GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Attn: Mr. David Catanach

Re: Lovington Paddock Unit
Lea County, NM

Enclosed please find the Application whereby Greenhill proposes to convert the following producing oil wells to injection wells in the Lovington Paddock area:

Well Nos. 5, 7, 16, 18, 41, 37, 58, 56, 67, 71

Also enclosed are copies of certified receipts whereby I have contacted all parties as required by the NMOC. I will forward the publication information when I receive it from the newspaper.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Unocal
500 Executive Plaza East
4615 Southwest Freeway
Houston, TX 77027

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Postmark or Date	5/21/91
TOTAL Postage and Fees	$
Return receipt showing to whom, Date, and Address of Delivery	
Return Receipt Showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	$
P.O., State and ZIP Code	Houston TX 77027
Street and No.	500 Executive Plaza
Sent to	Unocal

P 083 037 049
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

Marathon Oil Company
5555 San Felipe Rd.
Houston, TX 77056

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	Marathon Oil Co.
Street and No.	5555 San Felipe.
P.O., State and ZIP Code	Houston TX 77056
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

P 083 037 050

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

E.F. Moran Inc.
P.O. Box 1919
Hobbs, NM 88240

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Sent to	E.F. Moran Inc.
Street and No.	P.O. Box 1919
P.O., State and ZIP Code	Hobbs NM 88240
Postage	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

(See Reverse)

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

RECEIPT FOR CERTIFIED MAIL

P 083 037 051

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

Phillips Petroleum
P.O. Box 1967
Houston, TX 77251-1967

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

P 083 037 052

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Sent to	Phillips Petroleum
Street and No.	P.O. BOX 1967
P.O. State and ZIP Code	HOUSTON TX 77251-19
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Arco Oil & Gas Co.
P.O. Box 1610
Midland, TX 79702

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	ARCO Oil & Gas
Street and No.	P.O. BOX 1610
P.O., State and ZIP Code	Midland TX 79702
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5-21-91

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Mobil Exploration
12450 Greenspoint Dr.
Houston, TX 77060-1991

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

P 083 037 054
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

PS Form 3800, Feb. 1982									★ U.S.G.P.O. 1984-446-014
Postmark or Date	TOTAL Postage and Fees	Return receipt showing to whom, Date, and Address of Delivery	Return Receipt Showing to whom and Date Delivered	Restricted Delivery Fee	Special Delivery Fee	Certified Fee	Postage	P.O. State and ZIP Code	Sent to Street and No.
5/21/91	$						$	P.O. BOX 3109 MIDLAND TX 79702	Mobil Exploration 12450 Greenspoint Dr. Houston, TX 77060-1991

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Oxy USA Inc.
P.O. Box 1919
Midland, TX 79702

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Postmark or Date	5-21-91
TOTAL Postage and Fees	$
Return receipt showing to whom, Date, and Address of Delivery	
Return Receipt Showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	$
P.O., State and ZIP Code	MIDLAND TX 79702
Street and No.	P.O. BOX 1919
Sent to	OXY USA

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

P 083 037 055

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

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

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Sent to	Texaco USA
Street and No.	P.O. Box 3109
P.O. State and ZIP Code	Midland TX 79702
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

(See Reverse)

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

P 083 037 056

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

Texas Crude Exploration, Inc.
508 Wall Towers East
Midland, TX 79701

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

P 375 677 557

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to: Texas Crude Expl
Street and No.: 508 Wall Towers E
P.O. State and ZIP Code: Midland TX 79701

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Samedan Oil Corp.
10 Desta Dr.
Ste., 240 East
Midland, TX 79705

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

Postmark or Date	5-21-91
TOTAL Postage and Fees	$
Return Receipt showing to whom, Date, and Address of Delivery	
Return Receipt showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	$
Street and No.	10 Desta Dr.
P.O. State and ZIP Code	Midland TX 79705
Sent to	Samedan Oil Corp.

P 375 679 558

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Shelby Gilmore
P.O. Box 1865
Lovington, NM 88260

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

P 375 679 560
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	Shelby Gilmore
Street and No. or P.O. State and ZIP Code	P.O. Box 1865 Lovington, NM 88260
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 890-2105

Incorporated in Delaware, U.S.A.

May 15, 1991

Araho Inc.
P.O. Box 5456
Midland, TX 79701

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

Sent to	Araho Inc.
Street and No. or P.O. Box	P.O. Box 5456
P.O. State and ZIP Code	Midland TX 79701
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/15/91

P 375 679 561

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

City of Lovington
P.O. Box 1268
Lovington, NM 88260

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	City of Lovington
Street and No.	P.O. Box 1268
P.O., State and ZIP Code	Lovington NM 88260
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

Oryx Energy Co.
P.O. Box 1861
Midland, TX 79702-1861

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 :: U.S.G.P.O. 1989-234-555

Postmark or Date	5/21/91	
TOTAL Postage and Fees	$	
Return Receipt showing to whom. Date, and Address of Delivery		
Return Receipt showing to whom and Date Delivered		
Restricted Delivery Fee		
Special Delivery Fee		
Certified Fee		
Postage	$	
Sent to	Oryx Energy Co.	
Street and No. / P.O. State and ZIP Code	P.O. Box 1861 Midland TX 79702-1861	

P 375 679 563

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Rebecca Caylor Rice
Rt. 3, Box 2254
Birdsboro, PA 19508

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

P 375 679 564

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Rebecca Caylor Rice
Street and No. RD 3 Box 2254
P.O., State and ZIP Code Birdsboro PA 19508

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

Amoco Production Co.
P.O. Box 3092
Houston, TX 77253

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, June 1985 ☆U.S.G.P.O. 1989-234-555

Postmark or Date	5/21/91
TOTAL Postage and Fees	$
Return Receipt showing to whom, Date, and Address of Delivery	
Return Receipt showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	$
Sent to	Amoco Production
Street and No.	P.O. Box 3092
P.O., State and ZIP Code	Houston, TX 77253

P 375 679 565
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 690-2405

Incorporated in Delaware, U.S.A.

May 15, 1991

Mary Caylor
435 Burns Avenue
Apt. 3
Indiana, PA 15701

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Sent to	Mary Caylor
Street and No.	435 Burns Avenue
P.O., State and ZIP Code	Indiana, PA 15701
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

(See Reverse)

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

P 083 037 057

GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

May 15, 1991

Penroc Oil Corporation
P.O. Box 5970
Hobbs, NM 88241

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.

P 083 037 059

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014	
Sent to	PENROC OIL CORP.
Street and No.	P.O. BOX 5970
P.O., State and ZIP Code	HOBBS, NM 88241
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91

GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1116
FAX (713) 890-2405

Incorporated In Delaware, U.S.A.

May 15, 1991

Rice Engineering
122 W. Taylor
Hobbs, NM 88240

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

Postmark or Date	5/21/91
TOTAL Postage and Fees	$
Return receipt showing to whom, Date, and Address of Delivery	
Return Receipt Showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	$
Street and No.	P.O. Box 1369
P.O. State and ZIP Code	Hobbs NM 88240
Sent to	Rice Engineering

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

P 083 037 058

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

May 15, 1991

Exxon Company
233 Benmar, Ste., 970
Houston, TX 77060

Re: Lovington Paddock Unit
Well Nos. 5, 7, 16, 18, 37, 41, 56, 58, 67, 71
Lea County, NM

TO OPERATORS OFFSETTING THIS UNIT AND ALL OPERATORS WITHIN ONE-HALF MILE OF AN INJECTION WELL.

Gentlemen:

Enclosed is the application of Greenhill Petroleum Corporation which was filed in the above-referenced matter seeking approval to expand its waterflood project in the Lovington Paddock Unit. Greenhill is required by the NMOC to notify all offset operators within a two mile radius. We are also required to notify the surface owners.

Please advise in the event you have any questions. All interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosures

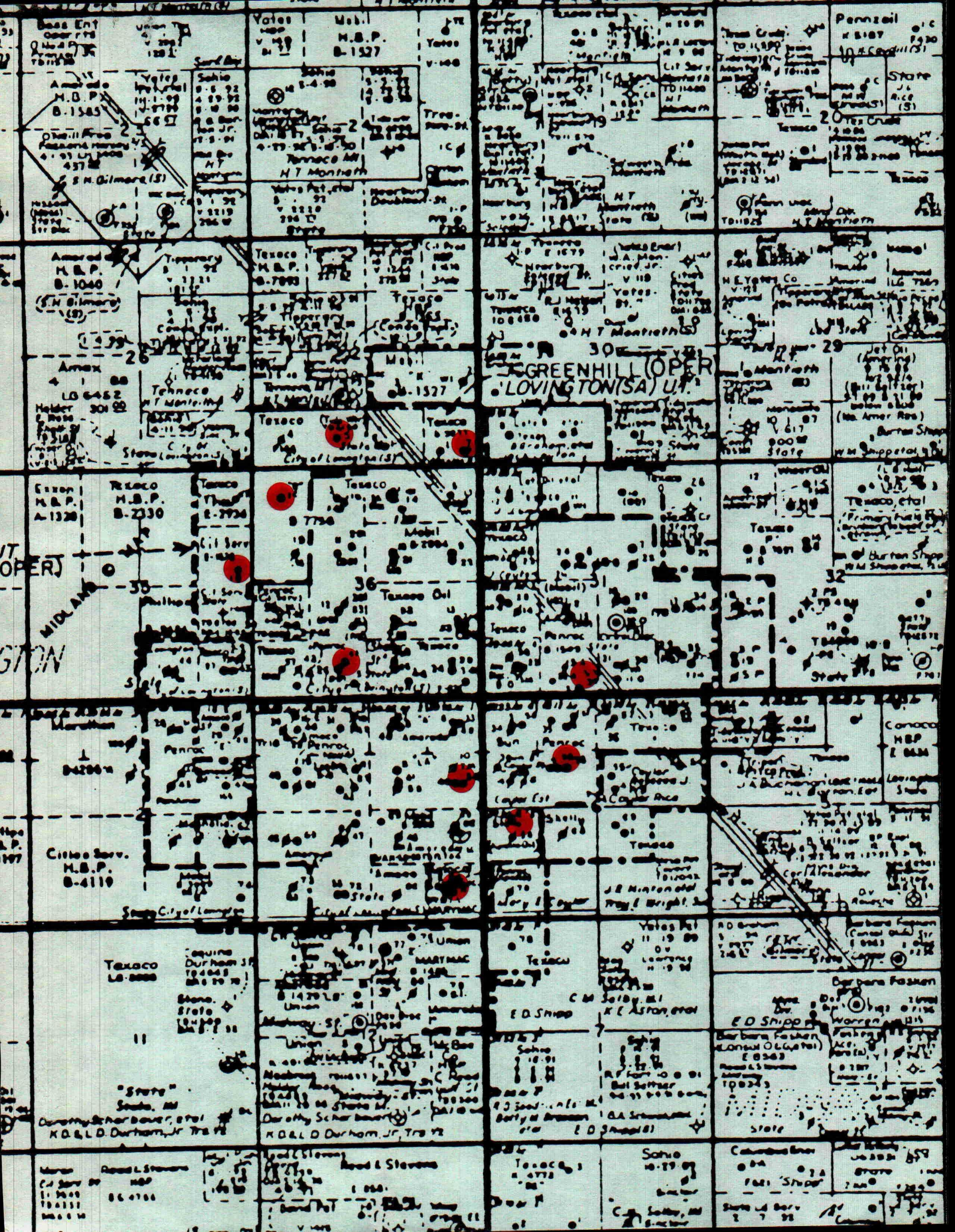
C.M.R.R.R.

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1984-446-014

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

P 083 037 048

Sent to	EXXON CO.
Street and No. or P.O. State and ZIP Code	ATTN: LAND DEPT. HOUSTON TX 77060
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	5/21/91


GREENHILL (OPER
LOVINGTON (SA) U.
OPER)
MIDLAND
Pennzoil
Amerada
H.B.P.
B-1585
Amerada
H.B.P.
B-1040
S.H. Gilmore
Amax
LG 6452
Tenneco
H T Montieth
Mobil
H.B.P.
B-1527
Texaco
H.B.P.
Texaco
H.B.P.
B-2130
Exxon
H.B.P.
A-1320
Citco Serv.
H.B.P.
B-4119
Texaco Oil
Texaco, etal
Penroc
Marathon
Texaco
"State"
State
Conoco
HBP
Barbara Fasken
E D Shipp
Dorothy Scharbauer, etal
K D & L D Durham, Jr Tr
Read & Stevens
Sohio
Yates
36
30
29
32
26
20
11

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [XX] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [XX] yes [ ] no

II. Operator: GREENHILL PETROLEUM CORPORATION

Address: 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077

Contact party: MICHAEL J. NEWPORT Phone: 713/955-1146

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-3124.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: MICHAEL J. NEWPORT Title LAND MANAGER-PERMIAN BASIN

Signature: Michael J. Newport Date: 5/13/91

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

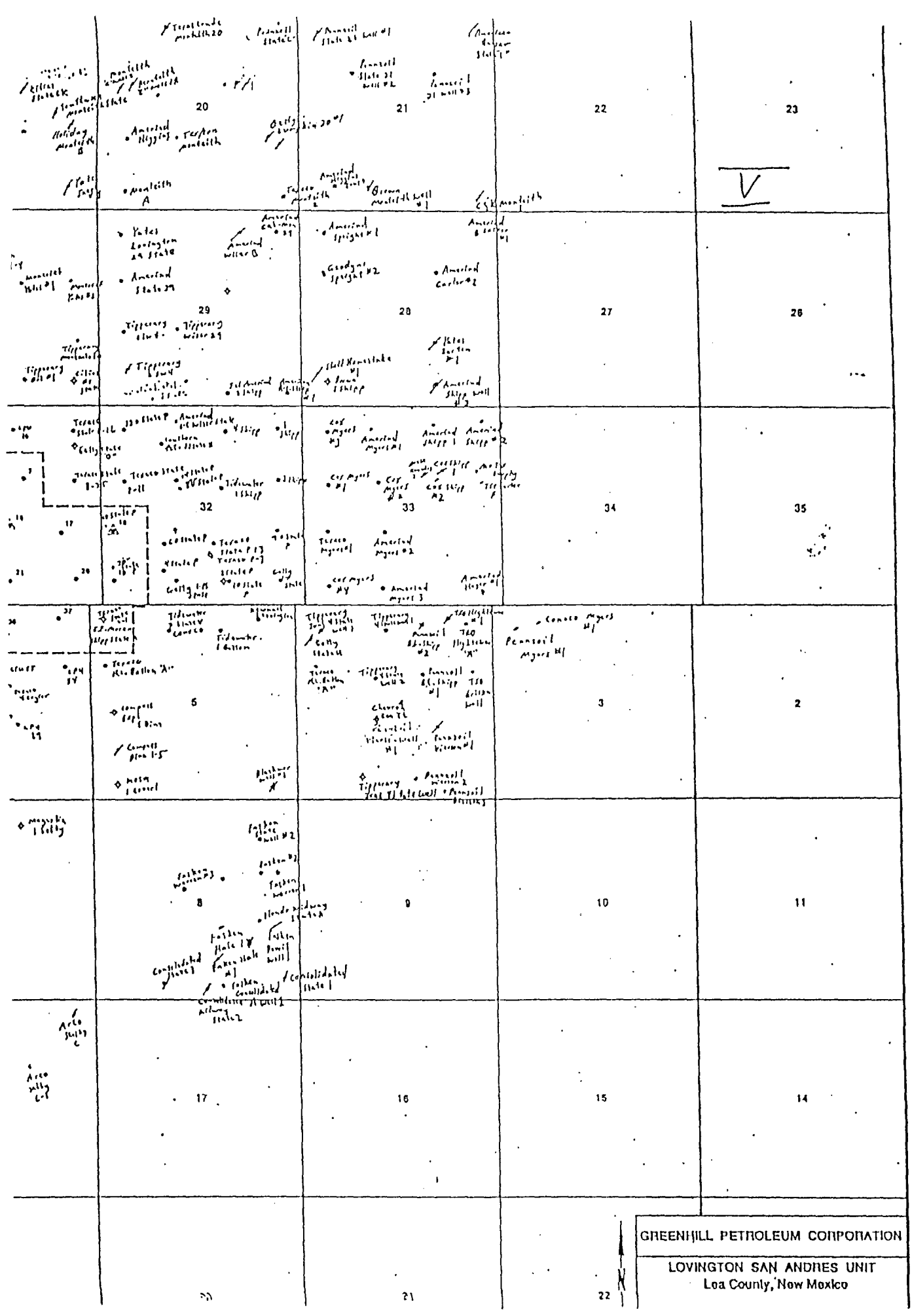
(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

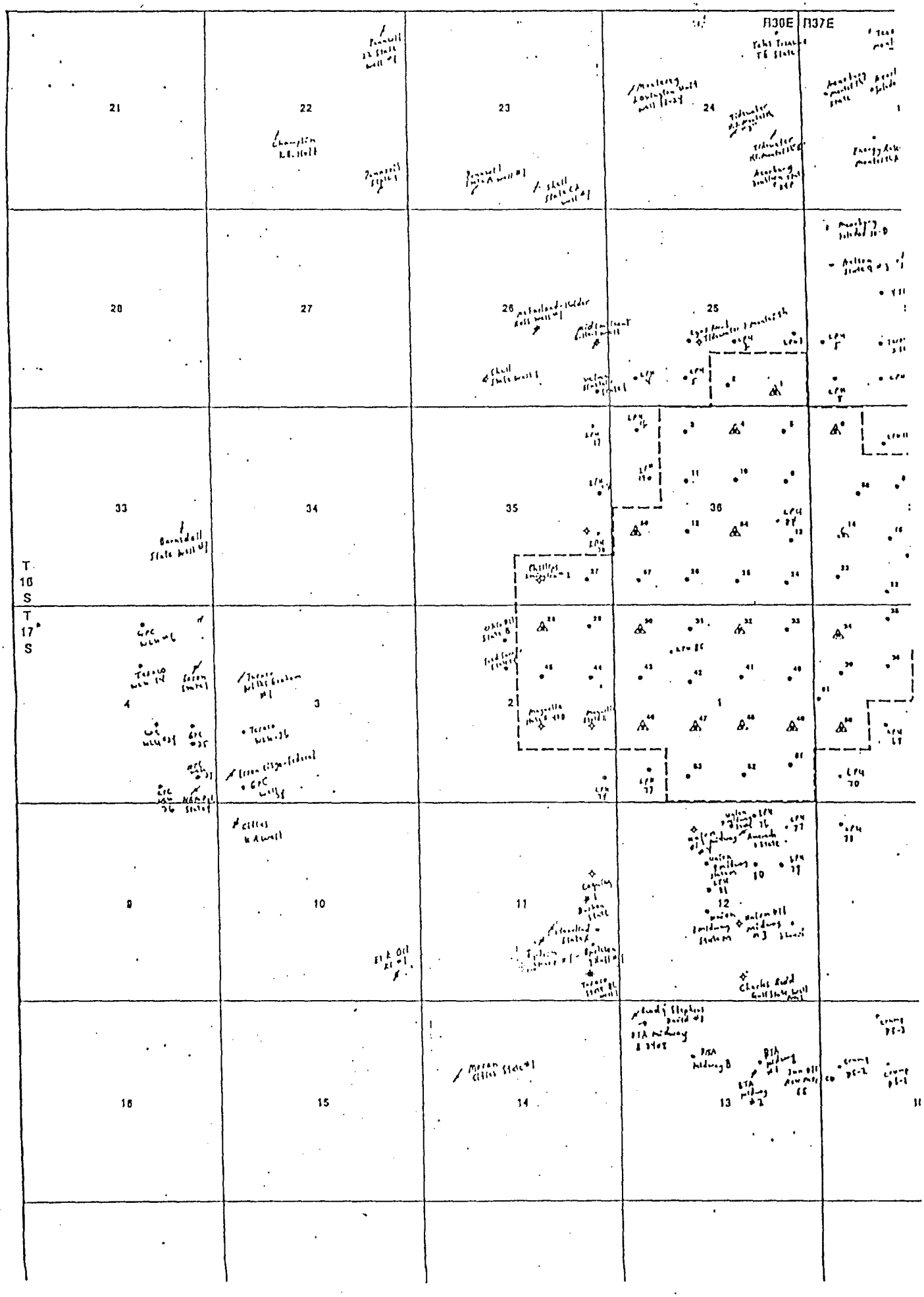
(3) the formation name and depth with expected maximum injection rates and pressures; and

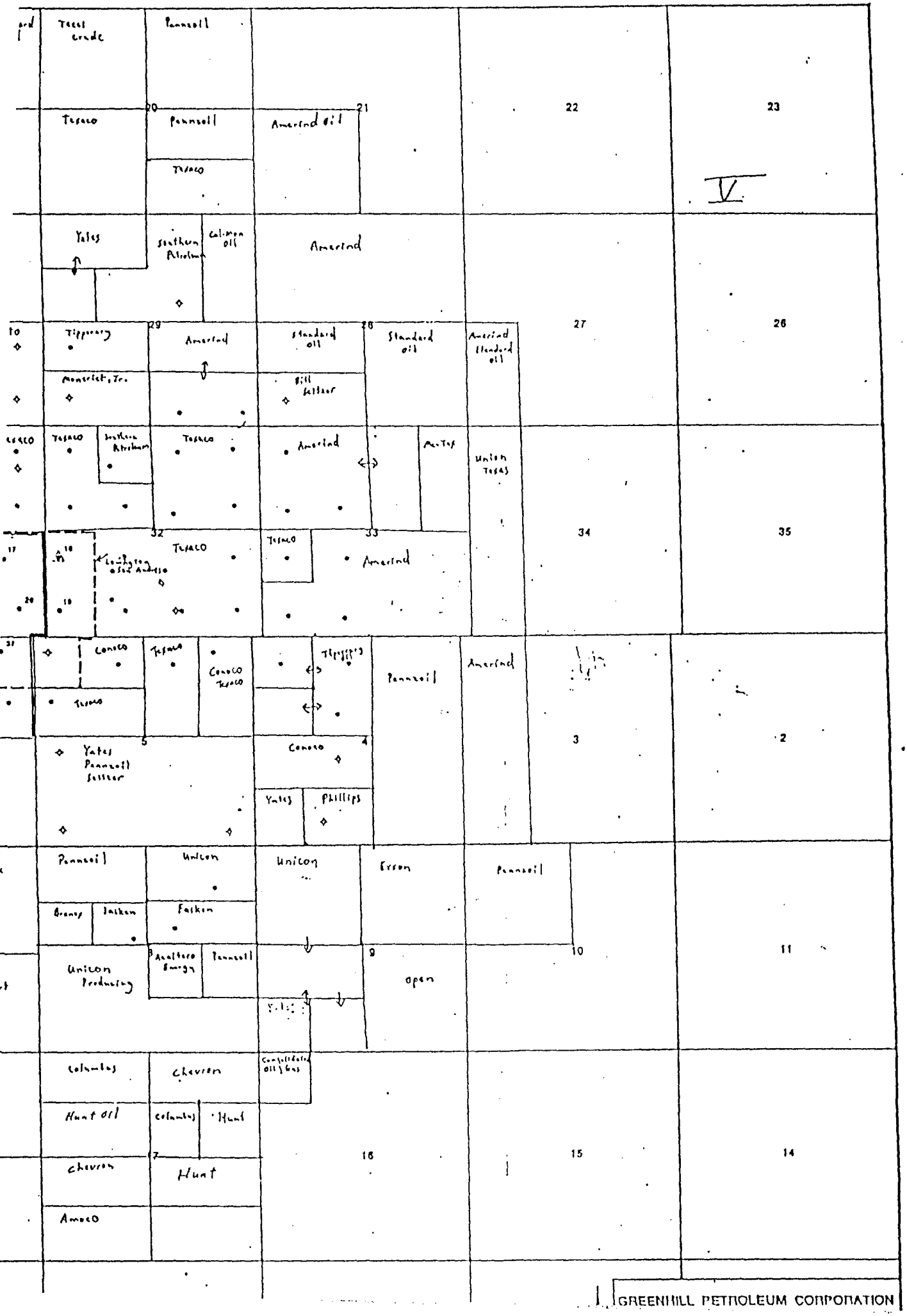
(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

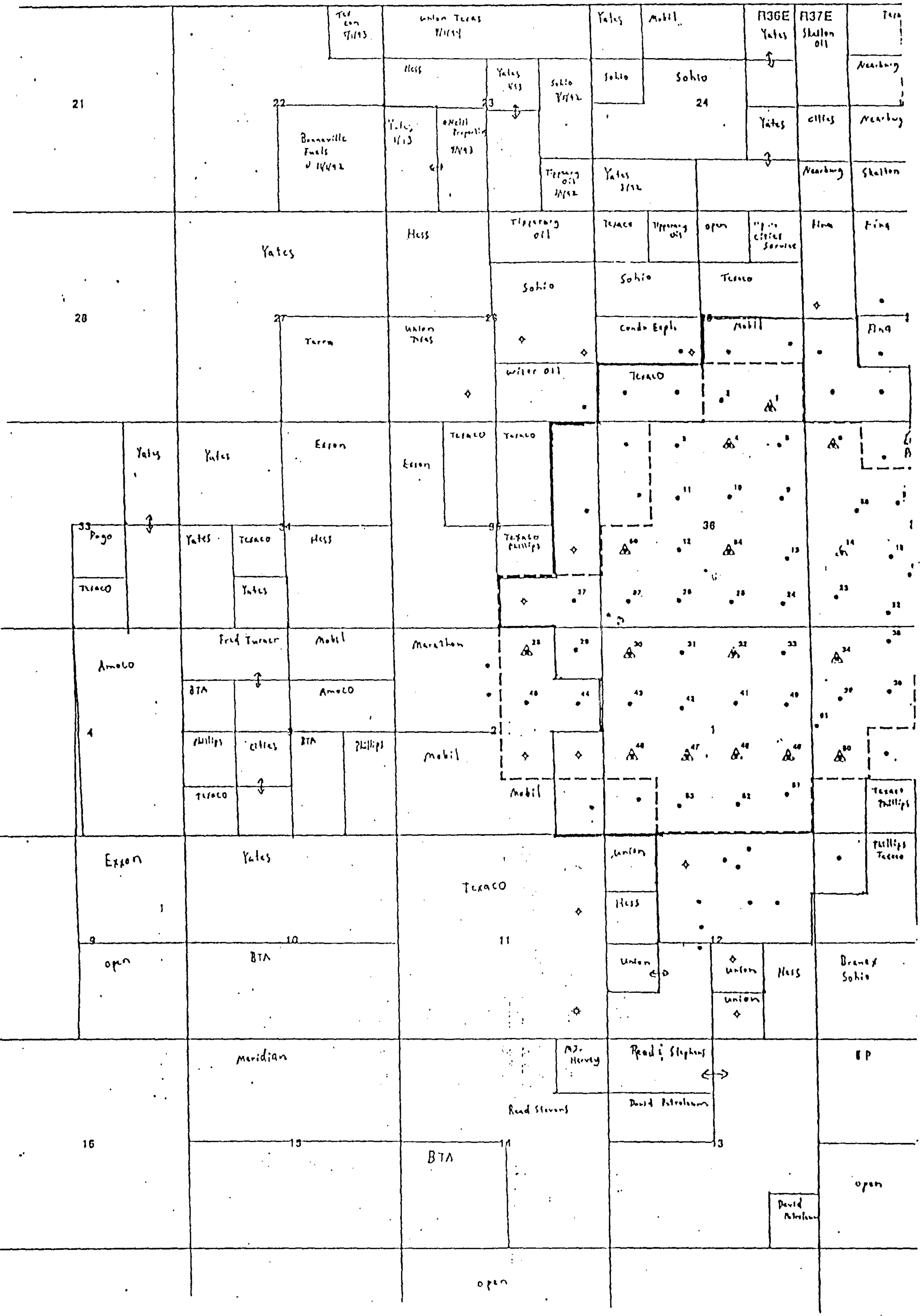
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.


20
21
22
23
V
29
28
27
26
32
33
34
35
5
3
2
8
9
10
11
17
16
15
14
21
22
GREENHILL PETROLEUM CORPORATION
LOVINGTON SAN ANDRES UNIT
Lea County, New Mexico


R30E
R37E
21
22
23
24
1
28
27
26
25
33
34
35
36
T.
16
S
T
17
S
4
3
2
1
9
10
11
12
16
15
14
13



GREENHILL PETROLEUM CORPORATION


R36E
R37E
Union Texas
Yates
Mobil
Shelton Oil
Hess
Sohio
Nearburg
Cities
Shelton
21
22
23
24
Bonneville Fuels
Tipperary Oil
Texaco
Yates
Sohio
King
28
27
26
Union Texas
Mobil
Exxon
33
34
35
36
Pogo
Hess
Texaco Phillips
Amoco
Fred Turner
Marathon
BTA
Phillips
Cities
4
3
2
1
Exxon
Union
Texaco
Hess
Phillips Texaco
9
10
11
12
open
Union
Hess
Meridian
Read & Stephens
Read Stevens
David Petroleum
EP
16
15
14
13
BTA
open

VII

1. The proposed average and maximum daily rate and volume to be injected are 2000 PSI and 1500 BWPD.

2. The system will be a closed system.

4. The sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water is attached hereto as Exhibit "A".

"A"

WATER ANALYSIS REPORT

Company : GREENHILL PETROLEUM
Address : LOVINGTON, NM
Lease : SENE SEC~~26~~ 35 TI6S R36E
Well : PAD 18
Sample Pt. : WINDMILL

Date : 8-22-90
Date Sampled : 8-22-90
Analysis No. : 2

	ANALYSIS		mg/L		* meq/L
1.	pH	7.6			
2.	H2S	0			
3.	Specific Gravity	1.001			
4.	Total Dissolved Solids		2086.2		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	244.0	HCO3	4.0
12.	Chloride	Cl	1035.2	Cl	29.2
13.	Sulfate	SO4	200.0	SO4	4.2
14.	Calcium	Ca	350.0	Ca	17.5
15.	Magnesium	Mg	224.9	Mg	18.5
16.	Sodium (calculated)	Na	32.1	Na	1.4
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		1800.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

17	*Ca <------ *HCO3	4
19	*Mg ------> *SO4	4
1	*Na ------> *Cl	29

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	4.0	324
CaSO4	68.1	4.2	283
CaCl2	55.5	9.3	516
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	18.5	881
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	1.4	82

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
D. SWEATT

"A"

WATER ANALYSIS REPORT

Company : GREENHILL PETROLEUM
Address : LOVINGTON, NM
Lease : SENE SEC 2 TI7S R36E
Well : S. A. #44
Sample Pt. : WINDMILL

Date : 8-22-90
Date Sampled : 8-22-90
Analysis No. : 1

	ANALYSIS		mg/L		* meq/L
1.	pH	7.5			
2.	H2S	0			
3.	Specific Gravity	1.001			
4.	Total Dissolved Solids		2222.8		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	244.0	HCO3	4.0
12.	Chloride	Cl	917.6	Cl	25.9
13.	Sulfate	SO4	325,0	SO4	6.8
14.	Calcium	Ca	720.0	Ca	35.9
15.	Magnesium	Mg	0.5	Mg	0.0
16.	Sodium (calculated)	Na	15.7	Na	0.7
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		1800.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

36	*Ca <----- *HCO3	4
	/------->	
0	*Mg -----> *SO4	7
	<---------/	
1	*Na -----> *Cl	26

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	4.0	324
CaSO4	68.1	6.8	461
CaCl2	55.5	25.2	1396
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	0.0	2
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	0.7	40

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
D. SWEATT

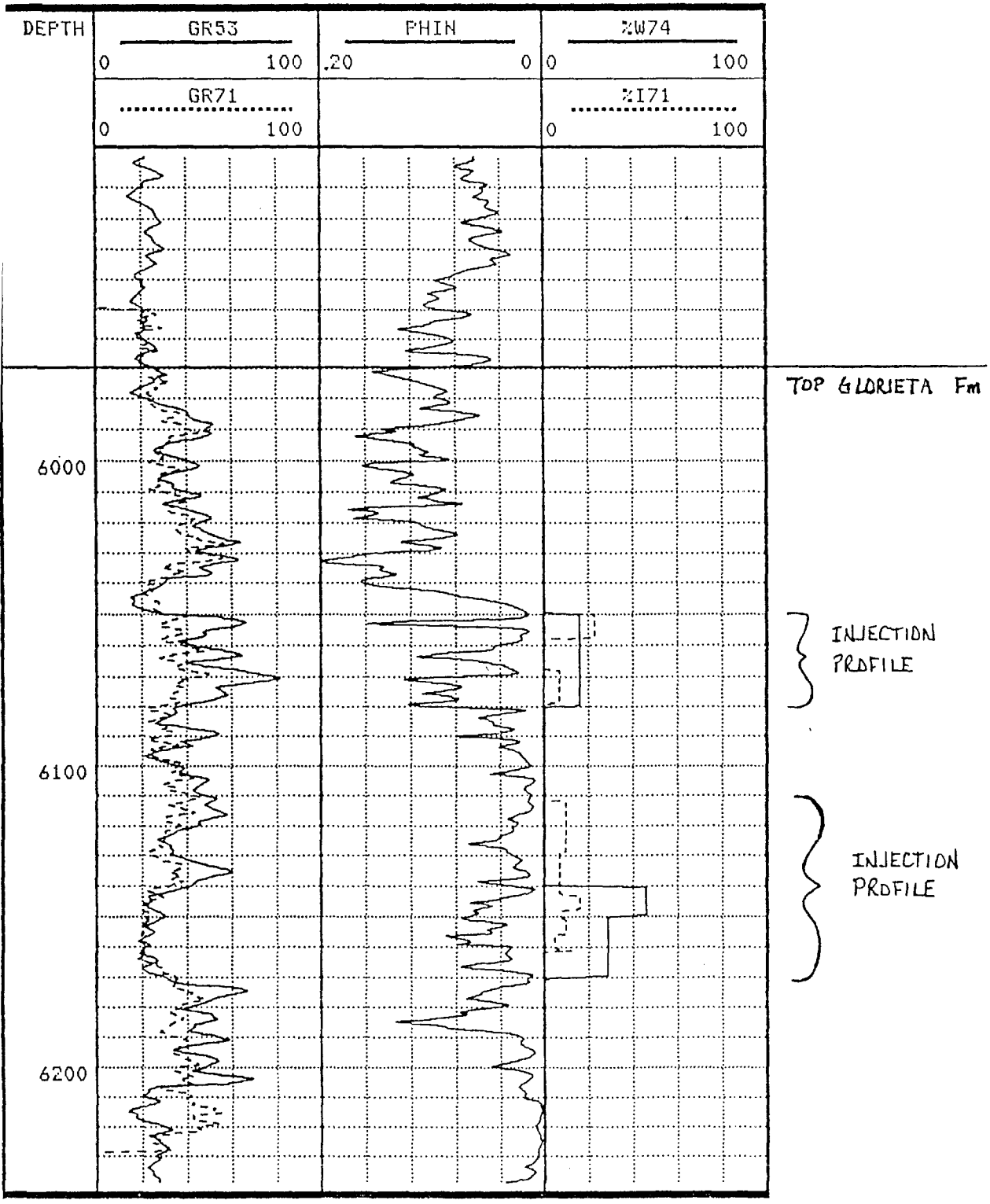
VIII Geologic Data

The zone of interest for this application to inject is the Paddock interval of the Glorieta Formation. In the area of the Lovington Field Paddock Unit, the Paddock interval is found at an average depth of 6150' and consists of light brown, finely crystalline dolomite, with thin lenticular fine-grained sandstone beds interbedded with the dolomite. Attached is a type log from the Lovington Field Paddock Unit. The well log (LPU #36) is an injection well and shows two main zones within the field unit where water has been injected.

The only known underground source of fresh water in the Lovington Field Paddock Unit Area is the Ogalalla Formation. The approximate base of the formation is 200'. No source is known to be immediately underlying the proposed injection interval.

WELL NAME - SKELLY STATE O#19 (LPF#36)
LOCATION - 660 FSL 2160 FEL 31-16S-37E
WELL DATA - KB, ELEV. DF 3816, TD 6245, 5-1/2 6050
LOGS - LANE RA 12-6-53
LOG PARAMETERS-

DATA FILE NAME: b:lpf36.cm1 DATE OF PLOT: 10/ 3/1990



IX

PROPOSED STIMULATION PROGRAM
FOR CONVERSIONS FROM PROCEDURES TO INJECTION WELLS
LOVINGTON PADDOCK UNIT
LEA COUNTY, NM

1. MIRU PU w/reverse unit. Check and report pressure on casing strings. Inspect wellhead connections for condition and pressure rating. Insure all casing valves are at least 2000 psig W. P. Pull and lay down rods and pump.

2. Rig up and pressure test BOP to 3000 psig for 5 min. Pull tubing and TAC. Lay down TAC.

3. PU bit, casing scraper and collars and TIH to 200' above casing shoe. Scrape casing to 10 ft. above shoe. Do not go below casing shoe with scraper. POOH and lay down scraper. TIH to 10 ft. above casing shoe and circulate hole clean with clean water. Rotate and clean out bottom of open-hole interval below casing shoe.

4. Spot enough 20% NEFE HCL acid to cover the open-hole interval. Slowly pull bit above top of acid and POOH.

5. Rig up perforating contractor. String shoot water flood intervals w/400 grains per foot primacord. TIH with bit and tubing and circulate open hole interval clean to TD w/water. POOH laying down workstring.

6. PU new 2 3/8" IPC tubing string w/new water flood packer and TIH to 20' above casing shoe. Circulate inhibited fresh water into tubing-casing annulus and set packer. Pressure test annulus to 500 psig for 5 min. Release pressure. RD BOP and install waterflood and wellhead.

7. Pressure test annulus per NMOCD requirements. Release rig.

8. Rig up acid contractor and treat below packer with 15 tons CO_2 and 3000 gal. 20% NEFE HCL acid using diverter in 3 stages. Flow well back to recover load and clean-up formation. SI well.

9. Install wellhead filter cartridge housing and filter. Hook up new water injection line.

10. Put well on injection. When rate and pressure stabilize, run water injection survey.

XI

Martin Water Laboratories, Inc.

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 1189311

TO: Mr. Dan Westover
12777 Jones Road, Suite 375, Houston, TX

SAMPLE RECEIVED 11-27-89

RESULTS REPORTED 12-4-89

COMPANY Greenhill Petroleum Corporation LEASE Lovington San Andres Unit

FIELD OR POOL Lovington

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from injection pump discharge. 11-27-89

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0160			
pH When Sampled	6.8			
pH When Received	6.90			
Bicarbonate as HCO_3	1,464			
Supersaturation as $CaCO_3$	70			
Undersaturation as $CaCO_3$	---			
Total Hardness as $CaCO_3$	5,700			
Calcium as Ca	1,540			
Magnesium as Mg	450			
Sodium and/or Potassium	5,369			
Sulfate as SO_4	2,358			
Chloride as Cl	9,730			
Iron as Fe	0.32			
Barium as Ba	0			
Turbidity, Electric	72			
Color as Pt	56			
Total Solids, Calculated	20,910			
Temperature °F.	67			
Carbon Dioxide, Calculated	381			
Dissolved Oxygen, - chemets	0.000			
Hydrogen Sulfide	480			
Resistivity, ohms/m at 77° F.	0.420			
Suspended Oil	15			
Filtrable Solids as mg/l	22.9			
Volume Filtered, ml	850			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: The above results show no direct or indirect evidence of air contamination in this study, therefore indicating effective control against this condition is being accomplished. Our microscopic study of the filtrable solids showed them to be essentially all a very fine paraffin, therefore indicating no particular significance to the higher quantity we have encountered as compared to recent studies. We have identified no evidence of any other development of concern and therefore see no need to make any changes at this time.

Form No. 3

By Waylan C. Martin, M.A.

cc: Mr. Bryant Bradley, Ozark Training & Consulting, Austin
Mr. Cy Jones, Hobbs

XI

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 98943

TO: Mr. Dan Westover
12777 Jones Road, Suite 375, Houston, TX

SAMPLE RECEIVED 9-1-89

RESULTS REPORTED 9-8-89

COMPANY Greenhill Petroleum Corporation LEASE Lovington Paddock/San Andres Unit

FIELD OR POOL Lovington

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from water supply well #1. 9-1-89 ULB 51 T 17S R 36E

NO. 2 Raw water - taken from water supply well #2. 9-1-89 ULC 51 T 17S R 36E

NO. 3 :

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0025	1.0018		
pH When Sampled	7.2	7.4		
pH When Received	7.03	7.34		
Bicarbonate as HCO_3	229	249		
Supersaturation as $CaCO_3$	8	4		
Undersaturation as $CaCO_3$	---	---		
Total Hardness as $CaCO_3$	370	164		
Calcium as Ca	120	51		
Magnesium as Mg	17	9		
Sodium and/or Potassium	171	130		
Sulfate as SO_4	99	89		
Chloride as Cl	320	107		
Iron as Fe	0.48	0.64		
Barium as Ba	0	0		
Turbidity, Electric	3	5		
Color as Pt	7	3		
Total Solids, Calculated	956	634		
Temperature °F.	65	66		
Carbon Dioxide, Calculated	25	16		
Dissolved Oxygen, Winkler - Chemets	4.7	3.0		
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	6.75	12.25		
Suspended Oil				
Filtrable Solids as mg/l	2.1	3.2		
Volume Filtered, ml	10,000	1,000		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: The primary significance in the above results at water well #1 is that we again identified only a very minor amount of sand in the filtrable solids. This generally confirms the results of the sample taken 7-27-89 and reported on laboratory #789270 that the previously high level of sand was temporary. We also identified no significant sand in the suspended material at water well #2. In general, we find the current chemical and physical properties of these waters to be satisfactory, thereby indicating no need for any action.

Form No. 3

By Waylan C. Martin, M.A.

cc: Mr. Bryant Bradley, Ozark Training & Consulting, Austin
Mr. Cy Jones, Hobbs

3 PRECIPITATION

Calcium Carbonate Scale Prediction
Lovington San Andres Unit
Paragon Engineering Services

Water "A": 50% Lovington WSW #1 +50% WSW #2, Analysis No. 1188285
Water "B": Calculated produced water analysis assuming injection water is 56% produced & 44% source. Analysis No. 1188290
Analysis: Martin Water Laboratories, Inc.
Date Reported: 12/07/88.

Hypothetical Composition of Mixed Waters
mg/l

% Water "A"	100	80	44	40	20	0
% Water "B"	0	20	56	60	80	100
Components:						
CATIONS						
Calcium, Ca	138.50	646.18	1560.00	1661.54	2169.21	2676.89
Magnesium, Mg	15.50	122.82	316.00	337.46	444.79	552.11
Iron, Fe	1.09	1.74	2.90	3.03	3.68	4.32
Barium, Ba	0.00	0.00	0.00	0.00	0.00	0.00
Sodium, Na	150.00	1931.43	5138.00	5494.29	7275.71	9057.14
ANIONS						
Chloride, Cl	323.00	3555.86	9375.00	10021.57	13254.43	16487.29
Sulfate, SO4	99.50	655.04	1655.00	1766.11	2321.64	2877.18
Carbonate, CO3	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate, HCO3	223.00	766.57	1745.00	1853.71	2397.29	2940.86
Tot. Dsol'd Solids	950.59	7679.63	19791.90	21137.71	27866.75	34595.79
Measured pH Values	7.00		6.70			
1/H+ = 10^pH	10000000		5011872.34			
H+ = 1/10^pH	.0000001	.0000001355	.0000001995	.000000207	.000000242	.000000278
1/H+ = 10^pH		7377619.17		4839445.40	4129154.49	3600678.77
Calculated pH Values		6.87		6.68	6.62	6.56

Calcium Carbonate Solubility Calculation.

1. Calculate molar ionic strength of water, (u).
   (u) = sum of (mg/l x Conv. Factor) for all ions.

	Conv. Factor						
Ca	.00005	.006925	.032309	.078000	.083077	.108461	.133845
Mg	.000082	.001271	.010071	.025912	.027672	.036472	.045273
Ba	.000015	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Na	.000022	.003300	.042491	.113036	.120874	.160066	.199257
Cl	.000014	.004522	.049782	.131250	.140302	.185562	.230822
SO4	.000021	.002090	.013756	.034755	.037088	.048754	.060421
CO3	.000033	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
HCO3	.000008	.001784	.006133	.013960	.014830	.019178	.023527
u =		.02	.15	.40	.42	.56	.69

Calcium Carbonate Stability Index (Cont.)

Water: "A"	100	80	44	40	20	0
Water: "B"	0	20	56	60	80	100

2. Determine K from Stiff & Davis graph for (u); pCa and pAlk are calculated by this program from the equations below.

pCa = log(1/mols Ca++/Liter)
pAlk = log(1/Equiv. Total Alk/Liter)

Temperature: 80F (26.7C)
120F (49C)

Look Up K:						
K for 80F	2.06	2.60	3.07	3.08	3.21	3.29
K for 120F	1.68	2.16	2.56	2.58	2.70	2.78
Calculated pCa	2.46	1.79	1.41	1.38	1.27	1.18
Calculated pAlk	2.44	1.90	1.54	1.52	1.41	1.32

3. Calculate the Stiff & Davis CaCO3 Stabillity Index (SI).

SI = pH - (K + pCa + pAlk)

(K + pCa + pAlk)						
At 80F =	6.96	6.29	6.02	5.98	5.88	5.78
At 120F =	6.58	5.85	5.51	5.48	5.37	5.27
CaCO3 SI =						
At 80F =	.04	.57	.68	.70	.73	.77
At 120F =	.42	1.01	1.19	1.20	1.24	1.28

SI = Calcium Carbonate Stability Index. A positive value indicates the water has a tendency to precipitate CaCO3 under these conditions. A negative SI indicates the water is non-scaling .

Note: All calculations above are made and stored in the computer to eleven significant figures. Only eight decimal places are shown in this print out.

"CO_3" I_s Across System

Calculation of Oddo & Thomson CaCO3 Scaling Index - Is
Two Phase System (Water & Gas)
Oddo and Thomson Method
Lovington San Andres Unit
Paragon Engineering Services

Water: Calculated produced water composition. See CaCO3 calculation.
Analysis: Martin Water Laboratories, Inc. No. 1188286
Date Reported: 12/07/88.
Approximate Location in System: Reservoir

Is = D + (1.549 x 10^-2 x T) - (4.26 x 10^-6 x T^2)
- (7.44 x 10^-5 x P) + 0.919u - 2.52(u)^0.5 + 5.89

P =	2000.00	psia	
X =	.05	Mole Fraction CO2	
Ca =	.066755	Moles/l	
Alk =	.048211		
D =	-5.80922	log[(C)(Alk)^2/(P)(X)]	
T =	120.00	Temp, F	
u =	.69	Molar Ionic Strength	

C = Ca(mg/l)/40100 = .066755
Alk = (HCO3 + CO3(mg/l))/61000 = .0482108
D = log(((C)(Alk)^2/((P)(X))) = -5.80922

Variable	Value	x Constant	=	Product
D	-5.80922	1.00	=	-5.81
T	120.00	.01549	=	1.86
(T)(T)	14400.00	-.000004	=	-.06
P	2000.00	-.000074	=	-.15
u	.69	.919	=	.63
(u)^0.5	.8306624	-2.52	=	-2.09
				5.89
		Sum = Is	=	.27

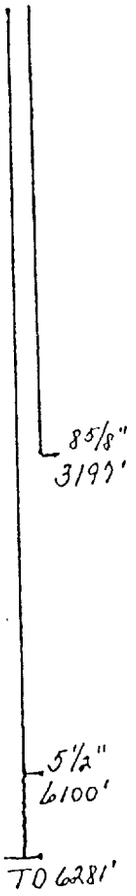
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 5	660' FSL & 1980' FWL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
9-24-54

Deepen hole to 6350



Surface Casing

Size: 8-5/8 " Cemented with 1550 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by calc

Hole size:

Long String

Size: 5-1/2" Cemented with 450 SX

TOC: 2876 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6281'

Injection Interval

-6100' feet to 6281' feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC set in a 5½" - Baker A D-1 packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: - Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

LPU #5

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

GREENHILL PETROLEUM CORPORATION

Composite LSA/LP Unit
Lea County, New Mexico

Scale 1" = 1000'

N

R 36 E R 37 E

T 16 S

T 17 S

11

INJECTION WELL DATA SHEET

OPERATOR		LEASE		
GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK		
# 7	330' FEL & 330' FSL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Spud Date
8-1-53

Raise the cement Top to satisfaction of NMOC

8 5/8" 2104'

5½" 6085'

TD 6260'

Tubular Data

Surface Casing

Size: 8-5/8" " Cemented with 800 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by calc

Hole Size:

Long String

Size: 5-1/2" " Cemented with 225 SX

TOC: 4859 feet determined by 80%

Hole Size: 7-7/8"

Total Depth: 6260'

Injection Interval

6085 feet to 6260 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC - (material) set in a

– (brand & model) packer at 6000 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

GREENHILL PETROLEUM CORPORATION

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

Composite LSALP Unit
Lea County, New Mexico

Scale 1" = 1000'

LPU #7

T 16 S
T 17 S

R 36 E | R 37 E

1 2 3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 33 34 35 36

LPU 100 LPU 99 LPU 98 LPU 97 LPU 96 LPU 95 LPU 94 LPU 93 LPU 92 LPU 91 LPU 90 LPU 89 LPU 88 LPU 87 LPU 86

LSA 68 LSA 67 LSA 66 LSA 65 LSA 64 LSA 63 LSA 62

N

23

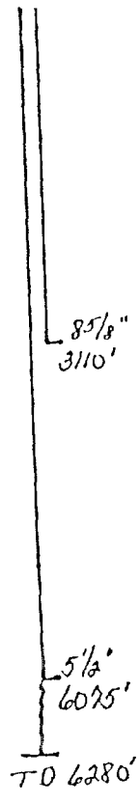
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#16	660' FNL & 660' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-08-54

deepen to 6350'



Surface Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 450 SX

TOC: 3930 feet determined by 70% calc

Hole size: 7 7/8

Total Depth: 6280'

Injection Interval

6075 feet to 6280 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with - set in a - 5½" packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

R 36 E R 37 E

T 16 S

T 17 S

LPU #16

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

GREENHILL PETROLEUM CORPORATION

Composite LSA/LP Unit
Lea County, New Mexico

Scale 1" = 1000'

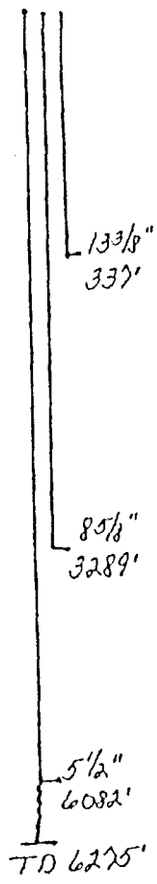
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#18	2310' FNL & 330' FEL	35	16S ,	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-17-56

Deepen to 6275 and raise cement top to 6350



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface , feet determined by calc

Hole size:

Intermediate Casing

Size: 8-5/8" Cemented with 2150 SX

TOC: Surface feet determined by calc

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4430 feet determined by temp survey

Hole size:

Total Depth: 6275'

Injection Interval

6082 feet to 62-75 feet
(perforated or open-hole, indicate which)

Tubing size -2 3/8 lined with - set in a 5 1/2" packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

GREENHILL PETROLEUM CORPORATION

Composite LSA/LPU Unit
Lea County, New Mexico

Scale 1" = 1000'

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

LPU # 18

LPU 100

LPU 99

LPU 98

LPU 97

LPU 96

LPU 95

LPU 94

LPU 93

LPU 92

LPU 91

LPU 90

LPU 89

LPU 88

LPU 87

LPU 86

LSA 68

LSA 67

LSA 66

LSA 65

LSA 64

LSA 63

LSA 62

R 36 E | R 37 E

T 16 S

T 17 S

1 2 3 4 5 6 7 8 9 10 11 12

25 26 27 28 29 30 31 32 33 34 35 36

N

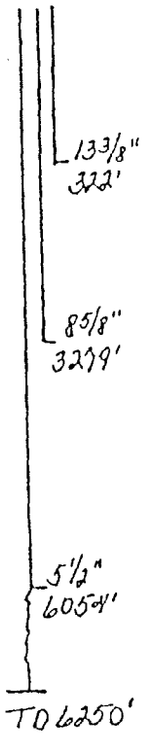
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#37	330' FSL & 2290' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-6-53

Deepen to 6325



Surface Casing

Size: 13-3/8" Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8" Cemented with 930 SX

TOC: 1235 feet determined by temp survey

Hole size: 11

Long String

Size: 5-1/2" Cemented with 250 SX

TOC: 4290 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6250'

Injection Interval

6054 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - 5 1/2" packer

at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

LPu # 37

GREENHILL PETROLEUM CORPORATION

Composite LSALP Unit
Lea County, New Mexico

Scale 1" = 1000'

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

R 36 E R 37 E

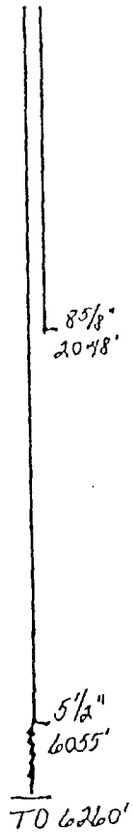
T 16 S
T 17 S

N

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#41	810' FSL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

deepen to 6344 and raise cement top to meet NMOC specifications



Tubular Data

Surface Casing

Size: 8-5/8" Cemented with 875 SX

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 275 SX

TOC: 4700 feet determined by temp survey

Hole size:

Total Depth: 6260'

Injection Interval

6044 feet to 6260 feet
(perforated or open-hole, indicate which)

Tubing size - 2 3/8 lined with - set in a -5 1/2" packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

LPU #41

GREENHILL PETROLEUM CORPORATION

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

Composite LSALP Unit
Lea County, New Mexico

Scale 1" = 1000'

T 16 S
T 17 S

R 36 E
R 37 E

LPU 100
LPU 99
LPU 98
LPU 97
LPU 96
LPU 95
LPU 94
LPU 93
LPU 92
LPU 91
LPU 90
LPU 89
LPU 88
LPU 87
LPU 86

LSA 68
LSA 67
LSA 66
LSA 65
LSA 64
LSA 63
LSA 62

1 2 3 4 5 6 7 8 9 10 11 12
25 26 27 28 29 30 31 32 33 34 35 36

140

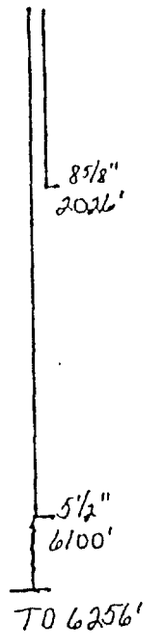
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#56	1650' FNL & 1733' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-7-53

deepen to 6325



Surface Casing

Size: 8-5/8" Cemented with 975 SX

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4139 feet determined by temp survey

Hole size: 7⅞

Total Depth: 6256'

Injection Interval

6100 feet to 6256 feet
(perforated or open-hole, indicate which)

Tubing size 2⅜" lined with - set in a - 5½" packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

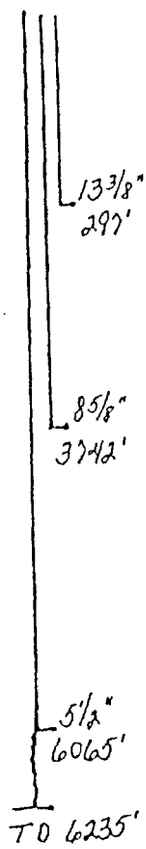
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#58	1980' FNL & 560' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-53

Deepen hole to 6325'



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17½

Intermediate Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: 588 feet determined by temp survey

Hole size: 11

Long String

Size: 5-1/2" Cemented with ~~500~~ 550 SX

TOC: 3795 feet determined by temp survey

Hole size: 7⅞

Total Depth: 6235

Injection Interval

6065 feet to 6235 feet
(perforated or open-hole, indicate which)

Tubing size 2⅜ lined with - set in a - 5½" packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

LPU # 67

GREENHILL PETROLEUM CORPORATION

Composite LSA/LPU Unit
Lea County, New Mexico

Scale 1" = 1000'

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

LPU 100

LPU 99

LPU 98

LPU 97

LPU 96

LPU 95

LPU 94

LPU 93

LPU 92

LPU 91

LPU 90

LPU 89

LPU 88

LPU 87

LPU 86

LPU 69

LSA 68

LSA 67

LSA 66

LSA 65

LSA 64

LSA 63

LSA 62

T 16 S
T 17 S

R 36 E
R 37 E

1 2 3 4 5 6 7 8 9 10 11 12
25 26 27 28 29 30 31 32 33 34 35 36

N

R 36 E | R 37 E

T 16 S

T 17 S

LPU 86 | LPU 87 | LPU 88 | LPU 89 | LPU 90 | LPU 91 | LPU 92 | LPU 93 | LPU 94 | LPU 95 | LPU 96 | LPU 97 | LPU 98 | LPU 99 | LPU 100

LSA 62 | LSA 63 | LSA 64 | LSA 65 | LSA 66 | LSA 67 | LSA 68

LPU #58

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

GREENHILL PETROLEUM CORPORATION

Composite LSA/LP Unit
Lea County, New Mexico

Scale 1" = 1000'

148

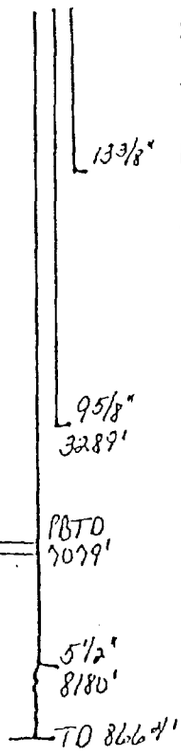
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#67	~~2210'~~ 2310' FSL & 660' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
1-23-54

Raise cement to meet Nmoc specifications



Surface Casing

Size: 13-3/8" Cemented with 275 SX

TOC: Surface feet determined by calc

Hole size: 17 1/2

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX 150 at and Below Du Tool

TOC: 2497 feet determined by 70% calc

Hole size: 12 1/2

Long String

Size: 5-1/2" Cemented with 810 SX

TOC: 4525 feet determined by temp survey

Hole size: 8 3/4

Total Depth: 8664'

Injection Interval

- 6136 feet to 6286 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with - set in a - 5 1/2" packer at 6000 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

LPU #67

GREENHILL PETROLEUM CORPORATION

Composite LSA/LPU Unit
Lea County, New Mexico

Scale 1" = 1000'

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

LPU 100

LPU 99

LSA 62

LSA 64

LSA 63

LPU 97

LPU 98

LSA 68

LPU 96

LPU 95

LPU 89

LPU 93

LPU 92

LSA 67

LPU 88

LPU 90

LPU 91

LPU 94

LSA 65

LSA 66

LPU 87

LPU 86

T 16 S

T 17 S

R 36 E

R 37 E

N

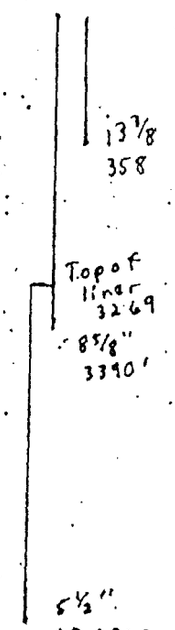
165

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. (OPERATOR) — Lovington Paddock (LEASE)

71 (WELL NO.) — 660 FSL & 660 FEL (FOOTAGE LOCATION) — I (SEC.) — T17S-R36E (TOWNSHIP RANGE)

Tubular Data



nd 5/6/56

Surface Casing

Size: 13⅜ " Cemented with 350 ~~1950~~ SX

TOC: Surface feet determined by circulatin

Hole size: 17½

Intermediate Casing

Size: 8⅝ " Cemented with 1950 SX

TOC: 175 ~~surface~~ feet determined by File calc.

Hole Size: _____

Long String

Size: 5½ " Cemented with 560 SX

TOC: 5000 ~~5019~~ feet determined by File 80% calc

Hole Size: _____

Total Depth: 6300

Injection Interval

~~6160~~ feet to ~~6279~~ feet
(perforated or open-hole, indicate which)

Tubing size — 2⅜ lined with — IPC (material) set in a — 5½ " (brand & model) packer at ~~6000~~ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation — Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? production
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

R 36 E | R 37 E

T 16 S

T 17 S

LPU 86 | LPU 87 | LPU 88 | LPU 89 | LPU 90 | LPU 91 | LPU 92 | LPU 93 | LPU 94 | LPU 95 | LPU 96 | LPU 97 | LPU 98 | LPU 99 | LPU 100

LSA 62 | LSA 63 | LSA 64 | LSA 65 | LSA 66 | LSA 67 | LSA 68

25 | 30 | 29 | 28

26 | 27

35 | 34

36 | 31 | 32 | 33

2 | 1 | 6 | 5 | 4 | 3

12 | 7 | 8 | 9 | 10 | 11

LPU #7

LOVINGTON SAN ANDRES

LOVINGTON PADDOCK

GREENHILL PETROLEUM CORPORATION

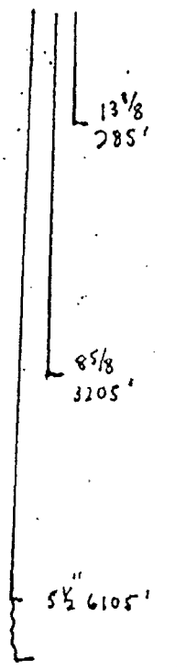
Composite LSA/LP Unit
Lea County, New Mexico

Scale 1" = 1000'

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation			Lovington Paddock	
OPERATOR		LEASE		
# 1	1655' FSL & 330' ~~FEL~~ FWL	30	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
8-25-54



Tubular Data

Surface Casing

Size: 13-3/8 ". Cemented with 300 SX

TOC: Surface feet determined by calc

Hole size: 15"

Intermediate Casing

Size: 8-5/8 " Cemented with 1600 SX

TOC: Surface feet determined by Circ calc

Hole Size: 10-3/4"

Long String

Size: 5-1/2 " Cemented with 425 SX

TOC: 4080 feet determined by 70%

Hole Size: 7-7/8"

Total Depth: 6277'

Injection Interval

- feet to - feet
(perforated or ~~open-hole~~, indicate which)

Tubing size - lined with - (material) set in a - (brand & model) packer at - feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation -

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Above Glorieta

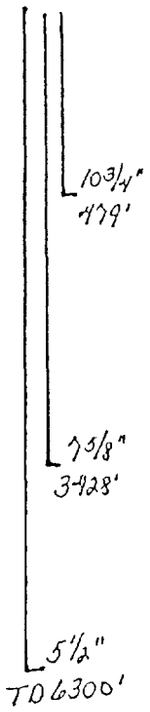
I Outside AOR? 2

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 2	1650' FSL & 330' FEL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-31-53



Surface Casing

Size: 10-3/4 " Cemented with 300 SX

TOC: Surface feet determined by calc

Hole size: 13-3/4"

Intermediate Casing

Size: 7-5/8" Cemented with 1540 SX

TOC: Surface feet determined by calc

Hole size: 9-7/8"

Long String

Size: 5-1/2" Cemented with 730 SX

TOC: 3231 feet determined by temp survey

Hole size: 6-3/4"

Total Depth: 6300'

Injection Interval

5394 feet to 6300 feet
(perforated or open-hole, indicate which)

Tubing size 2-7/8" lined with IPC set in a - packer

at 5394 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

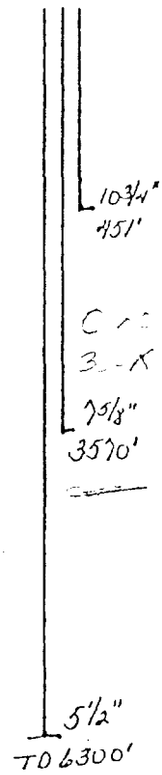
3

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 3	1980' FSL & 1980' FEL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
11-03-53



Surface Casing

Size: 10-3/4 " Cemented with 300 SX

TOC: Surface feet determined by calc

Hole size: 13-3/4"

Intermediate Casing

Size: 7-5/8" Cemented with 1740 SX

TOC: Surface feet determined by calc

Hole size: 9-7/8"

Long String

Size: 5-1/2" Cemented with ~~1200~~ SX

TOC: 3225 feet determined by temp survey

Hole size: 6-3/4"

Total Depth: 6300'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with set in a - packer

at feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: -

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

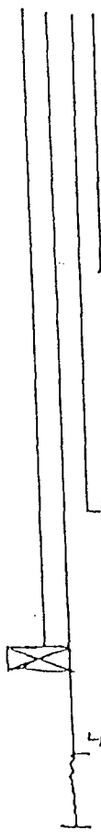
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#10	1980' FNL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 4-4-39



Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by Circulation

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 250 SX

TOC: 2246 feet determined by Calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 225 SX

TOC: 3189 feet determined by Calc

Hole Size: 8-3/4"

Total Depth: 5110'

Injection Interval

4600 feet to 5110 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a Water Flood-tension packer (brand & model) packer at 4580 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

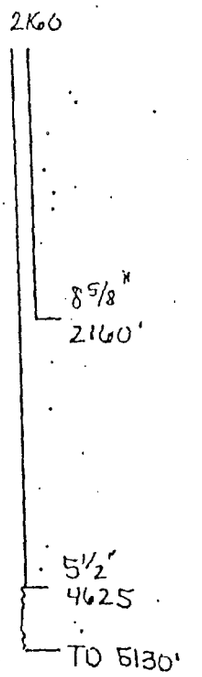
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation (OPERATOR) — Lovington San Andres Unit (LEASE)

#5	660 FNL & 600 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 1/30/40



Tubular Data

Surface Casing

Size: 8 5/8" Cemented with ~~400~~ 500 SX

TOC: Surface feet determined by ~~calc~~ circ.

Hole size: 11"

Intermediate Casing

Size: _____" Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2" Cemented with ~~200~~ 250 SX

TOC: 3535' feet determined by 80% calc

Hole Size: 7 7/8"

Total Depth: 5130'

Injection Interval

4625 feet to 5130 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a waterflood tension packer (brand & model) packer at 4605 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

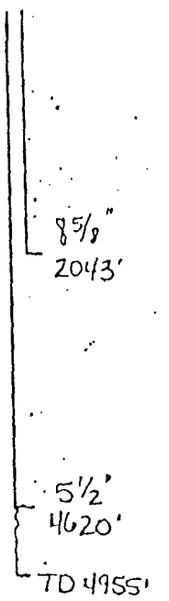
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

6

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#7	1980 FNL & 1980 FEL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Completed 1/5/49

deepen to Grayburg 4990

Surface Casing

Size: 8 5/8" Cemented with 485 SX

TOC: Surface feet determined by circ.. ~~calc.~~

Hole size: 10 1/4

Intermediate Casing

Size: _____" Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2" Cemented with 375 SX

TOC: 1711 feet determined by 80% calc.

Hole Size: 7 11/4

Total Depth: 4955'

Injection Interval

4620 feet to 4990 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC set in a
(material)

----- packer at 4530 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
No

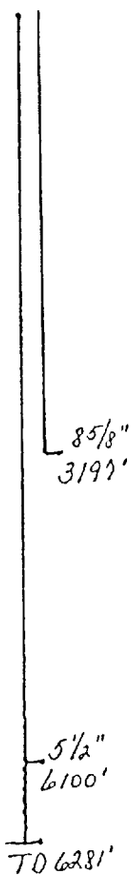
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 5	660' FSL & 1980' FWL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
9-24-54



Surface Casing

Size: 8-5/8 " Cemented with 1550 SX

TOC: Surface feet determined by calc Circ

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by calc

Hole size:

Long String

Size: 5-1/2" Cemented with 450 SX

TOC: 2876 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6281'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: -

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

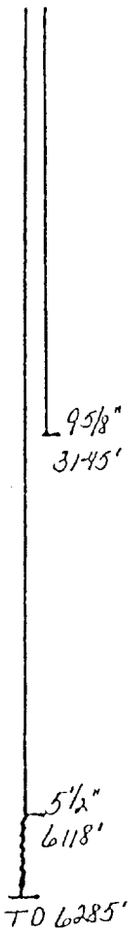
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 6	480' FSL & 2280' FEL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-11-54



Surface Casing

Size: 9-5/8 " Cemented with 1800 SX

TOC: Surface feet determined by calc circ

Hole size: 12-3/4"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by calc

Hole size:

Long String

Size: 5-1/2" Cemented with 475 SX

TOC: 3974 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6285'

Injection Interval

5909 feet to 6285 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a Guiberson packer at 5909 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

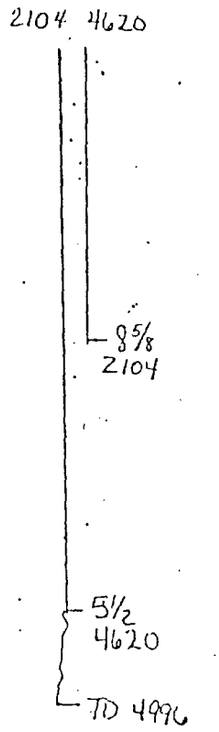
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#2	2130 FEL & 480 FSL	25	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Well size not known

Tubular Data



Surface Casing

Size: 8 5/8 " Cemented with 500 SX

TOC: Surface feet determined by calc.

Hole size: 11

Intermediate Casing

Size: _____" Cemented with _____SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 450 SX

TOC: 2168 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 4996

Injection Interval

— feet to — feet

(perforated or open-hole, indicate which)

Date Completed
11/7/44

Tubing size — lined with — (material) set in a — (brand & model) packer at — feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

I

10

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#1	300 FSL & 990 FEL	25	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 10/4/45

Converted to Injection 6/29/65

2096' 4629

8 5/8

2096

5½ 4629

TD 5060

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 425 (475) SX

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: _____" Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 425 (525 - 450) SX

TOC: 2313 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 5060'

Injection Interval

4600' feet to 5060' feet

(perforated or (open-hole,) indicate which)

Tubing size 2" lined with IPC (material) set in a _____ (brand & model) packer at 4575' feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

11
P

INJECTION WELL DATA SHEET

OPERATOR		LEASE		
GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK		
# 7	330' FEL & 330' FSL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Spud Date
8-1-53

previously identified as a problem well. will correct as outlined on the attached C 103

Tubular Data

Surface Casing

Size: 8-5/8" " Cemented with 800 SX

TOC: Surface feet determined by calc C/C

Hole size: 11"

8⅝" 2104'

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by calc

Hole Size:

5½" 6085'

Long String

Size: 5-1/2" " Cemented with 225 SX

TOC: 4859 feet determined by 80%

Hole Size: 7-7/8"

Total Depth: 6260'

TD 6260'

Injection Interval

– feet to – feet
(perforated or open-hole, indicate which)

Tubing size – lined with – (material) set in a

– (brand & model) packer at – feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation –

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Submit 3 Copies to Appropriate District Office

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

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

73

Revised 1-1-89

WELL API NO.

5. Indicate Type of Lease STATE XX FEE ☐

6. State Oil & Gas Lease No. B7766

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: LOVINGTON PADDOCK UNIT

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER INJECTION

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 41

3. Address of Operator: 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077

9. Pool name or Wildcat: LOVINGTON PADDOCK

4. Well Location
Unit Letter N : 810 Feet From The SOUTH Line and 2130 Feet From The WEST Line
Section 36 Township 16S Range 36E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	PLUG AND ABANDONMENT	☐
PULL OR ALTER CASING	☐			CASING TEST AND CEMENT JOB	☐		
OTHER: CONVERT TO INJECTION & RAISE TOC	X			OTHER:			☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) RUN GR-CCL-CBL FROM 6025' TO 200' ABOVE TOC. RIH W/PERF GUN AND PERFORATE 100' ABOVE TOC.
2) MIX AND PUMP 600 SXS CLASS C FOLLOWED BY 300 SXS CLASS C.
3) RUWL AND RUN TS TO LOCATE NEW TOC. SPOT 350 GAL. 20% NEFE HCL ACID.
4) TIH W/NEW 5 1/2" PKR. ON 2 3/8 IPC STRING AND SET PKR. AT 6000.
5) INSTALL INJECTION WELLHEAD AND PRESSURE TEST TO MEET STATE REQUIREMENTS.
6) STIMULATE W/15 TONS CO^2 AND 10,000 GAL. 20% NEFE HCL ACID.

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

SIGNATURE Michael Newport TITLE Land Manager-Permian Basin DATE 5-8-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies to Appropriate District Office

Energy, Minerals and Natural Resources Department

Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

WELL API NO.

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. 9077-2

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: LOVINGTON PADDOCK UNIT

1. Type of Well: OIL WELL [ ] GAS WELL [ ] OTHER INJECTION

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 7

3. Address of Operator: 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077

9. Pool name or Wildcat: LOVINGTON PADDOCK

4. Well Location
Unit Letter P : 330 Feet From The SOUTH Line and 330 Feet From The EAST Line

Section 25 Township 16S Range 36E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER: CONVERT TO INJ. & RAISE TOC. [X]		OTHER: [ ]	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) RUWL & RUN GR-CCL-CBL FROM (6050) TO 200' ABOVE TOC. RIH W/PERF. GUN AND PERFORATE 100 ABOVE TOC.
2) MIX & PUMP 600 SX CLASS C FOLLOWED BY 300 SX CLASS C.
3) RUWL & RUN TS TO LOCATE NEW TOC.
4) SPOT 200 GAL. 20% NEFE HCL ACID.
5) TIH W/NEW 5 1/2" PKR. ON 2 3/8" IPC AND SET PKR. 6000'.
6) STIMULATE W/15 TONS CO^2 AND 10000 GAL. NEFE HCL ACID.

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

SIGNATURE Michael J. Newport TITLE Land Manager-Permian Basin DATE 5-8-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

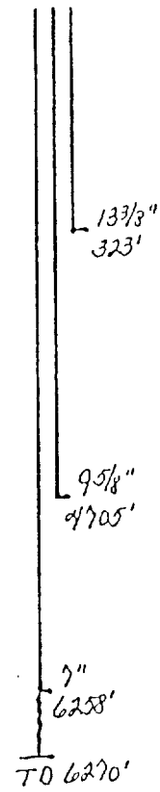
12

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 8	660' FSL & 660' FWL	30	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-20-53



Surface Casing

Size: 13-3/8 " Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8" Cemented with 2700 SX

TOC: Surface feet determined by calc

Hole size: 12-1/4"

Long String

Size: 7" Cemented with 450 SX

TOC: 4113 feet determined by 70% calc

Hole size: 8-3/4"

Total Depth: 6270'

Injection Interval

6109 feet to 6188 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a Howco packer at 6076 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

I

16

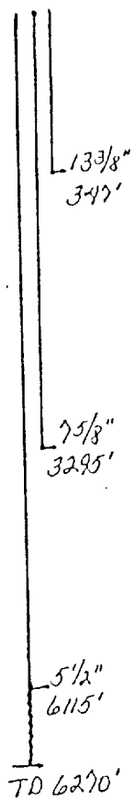
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#11	940' FNL & 1980' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
9-01-53

Converted to
Injection
12/66



Surface Casing

Size: 13-3/8 " Cemented with 330 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 7-5/8" Cemented with 2230 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 350 SX

TOC: 4208 feet determined by 70% calc

Hole size: 7-7/8"

Total Depth: 6270'

Injection Interval

6115 feet to 6270 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a - packer

at 6034 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

I.

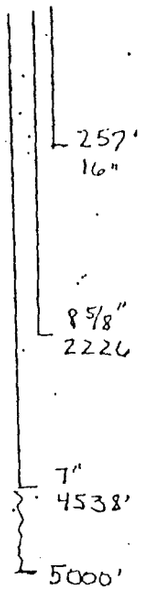
17

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#6	660 FNL & 660 FWL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 6/15/45

Converted to Injection 3/28/63



Tubular Data

Surface Casing

Size: 16 " Cemented with 100 SX

TOC: Surface feet determined by calc.

Hole size: 18

Intermediate Casing

Size: 8 5/8 " Cemented with 150 SX

TOC: 1271 feet determined by calc 50%

Hole Size: 11

Long String

Size: 7 " Cemented with 200 SX

TOC: 2229 feet determined by 80% calc

Hole Size: 8

Total Depth: 5000'

Injection Interval

4538 feet to 5000 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a ----- (brand & model) packer at 4434 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

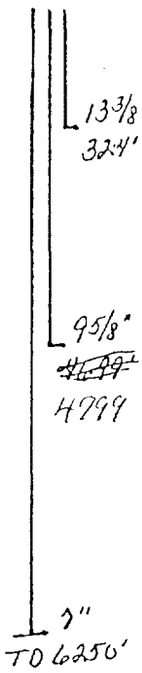
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#12	781' FNL & 660' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
4-05-53



Surface Casing

Size: 13-3/8 " Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17 1/4

Intermediate Casing

Size: 9-5/8" Cemented with 2600 SX

TOC: 310 feet determined by ~~calc~~ Temp Survey

Hole size: 12 1/4

Long String

Size: 7" Cemented with 450 SX

TOC: 2675 feet determined by 70% calc

Hole size: 8 1/4

Total Depth: 6250'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

I

19
P

INJECTION WELL DATA SHEET

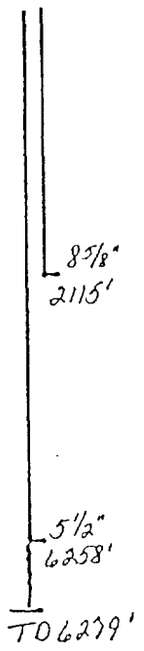
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#13	880' FNL & ~~331~~ 330' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
2-13-53

4-86
Squeeze Csg leak
2078-2142 w/200 SX

9/81 Shoot 3 holes
at 2114 Cmt
w/ 295 SX



Surface Casing

Size: 8-5/8 " Cemented with 650 SX

TOC: Surface feet determined by calc

Hole size: 12 ¼

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 225 SX

TOC: 5185 feet determined by 70% calc

Hole size: Cst 7 ⅞

Total Depth: 6279'

Injection Interval

6087 feet to 6279 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6087 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

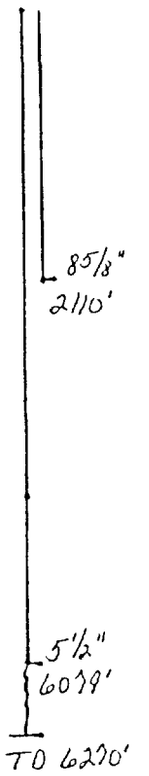
20

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#14	990 ~~940~~' FNL & 1741' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-27-53



Surface Casing

Size: 8-5/8 " Cemented with 975 SX

TOC: Surface feet determined by calc Circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 3918 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6270'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

I.

21

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#4	660 FNL & 1980 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 1/3/39

Converted to Injection 3/28/63

13" 293'

9 5/8" 3071'

7" 4634

TD 5012

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by ~~calc~~ circ.

Hole size: 14 3/4

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SX

TOC: Surface feet determined by calc

Hole Size: 11 1/4

Long String

Size: 7 " Cemented with 300 SX

TOC: 1910' feet determined by 80% calc.

Hole Size: 8 1/4

Total Depth: 5012'

Injection Interval

4634 feet to 5012 feet

(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a _____ (brand & model) packer at 4586 feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

I

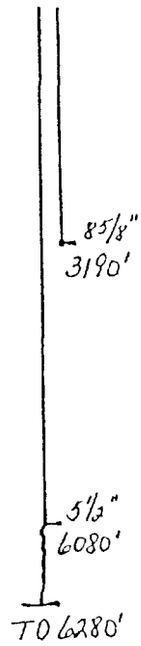
22

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#15	810' FNL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
4-13-54



Surface Casing

Size: 8-5/8" Cemented with 1800 SX

TOC: Surface feet determined by calc

Hole size: //

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 585 SX

TOC: 3765 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6280'

Injection Interval

6080 feet to 6280 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - . packer

at 6018 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

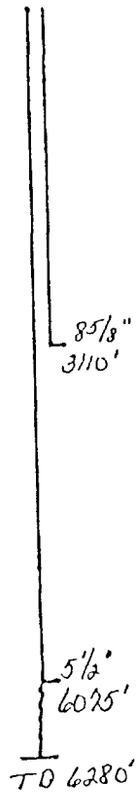
23

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#16	660' FNL & 660' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-08-54



Surface Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: //

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 450 SX

TOC: 3930 feet determined by 70% calc

Hole size: 7 7/8

Total Depth: 6280'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

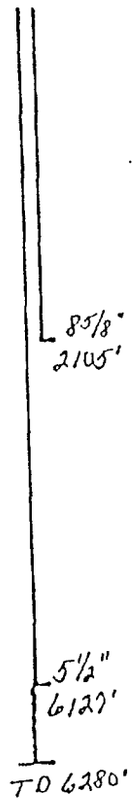
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#17	660' FNL & 330' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
5-15-55

Converted
to Injection
12/66



Surface Casing

Size: 8-5/8" Cemented with 975 SX

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 465 SX

TOC: 3805 feet determined by temp survey

Hole size:

Total Depth: 6280'

Injection Interval

6129 feet to 6280 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6056 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

25
P

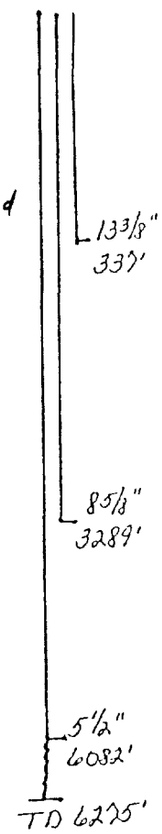
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#18	2310' FNL & 330' FEL	35	16S ,	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-17-56

Previously identified as a problem well. Will correct as outlined on the attached C-103



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by calc Circ

Hole size: 17 1/4

Intermediate Casing

Size: 8-5/8" Cemented with 2150 SX

TOC: Surface feet determined by calc Circ

Hole size: 11 1/4

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4430 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6275'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: -

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Submit 3 Copies to Appropriate District Office

Energy, Minerals and Natural Resources Department

25

Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

WELL API NO.

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. E-1678-1

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: LOVINGTON PADDOCK UNIT

1. Type of Well: OIL WELL [ ] GAS WELL [ ] OTHER INJECTION

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 18

3. Address of Operator: 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077

9. Pool name or Wildcat: LOVINGTON PADDOCK

4. Well Location
Unit Letter H : 2310 Feet From The NORTH Line and 330 Feet From The EAST Line
Section 35 Township 16S Range 36 E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER: CONVERT TO INJ. RAISE CMT. TOP [X]		OTHER: [ ]	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) MIRU DRILLOUT TO 6350'. RUN GR-CCL-CBL FROM 6050 TO 200' ABOVE TOC.
2) RIH W/PERF GUN AND PERFORATE 100 ABOVE TOC.
3) MIX & PUMP 600 SXS & 300 SXS CLASS C.
4) RUWL AND RUN TS TO LOCATE NEW TOC. TIH W/4 3/4 BIT, CLEANOUT TO TOP OF CIBP. PRESSURE TEST SQUEEZE TO 500 PSI. SPOT 500 GAL. 20% NEFE ACID IN HOLE.
5) TIH W/5 1/2" PKR. ON 2 3/8" IPC. SET PKR. AT 6000'. PRESSURE TEST ANNULUS FOR 5 MIN. INSTALL INJECTION WELLHEAD AND PRESSURE TEST TO MEET STATE REQUIREMENTS.
6) STIMULATE WITH 15 TONS CO^2 FOLLOWED BY 10,000 GALS 20% NEFE HCL ACID.

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

SIGNATURE Michael Newport TITLE Land Manager-Permian Basin DATE 5-8-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

V

INJECTION WELL DATA SHEET

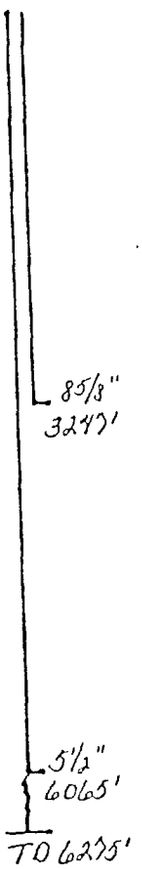
26

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#19	1980' FNL & 990' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
4-27-54

Converted
to Injection
3/74



Surface Casing

Size: 8-5/8" Cemented with 1800 SX

TOC: Surface feet determined by calc Circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String 4/65

Size: 5-1/2" Cemented with 585 SX

TOC: 3964 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6275'

Injection Interval

6065 feet to 6275 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6076 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

27

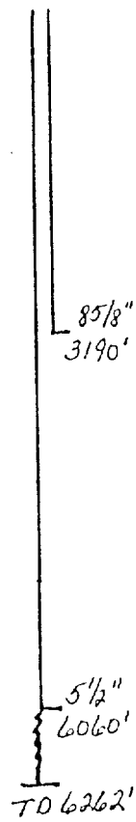
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#20	1830' FNL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-24-54

Converted
to Injection
3/74



Surface Casing

Size: 8-5/8" Cemented with 1800 SX

TOC: Surface feet determined by calc Circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 500 SX

TOC: 3535 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6262'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#11	1980 FNL & 1980 FWL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 1/40

Tubular Data

Surface Casing

Size: 13 " Cemented with 25 SX

TOC: Surface feet determined by calc

Hole size: 15

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SX

TOC: 555 feet determined by 50% calc

Hole Size: 10 1/4

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 649 feet determined by 80% calc

Hole Size: 6 1/4"

Total Depth: 4996'

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — set in a
(material)
— packer at — feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

I

29

INJECTION WELL DATA SHEET

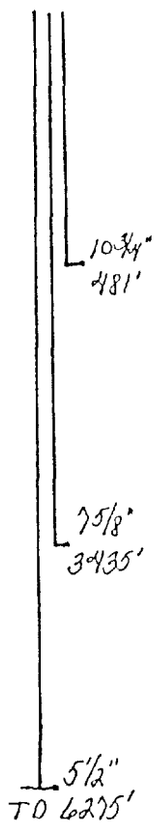
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#21	2190' FNL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
7-26-53

Converted
to Injection
2/73

5½ liner
3312-6275
w/ 180 SX
Sand top w/ 50 SX



Surface Casing

Size: 10-3/4" Cemented with 500 SX

TOC: Surface feet determined by calc Circ

Hole size: 15

Intermediate Casing

Size: 7-5/8" Cemented with 1000 SX

TOC: Surface feet determined by calc

Hole size: 9 7/8

Long String

Size: 5-1/2" Cemented with 630 SX

TOC: 3638 feet determined by temp survey

Hole size: 6 3/4

Total Depth: 6275'

Injection Interval

6103 feet to 6226 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6043 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#9	1980 FNL & 660 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 9/23/39

Tubular Data

302
330
13"

Surface Casing

Size: 13 ". Cemented with ~~250~~ 200 SX

TOC: Surface feet determined by calc Circ.

Hole size: ~~17 1/4~~ 15

2990
3080'
9 5/8"

Intermediate Casing

Size: 8 & 5/8 " Cemented with 250 500 SX

TOC: 1924 feet determined by 50% calc

Hole Size: 12

4515
4645
7"

Long String

Size: 7 " Cemented with 250 200 SX

TOC: 3074 feet determined by 80% calc

5100

Hole Size: 8 3/4

Total Depth: 5100'

Injection Interval

____ feet to ____ feet
(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ set in a
(material)
____ packer at ____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

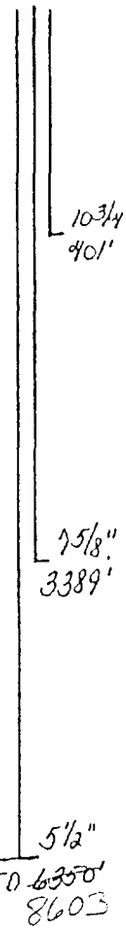
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#22	2080' FNL & 660' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
9-10-52

5½ liner
3273 - 6350



Surface Casing

Size: 10-3/4" Cemented with 400 SX

TOC: Surface feet determined by calc

Hole size: 13 3/4

Intermediate Casing 1800

Size: 7-5/8" Cemented with 2014 SX

TOC: Surface feet determined by calc

Hole size: 9 7/8

Long String 845 700

Size: 5-1/2" Cemented with ~~600~~ SX

TOC: 3581 feet determined by temp survey

Hole size: 6 3/4

Total Depth: ~~6350'~~ 8603

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

195 sx
Plug back from 8603
110 sx 8603 - 8119
60 sx 6533 - 6754
45 sx 6464 - 6303
Drill out to 6350

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

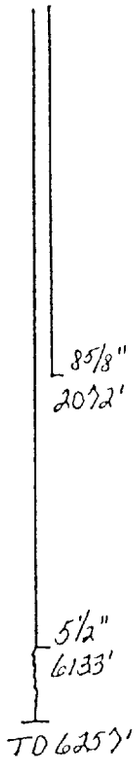
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#24	2310' FNL & 1968' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
9-12-53



Surface Casing

Size: 8-5/8" Cemented with 950 SX

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4077 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6257'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

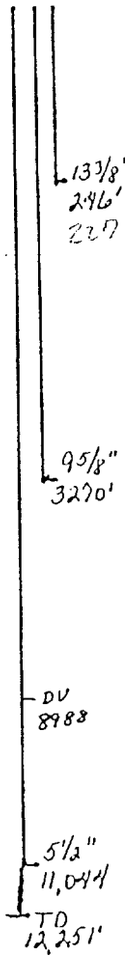
INJECTION WELL DATA SHEET

Rice Engineering		Abo SWD (State "O")		
OPERATOR		LEASE		
13	2310' FNL & 2626' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed 1-18-53

Converted to SWD (Inject thru 9730-10260)



Surface Casing

Size: 13-3/8" Cemented with 246 SX

TOC: Surface feet determined ~~by calc~~ circ

Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with 1400 SX

TOC: ~~352~~ Surface feet determined ~~by 50% calc~~ circ

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 1982 SX

TOC: 247 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 12,251

6822 at shoe
1300 Thru DV Tool at 8988

Cmt'd Bond log 1964
Top good cmt 3765
Sqzd several intervals above & below Yates point

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) East Lovington (Penn)

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

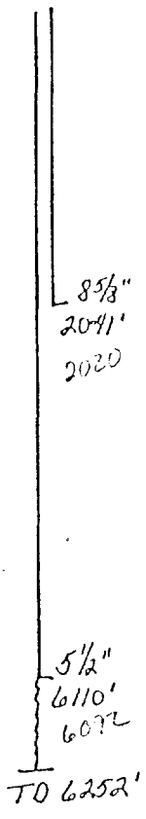
   Abo (Above)

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#26	2130' FSL & 2160' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-26-53



Surface Casing

Size: 8-5/8" Cemented with 975 SX

TOC: Surface feet determined by Circ calc

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4077 feet determined by temp survey

Hole size:

Total Depth: 6252'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

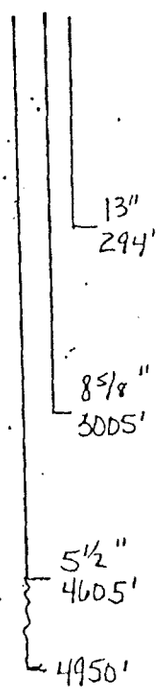
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#16	2310 FEL & 1980 FSL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 12/6/39

Converted to Injection 3/16/63



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by Circ

Hole size: 15 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SX

TOC: 1245 feet determined by Calc

Hole Size: 10 1/4

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 2343 feet determined by 80% calc

Hole Size: 6 3/4

Total Depth: 4950'

Injection Interval

4605 feet to 4950 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a _____ (brand & model) packer at 4557 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

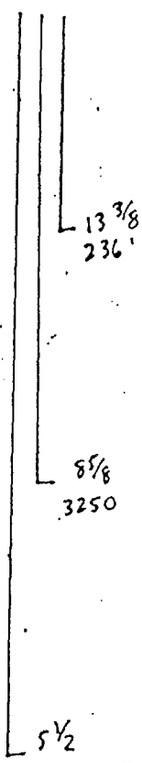
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

INJECTION WELL DATA SHEET

Texaco (OPERATOR) — State "O" (LEASE)

12 (WELL NO.) — 1650' FSL & 2310' FEL (FOOTAGE LOCATION) — 31 (SEC.) — 16S (TOWNSHIP) — 37E (RANGE)

Completed 8-08-52



Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 245 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: ~~18"~~ 16

Intermediate Casing

Size: 8-5/8" Cemented with 1800 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole Size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 700 SX

TOC: 3984 feet determined by 80% calc

Hole Size: 7-7/8"

Total Depth: 8444'

Injection Interval

____ feet to ____ feet

(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ (material) set in a ____ (brand & model) packer at ____ feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation ____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

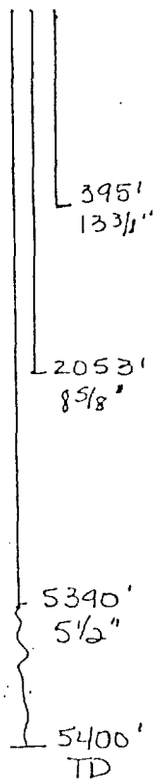
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#60	1283' FSL & 2527' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
1-31-90



Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 450 SX

TOC: Surface feet determined by circ

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 600 SX

TOC: 215 feet determined by calc

Hole Size: ~~11"~~ 12 1/4

Long String

Size: 5-1/2 " Cemented with 1450 SX

TOC: Surface feet determined by calc

Hole Size: 7-7/8"

Total Depth: 5400'

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a — (brand & model) packer at — feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

47

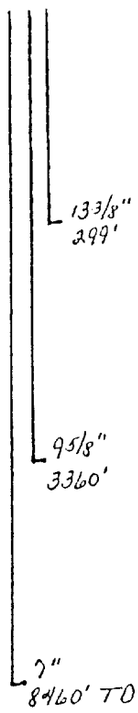
OK

INJECTION WELL DATA SHEET

Penroc		State 182 "A"		
OPERATOR		LEASE		
4	1650' FSL & 2289' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Workover Rig Spot 1968 sqzd from 6400, 5000, & 4600 w/ total 1200 SX TOC 4000 by Temp Survey



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by circ calc

Hole size: 16"

Intermediate Casing

Size: 9-5/8" Cemented with 1200 SX

TOC: Surface feet determined by calc

Hole size: 12"

Long String

Size: 7" Cemented with 404 SX

TOC: 3798 feet determined by 80% calc

Hole size: 8"

Total Depth: 8460'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Drinkard

I

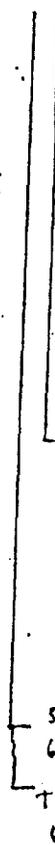
48

INJECTION WELL DATA SHEET

OPERATOR		LEASE		
Greenhill Petroleum Corporation		Lovington Paddock		
# 27	1960' FWL & 1980' FSL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completion
6-16-53

Converted to
Injection
6/67



Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 350 SX

TOC: Surface feet determined by Circ calc

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8 " Cemented with 900 SX

TOC: 656 feet determined by 50% calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 250 SX

TOC: ~~4692~~ 4316 feet determined by ~~80% calc~~ TS

Hole Size: 7-7/8"

Total Depth: 6275'

Injection Interval

6080 feet to 6275 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a

– (brand & model) packer at 6000 feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

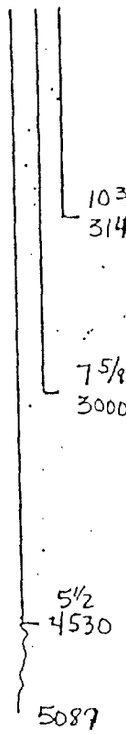
V

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#14	1980 FSL & ~~818~~ 819 FWL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 8/7/39

Converted to Injection 3/15/63



Tubular Data

Surface Casing

Size: 10 3/4" Cemented with 250 SX

TOC: Surface feet determined by circ calc

Hole size: 12 1/4

Intermediate Casing

Size: 7 5/8" Cemented with 500 SX

TOC: 363.7 feet determined by 50% calc

Hole Size: 9 1/4

Long String

Size: 5 1/2" Cemented with 200 SX

TOC: 604' feet determined by 80% calc

Hole Size: 6 1/4

Total Depth: 5087'

Injection Interval

4530 feet to 5087 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a _____ (brand & model) packer at 4468.11 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

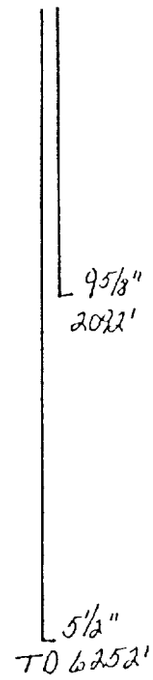
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#28	2108' FSL & 624' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
5-02-53



Surface Casing

Size: 9-5/8" Cemented with 850 SX

TOC: Surface feet determined by calc

Hole size: 12 1/4

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 500 SX

TOC: 3869 feet determined by 70% calc

Hole size: 7 7/8

Total Depth: 6252'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

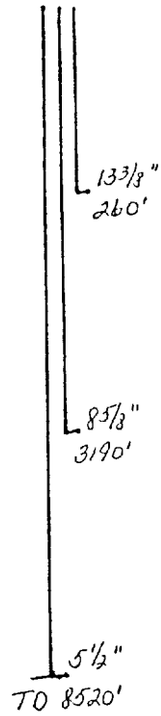
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Texaco		State "O"		
OPERATOR		LEASE		
10	440' FWL & 3080' FNL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-13-52



Surface Casing

Size: 13-3/8" Cemented with ~~225~~ 275 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 700 SX

TOC: surface 1046 feet determined by ~~50% calc~~ circ

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 775 SX

TOC: 4298 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8520'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

54

INJECTION WELL DATA SHEET

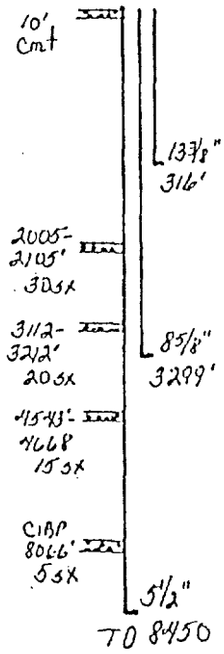
Getty		State "M"		
OPERATOR		LEASE		
3	1650' FSL & 1650' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
8-16-52

P&A 2-11-75

5½" Liner
3161 – 8449

previously identified as a problem well. will correct as outlined on the attached C103



Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 400 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8" Cemented with 1100 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 600 SX

TOC: 4966 feet determined by 80% calc

Hole size: 7-3/4"

Total Depth: 8450'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

Submit 3 Copies to Appropriate District Office

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

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

54

Revised 1-1-89

WELL API NO.

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. B7845

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: STATE "M" UNIT

1. Type of Well: OIL WELL [ ] GAS WELL [ ] OTHER PLUGGED AND ABANDONED

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 3

3. Address of Operator: 11490 WESTHEIMER, STE.,200, HOUSTON, TX 77077

9. Pool name or Wildcat: LOVINGTON ABO

4. Well Location
Unit Letter J : 1650 Feet From The SOUTH Line and 1650 Feet From The EAST Line
Section 36 Township 16S Range 36E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER: DRILLOUT & REPLUG PER NMOC	XX			OTHER:			[ ]

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) MIRU & CLEANOUT CSG. TO ±3161'. TEST CSG. TO 500 PSIG FOR 15 MINS. CLEANOUT 5 1/2" CSG. TO 4450'.
2) MIRU WIRELINE. PERF. 4418-4420 AND 366-368 USING GO-EX 22GM CHARGES (16 SHOTS).
3) PU 5 1/2" CMT. RETAINER ON TBG. AND TIH TO 4375'.
4) MIRU CMT. EQUIPMENT. RU PUMP TO TBG. AND PULL OUT OF RETAINER. SQUEEZE ZONE W/ 50 SX CMT TO ±1500'.
5) PU TBG. TO 3212'. SPOT 20 SX PLUG AND POOH TO 200'. WOC 4 HRS.
6) PU 8 5/8 CMT PKR. ON TBG. AND TIH TO 275'. SET PKR.
7) SQUEEZE ZONE W/50 SX CMT TO ±200 PSIG. DISPLACE CMT. 5 BBLS. BELOW PKR.
8) SET 10SX SURFACE PLUG.

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

SIGNATURE Michael J. Newport TITLE Land Manager-Permian Basin DATE 5-9-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

55

P?

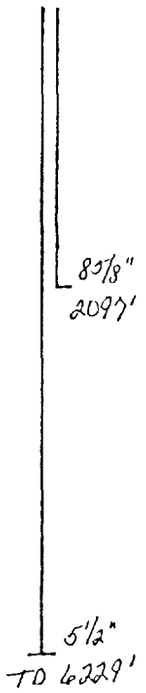
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#32	1750' FSL & 1650' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-19-53

previously identified as a problem will perform work to correct as described on the attached C-103



Surface Casing

Size: 8-5/8" Cemented with 1000 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 300 SX

TOC: 4400 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6229'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Submit 3 Copies to Appropriate District Office

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

55

Revised 1-1-89

WELL API NO.

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. B7845

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Lovington Paddock Unit

1. Type of Well: OIL WELL [X] GAS WELL [ ] OTHER

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 32

3. Address of Operator: 16010 Barkers Point, Ste., 325, Houston, TX 77079

9. Pool name or Wildcat: Lovington Paddock

4. Well Location
Unit Letter J : 1750 Feet From The South Line and 1650 Feet From The East Line

Section 36 Township 16S Range 36E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER: Stimulate & convert to injection [X]		OTHER: [ ]	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) Run a CBL to determine top of cement
2) Perforate 100 above top of cement
3) Mix and pump 600 sx Class C 16% gel + 2% salt followed by 300 sx Class C neat
4) Selectively acidize perfs with 20 gal 20% HCL
5) Set pkr. at 6000
6) Pressure test to meet state requirements
7) Stimulate with 15 tons CO2 followed by 3000 gal 20% HCL acid

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

SIGNATURE Michael J. Newport TITLE Land Manager Permian Basin DATE 3-19-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON DISTRICT SUPERVISOR TITLE DATE APR - 1 1991

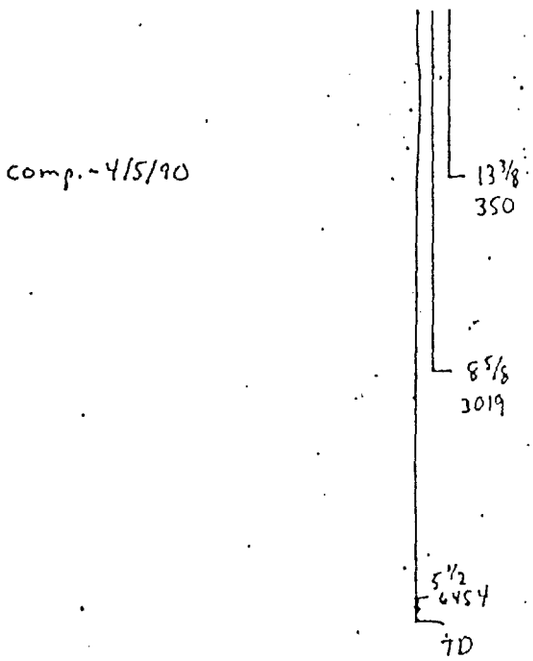
CONDITIONS OF APPROVAL, IF ANY:

56

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. — OPERATOR
Lovington Paddock — LEASE

84 — WELL NO.
1100 FEL & 2285 FSL — FOOTAGE LOCATION
36 — SEC.
T16S-R36E — TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 13 3/8 ". Cemented with 500 SX

TOC: Surface feet determined by calc

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1200 SX

TOC: Surface feet determined by 50% calc

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 1040 SX

TOC: 788 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 6470

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — set in a
(material)
— packer at — feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —

2. Name of Field or Pool (If applicable) Lovington Paddock

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? prod

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
—

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
(Above) Glorieta

I

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#54	1980' FSL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Spud 1-7-63

May 89 4½ csg rpr [illegible] leaks at 1576 & 1608 [illegible]

Tubular Data

Surface Casing

Size: 7-5/8 " Cemented with 240 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 9-7/8"

Intermediate Casing

Size: ______ " Cemented with ______ SX

TOC: ______ feet determined by ______

Hole Size: ______

Long String

Size: 4-1/2 " Cemented with 235 SX

TOC: 2314 feet determined by Temp survey

Hole Size: 6-3/4"

Total Depth: 5110'

Injection Interval

4662 feet to 5037 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC (material) set in a ? (brand & model) packer at 4579 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres
2. Name of Field or Pool (If applicable) ______
3. Is this a new well drilled for injection? Yes
   If no, for what purpose was the well originally drilled? -
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   ______
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

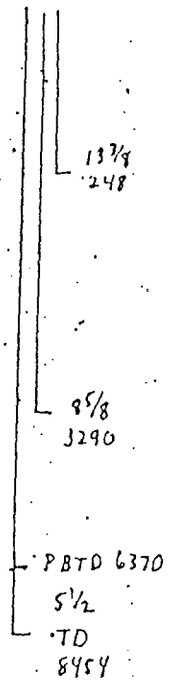
58

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. — ~~State "R"~~ Lovington Paddock Unit
OPERATOR — LEASE

83 — 2310 FWL & 1650 FSL — Sec 36 — T16S-R36E
WELL NO. — FOOTAGE LOCATION — SEC. — TOWNSHIP — RANGE

Completed 10/31/52
IBP set 6400
New PBTD 6370 1/20/86



Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 245 SX

TOC: surface feet determined by calc

Hole size: 18

Intermediate Casing

Size: 8 5/8 " Cemented with 1200 SX

TOC: surface feet determined by 50% calc

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 900 SX

TOC: 3551 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 8454

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a

— packer at — feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? NO
   If no, for what purpose was the well originally drilled? production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   —

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

I

59

P

INJECTION WELL DATA SHEET

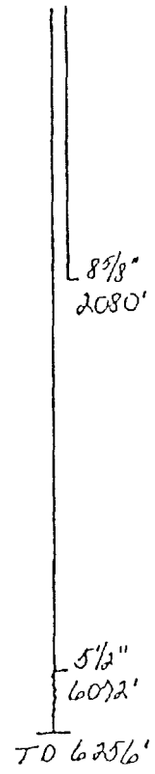
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#29	2130' FSL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-11-53

Converted to
Injection 10/75

Previously identified as a problem well will correct as outlined on the attached C-103



Surface Casing

Size: 8-5/8" Cemented with 975 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 275 SX

TOC: ~~4574~~ 5205 feet determined by ~~80% calc~~ Temp. Survey

Hole size: 7-7/8"

Total Depth: 6256'

Injection Interval

6072 feet to 6256 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 5992 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Copies appropriate OFFICE

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

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

59

Revised 1-1-89

WELL API NO.

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. B7766

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Lovington Paddock Unit

1. Type of Well: OIL WELL [XX] GAS WELL [ ] OTHER

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 29

3. Address of Operator: 16010 Barkers Point, Ste., 325, Houston, TX 77079

9. Pool name or Wildcat: Lovington Paddock

4. Well Location
Unit Letter K : 2130 Feet From The South Line and 2130 Feet From The West Line

Section 36 Township 16S Range 36E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER: Cleanout, stimulate, raise cement & return to injection [X]		OTHER: [ ]	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) Run CBL to determine top of cement. Perforate 100 above top of cement
2) Mix and pump 600 sx class "C" with 16% gel followed by 300 sx class "C" neat
3) Spot 300 gal of 20% NEFE HCL acid in open hole
4) Set pkr. at 6000
5) Pressure test to meet state requirements
6) Stimulate hole with 15 tons of CO2 and 3000 gals 20% HCL acid

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

SIGNATURE Michael Newport TITLE Land Manager-Permian Basin DATE 3-25-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

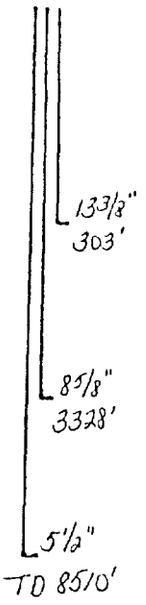
CONDITIONS OF APPROVAL, IF ANY:

61

INJECTION WELL DATA SHEET

~~Cities Service~~ Penroc		State AE		
OPERATOR		LEASE		
2Y	1420' FSL & 990' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13-3/8" Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8" Cemented with 1800 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 1330 SX

TOC: ~~1265~~ 3605 feet determined by ~~80% calc~~ Temp Survey

Hole size: 7-7/8"

Total Depth: 8510'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

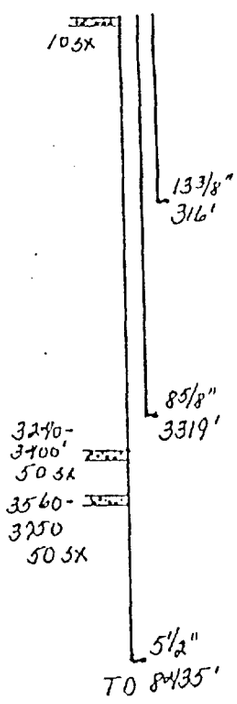
62

INJECTION WELL DATA SHEET

Cities Service		State AE		
OPERATOR		LEASE		
2	3630' FNL & 4290' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
1-09-53

P&A 6-6-69



5½" csg. cut and pulled down from 3200'

Cmt. ret. at 3488 w 555 SX below

Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 325 SX

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8" Cemented with 2164 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 650 SX

TOC: 5600 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 8435'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

(Above) Drinkard

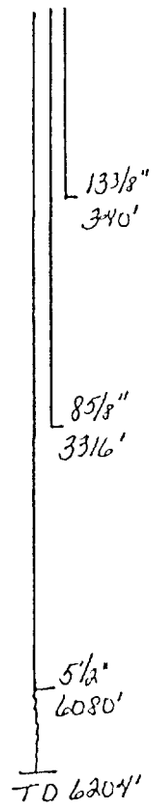
63

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#31	1650' FSL & 890' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
12-16-53



Surface Casing

Size: 13-3/8" Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ Circ 305X

Hole size:

Intermediate Casing

Size: 8-5/8" Cemented with 2300 SX

TOC: Surface feet determined by ~~calc~~ Circ 305 SX

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4350 feet determined by temp survey

Hole size:

Total Depth: 6204'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#59	1980' FSL & 660' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 6-29-65

Tubular Data

Surface Casing

Size: 8-5/8 " Cemented with 825 SX

TOC: Surface feet determined by circ

Hole size: 11"

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 4-1/2 " Cemented with 450 SX

TOC: 3581 feet determined by Temp Survey calc

Hole Size: 7-7/8"

Total Depth: 5060

Injection Interval

4666 feet to 5034 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC (material) set in a Halliburton R-3 Tension (brand & model) packer at 4619 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

I

65

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#30	~~3630~~ 1650 FSL FNL & 330' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

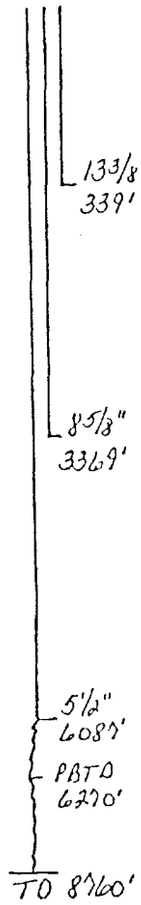
Completed
4-12-53

4/53 Plugged
Back from Abo

Cmt 6275-6400'
Cmt 8240-8400'
Cmt 8600-8760'

Converted to
Injection 12/66

Tubular Data



Surface Casing

Size: 13-3/8" Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17 1/4

Intermediate Casing

Size: 8-5/8" Cemented with 400 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 11

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4200 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 8760'

Injection Interval

6087 feet to 6270 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 5999 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#27	660 FEL & 660 FSL	35	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 7 5/8 " Cemented with 600 SX

TOC: Surface feet determined by calc

Hole size: 9 1/4"

Intermediate Casing

Completed

Size: _____" Cemented with _____SX

2035' 7 5/8" TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 300 SX

TOC: 273 feet determined by 80% calc

4600' 5½" Hole Size: 6 1/2"

5000' TD Total Depth: 5000'

Injection Interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No

   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

SI
TA 4-19-87

68

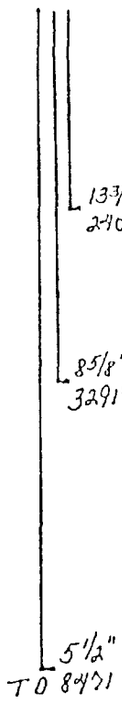
INJECTION WELL DATA SHEET

Texaco		Skelly "S" State		
OPERATOR		LEASE		
2	990' FSL & 330' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-29-52

P&A 6-6-69



B-6145

Surface Casing

Size: 13-3/8" Cemented with ~~240~~ SX

TOC: Surface feet determined by calc Circ

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 1300 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 900 SX

TOC: 3568 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8471'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

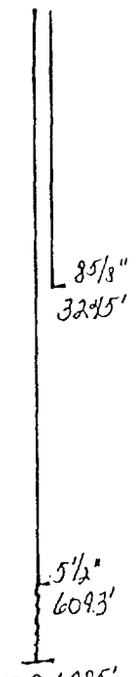
(Above) Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#43	660' FSL & 460' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
4-29-54



Surface Casing

Size: 8-5/8" Cemented with 1800 (1700) SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 485 SX

TOC: 3613 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6285'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

I

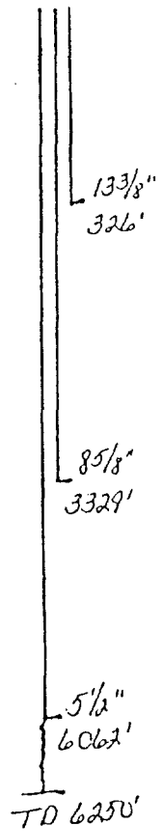
70

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#42	990' FWL & 660' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
11-17-55



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by calc

Hole size: 17 1/4

Intermediate Casing

Size: 8-5/8" Cemented with 2000 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 11-1/4"

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 3883 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6250'

Injection Interval

6062 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6007 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#26	660 FSL & 1980 FWL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 12/3/39

13" 296" 330

8 5/8" 3010'

5½" 4520'

TD 5128'

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by Circ

Hole size: 15"

Intermediate Casing

Size: 8 5/8 " Cemented with 400 SX

TOC: 390 feet determined by 70% calc.

Hole Size: 9 7/8" 10 ½

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 3200' est. feet determined by Calc

Hole Size: 6 3/4"

Total Depth: 5128'

Injection Interval

____ feet to ____ feet

(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ set in a

(material)

____ packer at ____ feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

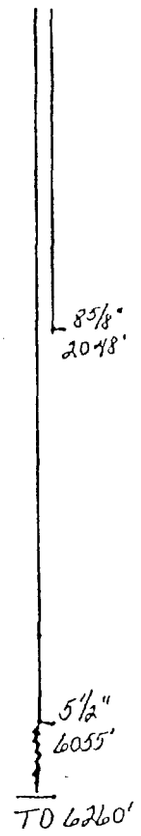
73

P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#41	810' FSL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 8-5/8" Cemented with 875 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 275 SX

TOC: 4700 feet determined by temp survey

Hole size:

Total Depth: 6260'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

SI F.6.89

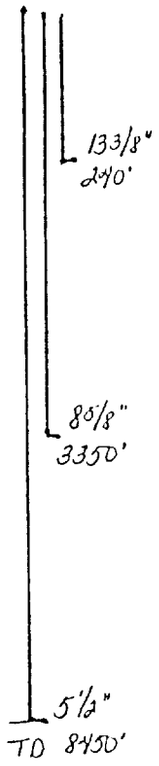
74

INJECTION WELL DATA SHEET

Texaco		State "R"		
OPERATOR		LEASE		
5	330' FSL & 2310' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-30-52



Surface Casing

Size: 13-3/8" Cemented with 245 SX

TOC: Surface feet determined by calc

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX

TOC: 900 feet determined by 50% calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: 4093 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8450'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

I

75

P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#40	1980' FEL & 810' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-07-53

Surface Casing

Size: 8-5/8" Cemented with 850 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 265 SX

TOC: 4565 feet determined by 80% calc

Hole size: 7 7/8

Total Depth: 6252'

Injection Interval

6009 feet to 6252 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with IPC set in a - packer

at 5881 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

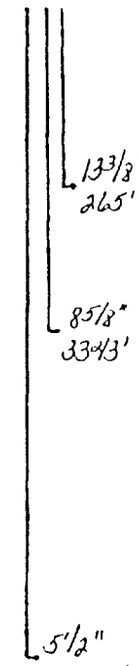
   Above Glorieta

INJECTION WELL DATA SHEET

Texaco		Skelly "Q" State		
OPERATOR		LEASE		
4	330' FSL & 1650' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-23-52



Surface Casing

Size: 13-3/8" Cemented with 265 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX

TOC: ~~798~~ Surface feet determined by ~~50% calc~~ Circ

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: 4077 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8435'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

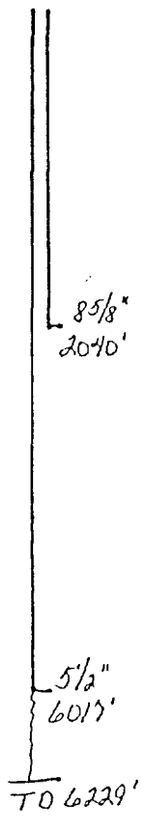
   (Above) Drinkard

77
P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#39	810' FSL & 660' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Note attached
103 - deepen stimulate and convert to injection



Tubular Data

Surface Casing

Size: 8-5/8" Cemented with 900 SX

TOC: Surface feet determined by calc Circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 275 SX

TOC: 4632 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6229'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Submit 3 Copies to Appropriate District Office

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 Dept.

77

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

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

WELL API NO.

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. B7845

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Lovington Paddock Unit

1. Type of Well: OIL WELL [ ] GAS WELL [ ] OTHER Injection

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 39

3. Address of Operator: 16010 Barkers Point, Ste., 325, Houston, TX 77079

9. Pool name or Wildcat: Lovington Paddock

4. Well Location
Unit Letter P : 810 Feet From The South Line and 660 Feet From The East Line

Section 36 Township 16S Range 36E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3830 DF

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER:	[ ]			OTHER: Deepen, stimulate and convert to inj.			[ ]

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-21-91 - Shot holes @ 4600'. set cement retainer at 4490'. Pumped 100 sxs class C , tailed with 100 sxs class C Neat w/2% cc. Ran temp. survey & found TOC at 3960'. Test squeezed 500# OK. Drilled down to 6282', string shot the interval from 6030' to 6220.

Rigged up Halliburton P. T. and acid treated OH from 6017'-6382' w/1500 gals 20% NEFE + 15 tons CO_2. Baker Ad-1 packer set @ 5948'.

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

SIGNATURE Michael J. Newport TITLE Land Manager-Permian Basin DATE 3-15-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-114

(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR

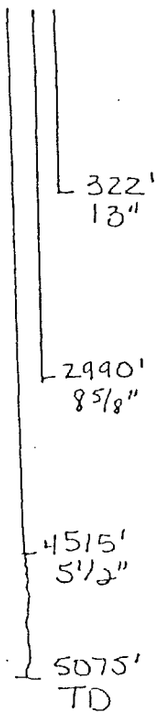
APPROVED BY _____ TITLE _____ DATE APR 29 199

CONDITIONS OF APPROVAL, IF ANY:

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#24	660' FEL & 660' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
9-8-39



Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4" /5

Intermediate Casing

Size: 8-5/8 " Cemented with 500 SX

TOC: 1458 feet determined by calc

Hole Size: 12-1/4" 9 3/4

Long String

Size: 5-1/2 " Cemented with 250 SX

TOC: 3145 feet determined by calc

Hole Size: 7-7/8" 6 1/4

Total Depth: 5075'

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a

— packer at — feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

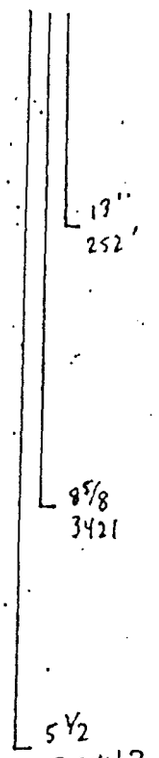
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

INJECTION WELL DATA SHEET

Texaco	Skelly "Q" State			
OPERATOR	LEASE			
3	330' FSL & 330' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13 " Cemented with 275 SX

TOC: Surface feet determined by Circ calc

Hole size: 18"

Intermediate Casing

Size: 8-5/8 " Cemented with 1750 SX

TOC: Surface feet determined by Circ calc

Hole Size: 12-1/4"

Long String

Size: 5-1/2 " Cemented with 739 SX

TOC: 4037 feet determined by Haliburton

Hole Size: 7-7/8"

Total Depth: 8442'

Injection Interval

____ feet to ____ feet

(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ set in a

____ packer at ____ feet.

(material)

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation ____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

I

80

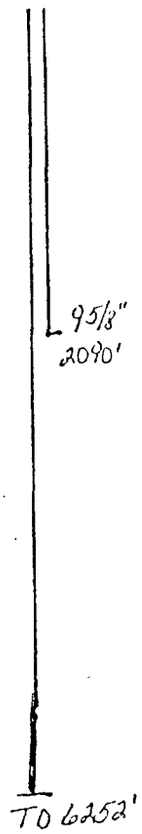
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#38	810' FSL & 665' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-28-53

Converted to
Injection 1-71



Surface Casing

Size: 9-5/8" Cemented with 900 SX circ

TOC: Surface feet determined by ~~calc~~

Hole size: 12-1/4"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 500 SX

TOC: ~~3316~~ 3527 (casing set deeper than on original calc.) feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6252'

Injection Interval

6040 feet to 6220 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 5966 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

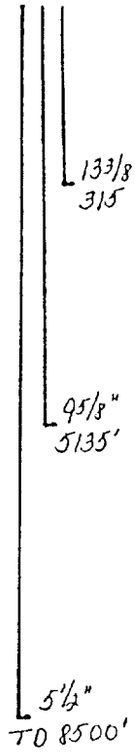
   Above Glorieta

INJECTION WELL DATA SHEET

Texaco		State "O" Battery 2		
OPERATOR		LEASE		
9	660' FSL & 815' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-8-51



Surface Casing

Size: 13-3/8" Cemented with ~~650~~ 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with 4500 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 650 SX

TOC: 4959 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8500

350 sx w/ shoe
4150 sx thru DV Tool at 4510

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

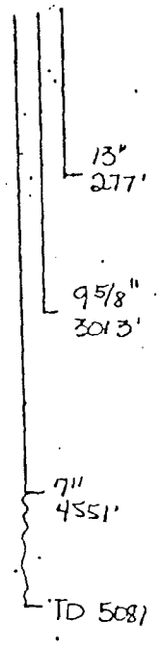
   (Above) Drinkard

   _____

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#23	660 FSL & 900 FWL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 6/2/39



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by ~~calc~~ Circ.

Hole size: 14

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SX

TOC: 1773 feet determined by 50% calc

Hole Size: 11 1/4

Long String

Size: 7 " Cemented with 200 SX

TOC: 2735 feet determined by 80% calc

Hole Size: 8 1/4

Total Depth: 5081'

Injection Interval

___ feet to ___ feet
(perforated or open-hole, indicate which)

Tubing size ___ lined with ___ set in a
(material)
___ packer at ___ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

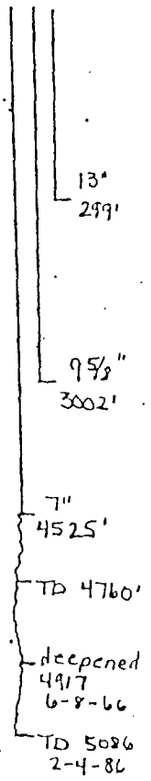
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#22	330 FSL & 1650 FWL	31	T16S	R73E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 11/19/55

Deepened to 4917 6/8/66

Deepened to 5086 2/4/86



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by calc

Hole size: 15 1/2

Intermediate Casing

Size: 9 5/8" Cemented with 500 SX

TOC: 1369 feet determined by 50% calc

Hole Size: 11 1/4

Long String

Size: 7 " Cemented with 200 SX

TOC: 3161 feet determined by 80% calc

Hole Size: 8 3/4

Total Depth: 5086

Injection Interval

___ feet to ___ feet

(perforated or open-hole, indicate which)

Tubing size ___ lined with ___ (material) set in a ___ packer at ___ feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

84

INJECTION WELL DATA SHEET

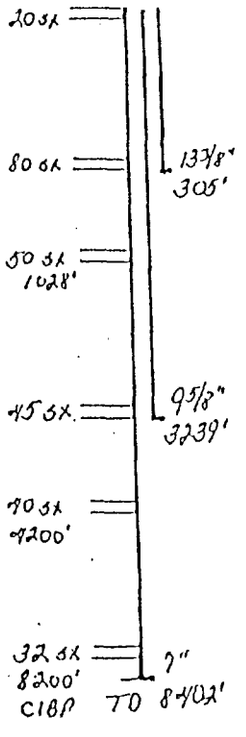
Arco		State 182 "A"		
OPERATOR		LEASE		
3	1959.54' FWL & 660' FSL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
4-12-52

P&A'd 2-4-76

cut & pulled
9 5/8 from 1028

cut & pull
" from 4200
perf at 5000
592. 120 sx.



Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 325 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8" Cemented with 1200 SX

TOC: feet determined by

Hole size: 12-1/4" .

Long String

Size: 7" Cemented with 500 SX

TOC: 5261 feet determined by 80% calc.

Hole size: 8-3/4"

Total Depth: 8402'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

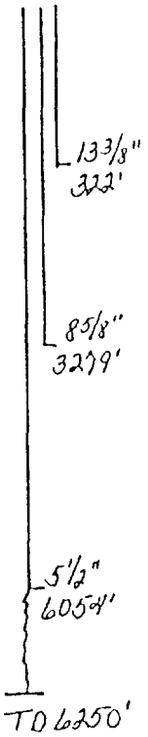
   (Above) Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#37	330' FSL & 2290' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-6-53



Surface Casing

Size: 13-3/8" Cemented with 350 SX

TOC: Surface feet determined by Circ calc

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8" Cemented with 930 SX

TOC: 1235 feet determined by temp survey

Hole size: 11

Long String

Size: 5-1/2" Cemented with 250 SX

TOC: 4290 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6250'

Injection Interval

6054 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

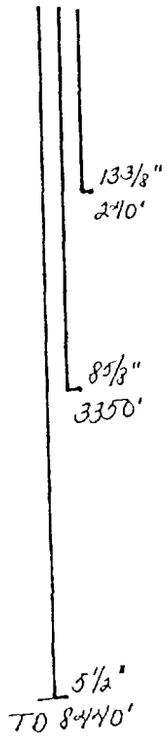
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Texaco		State "O"		
OPERATOR		LEASE		
11	330' FSL & 2310' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13-3/8" Cemented with ~~240~~ 250 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX

TOC: 899 feet determined by 50% calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 850 SX

TOC: 3809 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8440'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

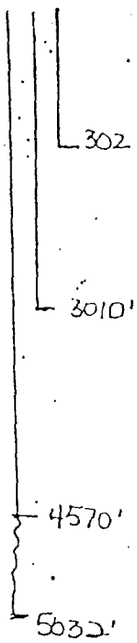
   (Above) Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#21	2310 FEL & 660 FSL	31	T16S	R31E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 9/20/39

Tubular Data



Surface Casing

Size: 13 ". Cemented with ~~175~~ 200 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 15

Intermediate Casing

Size: 8 5/8 " Cemented with ~~400~~ 500 SX

TOC: 1784 feet determined by 50% calc

Hole Size: ~~7 7/8~~ 9 7/8

Long String

Size: 5 1/2 " Cemented with ~~150~~ 200 SX

TOC: ~~1626~~ 642 feet determined by 80% calc

Hole Size: 6 1/4

Total Depth: 5032'

Injection Interval

____ feet to ____ feet

(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ (material) set in a ____ (brand & model) packer at ____ feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation ____

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

I

88

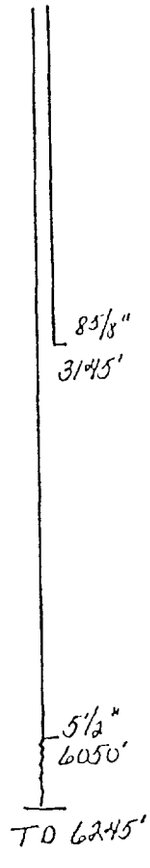
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#36	660' FSL & 2160' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-3/53

Converted to
Injection 1/71



Surface Casing

Size: 8-5/8" Cemented with 1475 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4077 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6245'

Injection Interval

6050 feet to 6245 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer at 5974 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

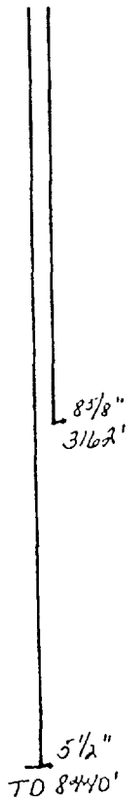
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Texaco		State "O"		
OPERATOR		LEASE		
23	990' FSL & ~~660~~ 990' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
11-6-54



Surface Casing

Size: 8-5/8" Cemented with 1575 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 875 SX

TOC: 3673 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8440'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Drinkard

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Glorieta

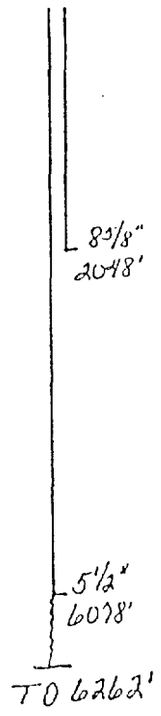
   _____

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#35	810' FSL & 810' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-20-54



Surface Casing

Size: 8-5/8" Cemented with 975 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 585 SX

TOC: 3225 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6262'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

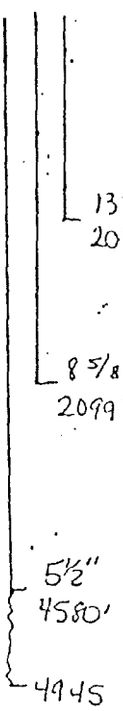
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#20	660 FSL & 660 FEL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 1/6/45



Tubular Data

Surface Casing

Size: 13 " Cemented with 20 SX

TOC: Surface feet determined by calc

Hole size: 15

Intermediate Casing

Size: 8 5/8 " Cemented with ~~400~~ 475 SX

TOC: 784 feet determined by 50% calc

Hole Size: 11 10¼

Long String

Size: 5 1/2 " Cemented with ~~200~~ 450 SX

TOC: ~~654~~ 1340 feet determined by 80% calc

Hole Size: ~~6 1/4~~ 7

Total Depth: 4945'

Injection Interval

___ feet to ___ feet

(perforated or open-hole, indicate which)

Tubing size ___ lined with ___ (material) set in a ___ (brand & model) packer at ___ feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

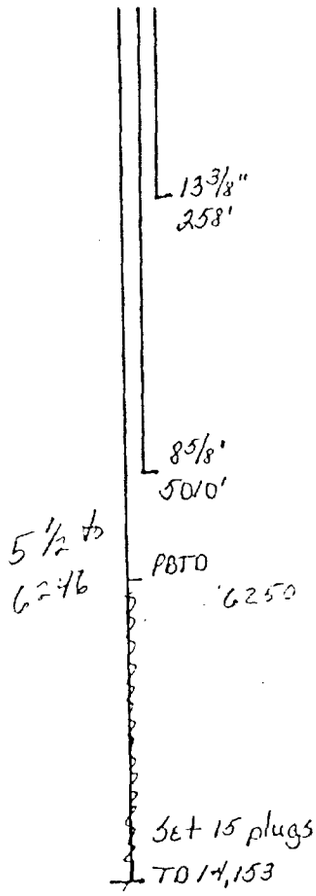
   Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#53	330' FNL & 840' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-52



Surface Casing

Size: 13-3/8" Cemented with 250 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size:

Intermediate Casing

Size: 8-5/8" Cemented with 2100 SX

TOC: 808 feet determined by temp survey

Hole size:

Long String

Size: 5-1/2" Cemented with 230 SX

TOC: 4116 feet determined by temp survey

Hole size:

Total Depth: 14,153'

Injection Interval

6144 feet to 6194 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer at 6094 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

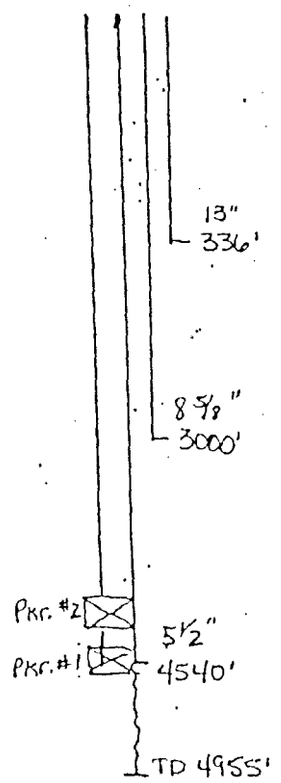
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

I

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#36	660 FNL & 2040 FEL	6	T17S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE



Completed 9/12/39

Pkr. #1 3/22/63

Pkr. # 2 1/25/79

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 14 3/4"

Intermediate Casing

Size: 8 5/8 " Cemented with 400 (500) SX

TOC: 1774 feet determined by 50% calc

Hole Size: 10 1/4

Long String

Size: 5 1/2 " Cemented with 125 (202) SX

TOC: 3127 feet determined by 80% calc

Hole Size: 6 3/4"

Total Depth: 4955'

Injection Interval

4540 feet to 4955 feet
(perforated or open-hole, indicate which)

Pkr. #1
Tubing size 2 3/8 lined with IPC (material) set in a Baker "A" Pension (brand & model) packer at 4466 feet.
(or describe any other casing-tubing seal). Pkr. #2 Howco R-3 set @ 4435'.

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
No

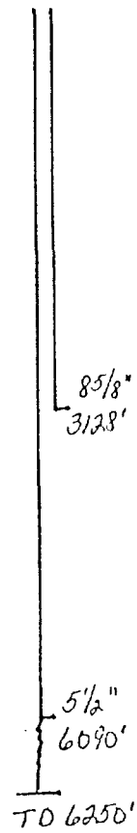
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#52	510' FNL & 2190' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-31-53



Surface Casing

Size: 8-5/8" Cemented with 1425 SX Circ

TOC: Surface feet determined by ~~calc~~

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4220 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6250'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

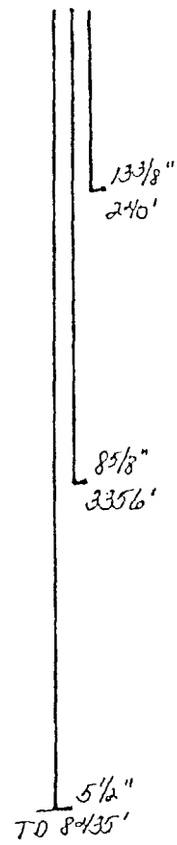
100

INJECTION WELL DATA SHEET

Texaco		C. S. Caylor		
OPERATOR		LEASE		
3	330' FNL & 2310' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-17-52



Surface Casing

Size: 13-3/8" Cemented with 240 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX

TOC: 905 feet determined by 50% calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with ~~450~~ 900 SX

TOC: 3270 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 8435'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

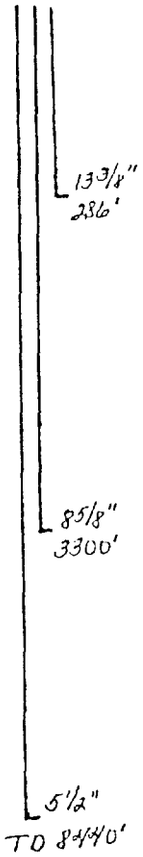
~~100~~ 101

INJECTION WELL DATA SHEET

Penroc		C. S. Caylor		
OPERATOR		LEASE		
3	660' FNL & ~~3393'~~ 1827' FNL ~~FEL~~	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-18-52



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX

TOC: 849 feet determined by 50% calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: 4082 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8440'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

I

102

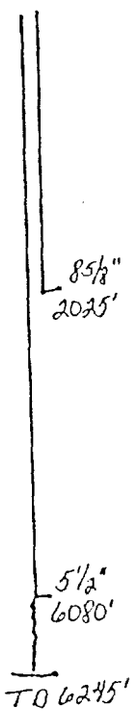
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	(1740 FWL)	LEASE		
#51	3540' FEL & 480' FNL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completion'
9-23-53

Converted to
Injection 12/66



Sq = 75sx at 4590-91

Surface Casing

Size: 8-5/8" Cemented with 950 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 275 SX

TOC: 4050 feet determined by 70% calc

Hole size: 7 7/7

Total Depth: 6245'

Injection Interval

6080 feet to 6245 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 5981 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

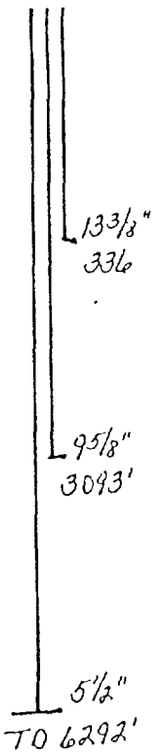
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#50	660' FNL & 902' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
7-31-53



Surface Casing

Size: 13-3/8" Cemented with 300 SX
Circ
TOC: Surface feet determined by ~~calc~~

Hole size: 17 1/4

Intermediate Casing

Size: 9-5/8" Cemented with 1550 SX
Circ
TOC: Surface feet determined by ~~calc~~

Hole size: 12 1/4

Long String

450
Size: 5-1/2" Cemented with 500 SX

4150
TOC: ~~4100~~ feet determined by temp survey

Hole size: 8 3/4

Total Depth: 6292'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with IPC set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

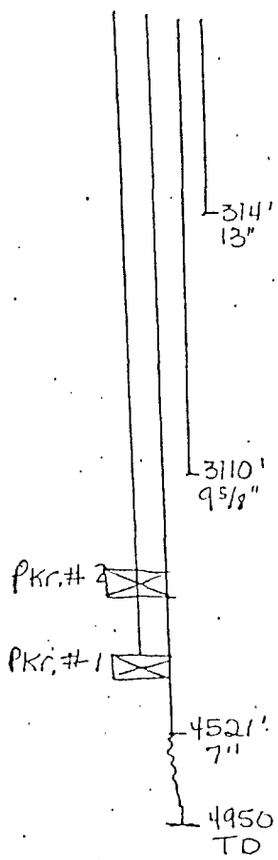
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

104

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovinton San Andres Unit
OPERATOR	LEASE

#34	660 FNL & 615 FWL	6	T17S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE



Completed 1/27/53

Pkr. 7/10/63

Pkr. 6/14/72

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: ~~17 1/4~~ 15

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SX

TOC: 1956 feet determined by 50% calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX

TOC: 3264 feet determined by 80% calc

Hole Size: 8 3/4"

Total Depth: 4950'

Injection Interval

4521 feet to 4950 feet

(perforated or open-hole, indicate which)

Packer #1

Tubing size 2" lined with IPC (material) set in a Baker "A" Pension (brand & model) packer at 4498 feet.

(or describe any other casing-tubing seal). Packer #2 - 2 3/8" plastic lined tbg. set in a 7" Guiberson Packer @ 4470'.

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

105
P

INJECTION WELL DATA SHEET

Amerada Hess		State L "A"		
OPERATOR		LEASE		
8	560' FNL & 660' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
5-3-52

Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 225 SX

TOC: Surface feet determined by calc

13 3/8 280

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 1000 SX

TOC: ~~3063~~ 1490 feet determined by ~~50% calc~~ TS

8 5/8 3148

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 600 SX

TOC: 4975 feet determined by ~~temp survey~~ ✓

5½" 8342'

Hole Size: 7-7/8"

TD 8430

Total Depth: 8430'

Injection Interval

– feet to – feet
(perforated or open-hole, indicate which)

Tubing size – lined with – (material) set in a

– (brand & model) packer at – feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit
OPERATOR	LEASE

#33	660 FNL & 660 FEL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 10/15/39

13" 313'

8 5/8" 3109'

5½" 4591'

TD 4900'

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: 94 feet determined by 70% calc

Hole size: 17 1/4"

Intermediate Casing

Size: 8 5/8 " Cemented with 250 SX

TOC: 2352 feet determined by 70% calc

Hole Size: 11"

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 3702 feet determined by 70% calc

Hole Size: 7 7/8"

Total Depth: 4900'

Injection Interval

____ feet to ____ feet

(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ (material) set in a ____ (brand & model) packer at ____ feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation ____

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

Note:
Jumps from p. 106 to

Unnumbered pps.

WDMCA... STAGE II

Hinge

Memb... Petroleum Corp
Lou... Andreg

Then ... with

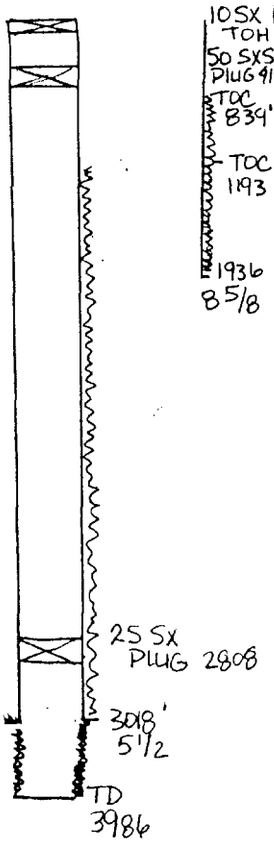
Pp. 107

INJECTION WELL DATA SHEET

WD MC BEE — STATE "A"
OPERATOR — LEASE

U-B, 660 FNL & 2280 FEL — 12 — T17S-R36E
WELL NO. — FOOTAGE LOCATION — SEC. — TOWNSHIP — RANGE

P & A
3-14-67
1) SPOT 25 SX PLUG 2808'.
2) LOAD HOLE W/MUD LADEN FLD.
3) SPOT 50 SX PLUG AT 415' STUB OF 51/2 CSG. COVER STAB OF 8 5/8.
4) SPOT 25 SX PLUG AT 212' BASE OF 13" CSG.
5) 10 SX PLUG AT TOH.



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 225 SX

TOC: 839 feet determined by CALC.

Hole size: 12

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 225 SX

TOC: 1193 feet determined by CALC.

Hole Size: 8

Total Depth: 3986

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) SOUTH LOVINGTON

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD

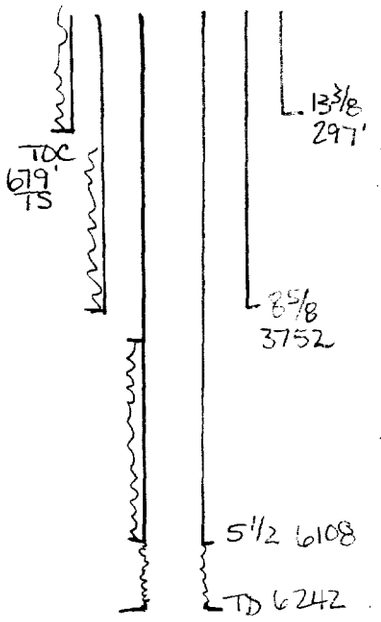
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK — LEASE

72 — WELL NO.
660 FSL & 2080 FWL — FOOTAGE LOCATION
1 — SEC.
T17S-R36E — TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 300 SX

TOC: SURF. feet determined by CIRC.

Hole size: 77 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1500 SX

TOC: 679 feet determined by TS

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 500 SX

TOC: 3264 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6242

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? _____
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

_____

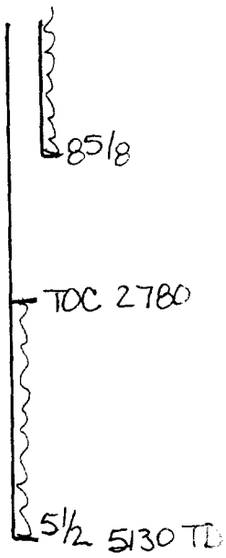
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON SAN ANDRES — LEASE

66 — WELL NO.
1244 FNL & 2592 FEL 36 — FOOTAGE LOCATION, SEC.
T16S-R36E — TOWNSHIP, RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 275 SX

TOC: SURFACE feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 850 SX

TOC: 2780 feet determined by BOND LOG

Hole Size: 7 7/8

Total Depth: 5130

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON GRAYBURG SAN ANDRES

3. Is this a new well drilled for injection? NO
   If no, for what purpose was the well originally drilled? PRODUCTION

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

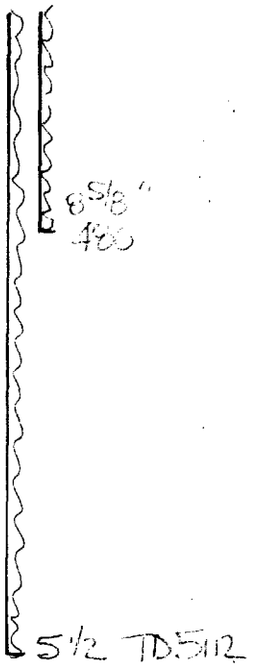
   UNDERLYING-GRAYBURG

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON SAN ANDRES — LEASE

65 — WELL NO.
1168 FSL & 1330 FWL — FOOTAGE LOCATION
36 — SEC.
T16S-R36E — TOWNSHIP RANGE

Tubular Data



Surface Casing

Size: 8 5/8 " Cemented with 325 SX

TOC: SURFACE feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 1200 SX

TOC: SURFACE feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 5112'

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON GRAYBURG SAN ANDRES

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PRODUCTION

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

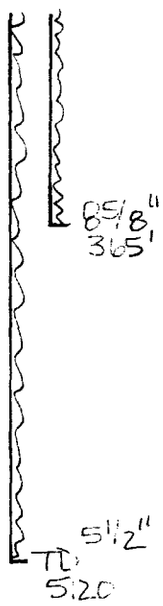
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

UNDERLYING-GRAYBURG

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON SAN ANDRES — LEASE

63 — WELL NO.
100 FSL & 115 FWL — FOOTAGE LOCATION
36 — SEC.
T16S-R36E — TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 275 SX

TOC: SURFACE feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 1379 SX

TOC: SURFACE feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 5120

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON GRAYBURG SAN ANDRES

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PRODUCTION

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

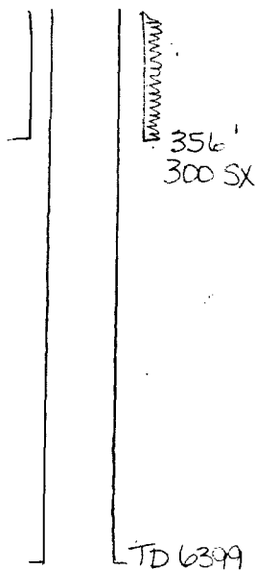
UNDERLYING GRAYBURG

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK UNIT — LEASE

76 — WELL NO.
330 FNL & 1650 FEL — FOOTAGE LOCATION
12 — SEC.
T17S-R36E — TOWNSHIP RANGE

COMPLETED
10-16-52



Tubular Data

Surface Casing

Size: 10 3/4 " Cemented with 300 SX

TOC: SURF. feet determined by CIRC.

Hole size: _____

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 7 " Cemented with 575 SX

TOC: SURFACE feet determined by CIRC.

Hole Size: _____

Total Depth: 6400

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? _____
   If no, for what purpose was the well originally drilled? PROD.

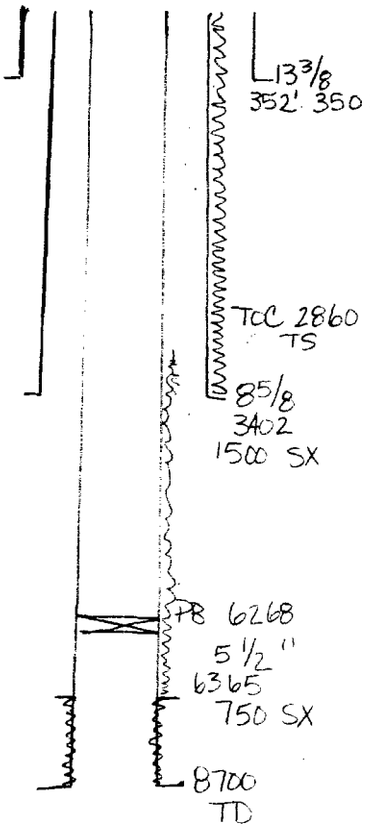
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK	
OPERATOR		LEASE	
78	661 FNL & 617 FWL	7	T17S-R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data



Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1500 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 750 SX

TOC: 2860 feet determined by TS

Hole Size: 7 7/8

Total Depth: 8700

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? _____
   If no, for what purpose was the well originally drilled? PROD.

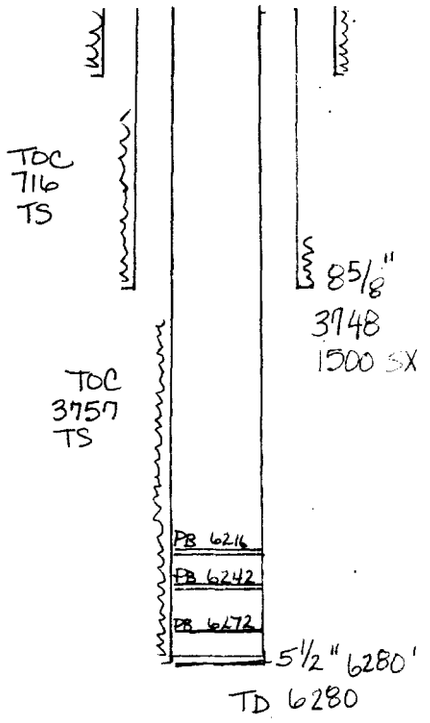
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK	
OPERATOR		LEASE	
79	1650 FNL & 990 FEL	12	T17S-R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 13 7/8 " Cemented with 300 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1500 SX

TOC: 716 feet determined by TS

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 500 SX

TOC: 3757 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6280

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? NO
   If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

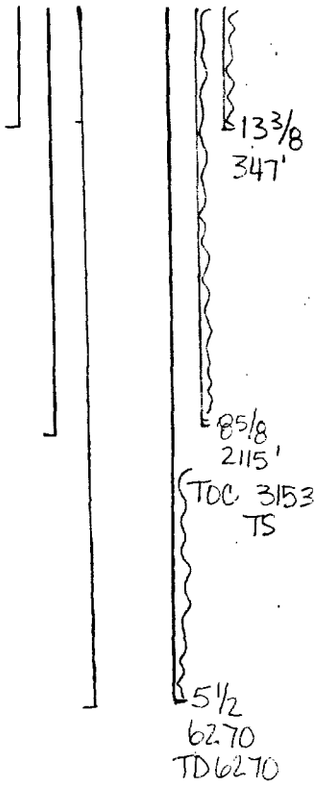
   GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK — LEASE

9 — WELL NO.
660 FSL & 1980 FWL — FOOTAGE LOCATION
30 — SEC.
T16S-R37E — TOWNSHIP RANGE

Tubular Data



Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 2300 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 450 SX

TOC: 3153 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6270

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? _____
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

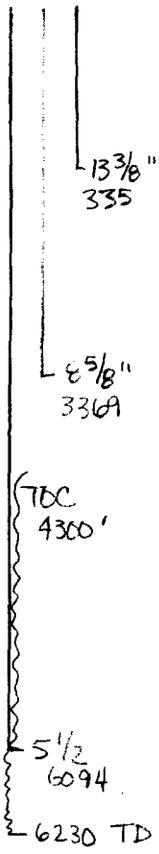
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION	LOVINGTON PADDOCK
OPERATOR	LEASE

75	330 FNL & 2970 FEL 12	T17S-R36E
WELL NO.	FOOTAGE LOCATION SEC.	TOWNSHIP RANGE

CONVERTED TO INJ. 12-9-68



Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 2198 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 400 SX

TOC: 4300 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6230

Injection Interval

6094 feet to 6230 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC (material) set in a _____ (brand & model) packer at 6016 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation PADDOCK

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? NO
   If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

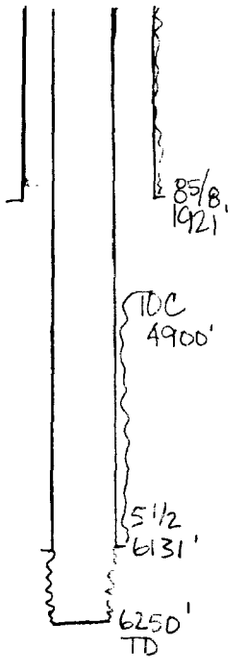
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — LOVINGTON PADDOCK
OPERATOR — LEASE

70 — 660 FSL & 614 FWL — 6 — T17S-R37E
WELL NO. — FOOTAGE LOCATION — SEC. — TOWNSHIP — RANGE

CONVERTED TO INJ. 2-2-68



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 900 SX

TOC: SURF. feet determined by CIRC.

Hole size: 11

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 4906 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6250

Injection Interval

6130 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a _____ (brand & model) packer at 6093 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation PADDOCK

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

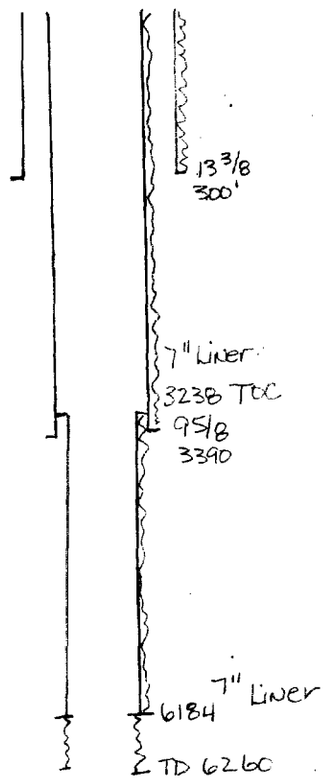
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — LOVINGTON PADDOCK
OPERATOR — LEASE

80 — 1650 FNL & 1650 FEL — 12 — T17S-R36E
WELL NO. — FOOTAGE LOCATION — SEC. — TOWNSHIP — RANGE

CONVERTED TO INJ.-2-2-68



Tubular Data

Surface Casing

Size: 13 3/8" Cemented with 300 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 9 5/8" Cemented with 1000 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 12 1/4

Long String

Size: 7 LINER" Cemented with 750 SX

TOC: _____ feet determined by _____

Hole Size: 8 3/4

Total Depth: 6260

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a _____ (brand & model) packer at 6145 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation PADDOCK

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? NO
   If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK — LEASE

91 — WELL NO.
2390 FSL & 2370 FEL — FOOTAGE LOCATION
36 — SEC.
T16S-R36E — TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1300 SX

TOC: SURF. feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 1610 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 6345

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

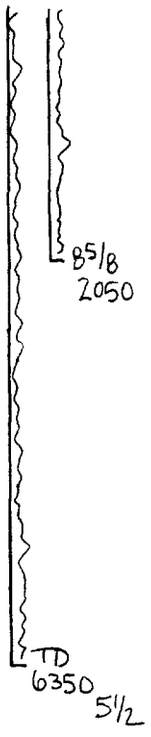
3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK		
OPERATOR		LEASE		
94	1190 FEL & 1130 FSL	36	T-16S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1100 SX

TOC: SURF. feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 1450 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 6350

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

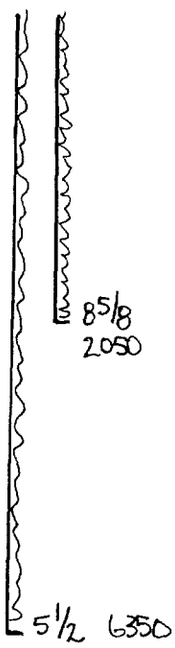
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK UNIT — LEASE

90 — WELL NO.
1355 FWL & 2535 FSL — FOOTAGE LOCATION
36 — SEC.
T16S-R36E — TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1150 SX

TOC: SURF. feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 1550 SX

TOC: SURFACE feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: _____

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

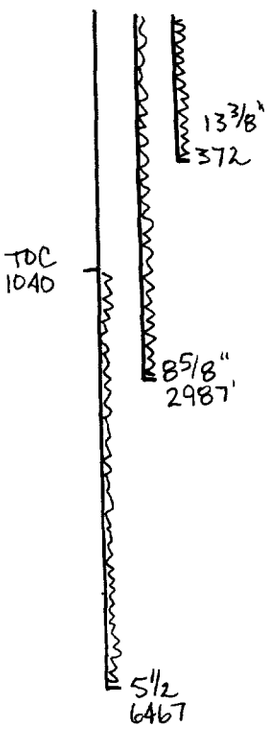
3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK UNIT		
OPERATOR		LEASE		
87	1138 FNL & 1546 FEL	36	T16S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE



Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 950 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 12 1/4

Long String

Size: 5 1/2 " Cemented with 1205 SX

TOC: 1040 feet determined by BOND LOG

Hole Size: 7 7/8

Total Depth: 6467

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

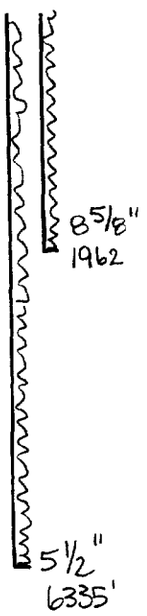
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK UNIT — LEASE

86 — WELL NO.
1595 FNL & 2485 FEL — FOOTAGE LOCATION
36 — SEC.
T16S-R36E — TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1107 SX

TOC: SURF. feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 1900 SX

TOC: SURFACE feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 6335

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

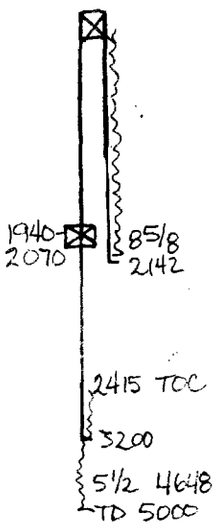
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

MID CONTINENT PETROLEUM CORPORATION — OPERATOR
EDWARD HART — LEASE

1 — WELL NO.
330 FN OF S LINE & 330 FW OF EL OF S/2 NE & N/2 SE SEC. 26--T16S-R36E — FOOTAGE LOCATION, SEC., TOWNSHIP, RANGE

) & A,3-8-48
5 1/2" CSG. SHOT OFF
AT 3200'. TUBING RUN
TO 2070 AND CEMENTED
W/50 SXS FROM 1940-
2070. THEN SPOTTED
100' CMT. PLUG IN
TOP OF 8 5/8" CSG.
AND BULL PLUGGED
TOP OF 8 5/8" CSG.



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1500 SX

TOC: SURF. feet determined by CIRC.

Hole size: 11

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 350 SX

TOC: 2415 feet determined by CALC.

Hole Size: 7 3/8

Total Depth: 5000

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) _____

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

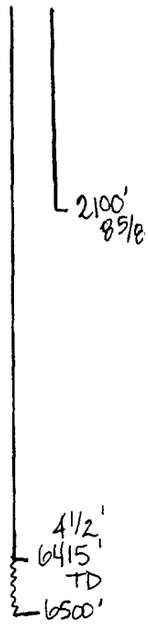
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

GLORIETA

INJECTION WELL DATA SHEET

TENECO OIL COMPANY — STATE "Q"
OPERATOR — LEASE

2 — 1650 FSL & 1950 FWL — 30 — T16S-R37E
WELL NO. — FOOTAGE LOCATION — SEC. — TOWNSHIP — RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 425 SX

TOC: 655.2 feet determined by CALC.

Hole size: 11

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 4 1/2 " Cemented with 690 SX

TOC: 3870 feet determined by CALC.

Hole Size: 7 7/8

Total Depth: 6500

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

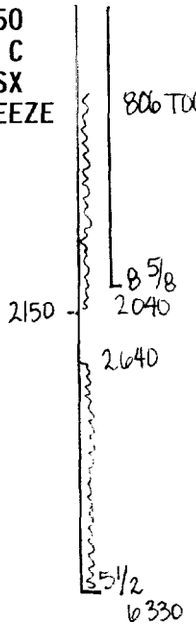
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK UNIT		
OPERATOR		LEASE		
98	268 FSL & 35 FWL	31	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

PERF. 5 1/2" 2150
PMPD. 200 CLASS C
FOLLOWED BY 50 SX
TOC-806'. RESQUEEZE
W/200 SXS



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1270 SX

TOC: SURF. feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 2000 SX

TOC: 806 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6330

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

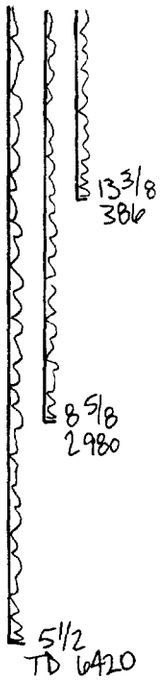
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK UNIT — LEASE

95 — WELL NO.
1585 FSL & 432 FWL — FOOTAGE LOCATION
31 — SEC.
T16S-R37E — TOWNSHIP RANGE



Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: SURF. feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1100 SX

TOC: SURFACE feet determined by CIRC.

Hole Size: 12 1/4

Long String

Size: 5 1/2 " Cemented with 1341 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 6420

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

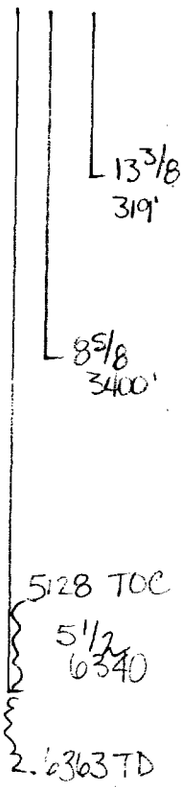
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		LOVINGTON PADDOCK		
OPERATOR		LEASE		
77	660 FNL & 660 FEL	12	T17S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

CONVERTED TO INJ. 12-9-66



Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 300 SX

TOC: SURFACE feet determined by CIRC.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1000 SX

TOC: SURFACE feet determined by CALC.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 250 SX

TOC: 5128 feet determined by CALC.

Hole Size: 7 7/8

Total Depth: 6363

Injection Interval

6156 feet to 6278 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a
(material)

(brand & model) packer at 6095 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation PADDOCK

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? NO
   If no, for what purpose was the well originally drilled? PROD.

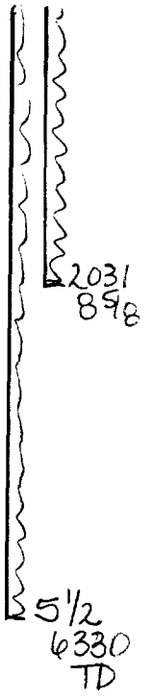
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PWTROLEUM CORPORATION		LOVINGTON PADDOCK UNIT		
OPERATOR		LEASE		
97	1228 FEL & 132 FSL	36	T16S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE



Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 1275 SX

TOC: SURF. feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 2200 SX

TOC: SURF. feet determined by CIRC.

Hole Size: 7 7/8

Total Depth: 6330

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

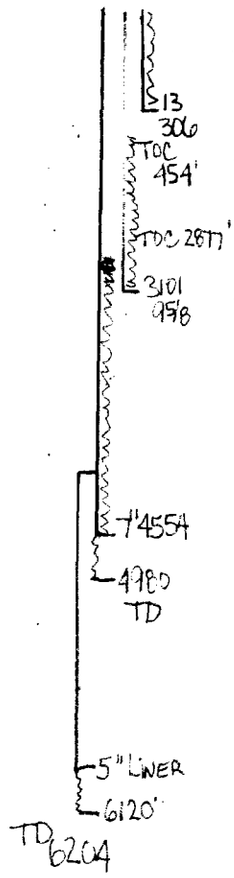
INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — OPERATOR
LOVINGTON PADDOCK — LEASE

82 — WELL NO.
660 FSL & 1980 FEL — FOOTAGE LOCATION
1 — SEC.
T17S-R36E — TOWNSHIP RANGE

RAN 5" LINER FROM 4404 TO 6120. 150 SX TD-6204,TOC-4554

P & A QUEEN ZONE 2-20-73, SQUEEZE PERFS 3891-3911 W/ 100 SXS. REVERSED OUT 72 SX.



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: SURFACE feet determined by CIRC.

Hole size: 171/4

Intermediate Casing

Size: 9 5/8 " Cemented with 550 SX

TOC: 454 feet determined by CALC.

Hole Size: 12

Long String

Size: 7 " Cemented with 300 SX

TOC: 2877 feet determined by CALC.

Hole Size: 8 3/4

Total Depth: 4980

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) PADDOCK

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PROD.

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NONE

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
GLORIETA

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION — LOVINGTON SAN ANDRES
OPERATOR — LEASE

68 — 238 FSL & 35 FWL — 31 — T16S-R37E
WELL NO. — FOOTAGE LOCATION — SEC. — TOWNSHIP — RANGE

THE WELL HAS NOT BEEN COMPLETED YET, AND WILL HAVE ADEQUATE CEMENT COVERAGE.

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with _____ SX

TOC: SURFACE feet determined by CIRC.

Hole size: 12 1/4

Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 500 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8

Total Depth: _____

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) LOVINGTON GRAYBURG SAN ANDRES

3. Is this a new well drilled for injection? NO
If no, for what purpose was the well originally drilled? PRODUCTION

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

UNDERLYING GRAYBURG

I

107

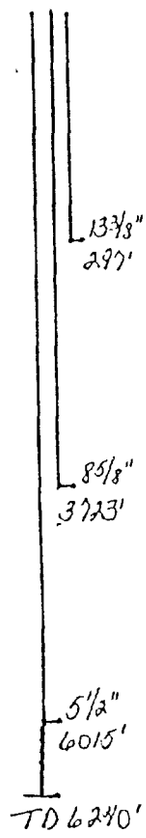
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#49	760 FNL & 660 FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed 8-18-53

Converted to Injection 12/66



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: ~~Surface~~ 390 feet determined by ~~calc~~ TS

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 550 SX

TOC: ~~3019~~ 3724 feet determined by ~~80% calc~~ TS

Hole size: 7-7/8"

Total Depth: 6240'

Injection Interval

6015 feet to 6140 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 5921 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

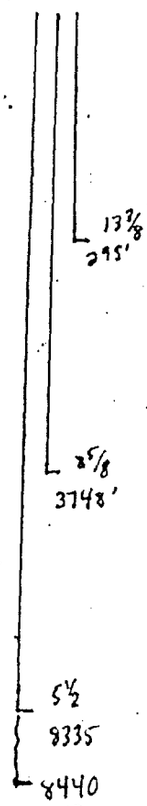
108
P

INJECTION WELL DATA SHEET

Amerada Hess	State L "A"			
OPERATOR	LEASE			
9	660' FNL & 1880' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed 6-24-52



Surface Casing

Size: 13-3/8 " Cemented with 225 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 1500 SX

TOC: ~~Surface~~ 1245 feet determined by ~~calc~~ TS

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 600 SX

TOC: 5597 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 8440'

Injection Interval

– feet to – feet

(perforated or open-hole, indicate which)

Tubing size – lined with – set in a

(material)

– packer at – feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

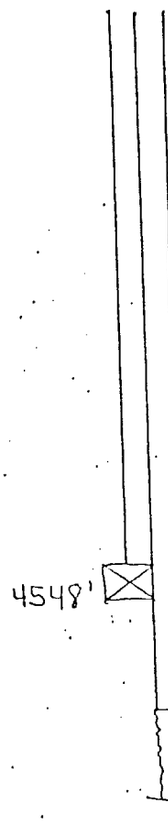
I

108

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit
OPERATOR	LEASE

#32	660 FNL & 1980 FEL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE



Completed
1/1/40

Tubular Data

Surface Casing

Size: 10 3/4 " Cemented with 180 SX

TOC: Surface feet determined by circulation

Hole size: 13 3/4

Intermediate Casing

Size: 7 5/8 " Cemented with 265 SX

TOC: 2200' feet determined by 50% calc

Hole Size: 9 7/8

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 2326 feet determined by 80% calc.

Hole Size: 6 3/4"

Total Depth: 4900'

Injection Interval

4589 feet to 4900 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC (material) set in a Baker "A" Pension (brand & model) packer at 4548 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

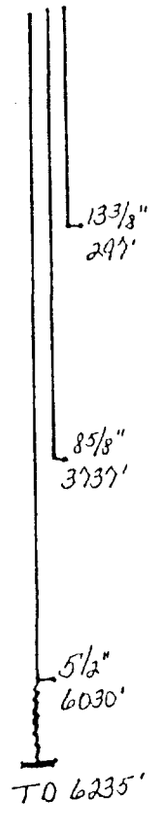
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#48	660' FNL & 2080' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13-3/8" Cemented with 300 SX Circ

TOC: Surface feet determined by ~~calc~~

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: 602 feet determined by temp survey

Hole size: 11

Long String

Size: 5-1/2" Cemented with 550 SX

TOC: 3712 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6235'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

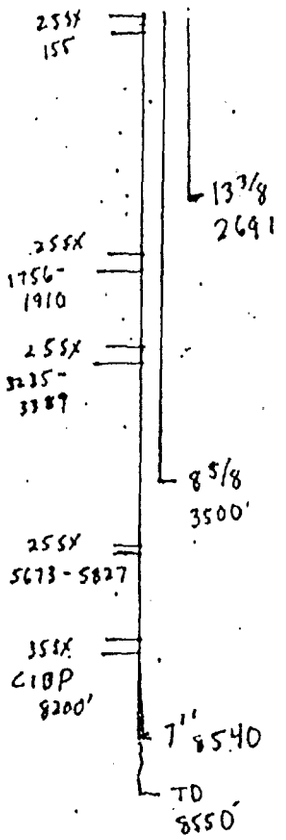
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Amoco	State "E" TR 18			
OPERATOR	LEASE			
15	330' FNL & 2310" FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
12-4-52

P&A'd
7-17-84



le sidetracked
1976, 120 sack
ug at 4715-4465
SX 6000-5900
SX 8200-7725

Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 275 SX

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 500 SX

TOC: 223 feet determined by 50% calc

Hole Size: 12-1/4"

Long String

Size: 5-1/2 " Cemented with 450 + 450 perlite SX

4910 original by temp survey

TOC: 1855 feet determined by temp survey · sidetrack

Hole Size: 8-3/4"

Total Depth: 8550'

Injection Interval

– feet to – feet

(perforated or open-hole, indicate which)

Tubing size – lined with – (material) set in a

– packer at – feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

I

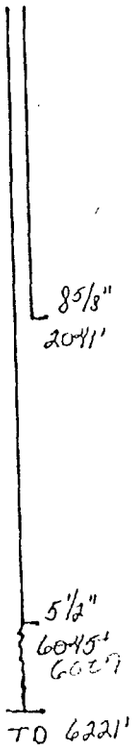
112

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#47	2310 ~~1930'~~ FWL & 660' FNL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
9-04-54



Surface Casing

Size: 8-5/8" Cemented with ~~1000~~ 1200 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with ~~182~~ 300 SX

TOC: ~~5053~~ 4147 feet determined by ~~80% calc~~ TS file

Hole size: 7-7/8"

Total Depth: 6221'

Injection Interval

6045 feet to 6221 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 5957 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

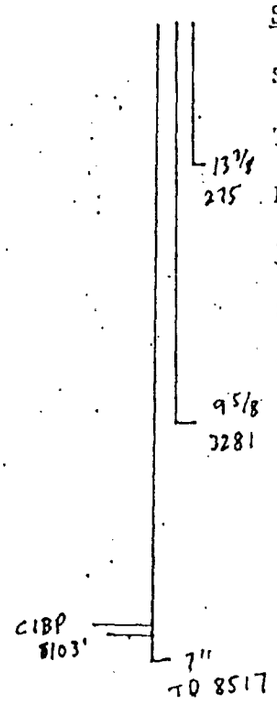
INJECTION WELL DATA SHEET

Amoco	State "E" TR 18			
OPERATOR	LEASE			
16	330' FNL & 990' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
2-25-53

P&A'd
4-26-84

CIBP set
@8103'
Pumped 15 sx
Set retainer
@ 4261'
Pumped 346 sx
Set retainer
@ 1326'
Pumped 900 sx
Spotted 15 sx
cement surface
plug



Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ.

Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX

TOC: ~~2050~~ 1536 feet determined by ~~50% calc~~ TS

Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 500 + 500 perlite SX

TOC: 4550 feet determined by temp survey

Hole Size: 8-3/4"

Total Depth: 8517'

Injection Interval

– feet to – feet
(perforated or open-hole, indicate which)

Tubing size – lined with – (material) set in a – (brand & model) packer at – feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

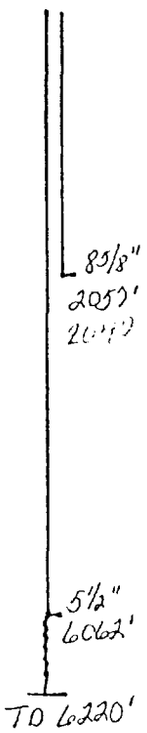
   Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#46	660' FNL & 990' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
11-20-54



Surface Casing

Size: 8-5/8" Cemented with 1250 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 12¼

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 350 SX

TOC: 3077 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6220'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with IPC set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

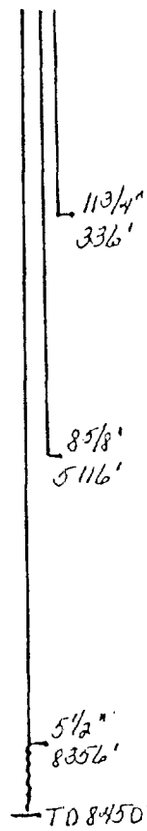
115

INJECTION WELL DATA SHEET

Penroc		State "E" TR 18		
OPERATOR		LEASE		
23	880' FNL & 790' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
3-17-73



Surface Casing

Size: 11-3/4" Cemented with 635 SX

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8" Cemented with 2800 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 1000 SX

TOC: 2908 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8450'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

---

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

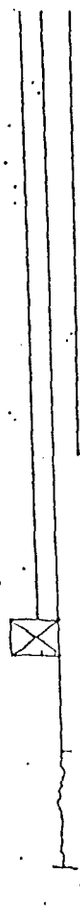
(Above) Drinkard

I

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#30	660 FNL & 660 FWL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 12/2/39



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 17 1/4

Intermediate Casing

Size: 8 5/8" Cemented with 500 SX

TOC: 1597 feet determined by 50% calc

Hole Size: 12"

Long String

Size: 5 1/2" Cemented with 300 SX

TOC: 2910 feet determined by 80% calc.

Hole Size: 7 7/8 "

Total Depth: 4970'

Injection Interval

4543 feet to 4970 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC (material) set in a Baker Model A (brand & model) packer at 4485 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

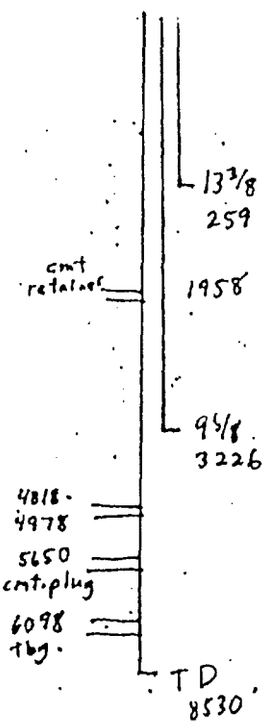
117

INJECTION WELL DATA SHEET

Amoco	State "E" TR 18			
OPERATOR	LEASE			
18	330' FNL & 330' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
6-12-53

P&A'd 11-7-83



Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 275 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8 " Cemented with 300 SX

TOC: ~~2246~~ 1600 feet determined by ~~50% calc~~ TS

Hole Size: 12-1/4"

Long String

Size: 7 " (4975) Cemented with 550+550 cu ft perlite SX

TOC: ~~553~~ feet determined by ~~80% calc~~ TS

Hole Size: 8-5/8"

Total Depth: 8530'

Injection Interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____ feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

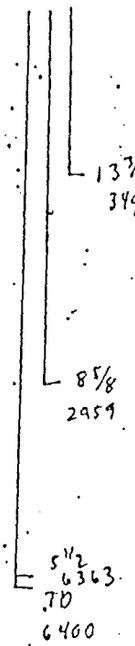
Missing pages 118 - 122

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. — OPERATOR
Lovington Paddock — LEASE

85 — WELL NO.
1590 FWL & 1417 FNL — FOOTAGE LOCATION
Sec. 1 — SEC.
T17S-R36E — TOWNSHIP RANGE

Tubular Data



Surface Casing

Size: 13 3/8 " Cemented with 500 SX

TOC: surface feet determined by ~~calc~~ circ.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 900 SX

TOC: 201 feet determined by 50% calc

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 1230 SX

TOC: surface feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 6400

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a

— (brand & model) packer at — feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —

2. Name of Field or Pool (If applicable) Lovington Paddock

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

(above) Glorieta

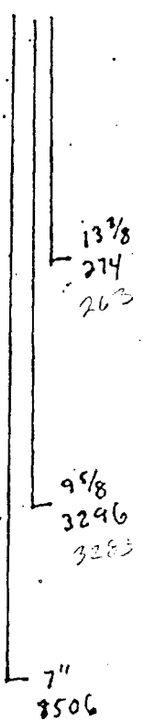
Missing pgs. 128 129

130
P

INJECTION WELL DATA SHEET

PENROC	State "E" TR 18			
OPERATOR	LEASE			
17	1650' FNL & 2310' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13-3/8" Cemented with 275 SX

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX

TOC: ~~2316~~ 1550 feet determined by ~~50% calc~~ TS

Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 500 +500 Poz/Lt SX

TOC: 5175 feet determined by Temp Survey

Hole Size: 8-3/4"

Total Depth: 8506'

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

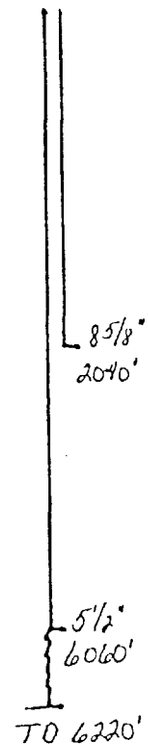
   Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#60	1980' FNL & 2310' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-11-54



Surface Casing

Size: 8-5/8" Cemented with 1200 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 12 1/4

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 350 SX

TOC: 3841 feet determined by temp survey f.l.

Hole size: 7 7/8"

Total Depth: 6220'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with IPC set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

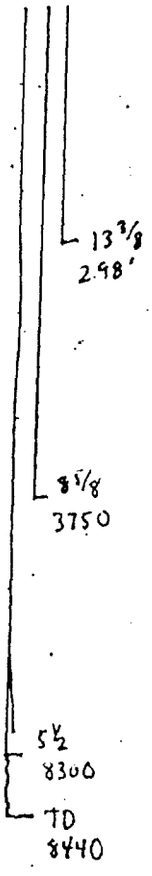
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

132
P

INJECTION WELL DATA SHEET

Amerada Hess	State L "A"			
OPERATOR	LEASE			
11	1650' FNL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
1-4-53



Tubular Data

Surface Casing

Size: 13-3/8 ". Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 1500 SX

TOC: ~~1264~~ Surface feet determined by ~~TS~~ calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 600 SX

TOC: 4908 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 8440'

Injection Interval

\- feet to - feet

(perforated or open-hole, indicate which)

Tubing size - lined with - (material) set in a

- (brand & model) packer at - feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   _____

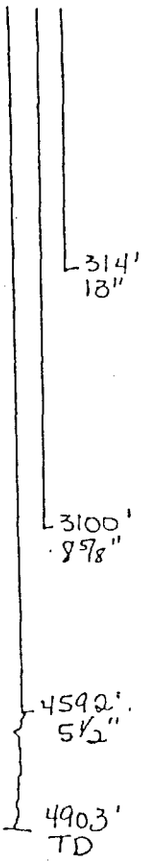
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#41	1980'FNL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 9-22-39



Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8" Cemented with 250 SX

TOC: 2332 feet determined by calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 200 SX

TOC: 3501 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 4903

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a — (brand & model) packer at — feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

I

134

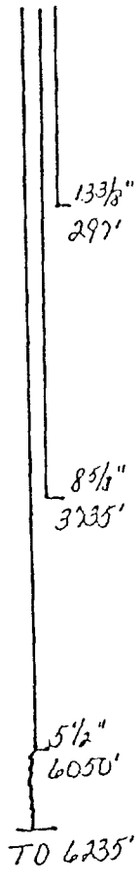
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#59	~~1650~~ 2020' FNL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-19-53

Converted to
Injection 9-73



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: ~~Surface~~ 1028 feet determined by ~~calc~~ TS

Hole size: 11

Long String

Size: 5-1/2" Cemented with 550 SX

TOC: ~~3054~~ 3618 feet determined by ~~80% calc~~ TS

Hole size: 7-7/8"

Total Depth: 6235

Injection Interval

6050 feet to 6235 feet
(perforated or open-hole, indicate which)

Tubing size 3" lined with IPC set in a - packer

at 5991 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

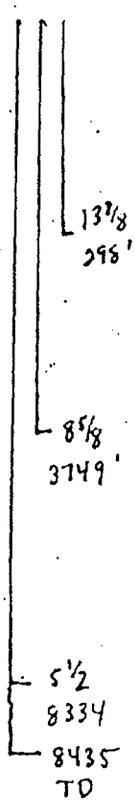
135
P

INJECTION WELL DATA SHEET

Amerada Hess		State L"A"			
OPERATOR		LEASE			
10	1650' FNL & 660' FEL	1	17S	36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Tubular Data

Completed 11-7-52



Surface Casing

Size: 13-3/8 " Cemented with 225 SX

TOC: Surface feet determined by ~~calc~~ circ.

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 1500 SX

TOC: ~~Surface~~ 1346 feet determined by ~~calc~~ TS

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 600 SX

TOC: 4972 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 8435'

Injection Interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a

(material)

_____ packer at _____ feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No

   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

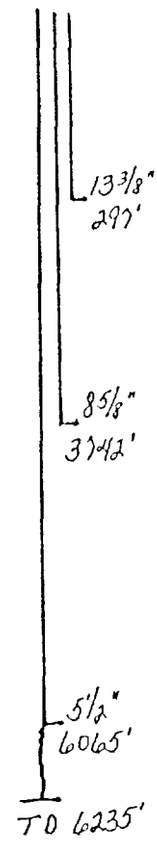
   Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#58	1980' FNL & 560' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-53



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8" Cemented with 1500 SX

TOC: 588 feet determined by temp survey

Hole size: 11

Long String

Size: 5-1/2" Cemented with ~~500~~ 550 SX

TOC: 3795 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6235

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

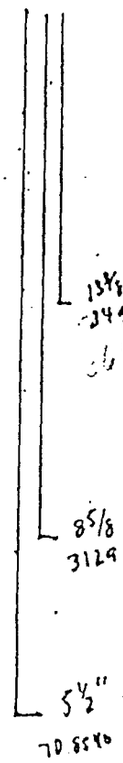
137
P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 57	1980' FNL & 695' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 6-13-52

Previously identified as a problem well. will correct as outlined on the attached C-103



Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8" Cemented with ~~1400~~ 1450 SX

TOC: Surface feet determined by calc

Hole Size: 11

Long String

Size: 5-1/2" Cemented with 550 SX ✓

TOC: ~~5454~~ 4820 feet determined by ~~calc~~ TS

Hole Size: 7 3/4

Total Depth: 8450

Injection Interval

~~6028~~ 6028 ~~8220~~ feet to 6187 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a

_____ (brand & model) packer at 6018 feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

Submit 3 Copies to Appropriate District Office

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

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Revised 1-1-89

137

WELL API NO.

5. Indicate Type of Lease STATE [ ] FEE [X]

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Lovington Paddock Unit

1. Type of Well: OIL WELL [X] GAS WELL [ ] OTHER Injection

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 57

3. Address of Operator: 16010 Barkers Point, Ste., 325, Houston, TX 77079

9. Pool name or Wildcat: Lovington Paddock

4. Well Location
Unit Letter E : 1980 Feet From The North Line and 695 Feet From The West Line

Section 6 Township 17S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER Cleanout, stimulate, raise cement & return to injection [X]		OTHER: [ ]	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) Run CBL to determine top of cement. Perforate 100 above top of cement
2) Mix and pump 600 sx class "C" with 16% gel followed by 300 sx class "C" neat
3) Spot 250 gals 15% HCL acid from 6300 to 6050
4) Set pkr. at 6010
5) Pressure test to meet state requirements
6) Stimulate hole with 2000 gal 15% NEFE NCL, and 10,000 gallons 15% NEFE HCL

THE COMMISSION MUST BE NOTIFIED
24 HOURS PRIOR TO COMMENCING WORK

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

SIGNATURE Michael J. Newport TITLE Land Manager-Permian Basin DATE 3-25-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE APR - 1 1991

CONDITIONS OF APPROVAL, IF ANY:

INJECTION WELL DATA SHEET

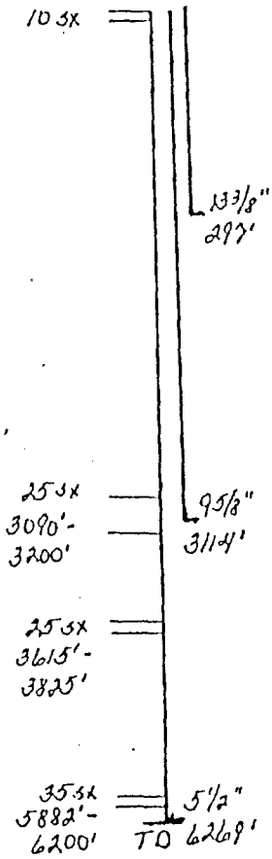
Sun Oil Company		M. Caylor		
OPERATOR		LEASE		
6	902' FWL & 1980' FNL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-15-53

P&A'd 3-9-70

5½ shot and pulled 3795



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with ~~1200~~ 1550 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with ~~450~~ 500 SX

TOC: 3270 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6269'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

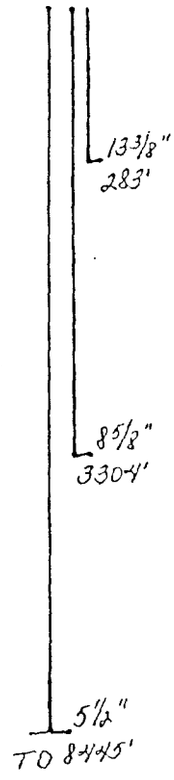
(Above) Glorieta

INJECTION WELL DATA SHEET

Penroc		C. S. Caylor		
OPERATOR		LEASE		
4F	1653' FNL & 1558' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
7-14-52



Surface Casing

Size: 13-3/8" Cemented with 280 SX

TOC: Surface feet determined by calc

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX

TOC: 853 feet determined by 50% calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: 4087 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8445'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   (Above) Drinkard

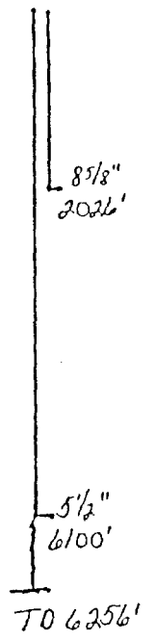
   _____

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#56	1650' FNL & 1733' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-7-53



Surface Casing

Size: 8-5/8" Cemented with 975 SX

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 4139 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6256'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
38	1650' FNL & 1980' FWL	6	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
9-16-39

Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4" 15

Intermediate Casing

Size: 9-5/8 " Cemented with 350 SX

TOC: 1804 feet determined by calc

Hole Size: 12" 12-1/4

Long String

Size: 7 " Cemented with 300 SX

TOC: 2707 feet determined by calc

Hole Size: 8-3/4" 8 1/4

Total Depth: 4945'

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — set in a
(material)
— packer at — feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

I

142

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#55	1879' FNL & 2248' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completion
6-20-53

Converted to
Injection 1/71

Surface Casing

Size: 8-5/8" Cemented with ~~1595~~ 1025 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 3971 feet determined by 80% calc

Hole size: 7 7/8

Total Depth: 6250'

Injection Interval

6120 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with IPC set in a - packer

at 6067 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

[illegible] 43.144

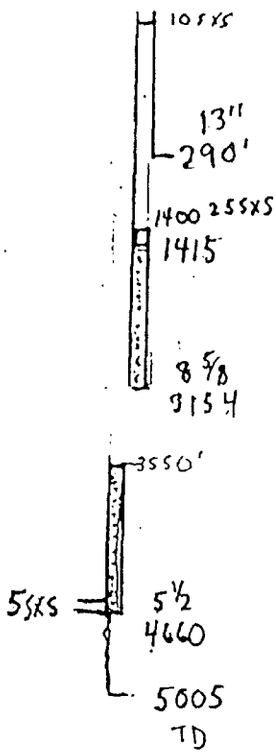
145

INJECTION WELL DATA SHEET

Samedan Oil Corp. — OPERATOR
Taylor — LEASE

1 — WELL NO.
330 Feet South of North Line 330 Feet East of West Line of SE/4 Sec. 6, T17S R37E — FOOTAGE LOCATION / SEC. / TOWNSHIP / RANGE

P&A
10/25/39



Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by circulation

Hole size: 15

Intermediate Casing

Size: ~~10~~ 8 5/8" Cemented with 500 SX

TOC: _____ feet determined by _____

Hole Size: 10

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 2814 feet determined by 80% calc

Hole Size: 7

Total Depth: 5005

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand & model) packer at _____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) _____

3. Is this a new well drilled for injection? _____
If no, for what purpose was the well originally drilled? _____

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

146

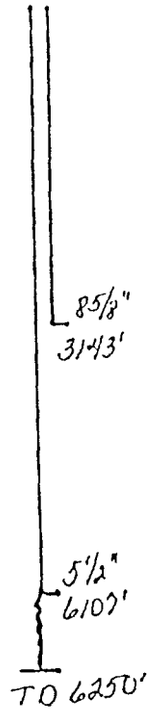
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#68	1980' FSL & 1890' FWL	6	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-23-53

Converted to
Injection 12-66



Surface Casing

Size: 8-5/8" Cemented with 1475 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX

TOC: 3928 feet determined by 80% calc

Hole size: 7-5/8"

Total Depth: 6250'

Injection Interval

6120 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6039 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

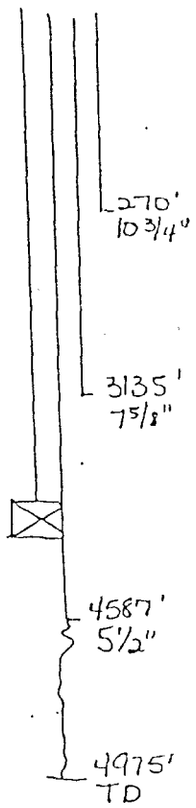
I

147

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#50	1980' FSL & 660' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
10-2-39



Tubular Data

Surface Casing

Size: 10-3/4 " Cemented with 200 SX

TOC: Surface feet determined by circ

Hole size: 13-3/4"

Intermediate Casing

Size: 7-5/8 " Cemented with 400 SX

TOC: 1026 feet determined by calc

Hole Size: 9-7/8"

Long String

Size: 5-1/2 " Cemented with 175 SX

TOC: 2611 feet determined by calc

Hole Size: 6-3/4"

Total Depth: 4975'

Injection Interval

4587 feet to 4975 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a R-3 Tension (brand & model) packer at 4460 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

148
P

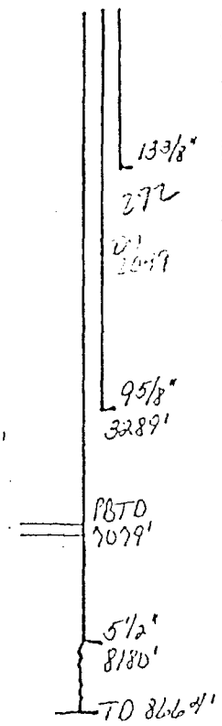
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#67	~~2210~~ 2310' FSL & 660' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
1-23-54

previously identified as a problem well. will correct as outlined on the attached C-103



Surface Casing

Size: 13-3/8" Cemented with 275 SX

TOC: Surface feet determined by circ calc

Hole size: 17 1/2

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX { 150 at and below DV Tool

TOC: 2497 feet determined by 70% calc

Hole size: 12 1/2

Long String

Size: 5-1/2" Cemented with 810 SX +810 cu ft perlite

TOC: 4525 feet determined by temp survey

Hole size: 8 3/4

Total Depth: 8664'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Submit 3 Copies to Appropriate District Office

Energy, Minerals and Natural Resources Department

148

Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

WELL API NO.

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: LOVINGTON PADDOCK UNIT

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER INJECTION

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No. 67

3. Address of Operator: 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077

9. Pool name or Wildcat: LOVINGTON PADDOCK

4. Well Location
Unit Letter L : 2310 Feet From The SOUTH Line and 660 Feet From The WEST Line

Section 6 Township 17 S Range 37 E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	PLUG AND ABANDONMENT	☐
PULL OR ALTER CASING	☐			CASING TEST AND CEMENT JOB	☐		
OTHER: CONVERT TO INJECTION & RAISE CMT. TOP	☒			OTHER:			☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) RUWL AND RUN GR-CCL-CBL FROM 7050' TO 200' ABOVE TOC.
2) RIH W/PERF. GUN AND PERFORATE 100' ABOVE TOC.
3) MIX & PUMP 600 SXS CLASS C FOLLOWED BY 300 SXS CLASS C.
4) RUWL AND RUN TS TO LOCATE NEW TOC. PRESSURE TEST SQUEEZE TO 500 PSI FOR 5 MINS.
5) TIH WITH NEW 5 1/2" PKR. (PKR AD-1) ON 2 3/8" IPC & SET PKR. 6000'.
6) INSTALL INJECTION WELLHEAD AND PRESSURE TEST ANUULUS TO MEET STATE REQUIREMENTS.
7) STIMULATE OH WITH 15 TONS CO^2 FOLLOWED BY 10000 GAL NEFE HCL.

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

SIGNATURE Richard Newport TITLE Land Manager-Permian Basin DATE 5-8-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#61	2545' FNL & 100' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
3-15-90

Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 450 SX

TOC: Surface feet determined by circ.

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 800 SX

TOC: Surface feet determined by calc

Hole Size: 12-1/4"

Long String

Size: 5-1/2 " Cemented with 940 SX

TOC: 262 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 5400'

Injection Interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

SWD
TA

150

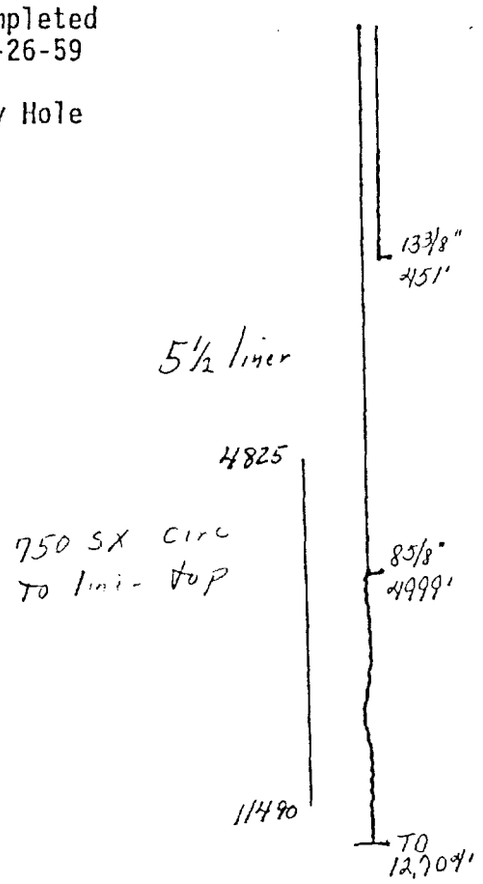
INJECTION WELL DATA SHEET

Araho		State L "C"		
OPERATOR		LEASE		
SWD 1-I	2190' FSL & 560' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
11-26-59

Dry Hole
TA



Surface Casing

Size: 13-3/8" Cemented with 450 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/2"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 8-5/8" Cemented with 1500 SX

TOC: ~~Surface~~ 2765 feet determined by ~~80% calc~~ TS

Hole size: 11"

Total Depth: 12,704

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable)

3. Is this a new well drilled for Injection?
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   _____

151

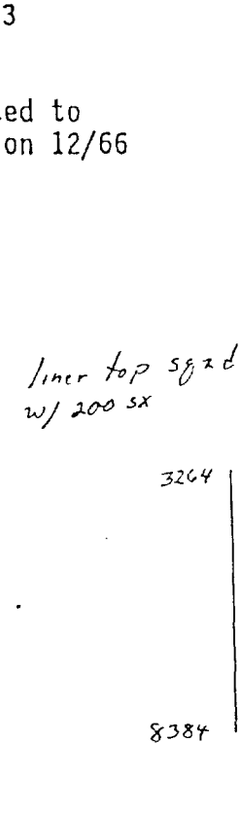
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#66	1980 ~~2080~~' FSL & 660' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-16-53

Converted to
Injection 12/66



Surface Casing

Size: 10-3/4" Cemented with 500 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 15

Intermediate Casing

Size: 7-5/8" Cemented with 2400 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 9-7/8"

Long String

Size: 5-1/2" Cemented with 950 SX

TOC: Surface feet determined by ~~80% calc~~ file

Hole size: 6-3/4"

Total Depth: ~~8394'~~ 8662

Injection Interval

6134 feet to 6240 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer

at 6066 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Glorieta

152

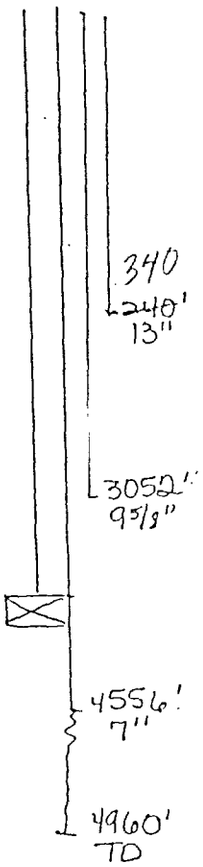
I

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#49	1980' FSL & 660' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 7-2-39

Converted 7-14-76



Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by circ.

Hole size: ?

Intermediate Casing

Size: 9-5/8" Cemented with 250 SX

TOC: 2350 feet determined by calc

Hole Size: ?

Long String

Size: 7 " Cemented with 259' SX

TOC: 3090 feet determined by calc

Hole Size: ?

Total Depth: 4960'

Injection Interval

4556 feet to 4960 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a Baker Model AD-1 (brand & model) packer at 4417 feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

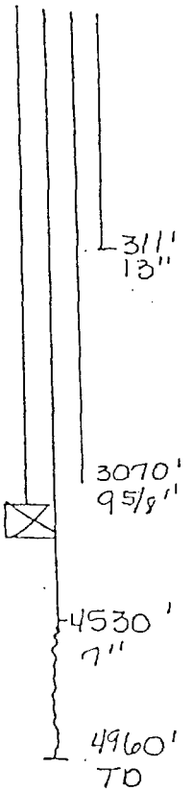
I

153

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#48	1980' FSL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
5-21-39



Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 250 SX

TOC: 2251 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 225 SX

TOC: 3119 feet determined by calc

Hole Size: 8-3/4"

Total Depth: 4960'

Injection Interval

4530 feet to 4960 feet
(perforated or open-hole, indicate which)

Tubing size 2-7/8" lined with IPC (material) set in a Baker Model 'A' (brand & model) packer at 4526 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

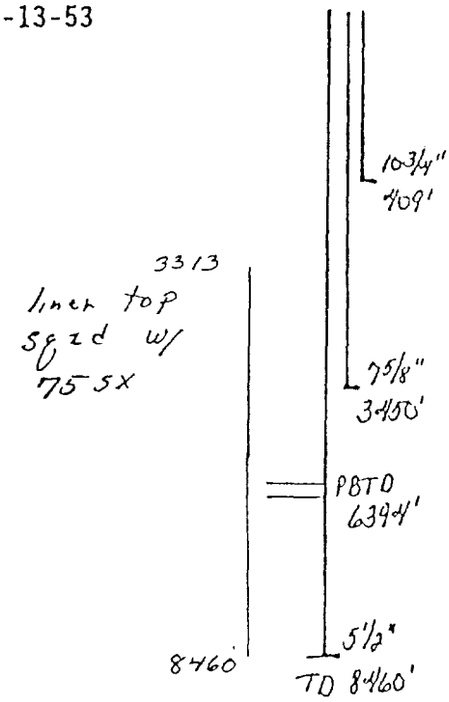
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying-Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#65	2310' FSL & 2310' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
6-13-53



Surface Casing

Size: 10-3/4" Cemented with 500 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 15

Intermediate Casing

Size: 7-5/8" Cemented with 1136 SX

TOC: Surface feet determined by calc

Hole size: 9 7/8

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: 3780 feet determined by temp survey

Hole size: 6 3/4

Total Depth: 8460'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
   No

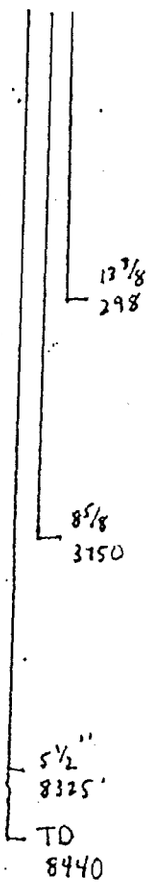
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

155
P

INJECTION WELL DATA SHEET

Amerada Hess		State L "A"			
OPERATOR		LEASE			
12	2310' FSL & 2310' FWL	1	17S	36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Completed
2-23-53



Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 250 SX

TOC: Surface feet determined by ~~calc~~ circ.

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 1500 SX

TOC: ~~Surface~~ 1039 feet determined by ~~calc~~ TS

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 600 SX

TOC: 5614 feet determined by temp survey ✓

Hole Size: 7-7/8"

Total Depth: 8440'

Injection Interval

— feet to — feet

(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a

— (brand & model) packer at — feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

Missing pages 156 – 163

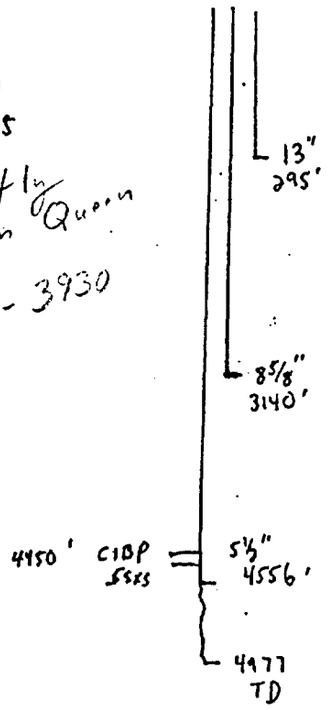
INJECTION WELL DATA SHEET

Penroc Oil Corporation — OPERATOR
State E TR.17 — LEASE

5 — WELL NO.
990 FSL & 660 FEL — FOOTAGE LOCATION
/ — SEC.
T17S R36E — TOWNSHIP RANGE

TA - 10/1/49
TA - 4/20/65

Currently Perf in Queen 3908 - 3930



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circ.

Hole size: 17

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SX

TOC: 1550 feet determined by 50% calc

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 300 SX

TOC: 2921 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 4977

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a — (brand & model) packer at — feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —
2. Name of Field or Pool (If applicable) Loving-Tom Queen
3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? production
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Below Grayburg

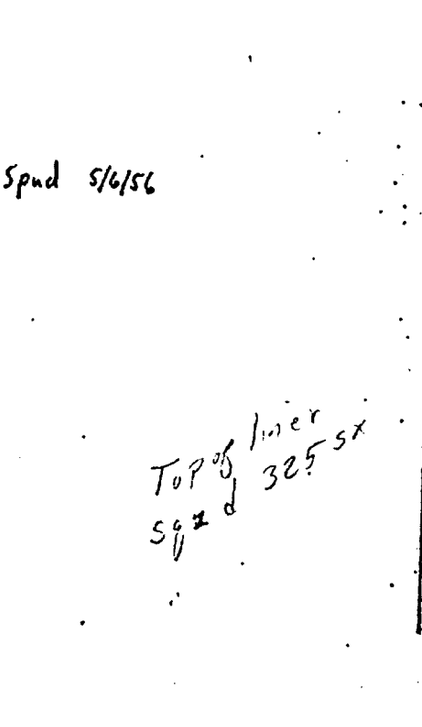
165
P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. — OPERATOR
Lovington Paddock — LEASE

71 — WELL NO.
660 FSL & 660 FEL — FOOTAGE LOCATION
1 — SEC.
T17S - R36E — TOWNSHIP RANGE

Tubular Data



Surface Casing

Size: 13 3/4 " Cemented with ~~1950~~ 350 SX

TOC: Surface feet determined by circulation

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1950 SX

TOC: ~~surface~~ 175 feet determined by f/c calc.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with ~~560~~ 225 SX

TOC: ~~5019~~ 5000 feet determined by 80% calc f/c

Hole Size: _____

Total Depth: 6300

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a — (brand & model) packer at — feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —

2. Name of Field or Pool (If applicable) Paddock

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Above Glorieta

Missing pg. 166

INJECTION WELL DATA SHEET

Texaco (OPERATOR) — C. S. Caylor (LEASE)

4 (WELL NO.) — 2179' FNL & 2173' FEL (FOOTAGE LOCATION) — 6 (SEC.) — 17S (TOWNSHIP) — 37E (RANGE)

Completed
8-14-52

Recompleted
San Andres
6-14-89

PBTD 7915
Perf 4600-4784'

Dec 87
Sq'z 5½ csg @ 4981'
50 sx w/100 sx
rev out 38 sx

May 80
Sq'z 5½ from 5010 to
4995 w/50 sx

13 3/8 244'

8 5/8 3253

7915 PBTD

5½ 8200

TD 8665

Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 250 SX

TOC: Surface feet determined by circ ~~calc~~

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8 " Cemented with 1800 SX

TOC: Surface feet determined by circ ~~calc~~

Hole Size: 12-1/4"

Long String

Size: 5-1/2 " Cemented with 600 SX

TOC: 4377 feet determined by 80% calc

Hole Size: 7-7/8"

Total Depth: 8665'

Injection Interval

____ - ____ feet to ____ - ____ feet
(perforated or open-hole, indicate which)

Tubing size ____ - ____ lined with ____ - ____ (material) set in a ____ - ____ (brand & model) packer at ____ - ____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation ____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Above Drinkard

INJECTION WELL DATA SHEET

Oryx Energy Company		Maggie Caylor		
OPERATOR		LEASE		
3	660' FNL & 665' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

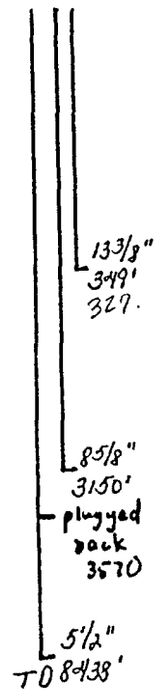
Tubular Data

Completed
3-19-52

Sidetrack
6-28-90

Well Plugged
Back to 3570'
Wellbore has
8-5/8" csg.
set @ 3150' &
cmtd. w/1200
sxs
sidetracked

5½ rel @ at 5297
30sx b/low 170 above
TOC 3570



Surface Casing

Size: 13-3/8" Cemented with 300 SX

TOC: Surface feet determined by ~~calc~~ circ

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8" Cemented with 1200 SX

TOC: Surface feet determined by calc

Hole size: 11"

original TOC 5712 Temp survey

Long String

Size: 5-1/2" Cemented with 410 SX

TOC: ~~6057~~ 3117 feet determined by ~~80% calc~~ tempsurvey provided by oryx

Hole size: 7-3/4"

Total Depth: 8438'

Injection Interval

- feet to - feet
(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

at - feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for Injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

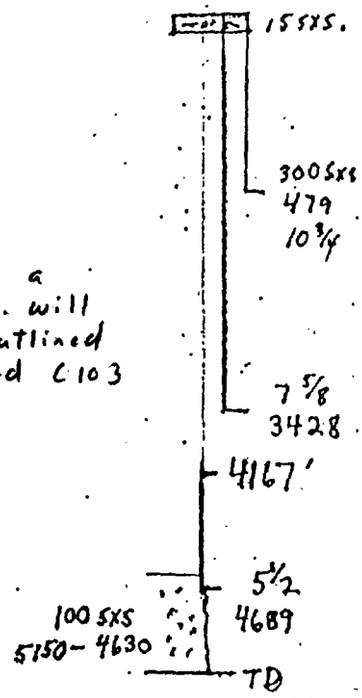
   (Above) Drinkard

INJECTION WELL DATA SHEET

Tidewater Associated Oil Co. — OPERATOR
H.T. Monteith — LEASE

1 — WELL NO.
NE SW — FOOTAGE LOCATION
25 — SEC.
T16S R 36E — TOWNSHIP RANGE

148 previously identified as a problem well. will correct as outlined on the attached C 103



Tubular Data

Surface Casing

Size: 10 3/4" Cemented with 300 SX

TOC: Surf. feet determined by circ.

Hole size: 13 3/4

Intermediate Casing

Size: 7 5/8" Cemented with 1200 SX

TOC: Surface feet determined by circ.

Hole Size: 9 7/8

Long String

Size: 5 1/2" Cemented with 100 SX

TOC: 4144 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: ~~4954~~ 5150

Injection Interval

— feet to — feet
(perforated or open-hole, indicate which)

Tubing size — lined with — (material) set in a — (brand & model) packer at — feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation —

2. Name of Field or Pool (If applicable) San Andres

3. Is this a new well drilled for injection? —
If no, for what purpose was the well originally drilled? production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
—

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
—

Submit 3 Copies to Appropriate District Office

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

(169)

Form C-103
Revised 1-1-89

WELL API NO.

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: H.T. MONTIETH

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER PLUGGED & ABANDONED

2. Name of Operator: Greenhill Petroleum Corporation

8. Well No.: 1

3. Address of Operator: 11490 WESTHEIMER, STE., 200, HOUSTON, TX 77077

9. Pool name or Wildcat: LOVINGTON FIELD

4. Well Location
Unit Letter N : 1650 Feet From The SOUTH Line and 2335 Feet From The WEST Line

Section 25 Township 16S Range 36E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐		CASING TEST AND CEMENT JOB ☐	
OTHER: DRILLOUT AND REPLUG PER NMOC ☒		OTHER: ☐	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) MIRU CLEAN OUT 8 5/8" CSG. TO 4167'. CLEAN OUT 5 1/2" CSG. TO 4250'.
2) MIRU CMT. EQUIPMENT. PU TBG. TO 4217'. SPOT 40 SX PLUG AND POOH TO 2100'. WOC 4 HRS. AND TIH. POOH TO 2162.
3) SPOT 50 SX CMT. PLUG AND POOH TO 1000'. WOC. 4 HRS. POOH TO 60'.
4) SPOT 10 SX SURFACE PLUG.

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

SIGNATURE Michael J. Newport TITLE Land Manager-Permian Basin DATE 5-9-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

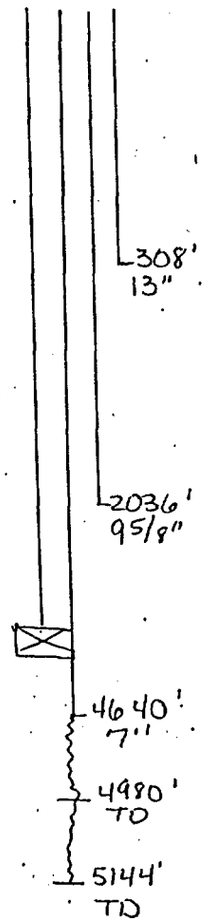
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#57	660 FSL & 660 FWL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
8/25/39

Deepened
5144'
11/86

Approved to convert to injection Order No. R9431 2/7/91



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 17"

Intermediate Casing

Size: 9 5/8" Cemented with 200 SX

TOC: 1509 feet determined by 70% calc

Hole Size: 12 1/4 "

Long String

Size: 7 " Cemented with 250 SX

TOC: 3266 feet determined by 70% calc

Hole Size: 8 3/4"

Total Depth: 5144'

Injection Interval

4640 feet to 5144 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
(material)

waterflood tension packer at 4620 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#39	1985 FNL & 610 FWL	6	T17S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 10/28/39

Approved to convert to injection ORDER No. R 9431 2/7/91

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 15"

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SX

TOC: 1506 feet determined by 50% calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX

TOC: 3265 feet determined by 80% calc

Hole Size: 8 3/4

Total Depth: 4945'

Injection Interval

4522 feet to 4975 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
(material)
(brand & model) packer at 4570 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

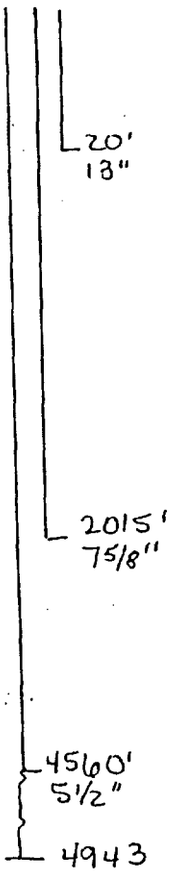
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#37	330' FNL & 990' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 7-24-46

Deepen to 5030

Approved to convert to injection Order No. 9431 2/7/91



Tubular Data

Surface Casing

Size: 13 " Cemented with 20 SX

TOC: Surface feet determined by circ

Hole size: 15"

Intermediate Casing

Size: 7-5/8 " Cemented with 500 SX

TOC: Surface feet determined by calc

Hole Size: 9-3/4"

Long String

Size: 5-1/2 " Cemented with 290 SX

TOC: Surface feet determined by calc

Hole Size: 6-1/4"

Total Depth: 4943'

Injection Interval

4560 — feet to 5030 — feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 — lined with — IPC (material) set in a — (brand & model) packer at 4510 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying-Grayburg

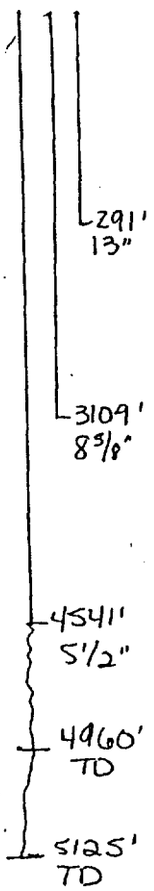
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#31	660' FNL & 1980' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
12-22-39

Deepened
6-20-87

Approved to convert to injection order No. 9431
2/7/91



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8 " Cemented with 500 SX

TOC: 2021 feet determined by calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 325 SX

TOC: 2890 feet determined by calc 80%

Hole Size: 7-7/8"

Total Depth: 5125

Injection Interval

4541 feet to 5125 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a water flood tension (brand & model) packer at 4499 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   NO

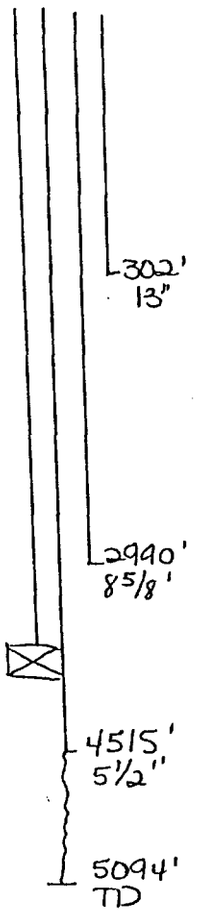
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Greenhill Petroleum Corporation	Lovington San Andres			
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE
#25	1980' FEL & 660' FSL	36	16S	36E

Completed
10-18-39

Approved to convert to injection Order No. R 9431 2/7/91



Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8 " Cemented with 400 SX

TOC: 1765 feet determined by calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 200 SX

TOC: 3424 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 5094'

Injection Interval

4515 feet to 5090 feet
(perforated or open-hole, indicate which)

Tubing size 2- /8 lined with IPC (material) set in a waterflood tension (brand & model) packer at 4495 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
15	1650' FSL & 1650' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
6-1-39

Deepened
7-23-86

Approved to convert to injection Order No. R 9431 2/7/91

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 400 SX

TOC: 1818 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX

TOC: 3840 feet determined by calc

Hole Size: 8-3/4"

Total Depth: 5110'

Injection Interval

4531 feet to 5110 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a Waterflood tension packer at 4510' feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Underlying-Grayburg

INJECTION WELL DATA SHEET

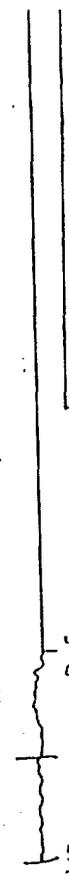
Greenhill Petroleum Corporation — OPERATOR
Lovington San Andres Unit — LEASE

#12	1980' FSL & 1980' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 7-5-45

Deepened 7/87

Approved to convert to Injection Order No. R9431



Tubular Data

Surface Casing

Size: _____" Cemented with _____ SX

TOC: _____ feet determined by _____

Hole size: _____

Intermediate Casing

Size: 8-5/8" Cemented with 500 SX

TOC: surface feet determined by calc 80%

Hole Size: 11"

Long String

Size: 5-1/2" Cemented with 450 SX

TOC: 2435 feet determined by calc 80%

Hole Size: 7-7/8"

Total Depth: 5055'

Injection Interval

4580 feet to 5055 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a Waterflood-tension packer (brand & model) packer at 4560 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

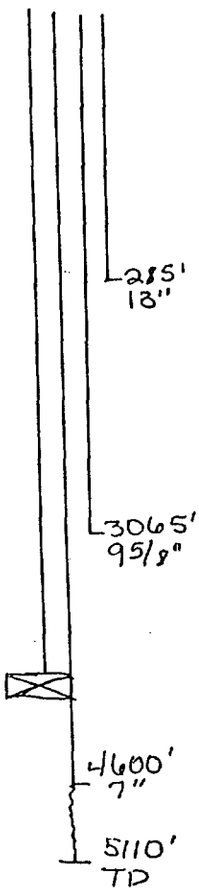
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#10	1980' FNL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by Circulation

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 250 SX

TOC: 2246 feet determined by Calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 225 SX

TOC: 3189 feet determined by Calc

Hole Size: 8-3/4"

Total Depth: 5110'

Injection Interval

4600 feet to 5110 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC (material) set in a Waterflood-tension packer (brand & model) packer at 4580 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

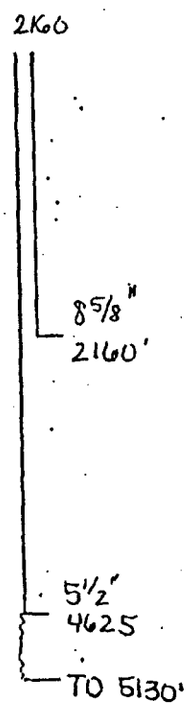
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying-Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit		
OPERATOR	LEASE		
#5	660 FNL & 600 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Completed 1/30/40

Approved to Convert to Injection Order No. R 9431

Surface Casing

Size: 8 5/8" Cemented with 400 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: ____" Cemented with ____ SX

TOC: ____ feet determined by ____

Hole Size: ____

Long String

Size: 5 1/2" Cemented with 200 SX

TOC: 3535' feet determined by 80% calc

Hole Size: 7 7/8"

Total Depth: 5130'

Injection Interval

4625 feet to 5130 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC (material) set in a

waterflood tension packer (brand & model) packer at 4605 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#3	660 FNL & 1980 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed 11/19/45

deepen to 5090

Approved to convert to injection Order No. R 9431

2082

4618

4625 TD

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 450 SX

TOC: Surface feet determined by calc.

Hole size: 11

Intermediate Casing

Size: _____" Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: 5 1/2" Cemented with 375 SX

TOC: 2575 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 4625'

Injection Interval

4618 feet to 5090 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC (material) set in a waterflood tension packer (brand & model) packer at 4598 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (If applicable) Lovington San Andres

3. Is this a new well drilled for injection? No
   If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
   No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Underlying - Grayburg

71
P

INJECTION WELL DATA SHEET

Penroc	State AE			
OPERATOR	LEASE			
1	~~4950' FNL & 4290' FEL~~ 330 FSL 990 FWL	36	16S	~~36E~~
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Completed
11-1-52

13 3/8
314'

8 5/8
3350'

5 1/2"
T08430

Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 350 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8 " Cemented with 1900 SX

TOC: Surface feet determined by ~~calc~~ Circ

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 400 SX

TOC: 6251 feet determined by 80% calc

Hole Size: 7-7/8"

Total Depth: 8430'

Injection Interval

____ feet to ____ feet
(perforated or open-hole, indicate which)

Tubing size ____ lined with ____ (material) set in a ____ (brand & model) packer at ____ feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation ____

2. Name of Field or Pool (If applicable) Lovington Abo

3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production

4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Drinkard

GREENHILL PETROLEUM CORPORATION

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

Incorporated In Delaware, U.S.A.

June 4, 1991

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Attn: David Catanach

Re: Lovington Paddock Unit
Lea County, NM

Enclosed please find the Affidavit that summarizes the Legal Notice that was run in the Hobbs Daily News Sun. This Affidavit is required pursuant to our application to convert the following wells from producers to injection wells in the Lovington Paddock Area:

Well Nos. 5, 7, 16, 18, 41, 37, 58, 56, 67, 71

Sincerely,

Michael J. Newport
Land Manager-Permian Basin

MJN:jb

Enclosure

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of

One weeks.
Beginning with the issue dated

May 15, 19 91
and ending with the issue dated

May 15, 19 91

Kathi Bearden
General Manager

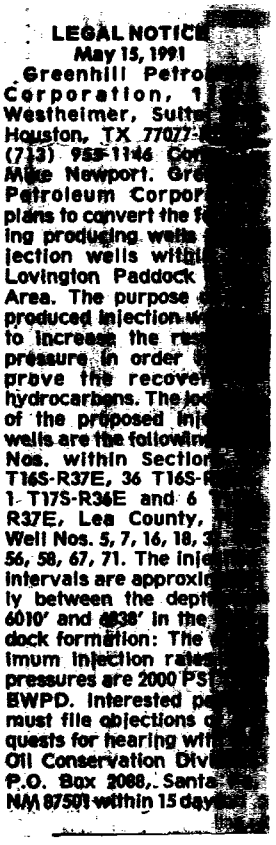
Sworn and subscribed to before me this 29 day of May, 19 91

Rhonda Copeland
Notary Public.

My Commission expires

July 24, 1991
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.



LEGAL NOTICE
May 15, 1991
Greenhill Petro
Corporation, 1
Westheimer, Suit
Houston, TX 77077-
(713) 955-1146 Co
Mike Newport. Gre
Petroleum Corpor
plans to convert the f
ing producing wells
jection wells with
Lovington Paddock
Area. The purpose
produced injection w
to increase the re
pressure in order
prove the recove
hydrocarbons. The lo
of the proposed inj
wells are the followi
Nos. within Sectio
T16S-R37E, 36 T16S-
1 T17S-R36E and 6
R37E, Lea County,
Well Nos. 5, 7, 16, 18, 3
56, 58, 67, 71. The inje
intervals are approxi
ly between the dept
6010' and 6838' in the
dock formation: The
imum injection rate
pressures are 2000 PS
BWPD. Interested p
must file objections
quests for hearing wi
Oil Conservation Div
P.O. Box 2088, Santa
NM 87501 within 15 day