. F	ormation ington Paddock	12 Rotary or C.T. Rotary Date Work will sant
13. Elevations (Show what 3822.8	ther DF, RT, GR, etc.)	10. Proposed Depth 6350 14. Kind & Status Plug, Bond	11. F Lov 15. Drilling Contractor TBD	ington Paddock 16. Approz. 1 12/1	12 Rotary or C.T. Rotary Date Work will sant
13. Elevations (Show when 3822.8'	ther DF, RT, GR, etc.)	10. Proposed Depth 6350 14. Kind & Status Plug, Bond Blanket ROPOSED CASING AN	11. F Lov 15. Drilling Contractor TBD D CEMENT PROGR	ormation ington Paddock 16. Approz. I 12/1	12 Rotary or C.T. Rotary Date Work will sant
13. Elevations (Show what	ther DF, RT, GR, etc.)	10. Proposed Depth 6350 14. Kind & Status Plug, Bond Blanket	11. F Lov 15. Drilling Contractor TBD	ington Paddock 16. Approz. 1 12/1	12 Rotary or C.T. Rotary Date Work will start 5/90

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

I hereby certify that the inform SKINATURE	nation above is true and complete to the best of my kno	mindge and baller. TTLE Landman	DATE 11-28-90
TYPE OR FRINT NAME	Michael J. Newport		TELETHONE NO. 955-1146

\_ 11112 \_

DATE -

(This space for State Use)

APPROVED BY .....

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с**т.** 

CONDITIONS OF APPROVAL, & ANY:

Submit to Appropriate
Submit to Appropriate District Office
State Lease - 4 copies
Fab I fait 2 contact
Fee Lease - 3 copies

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

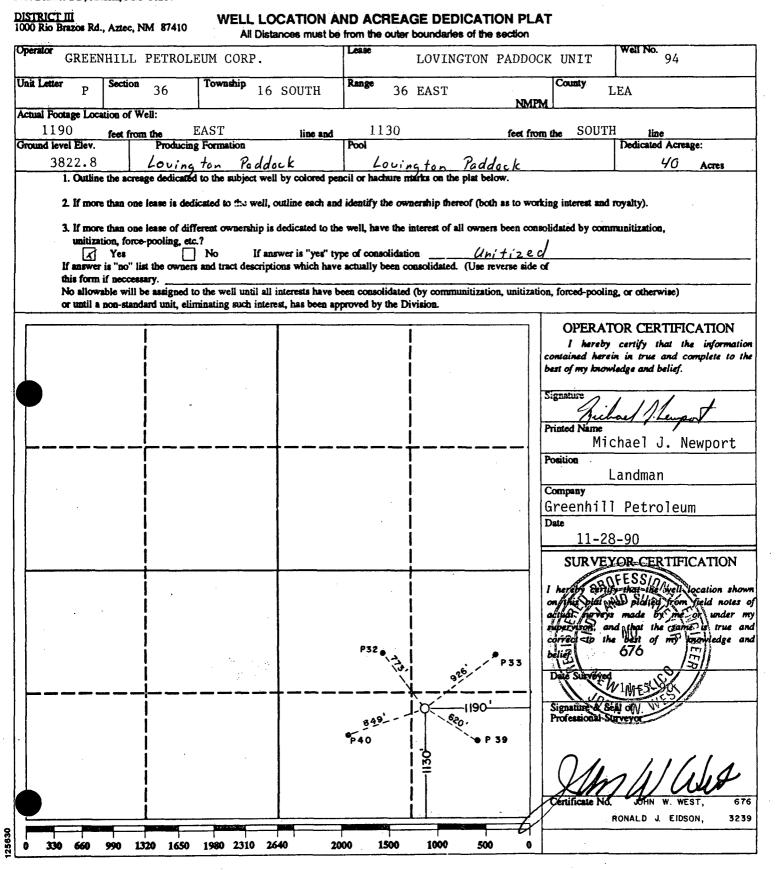
AICT II P.O. Drawer DD, Artesia, NM 88210

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

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088



### GREENHILL PETROLEUM CORPORATION BOP PROGRAM FOR LOVINGTON PADDOCK WELL # 94

Casing Program				BOP	Program
Size	Depth	Wt	Grade	Configuration	Test Pressure
8 5/8″ 5 1/2″	2050' 6350'	24 15.5	H4O, STC K55, STC	RA RR	200 psi 250/1500 psi

\* RR - Ram Ram

RA - Ram Annular

Diverter - Hydrill may be substituted for a diverter



OIL CONSERVICE ON DIVISION STATE OF NEW MEXICO REVERTED ENERGY AND MINERALS, DEPARTMENT OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

12-17-90

GARREY CARRUTHERS

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

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

RE: Proposed: MC\_\_\_\_\_ DHC\_\_\_\_\_ NSL\_\_\_\_\_ NSP

SWD	
WFX	······
PMX	
-	the second s

Gentlemen:

I have examined the application for the:

Lease & Well No. Unit S-T-R hill, et Cap Operator

and my recommendations are as follows:

Yours very truly Jerry Sexton Supervisor, District 1

.



# GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

November 28, 1990

Received 12/4/90 N-31-165-E34

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

Attn: Mike Stogner

Unorthodox Location and Drilling Permit Re: Proposed Well No. 967 Lovington Paddock? Lea County, New Mexico ÷.,

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 96 in the Lovington Paddock Unit, located in Lea County, New Mexico.

The Lovington Paddock Unit is presently developed and being water-flooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 96 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 of the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosures

`			,		-
<sup>1</sup> Submit to Appropriate District Office State Lease – 6 copies	Energy,	State of New Me Minerals and Natural Re			Forma C-101 Revised 1-1-89
Foe Lease - 5 copies <u>DISTRICT I</u> P.O. Box 1980, Hobbs, N	¥ 88240	CONSERVATIC P.O. Box 208	8	API NO. ( assigned by OC	D og New Wells)
DISTRICT II P.O. Drawer DD, Artesia,		Santa Fe, New Mexico	87304-2086	5. Indicate Type of Lease ST	
DISTRICT III 1000 Rio Brazos Rd., Azie	sc, NM 87410			6. State Oil & Gas Lease	№. B1505
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, C	R PLUG BACK		
1a. Type of Work:				7. Lease Name or Unit A	greement Name
DRIL b. Type of Well: OIL OAS WELL XX WELL	L RE-ENTER	SING P	PLUG BACK	Lovington Pade	dock Unit
2. Name of Operator Greenh	ill Petroleum	<u></u>		8. Well No. 96	
3. Address of Operator 16010	Barkers Point,	Ste., 325, Hous	ton, TX 77079	9. Pool name or Wildcau Lovington Pi	addock
4. Well Location Unit Letter <u>N</u>	: <u>1492</u> Feet F	rom The West	Line and 1070	Feet From The	South Line
Section 31	Towns	<sub>tip</sub> 16 South <sub>Ran</sub>	ge 37 East	MPM Lea	County
		10. Proposed Depth	////////////////////////////////////	ormation	12. Rotary or C.T.
				ovington Paddoc	
13. Elevations (Show wheth 3814, 7		4. Kind & Status Plug. Bond Blanket	15. Drilling Contractor TBD	16. Approx. I 12/20	Date Work will start /90
17.		OPOSED CASING AN	D CEMENT PROGR	AM	<u> </u>
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	2050	800	Surface
7 7/8	5 1/2	15.5#	6350	300	3000
L		L	 	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, GIVE BLOWOUT PREVENTER PROGRAM, # ANY.

I haraby cartify that the information above is true and complete to the best of my ki	powindge and belief.	
I hardy certify that the information above is true and complete to the best of my in SKONATURE	Landman	DATE 11-28-90
TTEOR MENTAL Michael .] Newnort		TELEPHONE NO. 955~1146

TITLE

DATE

(This space for State Use)

APPROVED BY \_\_\_\_\_

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CONDITIONS OF APPROVAL, IF ANY:

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

DISTRIC	TI –			
P.O. Bax	1980,	Hobbs,	NM	8824(

P.O.Box	1980,	Hobbs,	NM	88240

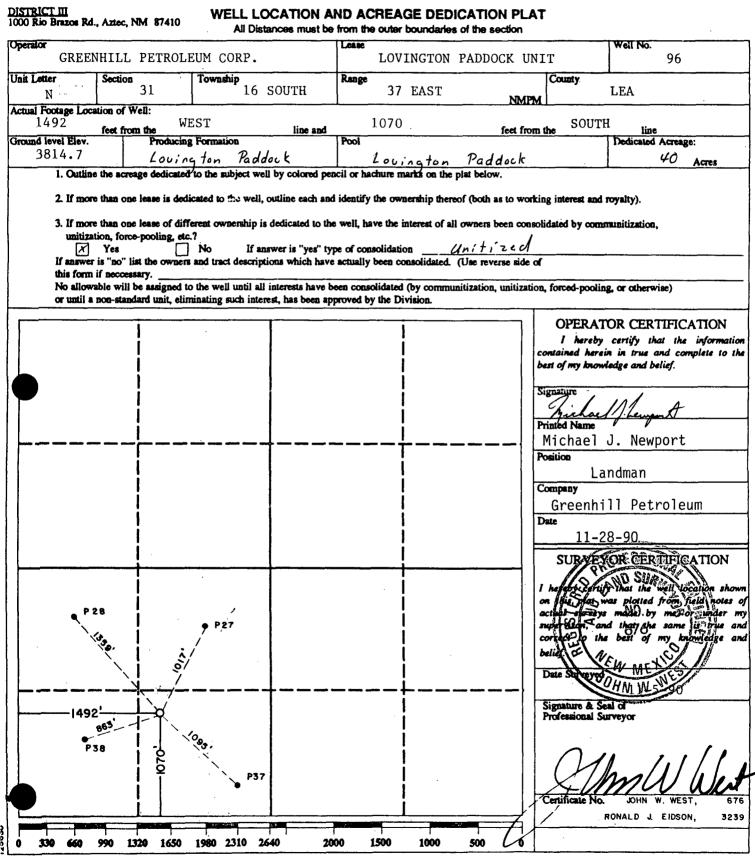
ICT I P.O. Drawer DD. Artesia, NM 88210

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

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088



### GREENHILL PETROLEUM CORPORATION BOP PROGRAM FOR LOVINGTON PADDOCK WELL # 96

### Casing Program

### BOP Program

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

\* RR - Ram Ram

RA - Ram Annular

Diverter - Hydrill may be substituted for a diverter

## STATE OF NEW MEXICONSERSE ON DIVISION ENERGY AND MINERALS DEPARTMENT AM 11 03 OIL CONSERVATION DIVIS

17, -4-90

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

GARREY CARRUTHERS GOVERNOR

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

Proposed: RE: MC DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

<u>Alack Unit # 96 - N 31-16-37</u> t S-T-R Operator Lease & No.

and my recommendations are as follows:

Yoursvery truly,

Jerry Sexton Supervisor, District 1



# GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

November 28, 1990

Received 12/4/90 P-36-165-36E

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. (977 (Lovington-Paddock Lea County, New Mexico

Greenhill Petroleum Corporation respectfully requests the State of New Mexico Oil Conservation Division grant approval of the proposed unorthodox location and the attached permit to drill Well Number 97 in the Lovington Paddock Unit. located in Lea County, New Mexico.

The Lovington Paddock Unit is presently developed and being water-flooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 97 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 of the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN: JB Enclosures

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Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies	Energy,		Form C-101 Revised 1-1-89		
DISTRICT I P.O. Box 1980, Hobbs, N		API NO. ( assigned by OC	D on New Wells)		
DISTRICT II P.O. Drawer DD, Artesia,		Santa Fe, New Mexico	87504-2088	5. Indicate Type of Leas S	
<u>DISTRICT III</u> 1000 Rio Brazos Rd., Azt	ec, NM 87410			6. State Oil & Gas Lease	в No. В7845
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN, O	OR PLUG BACK		
1a. Type of Work:	<u></u>			7. Lease Name or Unit A	greenent Name
b. Type of Weil:	L X RE-ENTER	DEEPEN	PLUG BACK	Lovington	Paddock Unit
WELL XX WELL [	OTHER	SINGLE ZONE			
2. Name of Operator Greenhi	11 Petroleum	<u> </u>		8. Well No. 97	
3. Address of Operator 16010 Barkers	Point, Ste., 3	25, Houston, TX	77079	9. Pool name or Wildcar Lovington Paddo	ock -
4. Well Location Unit Letter P	: <u>1228</u> F <del>oc</del> t F	rom The East	Line and 132	Feet From The	South Line
Section 3	6 Towns	tip 16 South <sub>Ra</sub>	nge 36 East y	Lea	County
		10. Proposed Depth 6350		formation vington Paddock	12 Rotary or C.T. Rotary
13. Elevations (Show wheth 3822 GR	ur DF, RT, GR, etc.) 1	4. Kind & Status Plug. Bond Blanket	15. Drilling Contractor TBD	16 Approz. 12-1	Date Work will start 5-90
17.	PR	OPOSED CASING AN	D CEMENT PROGR	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	2050	800	Surface
7 7/8	5 1/2	15.5	6350	500	3000
L	L			<u> </u>	L

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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 NOWOUT PREVENTER PROGRAM, # ANY.

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I hereby certify that the information above is true and complete to the best of my known SIGNATURE	nige and belief.	Landman	DATE
TYPE OR FRENT NAME Michael J. Newport			TELETHONE NO. 955-1146
(This space for State Use)			
APTROVED BY	mu		DATE
CONDITIONS OF APPROVAL, IF ANY:			

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	Survey and the	
Submit to	Appropriate	
District O	Appropriate ffice	
State Lea	e - 4 copies - 3 copies	
'ee' Lease	a - 3 copies	

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

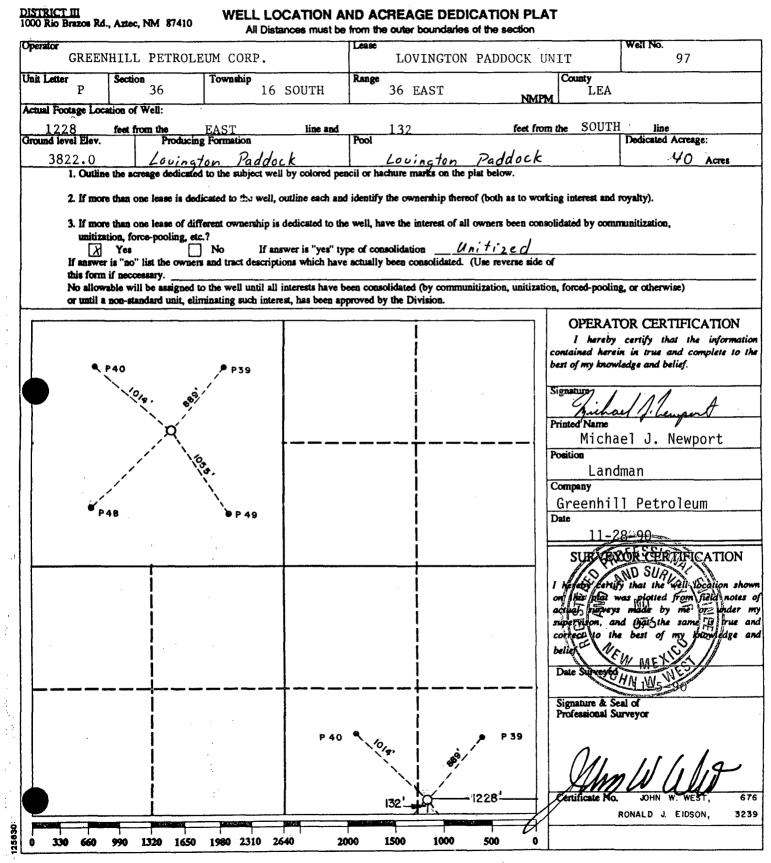
<u>ICT II</u> P.O. Drawer DD, Artesia, NM 88210 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088



### GREENHILL PETROLEUM CORPORATION BOP PROGRAM FOR LOVINGTON PADDOCK WELL # 97

### Casing Program

#### BOP Program

Size	Depth	Wt	Grade ·	Configuration	Test Pressure
8 5/8″	2050'	24	H4O, STC	RA	200 psi
5 1/2″	6350'	15.5	K55, STC	RR	250/1500 psi

\* RR - Ram Ram

RA - Ram Annular

Diverter - Hydrill may be substituted for a diverter

STATE OF NEW MEXICO OIL CORSERVE ON DIVISION ENERGY AND MINERALS DEPARTMENTED

> OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'90 DEC 27

7 AM 11 03

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980

(505) 393-6161

12-4-90

GARREY CARRUTHERS

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

RE: Proposed: MC DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

addock Unit 7-1-36-16-36 #9 NO Operator Unit Lease & Weld No.

and my recommendations are as follows:

OL

Yours very truly

Jerry Sexton Supervisor, District 1

# **GREENHILL PETROLEUM CORPORATION**

Incorporated in Delaware, U.S.A.

November 28, 1990

و السان وتعور

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

Attn: Mike Stogner

Re: Unorthodox Location and Drilling Permit Proposed Well No. [98] (Lovington Paddock) Lea County, New Mexico

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

Received 12/4/90

quien to commence

12/17/90

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

The Lovington Paddock Unit is presently developed and being water-flooded utilizing a 40-acre well density. It is believed that infill development using a 20-acre well density will improve waterflood sweep efficiency and will increase secondary oil recovery. The proposed location for Well No. 98 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 of the proposed well as soon as possible and would appreciate a response to this request at your earliest convenience.

Respectfully yours,

GREENHILL PETROLEUM CORPORATION

Michael J. Newport Landman

MJN:JB Enclosures

AA-30-165-37E

### GREENHILL PETROLEUM CORPORATION BOP PROGRAM FOR LOVINGTON PADDOCK WELL # 98

### Casing Program

#### BOP Program

Size	Depth	Wt	Grade	Configuration	Test Pressure
8 5/8″	2050 <b>′</b>	24	H40, STC	RA	200 psi
5 1/2″	6350 <b>′</b>	15.5	K55, STC	RR	250/1500 psi

\* RR - Ram Ram

RA - Ram Annular

Diverter - Hydrill may be substituted for a diverter

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Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies	net Office Energy, Minerals and Natural Resources Department Lease - 6 copies				Form C-101 Revised 1-1-89		
<u>DISTRICT I</u> P.O. Box 1980, Hodde, N DISTRICT II	S	API NO. (assigned by OCD on New Wells) 5. Indicate Type of Lease					
P.O. Drawer DD, Artesia, <u>DISTRICT III</u> 1000 Rio Brazos Rd., Azz				6. State Oil & Gas Lease	гате X. Fee		
APPLICA	TION FOR PERMIT 1	O DRILL, DEEPEN, C	OR PLUG BACK				
1a. Type of Work:				7. Lease Name or Unit A	greement Name		
DRIL b. Type of Well: OIL OAS WELL X WELL [	L 🕅 RE-ENTER	DEEPEN SINCLE	PLUG BACK	Lovington Pade	dock Unit		
2. Name of Operator	Greenhill Pe	troleum		8. Well No. 98			
3. Address of Operator 16010 Barke	ers Point, Ste.,	325, Houston,	TX 77079	9. Pool name or Wildcat Lovington Pa	addock		
4. Well Location Unit Letter M	: 268 Feet Fr	om The South	Line and 35	Feet From The	West Line		
Section 31	Towns	hip 16 South Rar	37 East	NMPM Lea	County		
		10. Proposed Depth 6350		Formation /ington Paddock	12. Rotary or C.T. Rotary		
		Kind & Status Plug. Bond 15. Drilling Contractor Blanket TBD		16. Approx. Date Work will start 12-15-90			
17.	PR	OPOSED CASING AN	ID CEMENT PROG	RAM	· · ·		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP		
12 1/4	8 5/8	24#	2050	800	Surface		
7 7/8	5 1/2	15.5#	6350	500	3000		
L	<u> </u>			<u> </u>			

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DEEPEN OR PLUG 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 knowled SKINATURE	Landman	DATE 11-28-90
THE OR FRONT NAME Michael J. Newport		TELEPHONE NO955-1146

(This space for State Use)

APPROVED BY .\_\_

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\_ TITLE \_

DATE -

CONDITIONS OF APPROVAL, IF ANY:

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

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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

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## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

perator	······································			Lease				Well No.
Greenhill Petroleum Corp.			Lovington Paddock Unit			t	98	
nit Letter	Section	Township	<u> </u>	Range	·····		County	
М	31	16 Sou	th	37 Eas	st	NMPM		Lea
ctual Footage Loca	tion of Well;			•				
268	feet from the So	uth	line and	3	5	feet from	the West	line
ound level Elev.		ng Formation		Pool				Dedicated Acreage:
3818.7'	101	· . + . P.	ddack	Louise	ton Padda	- k		Acres
1. Outline	the acreage dedicate	$\frac{1}{1}$ $\frac{1}$	adder	cil or hachane ma	to a the nist bel	<u> </u>		704558
	: than one lease is de						ng interest and	l royalty).
3. If more	than one lease of dif	ferent ownership	is dedicated to the	well, have the int	erest of all owner		lidated by con	munitization.
	ion, force-pooling, et	-						
Ŋ	Yes 🗌	]No If	answer is "yes" typ					
	is "no" list the owner	is and tract descri	iptions which have	actually been con	solidated. (Use re	verse side of		
	if neccessary.		- 11				. fr 1 11	
	ble will be assigned i non-standard unit, eli			-	•		, iorceo-pooli	ing, or outerwise)
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							Greenh	ill Petroleum
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ON DIVISION



ENERGY AND MINERALS DEPARTMENTS OIL CONSERVATION DIVISION 27 HT 1103 HOBBS DISTRICT OFFICE

12-4-90

GARREY CARRUTHERS

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

OIL (	CONSER	RVAT	[ ON	DIVI	[SION
	. BOX				
SANT	A FE,	NEW	ME >	(ICO	87501
RE:	Propo	osed:			

MC				
DHC			-	
NSL	X	 		
NSP				
SWD				
WFX				
PMX		 		

Gentlemen:

I have examined the application for the:

Lovington Paddock Unit #98-M 31-16-37 e & Well No. Unit S-T-R hill arh. Lease & Operator

and my recommendations are as follows:

Yours very truly Jerry Sexton Supervisor, District 1