

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

Incorporated in Delaware, U.S.A.

May 16, 1991

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. 81 West Lovington 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 81 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 No. 81 is located in the interior of the unit and is not competitive with offset wells outside the unit. Information gathered as a result of drilling this infill well will be utilized in evaluating additional infill development potential in the unit and ultimately may be used to evaluate the feasibility of tertiary recovery.

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

Respectfully yours,

GREENWILL PETROLEUM CORPORATION Michael J. Newport Land Manager-Permian Basin

MJN:JB Enclosures

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

Incorporated in Delaware, U.S.A.

CERTIFIED MAIL

May 16, 1991

Exxon Co. USA P.O. Box 1600 Midland, TX 79702-1600

Re: West Lovington Well No. 81 Lea County, NM

This letter is to hereby notify you that Greenhill Petroleum will be drilling Well No. 81 to a depth of 5230' to test the San Andres formation, 105 FNL and 1305 FWL in Section 9, T17S-R36E, Lea County, NM. We are obligated by the New Mexico Oil Commission to notify all offset operators that we are applying for an unorthodox location within our West Lovington Unit.

Please sign and return to the above address in the event you do not object to our proposed well.

Sincerely,

Michael J. Newport Land Manager-Permian Basin

MJN:jb cc: Mike Stogner/Santa Fe

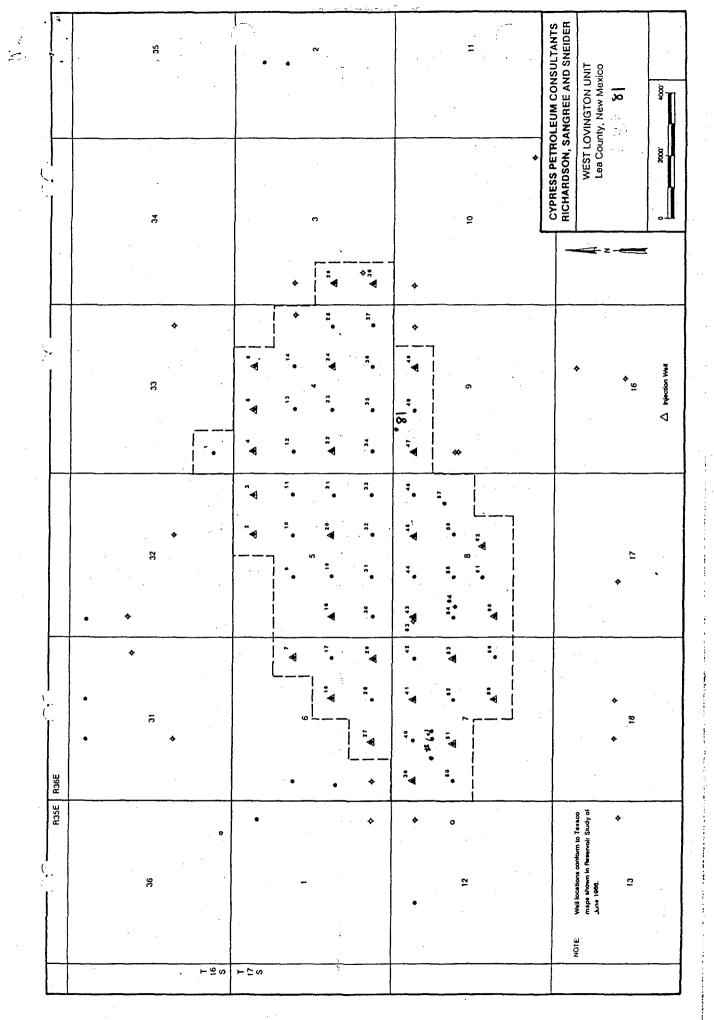
Agreed to and accepted this _____ day of , 1991.

Exxon Co. USA

By:

Enclosures

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GREENHILL PETROLEUM CORPORATION B O P PROGRAM FOR WEST LOVINGTON UNIT # 81

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

*RR - Ram Ram RA - Ram Annular

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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

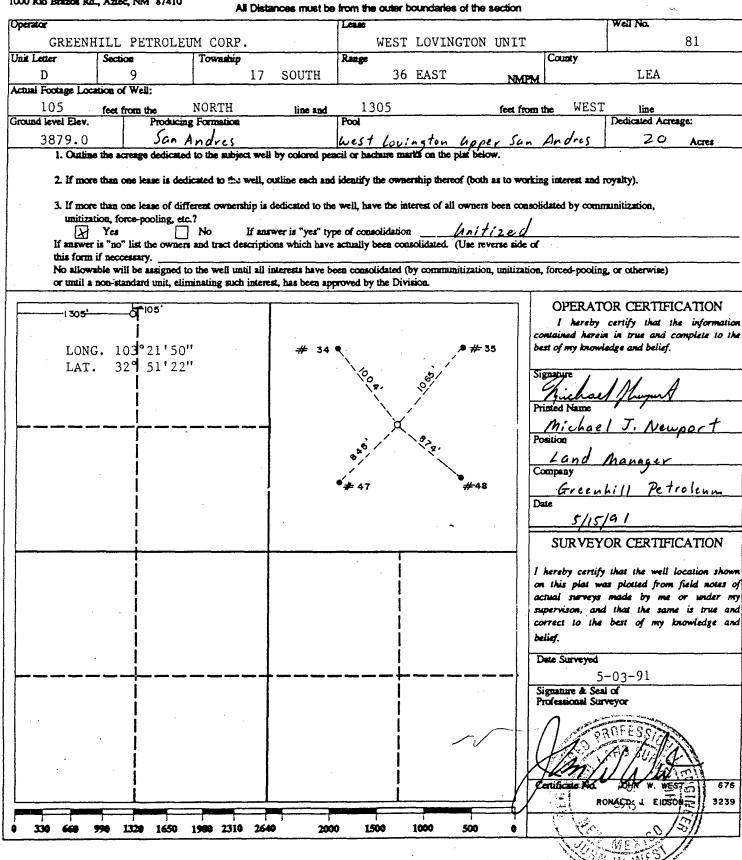
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources De ment

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT



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¹ Submit to Appropriate District Office State Lease - 6 copies	Energy,	State of New M Minerals and Natural R		at .		Form C-101 Revised 1-1-5	
For Lesse – S. copies DISTRICT I P.O. Bax 1980, Hobbe, NA	H 88240	CONSERVATIO P.O. Box 20	88	API NO. (a	nigned by OC	D on New Wells)	
DISTRICT ^{II} P.O. Drawer DD, Artesia, 1		anta Fe, New Mexico	87504-2088	5. Indicate	Type of Lease S		EE 🗌
<u>DISTRICT III</u> 1000 Rio Brazos Rd., Azte	×, NM 87410			6. State Oil	& Gas Lease	. №. B7016	
APPLICA	TION FOR PERMIT	O DRILL, DEEPEN, O	OR PLUG BACK	11111	$\Pi\Pi\Pi$	11/////////////////////////////////////	7////
12. Type of Work:	<u> </u>			7. Lease Na	ume or Unit A	greement Name	·
b. Type of Well: OIL OAS WELL X WELL [2. Name of Operator		SINGLE ZONE		8. Well No.	ovingtor	n Unit	
3. Address of Operator	oleum Corporati er. Ste 200.	on Houston, TX 77(e or Wildcar	Uppers Sar	
4. Well Location	: <u>105</u> Feet Fr		Line and3			West	Line
Section 9	Towns	hip 17S Rai	age 36E	NMPM	ea	c	ounty
		10. Proposed Depth 5230		1. Formation San Andro	//////// es	12-Rotary or C.T.	
13. Elevations (Show whether	er DF, RT, GR, elc.)	4. Kind & Status Plug, Bood	15. Drilling Contra	dor	16. Approz.	Date Work will star	t
3879		on file	TBD		7-15-9		
17.	PR	OPOSED CASING AN	ID CEMENT PRO	GRAM			<u> </u>
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		CEMENT		<u>P</u>
12 1/4	8 5/8	24	350		·	Surface	
7 7/8	5 1/2	15.5	5230	450		Surface	
L	L	L				L	

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

7

DATE -

I hereby certify that the information above is true and complete to the best of my know SXDNATURE	mage and balier. 	r-Permian Basin pare 5-16-91
TITE OR FRONT NAME Michael J. Newport		TELETHONE NO.955-1146

. m.e _

(This space for State Use)

APTROVED BY _____

CONDITIONS OF APPROVAL, IF ANY:



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

Incorporated in Delaware, U.S.A.

May 16, 1991

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87504-2088

Attn: Mike Stogner

Re: West Lovington Well No. 81 Lea County, NM

This letter is to hereby notify you we have notified all offset operators to the WLU No. 81 that we plan to drill an unorthodox location.

Sincerely,

Michael J. Newport Land Manager-Permian Basin

MJN:jb Enclosure

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OIL COMSERV ENERGYS MINI RECLIVED '91 MAY 30 AM 9 17 BRUCE KING GOVERNOR	STATE OF NÈW MEXICO ERALS AND NATURAL RESOURCES DEPA OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE _5-28-91	ARTMENT 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		
Gentlemen:		
I have examined the applica <u>Ireenhill Pet</u> Corr Operator		# 81- & 9-17-36 R
and my recommendations are		
Yours very truly, Verry Sexton Supervisor, District 1	/	

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/ed

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Incorporated in Delaware, U.S.A.

May 16, 1991

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. 82 West Lovington 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 82 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 No. 82 is located in the interior of the unit and is not competitive with offset wells outside the unit. Information gathered as a result of drilling this infill well will be utilized in evaluating additional infill development potential in the unit and ultimately may be used to evaluate the feasibility of tertiary recovery.

Greenhill Petroleum Corporation wishes to commence drilling operations 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 A internation Michael J. Newport Land Manager-Permian Basin

MJN:JB Enclosures

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Incorporated in Delaware, U.S.A.

CERTIFIED MAIL

May 16, 1991

Texaco USA P.O. Box 3109 Midland, TX 79702

Attn: Keith Williams

Re: West Lovington Well No. 82 Lea County, NM

This letter is to hereby notify you that Greenhill Petroleum will be drilling Well No. 82 to a depth of 5230' to test the San Andres Formation, 2390 FEL and 2390 FNL in Section 7, T17S-R36E, Lea County, NM. We are obligated by the New Mexico Oil Commission to notify all offset operators that we are applying for an unorthodox location within our West Lovington Unit.

Please sign and return to the above address in the event you do not object to our proposed well.

Sincerely,

Michael J. Newport Land Manager-Permian Basin

MJN:jb cc: Mike Stogner/Santa Fe

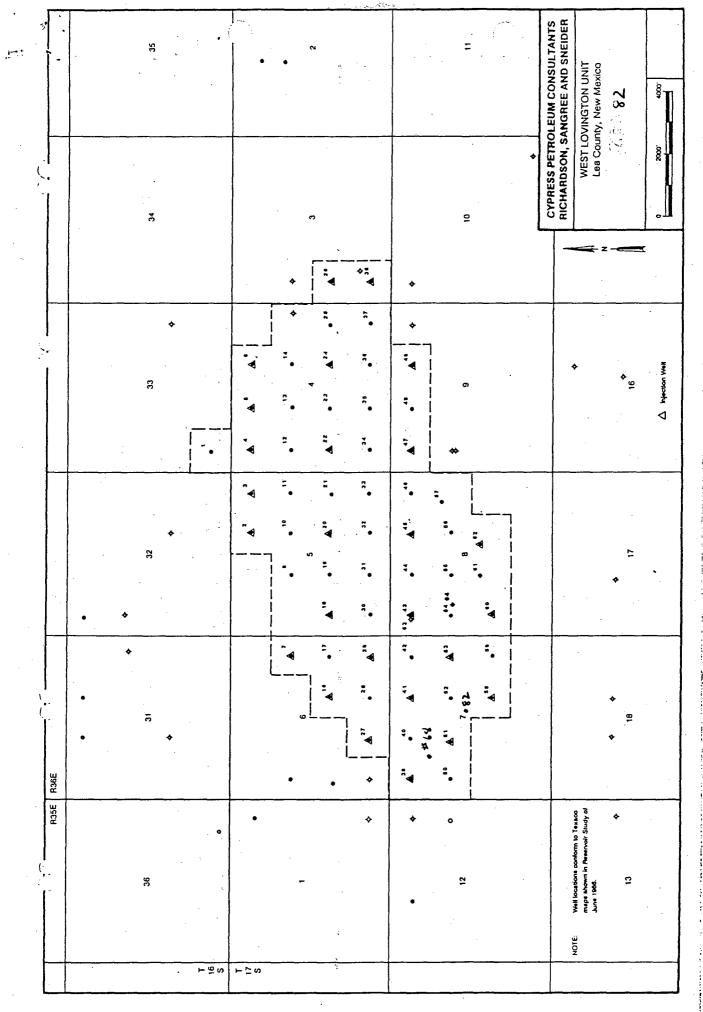
Agreed to and accepted this _____ day of _____, 1991.

Texaco USA

By:

Enclosures

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

Operator

LAT. 32°50'59

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660

990

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1650

1980 2310 2640

LONG. 103°23'04"

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

Weil No.

Michaes

Michael J.

Green hill

5/15/9

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

4-30-91

RONALD & EIDEDN

Land Manag

Printed Name

Position

Соправу

Date

belief.

Date Surveyed

Signature & Seal of Professional Surveyor

2390-

Newport

Actroleum

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3239

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GRE	ENHILL PETRO	LEUM CORF	•	WEST LOVINGTON UNIT			82		
Unit Letter	Section	Township		Range		······································	County		·····
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Actual Footage Loca	tion of Well:			· · · · · · · · · · · · · · · · · · ·			<u> </u>		<u> </u>
2390	feet from the	EAST	line and	2390		feet from	the NOI	RTH line	
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1. Outline	the acreage dedicated	to the subject w	vell by colored per	cil or hachur	e marks on the pla	t below.			
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WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

Lean

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM \$7410 6. State Oil & Gas Lesse No. B4120 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 84120 Ia. Type of Work: 7. Lesse Name or Unit Agreement Name DRILL X RE-ENTER DEEPEN DRILL X RE-ENTER DEEPEN PLUG BACK West Lovington Unit OAS WELL X OTHER SINCLE ZONE 2. Name of Operator 8. Well No. Greenhill Petroleum Corporation 82 3. Address of Operator 9. Pool name or Wildcat 11490 Westheimer, STe., 200, Houston, TX 77077 West, Lovington Upper, San, Andree 4. Well Location Well Location			7. 			
DISTRICTI P.O. Box 1950, Hobbe, NM 88240 P.O. Box 2088 DISTRICTI P.O. Drawer DD, Arceia, NM 88210 Santa Fe, New Mexico 87504-2088 DISTRICTII P.O. Drawer DD, Arceia, NM 88210 Santa Fe, New Mexico 87504-2088 DISTRICTII P.O. Drawer DD, Arceia, NM 88210 Santa Fe, New Mexico 87504-2088 DISTRICTII P.O. Drawer DD, Arceia, NM 88210 Santa Fe, New Mexico 87504-2088 DISTRICTIN 1000 Rio Brizos Rd, Aziec, NM 87410 6. Suite Oil & Get Lease No. B4120 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 84120 Ia Type of Well: DEEPEN PLUG BACK DRILL X RE-ENTER DEEPEN PLUG BACK Name of Operator State Operator 14 Mone of Operator 82 14 Agree meen, STe., 200, Houston, TX 77077 State Ferom The North 4. Well Lease Of Corporation 82 3. Address of Operator Line and 2390 Get From The	District Office State Lease – 6 copies		Minerals and Natural R	esources Department		• • • • • •
DISTRICTION 5. Indicate Type of Lottlet P.O. Draver DD, Artesia, NM \$8210 STATE X DISTRICTION STATE X IDOR Rob Brazoe Rd., Aziee, NM \$7410 STATE X APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK B4120 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Reservent Name b. Type of Well: State Of Well: OLL X State Coll & Gas Lease No. BALL X RE-ENTER DEEPEN PLUG BACK MOLTPRE Vell X West Other Vell X West Other State of Operator State of Usit Agreement Name West Lovington Unit State of Usit Agreement Name Vell X West Other Other State of Operator State of Usit Agreement Name 114900 Westherimer, STE., 200, Houston, TX 77077 West Lovington Upper San Andres 4. Well Location State of X State Of X Ubit Lease G : 2390 Fee From The East Line and 2390 10. Proposed Depth 11. Formation 12. Rotary or CT. 13. Elevation (Show whether DF, RT, GR, etc.) 14. Kind & Stanu Pug. Bood		M 88240	API NO. (assigned by OC	D oa New Wells)		
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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.

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I hereby certify that the geformation above is truggend complete to the best of my he	owindge and belief.	
SKONATURE _ pyichael J. Lugal	ma Land Manager-Permian Bas	5-16-91
TTE OR FRENT MANE Michael J. Newport		<u>телетноме но955-1146</u>
(This space (or State Use)	·	
APTROVED BY	III.2	DATE
CONDITIONS OF AFTROVAL, IF ANY:		

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GREENHILL PETROLEUM CORPORATION B O P PROGRAM FOR WEST LOVINGTON UNIT # 82

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

*RR - Ram Ram RA - Ram Annular



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

Incorporated in Delaware, U.S.A.

May 16, 1991

- J**i**

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM

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Attn: Mike Stogner

Re: West Lovington Well No. 82 Lea County, NM

This letter is to hereby notify you that we have notified all offset operators to the WLU No. 82 that we plan to drill an unorthodox location.

Sincerely,

Michael J. Newport Land Manager-Permian Basin

MJN:jb

Enclosures

CONSERVE ON DIVISION STATE OF NEW MEXICO RENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE 5-28-91	POST OFFICE BOX 1980
GOVERNOR	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	ί
Gentlemen:	
I have examined the application for the: <u>Areenhill Pet. Corps. West Lovington Unit</u> #82 Operator Lease & Well No. Unit S-T-R	2-27-17-36
and my recommendations are as follows:	
Yours very truly,	

.

Jerry Sexton Supervisor, District 1

/ed

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