



GREENHILL PETROLEUM CORPORATION

DIVISION

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

9 14

Incorporated in Delaware, U.S.A.

November 7, 1990

State of New Mexico
Energy and Minerals Dept.
Oil Conservation Dept.
State Land Office Bldg.
P.O. Box 2088
Santa Fe, NM 87501

Attn: Mr. David Catanach

Re: Lovington Paddock
Lea County, NM

Enclosed please find the C-108 and attachments covering the conversion to injection wells in the Lovington Paddock Unit Area. We propose converting the following wells:

Well Numbers: 12, 14, 20, 22, 24, 28, 31, 32, 39, 46, 48, 50, 52, 54,
60

Please call me at (713) 955-1146 in the event you have any additional questions.

Sincerely,

Mike Newport
Landman

MJN:JB
Enclosures

cc. State of New Mexico
Oil Conservation District 2
P.O. Box 1980
Hobbs, NM 88240-1980

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Greenhill Petroleum Corporation
Address: 16010 Barkers Pt., Ste., 325, Houston, TX 77079
Contact party: Mike 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? ☒ yes ☐ no
If yes, give the Division order number authorizing the project R184.
- 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 Landman
Signature: *Michael J. Newport* Date: 10/30/90
- * 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.

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.

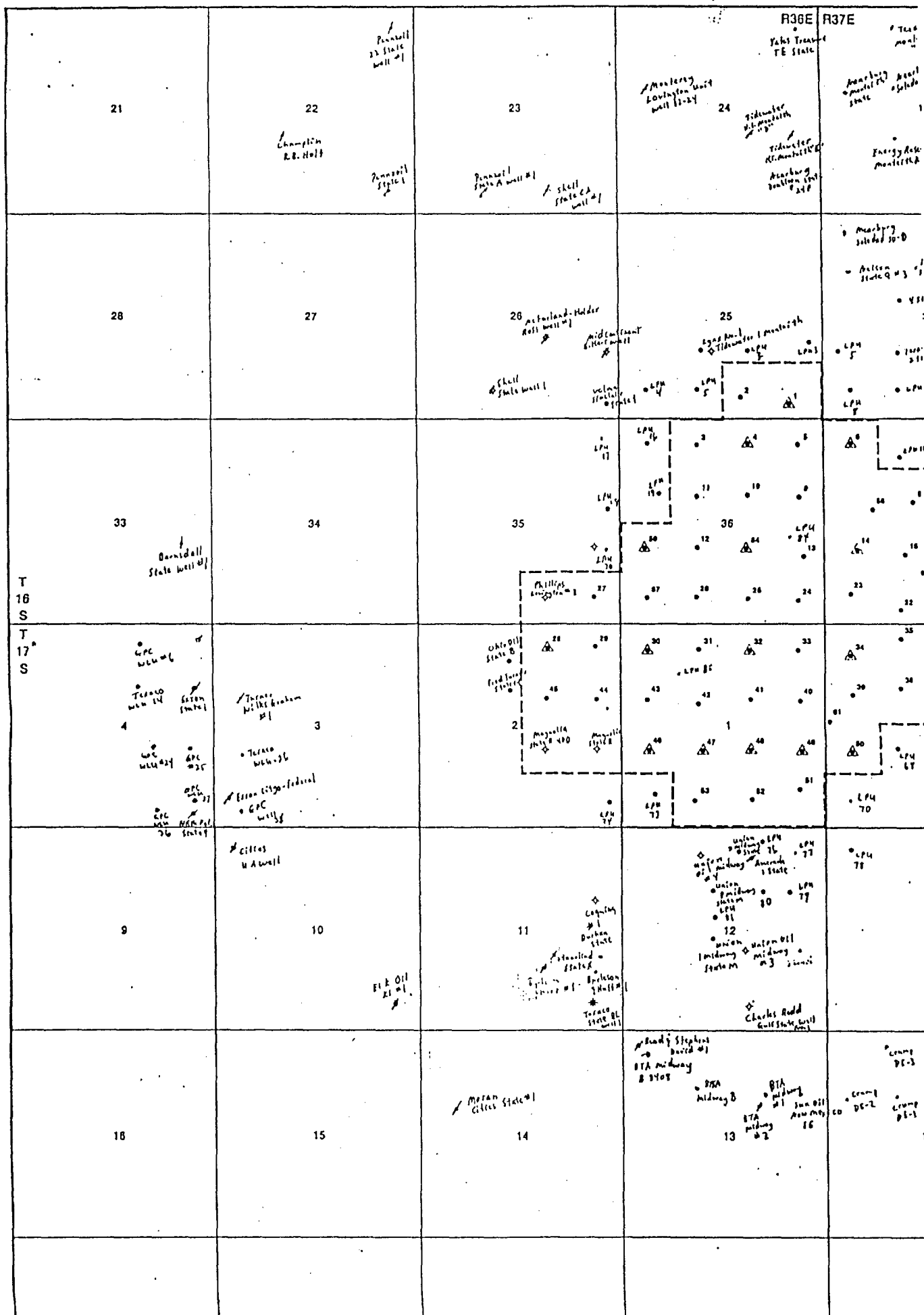
Page 3
Continuation

24 P

- Texaco 10 State 0, Penroc 4 State 182A, Texaco 12 State 0,
Getty 2 State M, Texaco 9 State 0, Arco 182 A3, Rice 31 SWD,
10P, 11P, 12P, 6SA, 9SA, 22P, 23P, 58SA, 24P, 8SA, 7SA, 25P,
26P, 16SA, 60SA, 27P, 15SA, 14SA, 28P, 13SA, 38P, 23SA, 22SA,
37P, 21SA

			Tel con 7/1/93	Union Texas 8/1/94	Yates	Mobil	R36E Yates ↑	R37E Skullon oil	Town
21			Hess	Yates V/S	Sohio 7/1/92	Sohio	Sohio		Nearburg
	22	Bonneville Fuels J 10/4/92	Yates 11/1/93	O'Neill Propulsion 8/1/93	←→	Tipperary oil 3/1/92	Yates 3/1/92	Yates ↓	Nearburg Skullon
		Yates	Hess	Tipperary oil	Texaco	Tipperary oil	open	"P.O. Citrus Service"	Fina
28				Sohio	Sohio	Texaco			Fina
	27	Terra	Union Texas	26	Condo Expl.	Mobil			Fina
				winter oil	Texaco				
		Yates	Yates	Exxon	Exxon	Texaco			
	33	Pogo	Yates	Texaco	34	Hess			
T 16 S		Texaco		Yates					
T 17 S		Amoco	Fred Turner	Mobil	Marathon				
	4		BTA	Amoco					
		Phillips	Cities	BTA	Phillips	Mobil			
		Texaco				Mobil			Texaco Phillips
		Exxon	Yates		Texaco		Union		Phillips Texaco
	9	open	10	BTA	11		Hess		
						Union	↔	Union	Drexel Sohio
							Union		
		Meridian			M.J. Hurvey	Read & Stephens	↔		B.P.
16					Read Stevens	David Petroleum			
	15			14	BTA				open
					open			David Petroleum	

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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 DataSurface CasingSize: 13 3/8 " Cemented with 350 SXTOC: Surface feet determined by calc.Hole size: 17 1/4Intermediate CasingSize: 9 5/8 " Cemented with 2600 SXTOC: Surface feet determined by calc.Hole Size: 12 1/4Long StringSize: 7 " Cemented with 450 SXTOC: 2675 feet determined by 70%Hole Size: 8 1/4Total Depth: 6250'Injection Interval6115 feet to 6248 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
AD 1 PC (material)
 packer at 6100 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

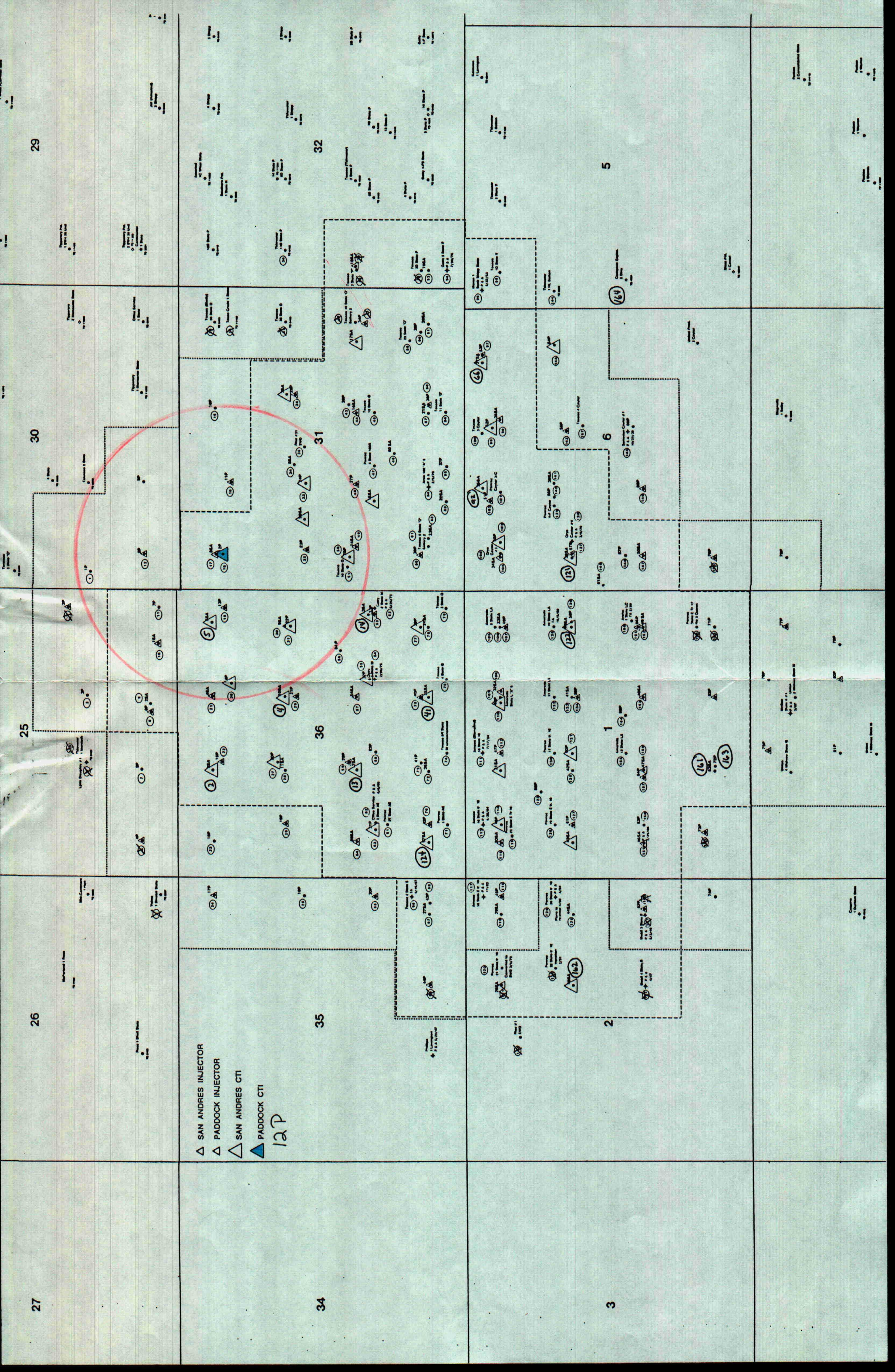
- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and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

Spud Date
4-5-53

13 3/8 " 324'
 9 5/8 " 4699'
 7" TD 6250'

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

12P



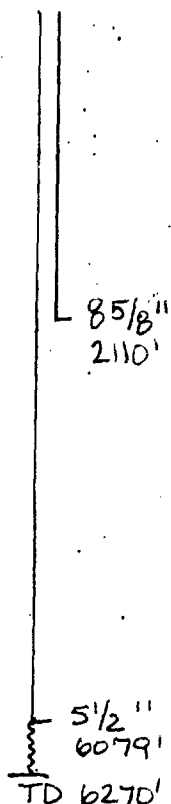
INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
10-27-53

Deepen to 6300'



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: Surface feet determined by temp survey

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

6100 feet to 6300 feet
(perforated or open-hole, indicate which)

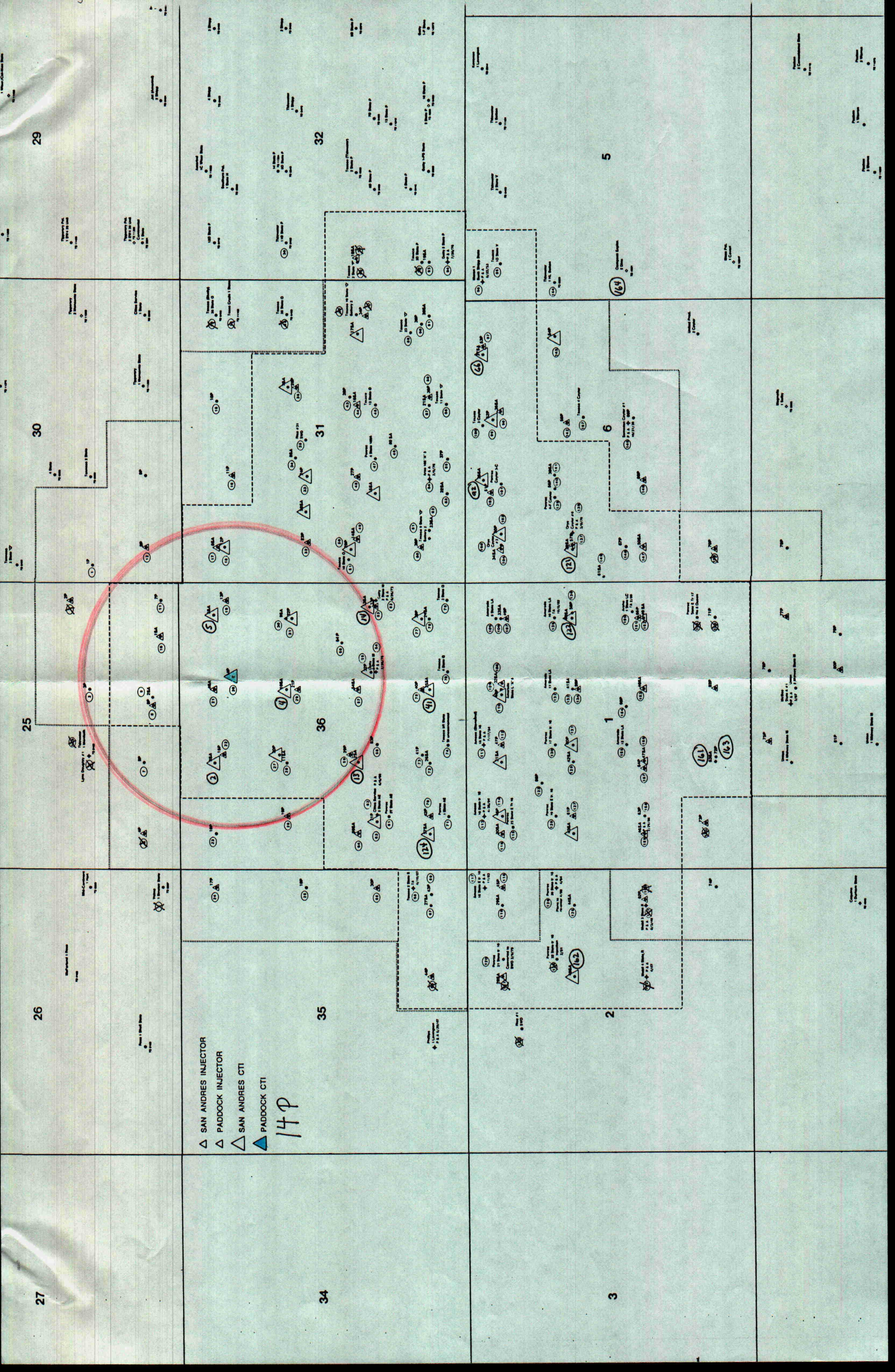
Tubing size 2 3/8 lined with IPC set in a
Baker AD- 1 PC (material) 6025 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

14P



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

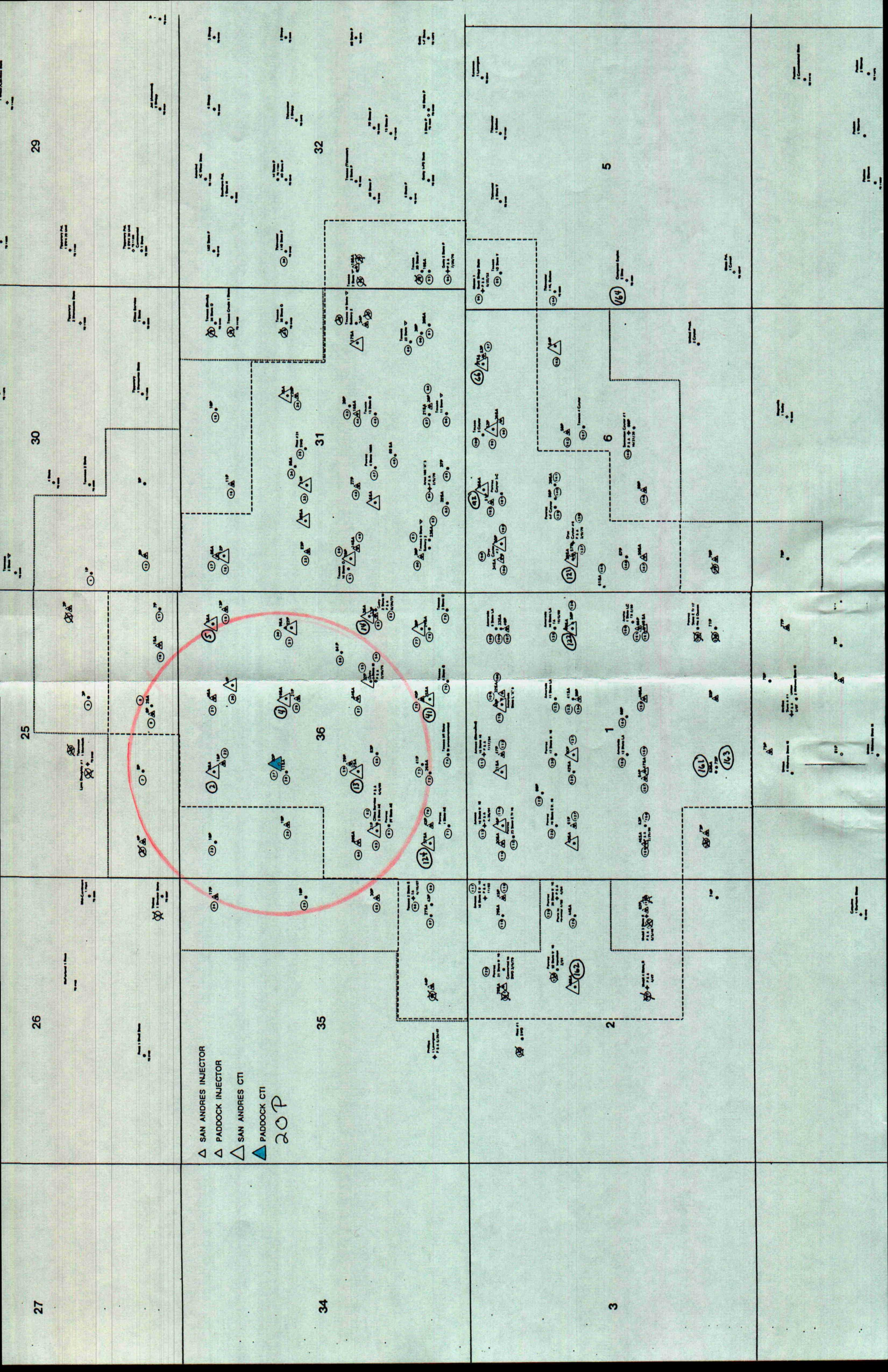
OPERATOR	LEASE			
20	1830' FNL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
3-24-54Converted to
Injection
3/74Deepen to
6300'Surface CasingSize: 8 5/8 " Cemented with 1800 SXTOC: Surface feet determined by calcHole size: 11Intermediate CasingSize: 8 5/8 " Cemented with 1800 SXTOC: Surface feet determined by calcHole Size: 11Long StringSize: 5 1/2 " Cemented with 500 SXTOC: 3535 feet determined by temp surveyHole Size: 7 7/8Total Depth: 6262Injection Interval6080 feet to 6300 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
 Baker AD - 1 PC (material)
 packer at 6000 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
22	2080' FNL & 660' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
9-10-52

5 1/2" liner
3273-6350
1952- plug back from
8603
110SX 8603-8117
60SX 6533-6464
45SX 6464-6303
Drillout to 6350

10 3/4" 401'
7 5/8" 3389'
5 1/2" TO 6350'
8603

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 13 3/8

Intermediate Casing

Size: 7 5/8" Cemented with 2014 SX

TOC: Surface feet determined by calc.

Hole Size: 9 7/8

Long String

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 Interval6073 feet to 6350 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD - 1 PC (material)
packer at 6000 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

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△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
▲ PADDOCK CTI

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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

Deepen to 6280

8 5/8"
2072'

5 1/2"
6133'
TD 6257'

Surface Casing
Size: 8 5/8 " Cemented with 950. SX
TOC: Surface feet determined by calc.
Hole size: //

Intermediate Casing
Size: " Cemented with SX
TOC: Surface feet determined by calc.
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
6111 feet to 6280 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD-1 PC (material) 6050 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

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△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI

▲ PADDOCK CTI

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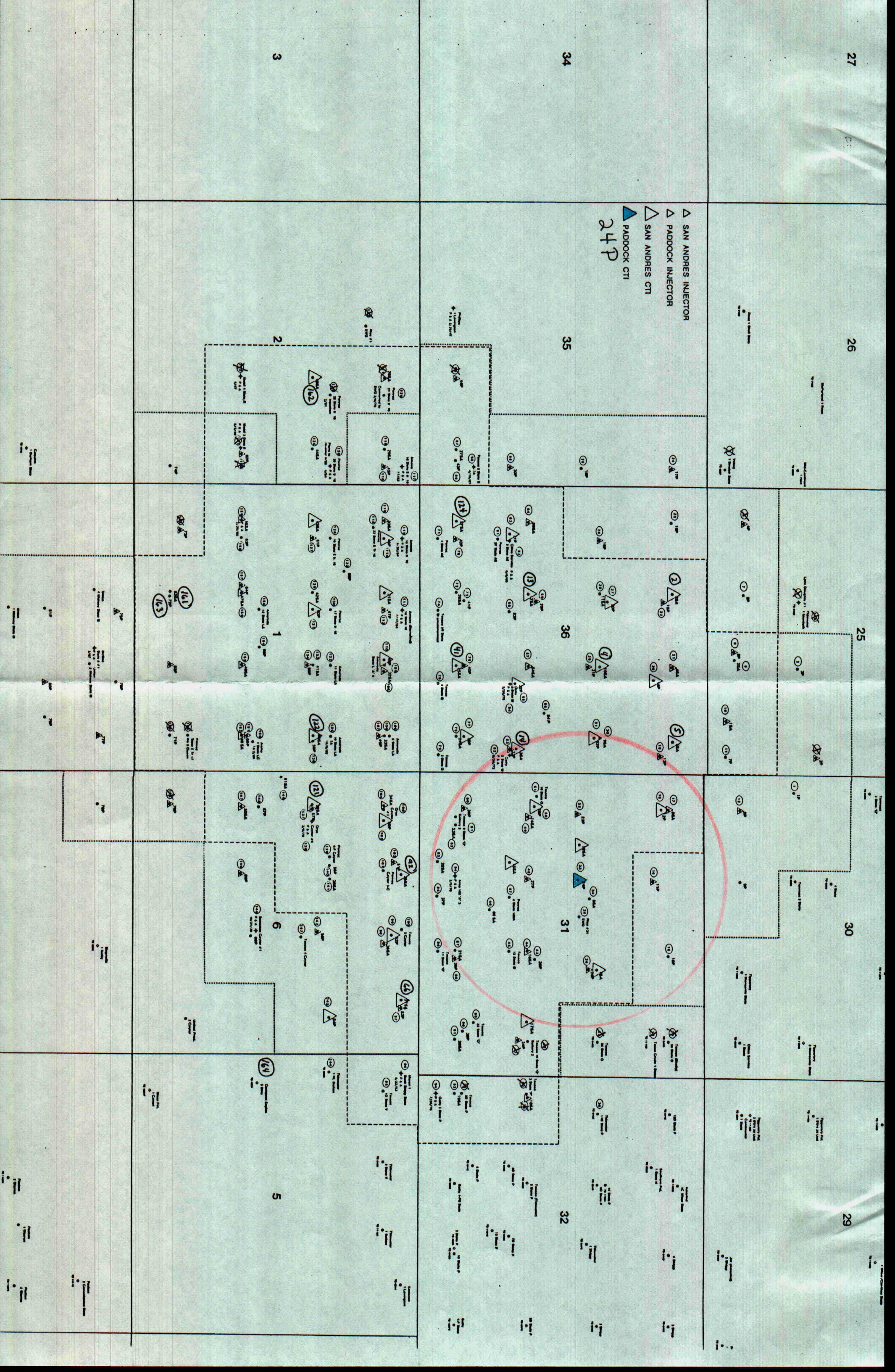
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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE			
28	2108' FSL & 624' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
5-2-53Surface CasingSize: 9 5/8 " Cemented with 850 SXTOC: Surface feet determined by calc.Hole size: 12 1/4Intermediate CasingSize: " Cemented with SXTOC: Surface feet determined by Hole Size: Long StringSize: 5 1/2 " Cemented with 500 SXTOC: 3869 feet determined by 70% calc.Hole Size: 7 7/8Total Depth: 6252'Injection Interval6110 feet to 6252 feet
(perforated or open-hole, indicate which)

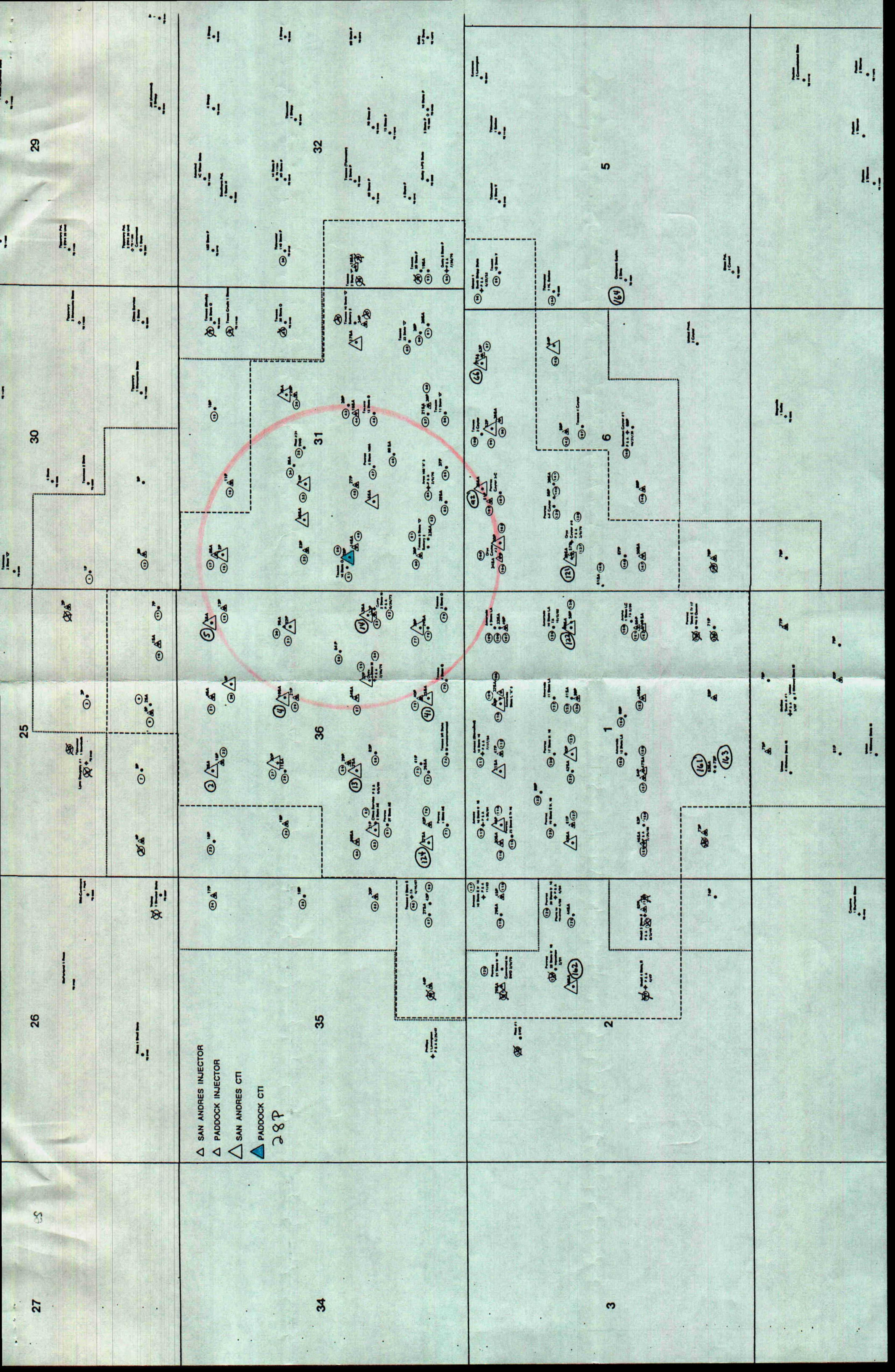
Tubing size 2 3/8 lined with IPC set in a
 Baker AD - 1 PC (material)
 packer at 6025 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

28P



INJECTION WELL DATA SHEET

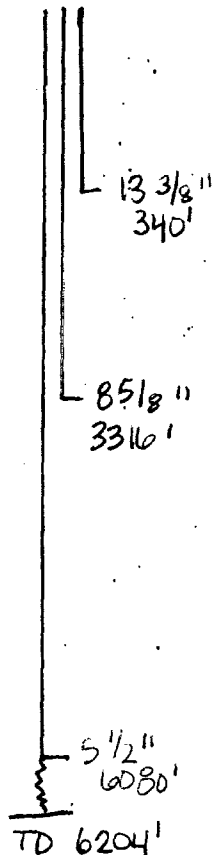
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR		LEASE		
31	1650' FSL & 890' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
12-16-53

Deepen to 6295

Surface CasingSize: 13 3/8 " Cemented with 350 SXTOC: Surface feet determined by calcHole size: 17 1/4Intermediate CasingSize: 8 5/8 " Cemented with 2300 SXTOC: Surface feet determined by calcHole Size: 11Long StringSize: 5 1/2 " Cemented with 400 SXTOC: 4350 feet determined by temp surveyHole Size: 7 1/8Total Depth: 6204'Injection Interval6080 feet to 6295 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD-1 PC (material) 6050 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No Production
 If no, for what purpose was the well originally drilled? _____
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

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△ SAN ANDRES INJECTOR
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△ SAN ANDRES CTI
△ PADDOCK CTI

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△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

32P

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 DataSurface Casing

Spud Date
3-19-53

Size: 8 5/8 " Cemented with 1000 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 300 SX

TOC: 4400 feet determined by temp survey

Hole Size: 7 7/8

Total Depth: 6229'

Injection Interval

6060 feet to 6199 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD-1 PC (material)
packer at 6000 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorietta

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△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
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PADDOCK CTI
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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

Tubular DataSurface Casing

Deepen to 6280

Size: 8 5/8 " Cemented with 900 SXTOC: Surface feet determined by calcHole size: //Intermediate CasingSize: " Cemented with SXTOC: feet determined by Hole Size: Long StringSize: 5 1/2 " Cemented with 275 SXTOC: 4632 feet determined by temp surveyHole Size: 7 7/8Total Depth: 6229'Injection Interval6017 feet to 6280 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD - 1 PC (material)
 (brand & model) packer at 5950 feet.
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorietta

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△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI

PADDOCK CTI

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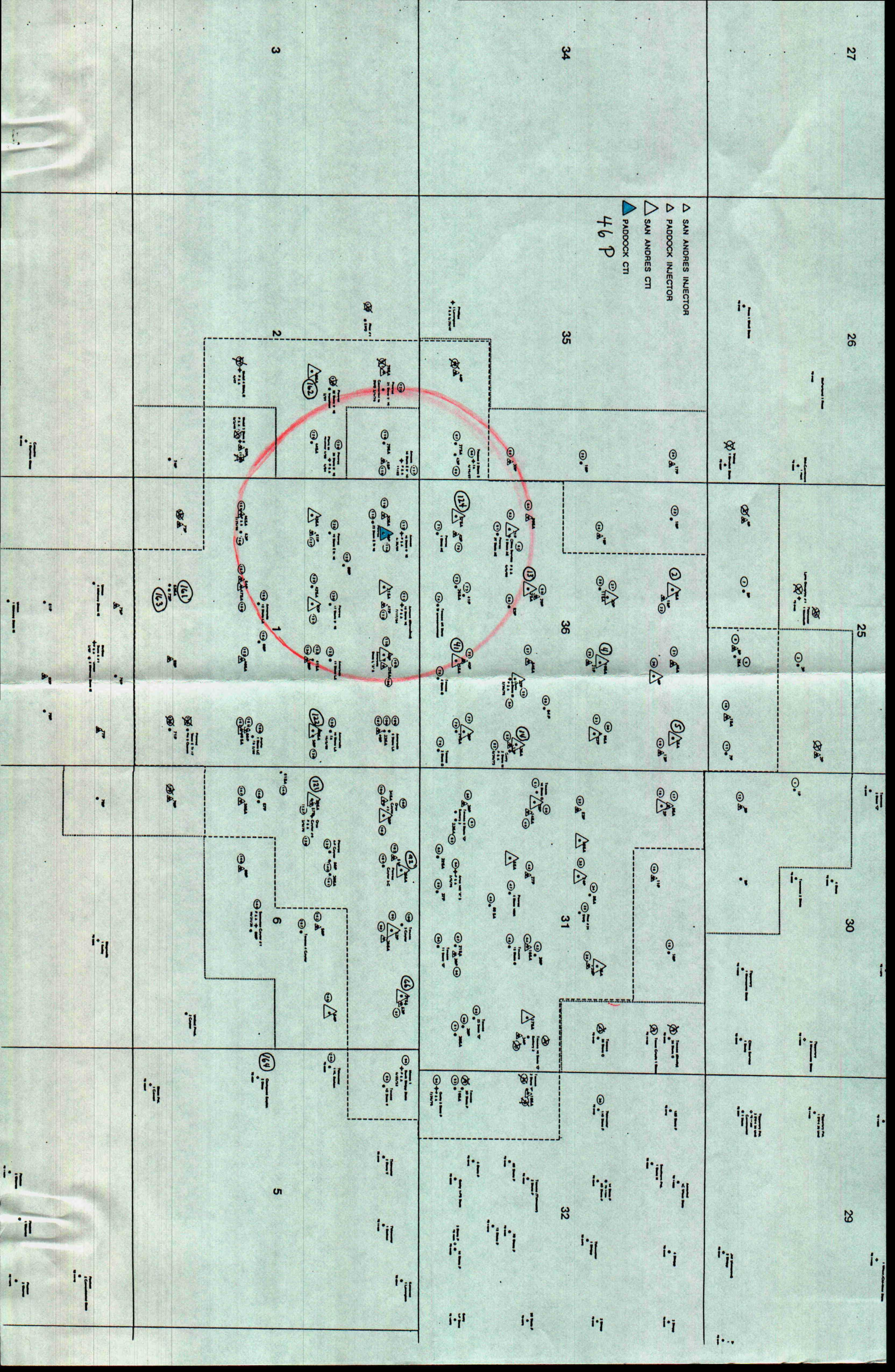
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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

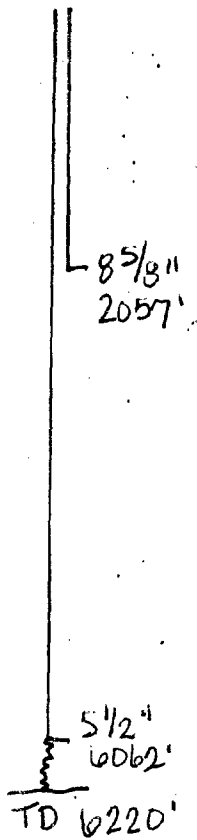
Lovington Paddock

OPERATOR		LEASE		
46	660' FNL & 990' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
11-20-54

Deepen to 6300'



Surface Casing

Size: 8 5/8 " Cemented with 1250 . 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 350 SX

TOC: ~~3077~~ 3700 feet determined by temp survey

Hole Size: 7 7/8"

Total Depth: 6220'

Injection Interval

6034 feet to 6300 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD - 1 PC (material)
packer at 6000 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI
48P

34

35

36

31

32

3

2

1

6

5

27

26

25

30

29

INJECTION WELL DATA SHEET

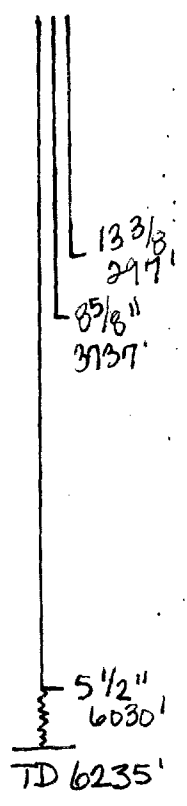
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE			
48	660' FNL & 2080' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Deepen to 6260



Surface Casing

Size: 13 3/8 " Cemented with 300 SX

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

6030 feet to 6260 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD - 1 PC packer at 5980 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Packer
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

48P

35

31

32

2

7

6

50

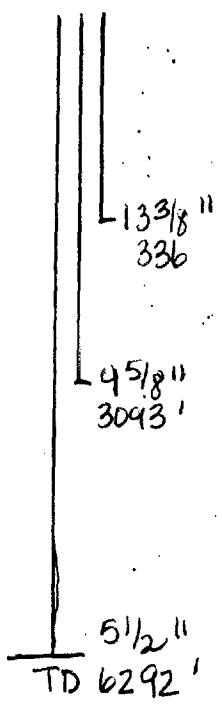
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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	LEASE			
50	660' FNL & 902' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Deepen to 6260



Surface Casing

Size: 13 3/8 " Cemented with _____ SX
TOC: Surface feet determined by calc
Hole size: 17 1/4

Intermediate Casing

Size: 9 5/8 " Cemented with 1550 SX
TOC: Surface feet determined by calc
Hole Size: 12 1/2

Long String

Size: 5 1/2 " Cemented with 500 SX
TOC: 4150 feet determined by temp survey
Hole Size: 8 3/4
Total Depth: 6292'

Injection Interval

6036 feet to 6292 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
(material)
Baker AD - 1 PC packer at 6000 feet.
(brand & model)
(or describe any other casing-tubing seal).

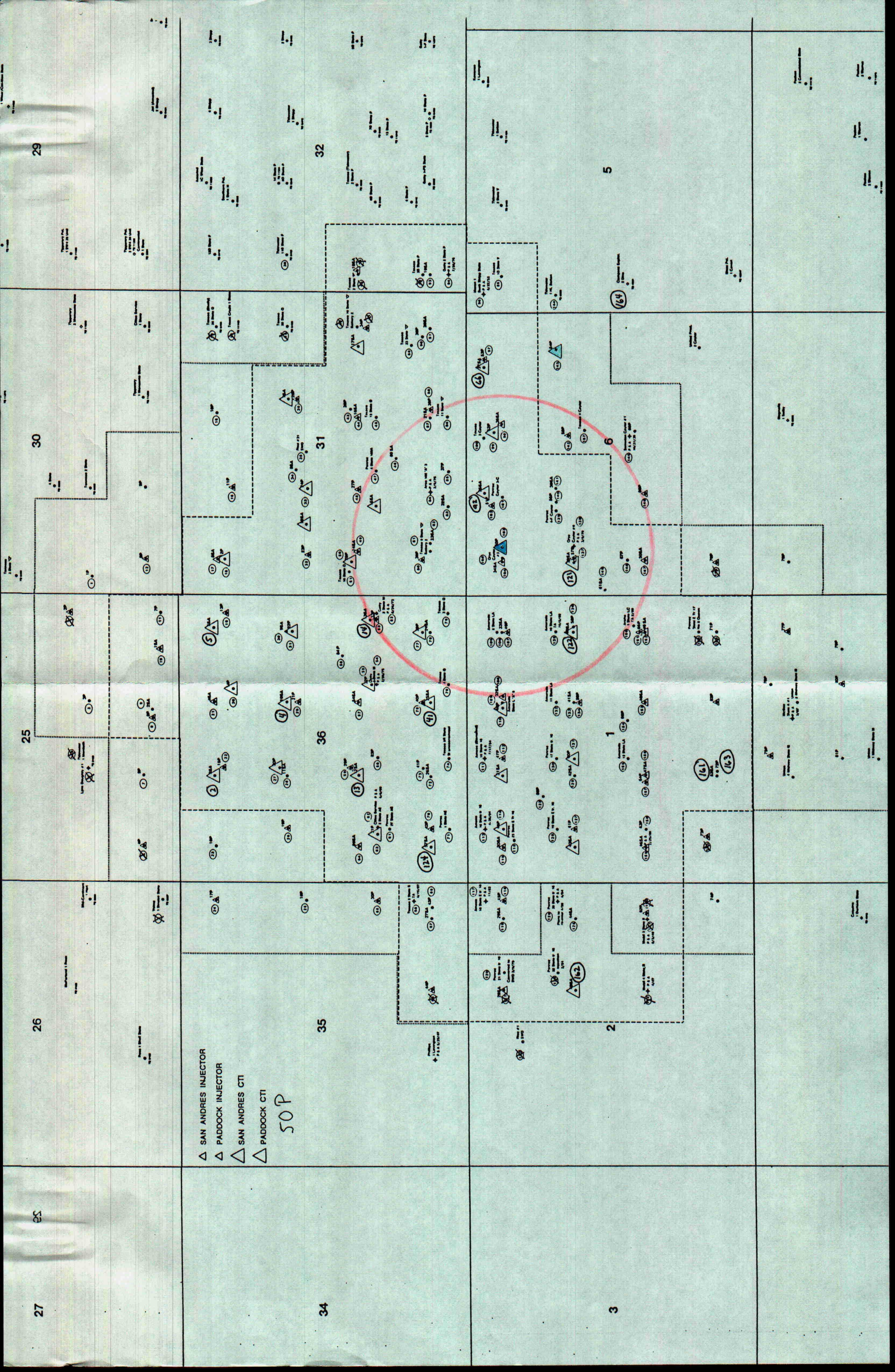
Other Data

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

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

SOP



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 DataSpud Date
10-31-53Surface CasingSize: 8 5/8 " Cemented with _____ SXTOC: Surface feet determined by calcHole size: 11Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long StringSize: 5 1/2 " Cemented with 400 SXTOC: 4220 feet determined by temp surveyHole Size: 7 7/8Total Depth: 6250'Injection Interval6090 feet to 6250 feet
(perforated or open-hole, indicate which)Tubing size 2 3/8 lined with IPC set in a

Baker AD- 1 PC

(material)

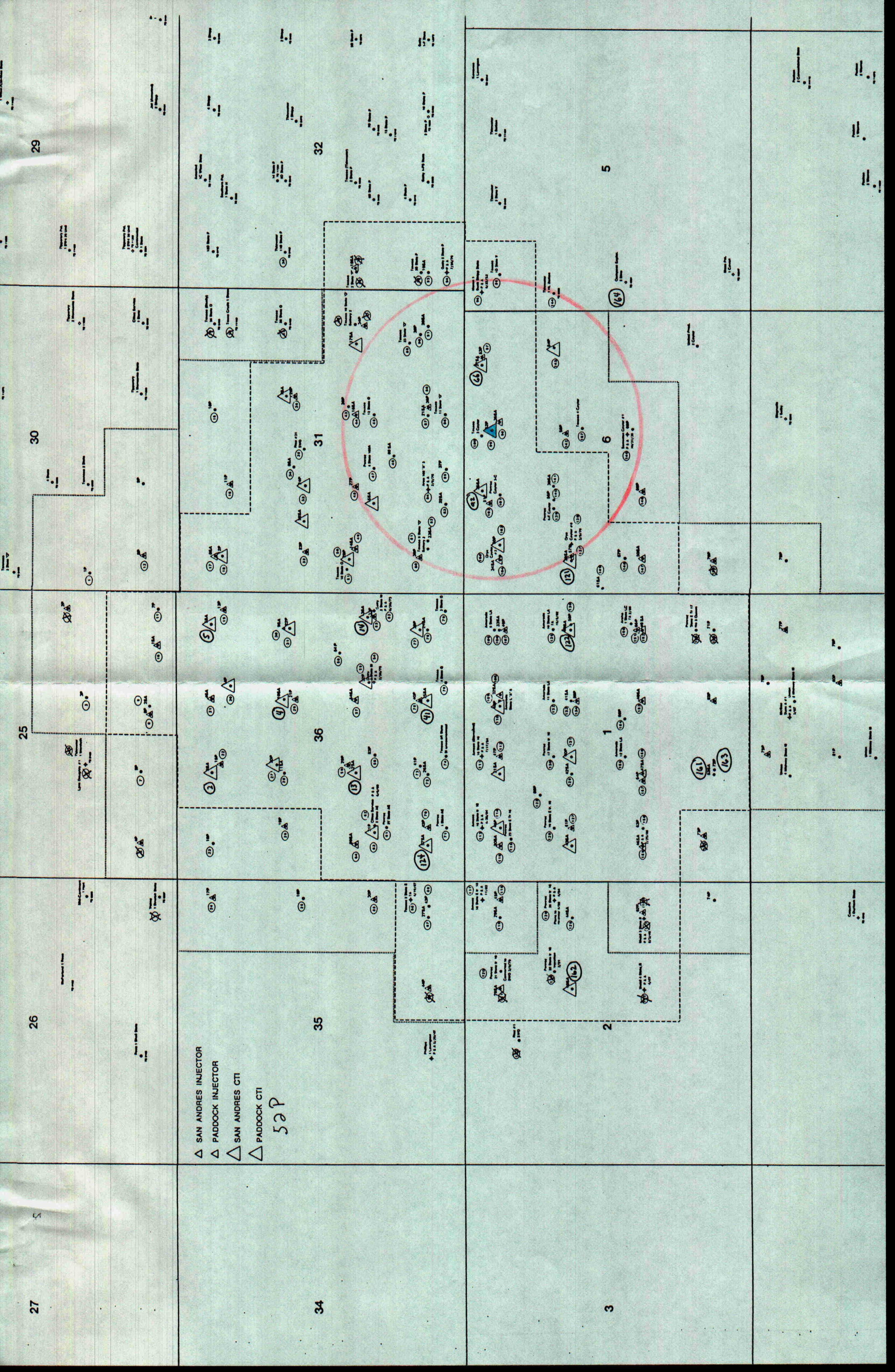
packer at 6000 feet.

(brand & model)

(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



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE			
54	1650' FNL & 660' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
2-6-54Surface CasingSize: 8 5/8 " Cemented with 1595 SXTOC: Surface feet determined by calcHole size: 11Intermediate CasingSize: 8 5/8 " Cemented with 3185 SXTOC: 3185 feet determined by 5 1/2Hole Size: 5 1/2Long StringSize: 5 1/2 " Cemented with 435 SXTOC: 3537 feet determined by temp surveyHole Size: 7 7/8Total Depth: 6250Injection Interval6135 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
Baker AD - 1 PC (material)
packer at 6075 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

54P

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

Deepen to 6290

Surface Casing

Size: 8 5/8 ~ Cemented with 1200. 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 350 SX

TOC: 3841 feet determined by temp survey

Hole Size: 7 7/8

Total Depth: 6220'

Infection Interval

6060 feet to 6290 feet
(perforated or open-hole, indicate which)

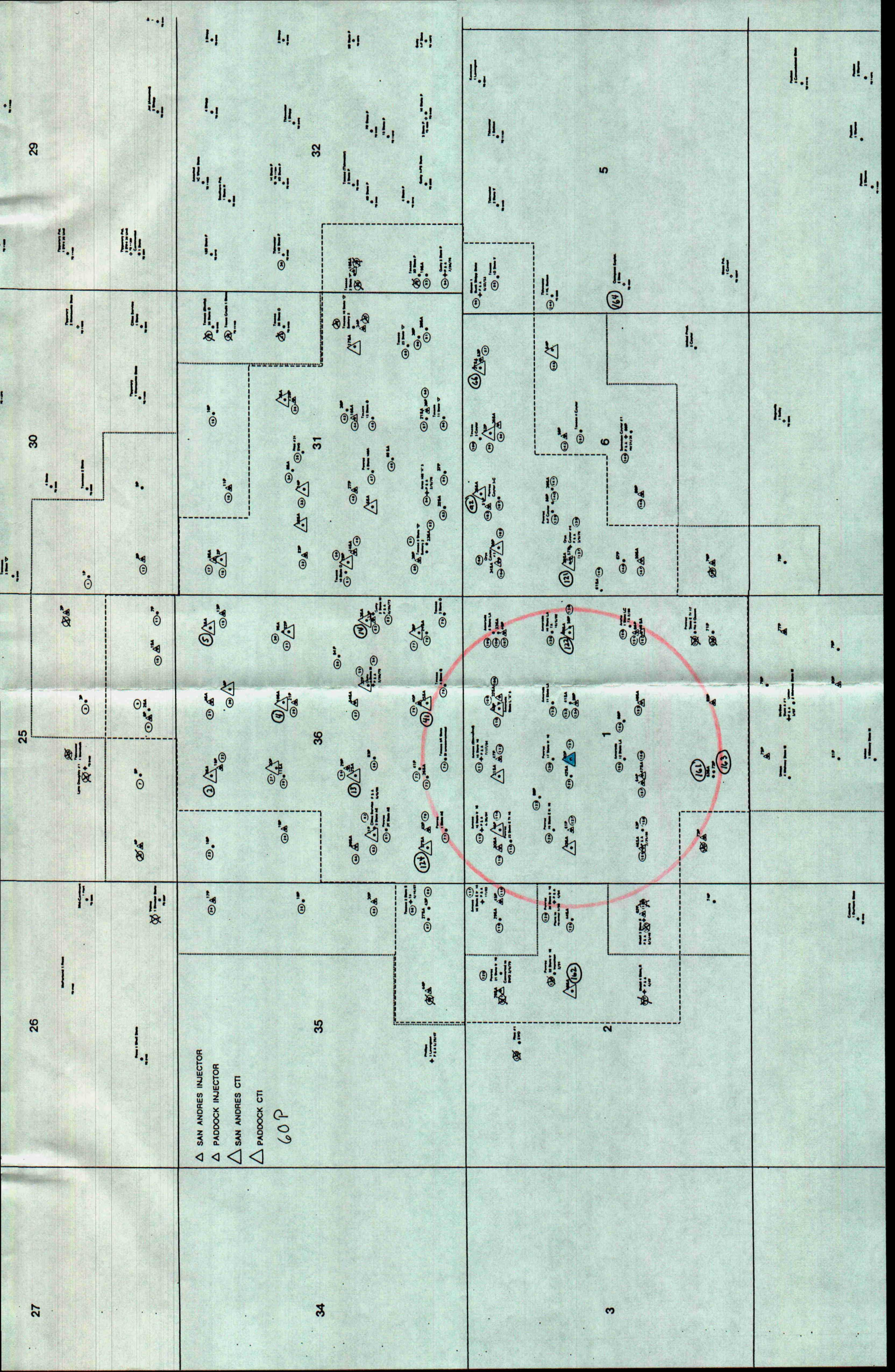
Tubing size 2 3/8 lined with IPC set in a
Baker AD - 1 PC packer at (material)
(brand & model) 6000 feet.
 (or describe any other casing-tubing seal).

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

△ SAN ANDRES INJECTOR
△ PADDOCK INJECTOR
△ SAN ANDRES CTI
△ PADDOCK CTI

60P





GREENHILL PETROLEUM CORPORATION

LOVINGTON SAN ANDRES UNIT
Lea County, New Mexico

VI. Listed below is a tabulation of all wells which are in
a 1/2 mile area of review.

- 60 P - Texaco 5R State, Amoco 16 State TR18, Amoco 15 State 18, Amerada 10 State LA, Amerada 9 State LA, Penroc 23 TR18, Penroc 19 State E TR18, Penroc 17 State TR18, Amerada 11 State LA, Amerada 12 State LA, 53SA, 72P, 46SA, 63P, 64P, 47SA, 48SA, 85P, 58P, 40SA, 59P, 41SA, 60P, 42SA, 61P, 43SA, 65P, 32SA, 48P, 47P, 31SA, 46P, 30SA
- 46 P - Cities #2 State AE, Penroc 2y State AE, Texaco 2 State, Texaco 5R State, Penroc 1 State AE, Amoco 15 State 18, Amerada State LA 9, Penroc 23 State TR18, Amoco 18 State TR18, Penroc 19 State E TR18, Penroc 17 State TR18, Amerada 11 State LA, 27SA, 43P, 57SA, 42P, 26SA, 41P, 29SA, 45P, 30SA, 46P, 31SA, 47P, 48P, 32SA, 85P, 44SA, 43SA, 61P, 42SA, 60P
- 48 P - Getty 3 State M, Texaco 3 State O, Texaco 4 State O, Texaco 5R State, Penroc 1 State AE, Amoco 16 State TR18, Amoco 15 State 18, Amerada 8 State LA, Amerada 9 State LA, Penroc 23 State E TR18, Penroc 19 State E TR18, Penroc 17 State TR18, Amerada 11 State LA, Amerada 10 State LA, Amerada 12 State LA, 54SA, 83P, 32P, 39P, 24SA, 25SA, 40P, 41P, 26SA, 42P, 30SA, 46P, 31SA, 47P, 48P, 32SA, 33SA, 49P, 58P, 40SA, 41SA, 59P, 60P, 42SA, 85P, 61P, 65P, 48SA
- 39 P - Texaco 10 State O, Arco 182 A3, Texaco 9 State O, Texaco 3 State O, Getty 2 State M, Texaco 4 State O, Texaco 5R State, Getty 3 State M, Amoco 15 State 18, Amerada State LA9, Amerada State LA, Amerada 10 State LA, Oryx Caylor 3, Amerada 10 State LA, 9 SA, 22P, 21P, 23P, 15SA, 14SA, 28P, 13SA, 33P, 84P, 32P, 54SA, 83P, 41P, 40P, 25SA, 39P, 24SA, 38P, 23SA, 22SA, 50P, 34SA, 33SA, 49P, 32SA, 48P
- 50 P - Texaco #4 Caylor, Oryx Caylor 6, Amerada 10 State LA, Penroc 4-F Caylor, Texaco 3 Caylor, Penroc Caylor 3-C, Oryx Caylor #3, Amerada 8 State LA, Texaco 3 State O, Getty 2 State M, Texaco 9 State O, Arco 182 A3, Texaco 11 State O, 15 SA, 60SA, 39P, 24SA, 38P, 23SA, 22SA, 37P, 52P, 36SA, 35SA, 51P, 50P, 34SA, 33SA, 49P, 40SA, 58P, 39SA, 57P, 55P, 56P, 38SA, 61SA, 67P, 50SA
- 54 P - Tidewater 1 H.L. Batton, Compass Expl. 5 Dina, Texaco 4 Caylor, Samedan #1 Caylor, Texaco 3 Caylor, Moran # Bunk Shipp, Texaco 1D State, Getty 5 State P, Texaco 11 State O, 35R, 36P, 20SA,

Page 2
Continuation

52P, 53P, 36SA, 37SA, 54P, 55P, 38SA

- 52 P - Texaco 12 State O, Penroc 4 State 182A, Texaco 23 State O, Texaco 11 State O, Arco 182 A3, Texaco 9 State O, Moran Bank Shipp State, Texaco #3 Caylor, Penroc Caylor 3C, Oryx Caylor #3, Oryx Caylor #6, Penroc 4F Caylor, Texaco #4 Caylor, Samedan Caylor #1, 26P, 16SA, 15SA, 60SA, 35P, 36P, 20SA, 21SA, 37P, 22SA, 23SA, 34SA, 50P, 35SA, 51P, 36SA, 37SA, 53P, 54P, 38SA, 56P
- 31 P - City Service 2 State AE, Penroc 2y State E, Texaco 5R State, Penroc 1 State AE, Texaco 2 State S, Amoco State E TR18, Amoco 16 State TR18, Penroc 23 State E TR18, Amoco 15 State TR18, 18P, 19P, 20P, 11SA, 30P, 59SA, 12SA, 29P, 54SA, 83P, 30P, 27SA, 43P, 57SA, 42P, 26SA, 41P, 40P, 25SA, 45P, 30SA, 46P, 31SA
- 32 P - Texaco 10 State O, Getty 2 State M, Getty 3 State M, Cities 2 State AE, Texaco 5R State, Texaco 4 State O, Texaco 3 State O, Amerada 8 State 8, Amerada 8 State 9, Amoco 15 State 18, 14P, 20P, 11SA, 10SA, 21P, 22P, 9SA, 23P, 14SA, 28P, 84P, 29P, 12SA, 54SA, 13SA, 33P, 83P, 26SA, 41P, 40P, 25SA, 39P, 24SA, 38P, 33SA, 32SSA, 48P
- 20 P - Getty 3 State M, Cities 2 State AE, Penroc 2y State E, 41P, 83P, 32P, 54SA, 12SA, 29P, 59SA, 12SA, 29P, 84P, 22P, 9SA, 21P, 10SA, 20P, 11SA, 19P, 18P, 16P, 3SA, 15P, 4SA, 14P, 2SA, 6P, 5P
- 14 P - Getty 3 State M, 3P, 5P, 6P, 2SA, 1SA, 7P, 12P, 6SA, 13P, 5SA, 14P, 4SA, 15P, 3SA, 20P, 11SA, 10SA, 21P, 9SA, 22P, 84P, 54SA, 29P, 54SA, 84P, 32P
- 22 P - Texaco 10 State O, Getty 2 State M, Getty 3 State M, 1SA, 7P, 4SA, 14P, 5SA, 13P, 6SA, 12P, 24P, 58SA, 23P, 9SA, 10SA, 21P, 20P, 11SA, 54SA, 84P, 32P, 13SA, 28P, 14SA, 39P, 24SA
- 12 P - Rice 31 SWD, Texaco 10 State O, 1P, 1SA, 7P, 8P, 9P, 11P, 6SA, 12P, 13P, 3SA, 14P, 4SA, 9SA, 22P, 23P 58SA, 24P, 8SA, 28P, 14SA
- 28 P - Rice 31 SWD, Getty 3 State M, Getty 2 State M, Texaco 10 State O, Penroc 4 State 182A, Arco 182 A3, Texaco 9 State O, Texaco 3 State O, 6SA, 13P, 12P, 11P, 8SA, 24P, 58SA, 23P, 22P, 9SA, 84P, 54SA, 32P, 13SA, 33P, 14SA, 15SA, 27P, 20SA, 16SA, 37P, 22SA, 23SA, 38P, 39P, 24SA

INJECTION WELL DATA SHEET

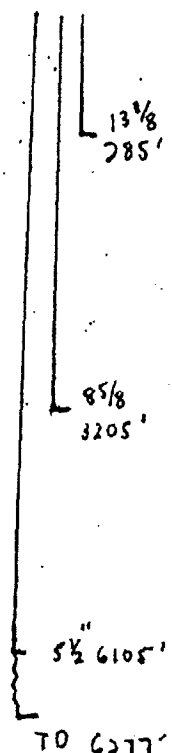
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE			
# 1	1655' FSL & 330' FEL	30	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
8-25-54



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

Other Data

- Name of the injection formation -
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#3	660 FNL & 1980 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8 ~ Cemented with 450 SX
TOG: Surface feet determined by calc.
Hole size: 11

Intermediate Casing

Size: ~ Cemented with SX
TOG: feet determined by
Hole Size:

Long String

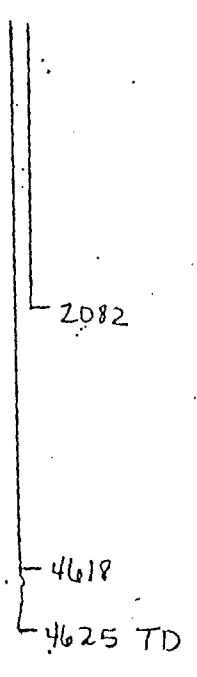
Size: 5 1/2 ~ Cemented with 375 SX
TOG: 2575 feet determined by 80% calc
Hole Size: 7 7/8

Total Depth: 4625'

Injection Interval

4618 feet to 5090 feet
(perforated or open-hole, indicate which)

Completed
11/19/45
deepen to 5090



Tubing size 2 3/8" lined with IPC set in a
(material)
waterflood tension packer packer at 4598 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
# 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

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

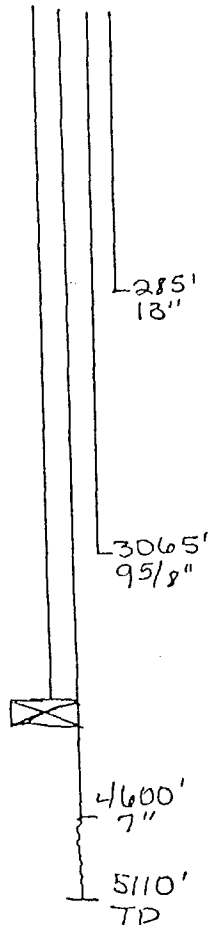
Size: 7 " Cemented with 225 SX
 TOC: 3189 feet determined by Calc
 Hole Size: 8-3/4"

Total Depth: 5110'

Injection Interval

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

Completed
4-4-39



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

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- 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

Surface Casing

Size: 8 5/8 " Cemented with 500 ~~400~~ SX
TOC: Surface feet determined by Circ. calc
Hole size: 11"

Intermediate Casing

Size: 8 5/8 " Cemented with 2160 SX
TOC: 2160 feet determined by
Hole Size:

Long String

Size: 5 1/2 " Cemented with 250 ~~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 set in a
(material)
waterflood tension packer packer at 4605 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#7	1980 FNL & 1980 FEL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 485 SX
TOC: Surface feet determined by 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 1/4
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

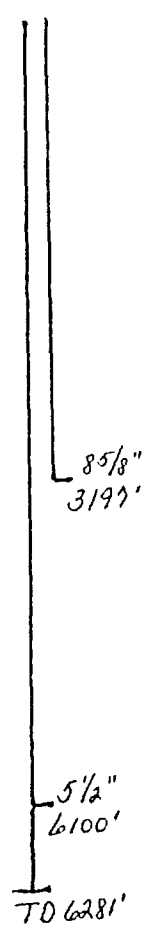
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
No
- 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
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

	<u>Surface Casing</u>
	Size: 9-5/8 " Cemented with 1800 SX
	TOC: Surface feet determined by calc
	Hole size: 12-3/4"
	<u>Intermediate Casing</u>
	Size: Cemented with SX
	TOC: feet determined by calc
9 5/8" 3145'	Hole size:
	<u>Long String</u>
	Size: 5-1/2" Cemented with 475 SX
	TOC: 3974 feet determined by temp survey
	Hole size: 7-7/8"
	Total Depth: 6285'
5 1/2" 6118'	<u>Injection Interval</u>
TO 6285'	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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

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)

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

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Date Completed
11/7/44

2104 4620

8 5/8
2104

5 1/2
4620

TD 4996

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation
OPERATORLovington San Andres Unit
LEASE#1
WELL NO.300 FSL & 990 FEL
FOOTAGE LOCATION25
SEC.T16S
TOWNSHIPR36E
RANGETubular DataSurface CasingSize: 8 5/8 " Cemented with 425 SXTOC: Surface feet determined by calcHole size: 11Intermediate CasingSize: " Cemented with SXTOC: feet determined by Hole Size: Long StringSize: 5 1/2 " Cemented with 425 SXTOC: 2313 feet determined by 80% calcHole Size: 7 7/8Total Depth: 5060'Injection Interval4600' feet to 5060' feet
(perforated or open-hole, indicate which)Tubing size 2" lined with IPC set in a
(material)
packer at 4575' 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 - GrayburgCompleted
10/4/45Converted to
Injection
6/29/65

2096' 4629

8 5/8
2096

5 1/2 4629

TD 5060

11

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
8-1-53

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: 8 5/8" Cemented with 2104 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'

TD 6260'

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? 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.

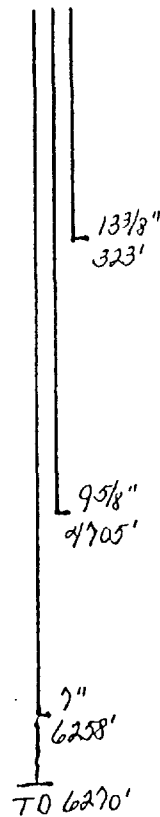
Above Glorieta

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

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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#12	1980' FSL & 1980' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
7-5-45

Deepened
7/87

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

Hole Size: 11"

Long String

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

TOC: 3255 2435 feet determined by TS 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 set in a
(material)
Water flood-tension packer packer at 4560 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#13	1760' FSL & 440' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-16-39

<div>299' 13"</div> <div>3003' 8 5/8"</div> <div>4518' 5 1/2"</div> <div>5068' TO</div>	<u>Surface Casing</u>	
	Size: 13 "	Cemented with 225 SX
	TOC: Surface	feet determined by calc
	Hole size: ?	
	<u>Intermediate Casing</u>	
	Size: 8-5/8 "	Cemented with 250 SX
	TOC: 2235	feet determined by calc
	Hole Size: 11"	
	<u>Long String</u>	
	Size: 5-1/2 "	Cemented with 150 SX
	TOC: 2818	feet determined by calc
	Hole Size: 6-3/4"	
Total Depth: 5068		
<u>Injection Interval</u>		
4518 feet to 5068 feet (perforated or open-hole, indicate which)		

Tubing size 2-3/8" lined with IPC set in a
(material)
waterflood tension packer at 4495 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
# 10	660' FNL & 2440' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-11-54

8 5/8"
3912

5 1/2"
6105

TO
6260'

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 300 SX
TOC: 4470 feet determined by 80% calc
Hole Size: 7-7/8"
Total Depth: 6260'

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

- Name of the injection formation
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

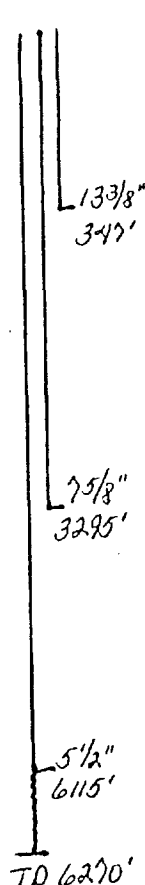
16

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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#6	660 FNL & 660 FWL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface CasingSize: 16 " Cemented with 100 SXTOC: Surface feet determined by calc.Hole size: 18Intermediate CasingSize: 8 5/8 " Cemented with 150 SXTOC: 1271 feet determined by calc 50%Hole Size: 11Long StringSize: 7 " Cemented with 200 SXTOC: 2229 feet determined by 80% calcHole Size: 8Total Depth: 5000'Injection Interval4538 feet to 5000 feet
(perforated or open-hole, indicate which)

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

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

19

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR		LEASE		
#13	880' FNL & 331' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
2-13-53Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 12 1/2

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: est 7 7/8

Total Depth: 6279'

Injection Interval6087 feet to 6279 feet
(perforated or open-hole, indicate which)

4/86
Squeeze casing leak
2078-2142 w/200 SX
9/81 Shot 3 holes
at 2114 cm +
w/275 SX

8 5/8"
2115'
5 1/2"
6258'
TO 6279'

Tubing size 2-3/8" lined with IPC set in a - packer
at 6087 feet. (Or describe any other casing-tubing seal).

Other Data

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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			
#4	660 FNL & 1980 FEL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SXTOC: Surface feet determined by calcHole size: 14 3/4

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SXTOC: Surface feet determined by calcHole Size: 11 1/4

Long String

Size: 7 " Cemented with 300 SXTOC: 1910' feet determined by 80% calc.Hole Size: 8 1/4Total Depth: 5012'

Injection Interval

4634 feet to 5012 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
(material)
packer at 4586 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

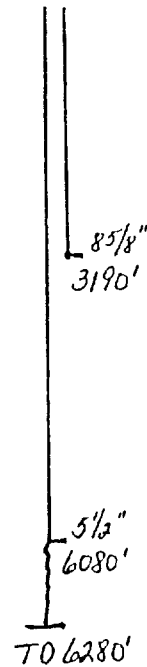
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
No
- 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		
#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: 11

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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

23

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

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'

8 5/8"
3110'
5 1/2"
6025'
TD 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

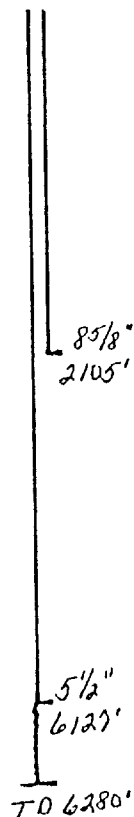
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
No
- 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 DataSpud Date
5-15-55Converted
to Injection
12/66Surface 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 Interval6129 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

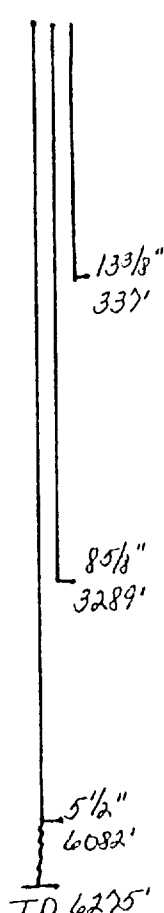
1. Name of the injection formation: Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

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

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

- 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

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: //

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long StringSize: 5-1/2" Cemented with ⁴⁶⁵585 SXTOC: 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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

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'

Infection 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

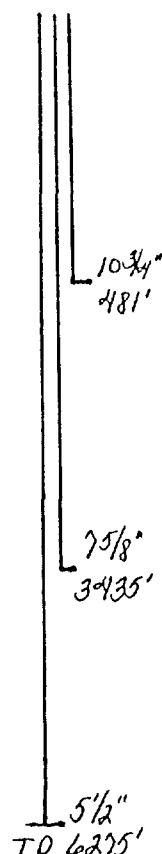
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#21	2190' FNL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
7-26-53

Converted
to Injection
2/73

5 1/2" liner
3312 - 6275
w 480 SX
sqzd. top w/50 SX

Surface Casing

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

TOC: Surface feet determined by calc

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

Tubular DataSurface CasingSize: 13" Cemented with 250 SXTOC: Surface feet determined by calcHole size: 17 1/4Intermediate CasingSize: 8 5/8" Cemented with 250 SXTOC: 1924 feet determined by 50% calcHole Size: 12Long StringSize: 7" Cemented with 200
250 SXTOC: 2944
3074 feet determined by 80% calcHole Size: 8 3/4Total Depth: 5100' 5094Injection 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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Underlying - GrayburgCompleted
9/23/39

330'
13"

3080'
9 5/8"

4645'
7"

5100'
5094'

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE			
#23	31	16S	37E	
WELL NO.	FOOTAGE	LOCATION	SEC.	TOWNSHIP
			RANGE	

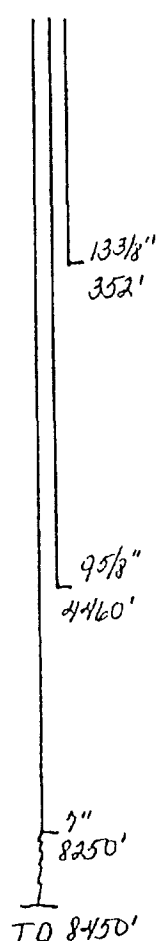
Tubular DataSpud Date
3-29-52Converted
to Injection
2/73

CIBP 6310'

Cmt. to 6300'

7" liner

4171 - 8250

Surface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: 9-5/8" Cemented with 2250 SX

TOC: Surface feet determined by calc

Hole size:

Long String

Size: 7" Cemented with 500 SX

TOC: 2250 feet determined by temp
survey

Hole size:

Total Depth: 8450'

Injection Interval6120 feet to 6170 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 6089 feet. (Or describe any other casing-tubing seal).

Other Data

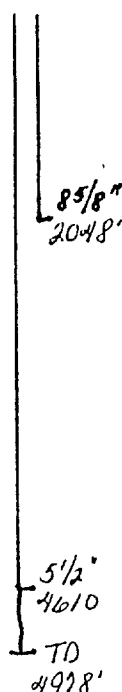
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
No
- 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		
8	2150' FNL & 366' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
7-24-44



Surface Casing

Size: 8-5/8" Cemented with 500 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 500 SX

TOC: 1886 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4978'

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 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 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) Grayburg

INJECTION WELL DATA SHEET

Rice Engineering		Abo SWD (State "0")		
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)

cmt band log 1964
top good cmt 3765
sqzd several intervals
above and below this
point.

<div style="display: flex; align-items: center;"> <div style="border-left: 2px solid black; height: 100%; position: relative; margin-right: 10px;"> <div style="position: absolute; top: 0; right: -10px;">13 3/8"</div> <div style="position: absolute; top: 10%; right: -10px;">246'</div> <div style="position: absolute; top: 45%; right: -10px;">9 5/8"</div> <div style="position: absolute; top: 50%; right: -10px;">3270'</div> <div style="position: absolute; top: 60%; right: -10px;">5 1/2"</div> <div style="position: absolute; top: 65%; right: -10px;">11,044'</div> <div style="position: absolute; top: 70%; right: -10px;">TD 12,251'</div> </div> </div>	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 246 SX
	TOC: Surface feet determined by ^{circ} calc
	Hole size: 18"
	<u>Intermediate Casing</u>
	Size: 9-5/8" Cemented with ¹²⁰⁰ 1400 SX
	TOC: ^{surface} 352 feet determined by ^{circ} 50% calc
	Hole size: 12-1/4"
	<u>Long String</u>
	Size: 5-1/2" Cemented with 1982 SX 682 at shoe 1300 thru out tool at 8988
	TOC: ²⁴⁷ 247 feet determined by 80% calc
	Hole size: 7-7/8"
	Total Depth: 12,251
	<u>Injection Interval</u>
	- 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

- Name of the injection formation:
 - Name of Field or Pool (If applicable) East Lovington (Penn)
 - Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 - 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).
-
- 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		
#25	2130' FNL & 1980' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
11-16-54

Converted
to Inj.
12/54

Surface Casing

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

TOC: Surface feet determined by ^{circ} ~~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: 4160 feet determined by temp
survey

Hole size: 7 7/8

Total Depth: 6270'

Injection Interval

6107 feet to 6270 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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#43	1980 FNL & 660 FWL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX
 TOC: Surface feet determined by circulation
 Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 600 SX
 TOC: 199 feet determined by 50% calc
 Hole Size: 11 "

Long String

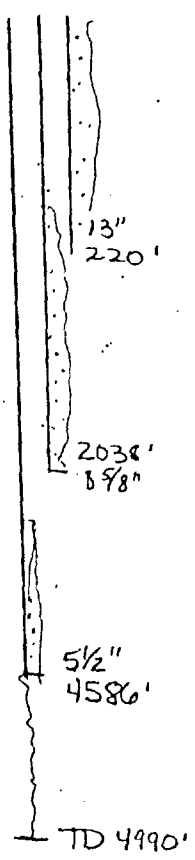
Size: 5 1/2 " Cemented with 350 SX
 TOC: 2679 feet determined by 80% calc
 Hole Size: 7 7/8 "
 Total Depth: 4990 '

Injection Interval

4546 feet to 5030 feet
 (perforated or open-hole, indicate which)

Completed
6/19/41

Deepen to 5030'



Tubing size 2 3/8 lined with IPC set in a
 (material)
4536 packer at 4536 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- 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~~
~~Tidewater Oil Company~~

State "P"

OPERATOR		LEASE		
11	1980' FNL & 660' FWL	32	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
3-22-65

Surface Casing
 Size: 8-5/8" Cemented with 1450 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 1450 SX
 TOC: Surface feet determined by 80% calc
 Hole size: 7-7/8"
 Total Depth: 6400'
Injection Interval

8 5/8"
2099'

5 1/2"
6399'
TO 6400'

- 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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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).

- 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		
15	1650' FSL & 1650' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-1-39

Deepened
7-23-86

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 ⁵⁰⁰~~400~~ SX

TOC: 1818 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with ³⁰⁰~~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 set in a
(material)
waterflood tension packer at 4510 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying-Grayburg

40

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#17	660 FNL & 330 FEL	31	T-16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 450 SX

TOC: Surface feet determined by circ. cal.

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 400 SX

TOC: 1832 feet determined by 80% calc

Hole Size: 7 1/4

Total Depth: 4935'

Injection Interval

4623 feet to 5090 feet
(perforated or open-hole, indicate which)

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

water flood tension packer packer at 4603 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

Completed
9/17/46
deepen to
5090

8 5/8"
2050'
4623'
5 1/2"
TD 4935'

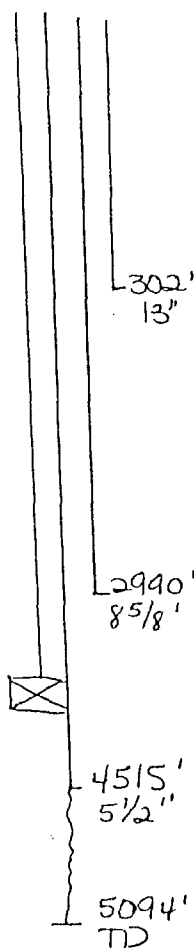
41

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
10-18-39



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: 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- 7/8 lined with IPC set in a
waterflood tension packer at 4495 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- 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

Tubular Data

Completed
12-22-39

Deepened
6-20-87

	<u>Surface Casing</u>
	Size: <u>13</u> " Cemented with <u>200</u> SX
	TOC: <u>Surface</u> feet determined by <u>circ</u>
	Hole size: <u>17-1/4"</u>
	<u>Intermediate Casing</u>
	Size: <u>8-5/8</u> " Cemented with <u>500</u> SX
	TOC: <u>2021</u> feet determined by <u>calc</u>
	Hole Size: <u>11"</u>
	<u>Long String</u>
	Size: <u>5-1/2</u> " Cemented with <u>325</u> SX
TOC: <u>2890</u> feet determined by <u>calc 80%</u>	
Hole Size: <u>7-7/8"</u>	
Total Depth: <u>5125</u>	
<u>Injection Interval</u>	
<u>4541</u> feet to <u>5125</u> feet (perforated or open-hole; indicate which)	

Tubing size 2-3/8" lined with IPC set in a
(material)
water flood tension packer at 4499 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

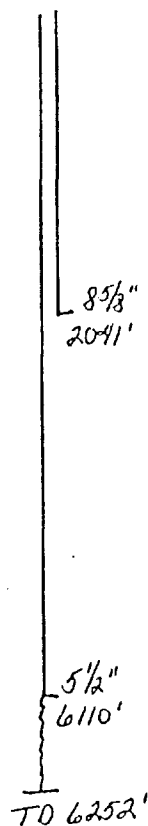
1. Name of the injection formation San Andres
2. Name of Field or Pool (IF applicable) Lovington San Andres
3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever be perforated in any other zone(s)? List all such perforated 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		
#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 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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: feet determined by

Hole size: 15 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SX

TOC: feet determined by

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 set in a
(material)
packer at 4557 feet.

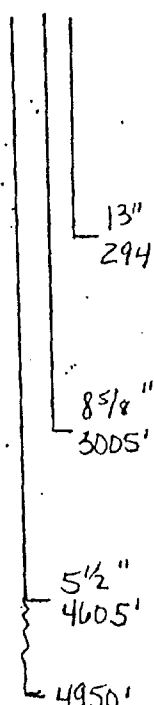
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Completed
12/6/39

Converted to
Injection
3/16/63



INJECTION WELL DATA SHEET

Texaco		State "O"		
OPERATOR		LEASE		
12	1650' ESL & 2310' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
8-08-52

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 1800 SX

TOC: Surface feet determined by calc

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

Other Data

- Name of the injection formation
- Name of Field or Pool (IF applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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.
- 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

Tubular Data

Completed
1-31-90

	<u>Surface Casing</u>
	Size: <u>13-3/8</u> " Cemented with <u>450</u> SX
	TOC: <u>Surface</u> feet determined by <u>circ</u>
	Hole size: <u>17-1/2"</u>
	<u>Intermediate Casing</u>
	Size: <u>8-5/8</u> " Cemented with <u>600</u> SX
	TOC: <u>215</u> feet determined by <u>calc</u>
	Hole Size: <u>11" 12 1/4</u>
	<u>Long String</u>
	Size: <u>5-1/2</u> " Cemented with <u>1450</u> SX
TOC: <u>Surface</u> feet determined by <u>calc</u>	
Hole Size: <u>7-7/8"</u>	
Total Depth: <u>5400'</u>	
<u>Injection Interval</u>	
_____ 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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- 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

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

Tubular DataSurface Casing

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

TOC: Surface feet determined by 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

Workover Aug
Sept - 68, sqzd from
6400, 5000, 4600 with
total 1200 SX TOC
4000 by TS

13 3/8"
299'

9 5/8"
3360'

7"
8460' TD

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Surface Casing

Completion
6-16-53Converted to
Injection
6/67Size: 13-3/8 " Cemented with 350 SXTOC: Surface feet determined by calcHole size: 17-1/4"

Intermediate Casing

Size: 8-5/8 " Cemented with 900 SXTOC: 656 feet determined by 50% calcHole Size: 11"

Long String

Size: 5-1/2 " Cemented with 250 SXTOC: 4692 4316 feet determined by 75 80% calcHole 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 set in a
(material)
packer at 6000 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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 OPERATOR Lovington San Andres Unit LEASE

#14 WELL NO. 1980 FSL & 818 FWL FOOTAGE LOCATION 31 SEC. T16S TOWNSHIP R37E RANGE

Tubular Data

Surface Casing

Size: 10 3/4 " Cemented with 250 SX

TOC: Surface feet determined by 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 set in a
(material)
packer at 4468.11 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

Completed
8/7/39

Converted to
Injection
3/15/63

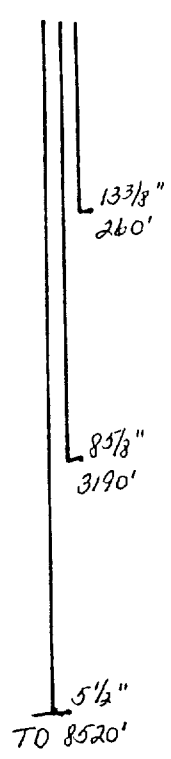
10 3/4"
314'
7 5/8"
3000'
5 1/2"
4530'
5087'

INJECTION WELL DATA SHEET

Texaco		State "0"		
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 ²⁷⁵~~225~~ SX
 TOC: Surface feet determined by ^{calc}~~calc~~

Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 700 SX
 TOC: ^{surface}~~1046~~ feet determined by ^{calc}~~50% calc~~

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#33	1650' FSL & 400' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completion
2-2-53

Deepened for
Inj. 12/66
6150-6237'

Converted to
Injection 12/66

Surface Casing

Size: $10\frac{3}{4}$ " Cemented with 250 SX
TOC: Surface feet determined by calc circ
Hole size: $13\frac{3}{8}$ "

Intermediate Casing

Size: $10\frac{3}{4}$ " Cemented with SX
TOC: 312' feet determined by
Hole size:

Long String

Size: 7" Cemented with 400 SX
TOC: 3636 feet determined by 80% calc
Hole size: $8\frac{3}{4}$ "

TD 6237' Total Depth: 6237'

Injection Interval

6040 feet to 6237 feet
(perforated or open-hole, indicate which)

Tubing size $2\frac{3}{8}$ " lined with IPC set in a - packer
at 5972 feet. (Or describe any other casing-tubing seal).

Other Data

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

<u>Greenhill Petroleum Corp.</u>		<u>Lovington Paddock</u>		
OPERATOR		LEASE		
<u>84</u>	<u>1100 FEL & 2285 FSL</u>	<u>36</u>	<u>T16S-R36E</u>	
WELL NO.	FOOTAGE LOCATION	SEC.	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

comp. - 4/5/90

13 3/8
350

8 5/8
3019

5 1/2
6454
70
6470

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

Tubular Data

Spud 1-7-63

Surface Casing

Size: 7-5/8 " Cemented with 240 SX

TOC: Surface feet determined by calc

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 set in a
_____ (material)
_____ packer at 4579 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) _____
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.

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. State "R"
OPERATOR LEASE

OPERATOR

LEASE

WELL NO.	FOOTAGE	LOCATION	SEC.	TOWNSHIP	RANGE
83	2310	FWL & 1650 FSL	Sec 36	T16S-R36E	

WELL NO.

FOOTAGE	LOCATION
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99	...
100	...

SEC.

TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 13 1/8 ". 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 _____ 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) Louington 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 Glorietta

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

Surface Casing

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

TOC: Surface feet determined by ^{circ} ~~calc~~

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: ⁵²⁰⁵ ~~4574~~ feet determined by ^{Tamp. Survey} ~~80% calc~~

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

INJECTION WELL DATA SHEET

61

Cities Service <u>Penroc</u>		State AE		
OPERATOR		LEASE		
2Y	1420' FSL & 990' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

<u>Surface Casing</u>	
<div style="display: flex; align-items: center;"> <div style="border-left: 2px solid black; height: 100px; margin-right: 10px;"></div> <div> <p>13 3/8"</p> <p>303'</p> </div> </div>	Size: 13-3/8" Cemented with 350 SX
	TOC: Surface feet determined by ^{circ.} calc
	Hole size: 17-1/2"
<u>Intermediate Casing</u>	
<div style="display: flex; align-items: center;"> <div style="border-left: 2px solid black; height: 100px; margin-right: 10px;"></div> <div> <p>8 5/8"</p> <p>3328'</p> </div> </div>	Size: 8-5/8" Cemented with 1800 SX
	TOC: Surface feet determined by calc
	Hole size: 12-1/4"
<u>Long String</u>	
<div style="display: flex; align-items: center;"> <div style="border-left: 2px solid black; height: 100px; margin-right: 10px;"></div> <div> <p>5 1/2"</p> <p>TD 8510'</p> </div> </div>	Size: 5-1/2" Cemented with 1330 SX
	TOC: ³⁶⁰⁵ 1265 feet determined by ^{temp. survey} 80% calc
	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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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		
OPERATOR		LEASE		
#59	1980' FSL & 660' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
6-29-65Surface CasingSize: 8-5/8 " Cemented with 825 SXTOC: Surface feet determined by circHole size: 11"Intermediate CasingSize: 8-7/8 " Cemented with 825 SXTOC: 2064' feet determined by 878"Hole Size: Long StringSize: 4-1/2 " Cemented with 450 SXTOC: 3581 feet determined by Temp survey
calcHole Size: 7-7/8"Total Depth: 5060Injection Interval4666 feet to 5034 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a
(material)
Halliburton R-3 Tension packer at 4619 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#30	3630' FNL & 330' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
4-12-53Surface Casing

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

TOC: Surface feet determined by calc

4/53 Plugged
Back from AboCmt 6275-6400'
Cmt 8240-8400'
Cmt 8600-8760'13 3/8"
339'Intermediate Casing

Size: 8-5/8" Cemented with 400 SX

TOC: Surface feet determined by calc

Converted to
Injection 12/668 5/8"
3369'Long String

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

TOC: 4200 feet determined by temp
survey

Hole size: 7-7/8"

5 1/2"
6087'

Total Depth: 8760'

PBD
6270'Injection Interval6087 feet to 6270 feet
TO 8760' (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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

#37

330' FNL & 990' FEL

6

175

37F

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Completed
7-24-46

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 set in a
(material)
— 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	Lovington San Andres Unit			
OPERATOR	LEASE			
#27	660 FEL & 660 FSL	35	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface CasingSize: 7 5/8 " Cemented with 600 SXTOC: Surface feet determined by calcHole size: 9 1/4"Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long StringSize: 5 1/2 " Cemented with 300 SXTOC: 273 feet determined by 80% calcHole Size: 6 1/2"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

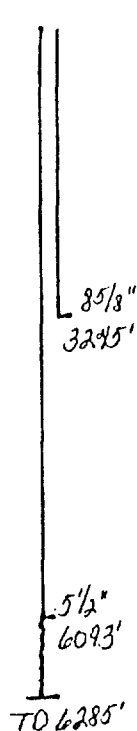
- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
No
- 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		
#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 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 485 SX

TOC: 3613 feet determined by temp survey

Hole size:

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

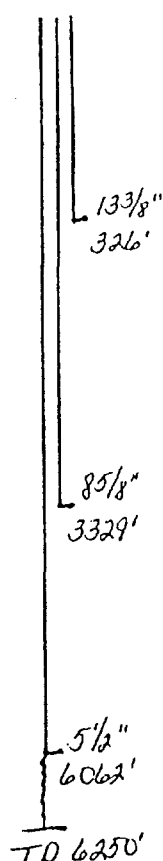
INJECTION WELL DATA SHEET

70

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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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
OPERATOR

Lovington San Andres Unit
LEASE

#26
WELL NO.

660 FSL & 1980 FWL	FOOTAGE LOCATION
1	1000
2	1000
3	1000
4	1000
5	1000
6	1000
7	1000
8	1000
9	1000
10	1000
11	1000
12	1000
13	1000
14	1000
15	1000
16	1000
17	1000
18	1000
19	1000
20	1000
21	1000
22	1000
23	1000
24	1000
25	1000
26	1000
27	1000
28	1000
29	1000
30	1000
31	1000
32	1000
33	1000
34	1000
35	1000
36	1000
37	1000
38	1000
39	1000
40	1000
41	1000
42	1000
43	1000
44	1000
45	1000
46	1000
47	1000
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49	1000
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53	1000
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79	1000
80	1000
81	1000
82	1000
83	1000
84	1000
85	1000
86	1000
87	1000
88	1000
89	1000
90	1000
91	1000
92	1000
93	1000
94	1000
95	1000
96	1000
97	1000
98	1000
99	1000
100	1000

36
SEC.

T16S
TOWNSHIP

R36E
RANGE

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" .

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'

Infection 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		
#41	810' FSL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface 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- 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

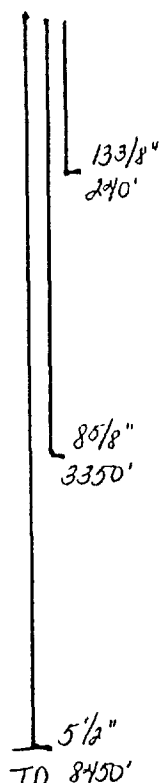
74

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

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

76

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

$13\frac{3}{8}"$
 $265'$

 $8\frac{5}{8}"$
 $33\frac{4}{3}'$

 $5\frac{1}{2}"$
TD 8435'

Surface Casing

Size: 13-3/8" Cemented with 265 SX

TOC: Surface feet determined by ^{circ}calc

Hole size: 18"

Intermediate Casing

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

TOC: ^{surface}798 feet determined by ^{circ}50% calc

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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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).

- 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		
#24	660' FEL & 660' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
9-8-39

322'
13"

2990'
8 5/8"

4515'
5 1/2"

5075'
TD

Surface CasingSize: 13 " Cemented with 250 SXTOC: Surface feet determined by circHole size: 17 1/4" 15"Intermediate CasingSize: 8-5/8 " Cemented with 500 SXTOC: 1458 feet determined by calcHole Size: 12 1/4" 9 3/4Long StringSize: 5-1/2 " Cemented with 250 SXTOC: 3145 Surface feet determined by calcHole Size: 7 7/8" 6 1/4Total Depth: 5075'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

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

<div>13" 252'</div> <div>8 5/8" 3421'</div> <div>5 1/2" TD 8442'</div>	Surface Casing
	Size: 13 " Cemented with 275 SX
	TOC: Surface feet determined by calc
	Hole size: 18"
	Intermediate Casing
	Size: 8-5/8 " Cemented with 1750 SX
	TOC: Surface feet determined by 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
(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		
#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

	<u>Surface Casing</u>
	Size: 9-5/8" Cemented with 900 SX
	TOC: Surface feet determined by ^{Circ} calc
	Hole size: 12-1/4"
	<u>Intermediate Casing</u>
9 5/8"	Size: Cemented with SX
2090'	TOC: feet determined by
	Hole size:
	<u>Long String</u>
	Size: 5-1/2" Cemented with 500 SX
	TOC: ³⁵²⁷ 3316 feet determined by 80% calc
5 1/2"	Hole size: 7-7/8"
6040'	Total Depth: 6252'
TO 6252'	<u>Injection Interval</u>
	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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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 SX
 TOC: Surface feet determined by calc
 Hole size: 18"
 13 3/8"
 315'
Intermediate Casing
 Size: 9-5/8" Cemented with 4500 SX
 TOC: Surface feet determined by calc
 Hole size: 12-1/4"
 9 5/8"
 5135'
Long String
 Size: 5-1/2" Cemented with 650 SX
 TOC: 4959 feet determined by 80% calc
 Hole size: 7-7/8"
 5 1/2"
 TO 8500'
 Total Depth: 8500
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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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).

- 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

Tubular DataSurface CasingSize: 13 " Cemented with 200 SXTOC: Surface feet determined by calcHole size: 14Intermediate CasingSize: 9 5/8 " Cemented with 500 SXTOC: 1773 feet determined by 50% calcHole Size: 11 1/4Long StringSize: 7 " Cemented with 200 SXTOC: 2735 feet determined by 80% calcHole Size: 8 1/4Total 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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Underlying - Grayburg

Completed
6/2/39

13"
277'

9 5/8"
3013'

7"
4851'

TD 5081'

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation
OPERATORLovington San Andres Unit
LEASE#22
WELL NO.330 FSL & 1650 FWL
FOOTAGE LOCATION31
SEC.T16S
TOWNSHIPR73E
RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SXTOC: Surface feet determined by calcHole size: 15 1/2

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SXTOC: 1369 feet determined by 50% calcHole Size: 11 1/4

Long String

Size: 7 " Cemented with 200 SXTOC: 3161 feet determined by 80% calcHole Size: 8 3/4Total Depth: 5086

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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Completed
11/19/55Deepened to 4917
6/8/66Deepened to 5086
2/4/8613"
299'9 5/8"
3002'7"
4525'

TD 4760'

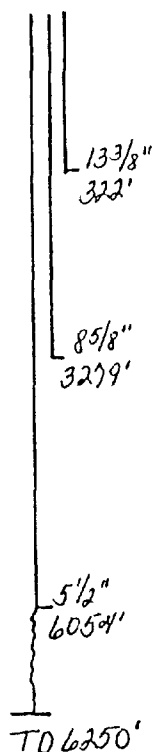
Deepened
4917
6-8-66TD 5086
2-4-86

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular DataSpud Date
8-6-53Surface 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 Interval6054 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 "0"		
OPERATOR		LEASE		
11	330' FSL & 2310' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface Casing

Size: 13-3/8" Cemented with 240 SX

TOC: Surface feet determined by calc

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
OPERATORLovington San Andres Unit
LEASE#21
WELL NO.2310 FEL & 660 FSL
FOOTAGE LOCATION31
SEC.T16S
TOWNSHIPR31E
RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 200
175 SXTOC: Surface feet determined by calcHole size: 15

Intermediate Casing

Size: 8 5/8 " Cemented with 500
400 SXTOC: 1784 feet determined by 50% calcHole Size: 10 1/4 9 7/8

Long String

Size: 5 1/2 " Cemented with 200
150 SXTOC: 1626 642 feet determined by 80% calcHole Size: 6 1/4Total Depth: 5032'

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

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Completed
9/20/39

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 ^{circ.} ~~gate~~

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)

8 5/8"
3145'

5 1/2"
6050'
TD 6245'

Tubing size 2-3/8" lined with IPC set in a - packer
at 5974 feet. (Or describe any other casing-tubing seal).

Other Data

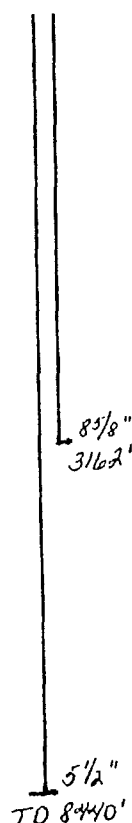
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
No
- 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 "0"		
OPERATOR		LEASE		
23	990' FSL & 660' 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 San Andres Unit		
OPERATOR		LEASE		
#20	660 FSL & 660 FEL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

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 475 SX
 TOC: 784 feet determined by 50% calc
 Hole Size: 11 10 1/2

Long String

Size: 5 1/2 " Cemented with 450 SX
 TOC: 654 1340 feet determined by 80% calc
 Hole Size: 6 1/4 7
 Total Depth: 4945'

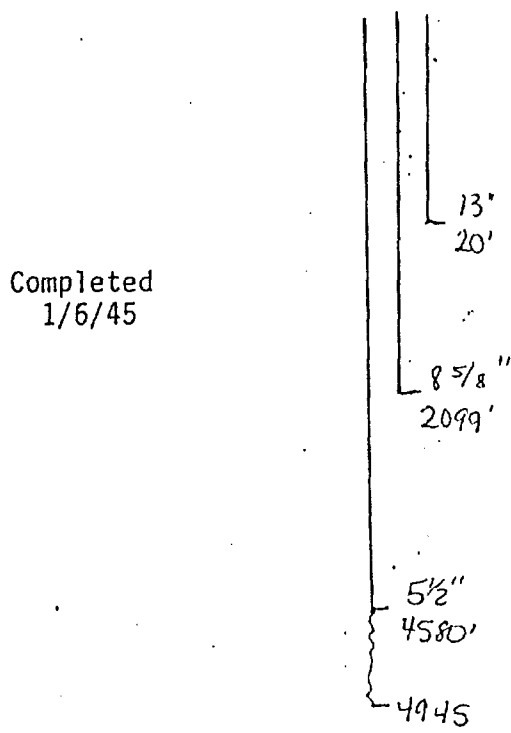
Injection Interval

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

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

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg



Completed
1/6/45

66 92

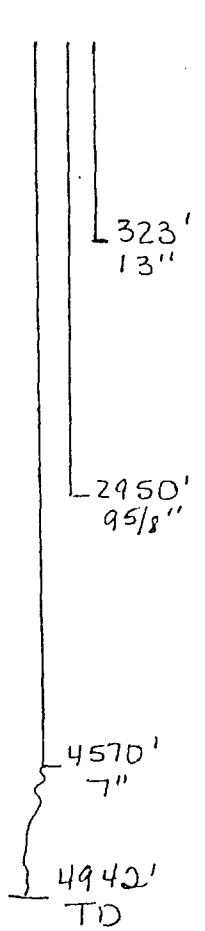
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#35	339' FNL & 1890' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-4-39

Deepen to 5040



Surface Casing
Size: 13 " Cemented with 200 SX
TOC: Surface feet determined by circ
Hole size: 17-1/4"
Intermediate Casing
Size: 9-5/8" " Cemented with 400 SX
TOC: 1644 feet determined by calc
Hole Size: 12"
Long String
Size: 7 " Cemented with 200 ~~300~~ SX
TOC: 1789 feet determined by calc
Hole Size: 8-3/4"
Total Depth: 4942'
Injection Interval
4570 — feet to 5040 — feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 " — lined with IPC — set in a
(material)
packer at 4520 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation — San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#19	1980 FNL & 2310 FEL	32	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface CasingSize: 13 3/8 " Cemented with 200 SXTOC: Surface feet determined by calcHole size: 17 1/4Intermediate CasingSize: 8 5/8 " Cemented with 300 SXTOC: 1193 feet determined by 50% calcHole Size: 11Long StringSize: 5 1/2 " Cemented with 300 SXTOC: 2982 feet determined by 80% calcHole Size: 7 7/8Total Depth: 4946'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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Completed
 1/5/46

319'
 8 5/8"
 2113'
 5 1/2"
 4617'
 4946' TD

INJECTION WELL DATA SHEET

Texaco OPERATOR		State "V" LEASE		
1 WELL NO.	660' FWL & 660' FNL FOOTAGE LOCATION	5 SEC.	17S TOWNSHIP	37E RANGE

Tubular Data

Completed
6-20-52

5 1/2" liner
4803 - 11063
TOC 7010 F112

6-20-55
592 liner from
6648 - 6650 w 280 SX
TOC 5740

13 3/8
335

480

8 5/8
4984

5 1/2"
7011063

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8" Cemented with 3167 ~~3000~~ SX

TOC: Surface feet determined by calc

Hole Size: 11"

Long String

Size: 5-1/2" Cemented with 732 SX
liner behind intermediate

TOC: feet determined by

Hole Size: 7-7/8"

Total Depth: 11,063'

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

- Name of the injection formation
- Name of Field or Pool (If applicable) East Lovington (Penn)
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Above Abo

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation OPERATOR Lovington San Andres Unit LEASE

#36 WELL NO. 660 FNL & 2040 FEL FOOTAGE LOCATION 6 SEC. T17S TOWNSHIP R37E RANGE

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 500 400 SX

TOC: 1774 feet determined by 50% calc

Hole Size: 10 1/4"

Long String

Size: 5 1/2" Cemented with 200 125 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 set in a
(material)
Baker "A" Pension packer at 4466 feet.
(brand & model)
(or describe any other casing-tubing seal). Pkr. #2 Howco R-3 set @ 4435'.

Other Data

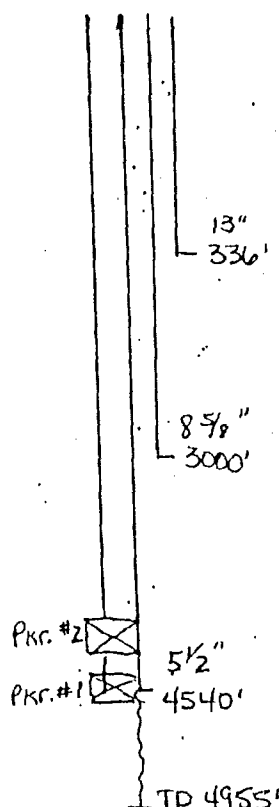
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

Underlying - Grayburg

Completed
9/12/39

Pkr. #1
3/22/63

Pkr. # 2
1/25/79



INJECTION WELL DATA SHEET

Penroc			C. S. Caylor		
OPERATOR			LEASE		
3	660' FNL & 3393' FEL		6	17S	37E
WELL NO.	FOOTAGE LOCATION		SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-18-52

	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 300 SX
	TOC: Surface feet determined by calc
13 3/8"	Hole size: 18"
286'	
	<u>Intermediate Casing</u>
	Size: 8-5/8" Cemented with 800 SX
	TOC: 849 feet determined by 50% calc
	Hole size: 12-1/4"
	<u>Long String</u>
8 5/8"	Size: 5-1/2" Cemented with 800 SX
3300'	TOC: 4082 feet determined by 80% calc
	Hole size: 7-7/8"
	Total Depth: 8440'
5 1/2"	<u>Injection Interval</u>
TD 8440'	
	- 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

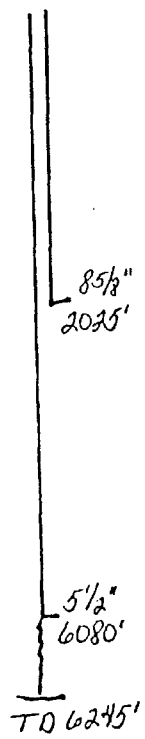
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#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



sqrd 275 SX at 4,10-91

Surface Casing

Size: 8-5/8" Cemented with 950 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: 4050 feet determined by 70% calc
 Hole size: 7 7/8
 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		Lovinton San Andres Unit		
OPERATOR		LEASE		
#34	660 FNL & 615 FWL	6	T17S	R37E
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE

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 set in a
(material)
Baker "A" Pension packer at 4498 feet.
(brand & model)

(or describe any other casing-tubing seal). Packer #2 - 2 3/8" plastic lined tbg.
set in a 7" Guiberson Packer @ 4470'.

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

State L "A"

OPERATOR	LEASE			
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE
8	560' FNL & 660' FEL	1	17S	36E

Tubular Data

Completed
5-3-52

Surface Casing

Size: 13-3/8 " Cemented with 225 SX

TOC: Surface feet determined by calc

13³/₈ Hole size: 17-1/2"
280

Intermediate Casing

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

TOC: 3063 feet determined by 50% calc

8 5/8" Hole Size: 11"
3198

Long String

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

94" TOC: 4975 feet determined by temp survey

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 _____ 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 OPERATOR Lovington San Andres Unit LEASE

#33 WELL NO. 660 FNL & 660 FEL FOOTAGE LOCATION 1 SEC. T17S TOWNSHIP R36E RANGE

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

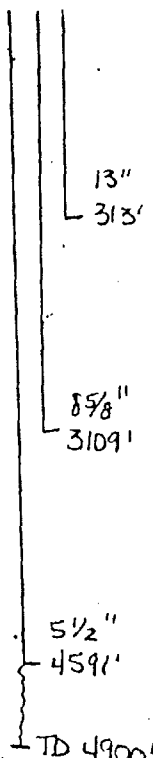
feet to feet
(perforated or open-hole, indicate which)

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

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying-Grayburg

Completed
10/15/39



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

	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 300 SX
	TOC: Surface feet determined by ^{calc} calc
	Hole size: 17-1/2"
13 3/8"	<u>Intermediate Casing</u>
297'	Size: 8-5/8" Cemented with 1500 SX
	TOC: ³⁹⁰ Surface feet determined by ^{TS} calc
	Hole size: 11"
8 5/8"	<u>Long String</u>
3723'	Size: 5-1/2" Cemented with 550 SX
	TOC: ³⁷²⁴ 3019 feet determined by ^{TS} 80% calc
	Hole size: 7-7/8"
5 1/2"	Total Depth: 6240'
6015'	<u>Injection Interval</u>
TD 6240'	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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

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

<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> <div style="text-align: center;">13 7/8</div> <div style="text-align: center;">295'</div> <div style="text-align: center;">5 7/8</div> <div style="text-align: center;">3748'</div> <div style="text-align: center;">5 1/2</div> <div style="text-align: center;">9335'</div> <div style="text-align: center;">8440'</div> <div style="text-align: center;">TD</div> </div> </div>	Surface Casing
	Size: 13-3/8" Cemented with 225 SX
	TOC: Surface feet determined by calc
	Hole size: 17-1/2"
	Intermediate Casing
	Size: 8-5/8" Cemented with 1500 SX
	TOC: ¹²⁹⁵ Surface feet determined by ^{TS} calc
	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

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington Abo _____
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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).

- 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		
#32	660 FNL & 1980 FEL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

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 set in a
Baker "A" Pension packer at 4548 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

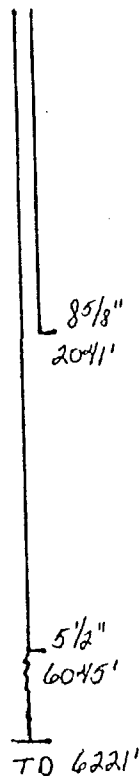
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
No
- 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		
#47	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 ¹²⁰⁰~~1000~~ 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 ³⁰⁰~~102~~ SX

TOC: ⁴¹⁴⁷~~5053~~ feet determined by ^{TS}~~calc~~

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

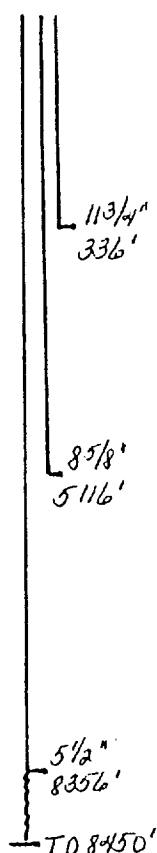
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

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

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SXTOC: Surface feet determined by circulationHole size: 17 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SXTOC: 1597 feet determined by 50% calcHole Size: 12 "

Long String

Size: 5 1/2 " Cemented with 300 SXTOC: 2910 feet determined by 80% calcHole Size: 7 7/8 "Total Depth: 4970 '

Injection Interval

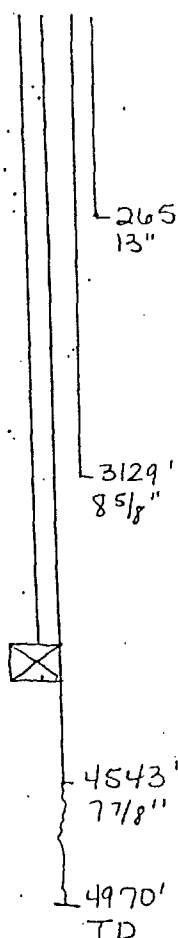
4543 feet to 4970 feet
(perforated or open-hole, indicate which)

Tubing size 2 " lined with IPC set in a
(material)
Baker Model A packer at 4485 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Completed
12/2/39



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE
#45	660' FNL & 330' FWL
2	17S 36E
WELL NO.	FOOTAGE LOCATION
SEC.	TOWNSHIP
RANGE	

Tubular DataCompleted
2-9-55Converted to
Injection 12/66Surface Casing

Size: 8-5/8" Cemented with 1350 SX

TOC: Surface feet determined by ^{circ}calc

Hole size: 12 1/2"

Intermediate Casing8 3/8"
2053'

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3865 feet determined by 80% calc

Hole size: 7-7/8"

5 1/2"
6111'
TD 6235'

Total Depth: 6235'

Injection Interval6111 feet to 6235 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 6090 feet. (Or describe any other casing-tubing seal).

Other Data

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#29	660 FNL & 660 FEL	2	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 215 SX
TOC: Surface feet determined by calc
Hole size: 17"

Intermediate Casing

Size: 8 5/8 " Cemented with 600 SX
TOC: 218 feet determined by 50% calc
Hole Size: 11"

Long String

Size: 5 1/2 " Cemented with 380 SX
TOC: 2518 feet determined by 80% calc
Hole Size: 7 7/8"

Total Depth: 4980'

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

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

Penroc	State E TR 18			
OPERATOR	LEASE			
21	660' FNL & 1650' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
11-9-53

Converted to
SWD 3-9-79

Deepened to
8987' 3-9-79

7" csg. sg2d w/
600SX at 4722
TOC 3375 by TS

<div style="display: flex; align-items: center;"> <div style="border-left: 2px solid black; height: 100%; margin-right: 5px;"></div> <div style="display: flex; flex-direction: column; justify-content: space-around; padding-left: 5px;"> <div>13 3/8 269'</div> <div>9 5/8 3300</div> <div>7" 8391</div> <div>TD 8470</div> <div>TD 8987</div> </div> </div>	<u>Surface Casing</u>
	Size: <u>13-3/8</u> " Cemented with <u>275</u> SX
	TOC: <u>Surface</u> feet determined by <u>calc</u>
	Hole size: <u>17-1/2"</u>
	<u>Intermediate Casing</u>
	Size: <u>9-5/8</u> " Cemented with <u>300</u> SX
	TOC: _____ feet determined by _____
	Hole Size: <u>12-1/4"</u>
	<u>Long String</u>
	Size: <u>7</u> " Cemented with <u>550</u> SX TS 550 per lte
TOC: <u>3375</u> feet determined by <u>temp survey</u>	
Hole Size: <u>8-3/4"</u>	
Total Depth: <u>8470'</u>	
<u>Injection Interval</u>	
<u>8391</u> feet to <u>8987</u> feet (perforated or open-hole, indicate which)	

Tubing size 2-1/2" lined with IPC (material) set in a
 _____ packer at 8378 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Abo
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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).
- 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		
#39	1985 FNL & 610 FWL	6	T17S	R37E
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE

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)
packer at 4570 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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			
#40	1980 FNL & 660 FEL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 180
100 SX

TOC: Surface feet determined by circulation

Hole size: 17 1/4"

Intermediate Casing

Size: 8 5/8" Cemented with 250
600 SX

TOC: 1050 feet determined by calc 50%

Hole Size: 11"

Long String

Size: 5 1/2" Cemented with 260 + 50
300 SX

TOC: 3680 feet determined by calc 80%

Hole Size: 7 7/8"

Total Depth: 4950'

Injection Interval

4579 — feet to 4950 — feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
(material)
packer at 4519 feet.
(brand & model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying-Grayburg

Completed
12/4/39

INJECTION WELL DATA SHEET

<u>Greenhill Petroleum Corp.</u>	<u>Lovington Paddock</u>
OPERATOR	LEASE
<u>85</u>	<u>1590 FWL & 1417 FNL</u>
WELL NO.	FOOTAGE LOCATION
<u>Sec. 1</u>	<u>T17S-R36E</u>
SEC.	TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 13 7/8 " Cemented with 500 SX
 TOC: Surface feet determined by calc
 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 _____ 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? 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

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

Tubular Data

Completed
8/25/39

Deepened
5144'
11/86

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 17 "

308' 13" Intermediate Casing

Size: 9 5/8 " Cemented with 200 SX

TOC: 1509 feet determined by 70% calc

Hole Size: 12 1/4 "

2036' 9 5/8" Long String

Size: 7 " Cemented with 250 SX

TOC: 3266 feet determined by 70% calc

Hole Size: 8 3/4 "

Total Depth: 5144'

4640' 7" Injection Interval

4980' TO

5144' TD

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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying - Grayburg

Lovington San Andres

LEASE

36E

RANGE

Completed
8-31-41

251' 13"

2050' 8 5/8"

4558' 5 1/2"

4990' TD

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

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

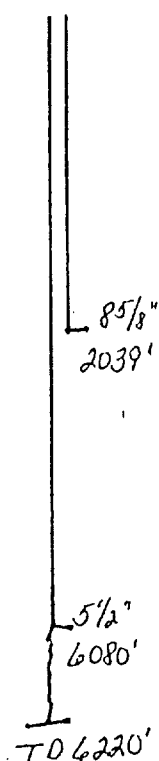
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used.
NO

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		
#61	990' FWL & 2310' FNL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface Casing

Size: 8-5/8" Cemented with 1000 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 220 SX

TOC: 30 feet determined by ^{temp survey} ~~80% calc~~

Hole size: 7-7/8"

Total Depth: 6220'

Injection Interval6080 feet to 6220 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 6045 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

Lovington San Andres
LEASE

36E

RANGE

Tubular Data

Surface Casing

Hole size: 17-1/4"

Intermediate Casing

Hole Size: 12"

Long String

Hole Size: 8-3/4"

Total Depth: 4938'

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

Amerada Hess		State L "A"		
OPERATOR		LEASE		
11	1650' FNL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13-3/8 " Cemented with 250 SXTOC: Surface feet determined by calcHole size: 17-1/2"

Intermediate Casing

Size: 8-5/8 " Cemented with 1500 SXTOC: 1361 Surface feet determined by TS scaleHole Size: 11"

Long String

Size: 5-1/2 " Cemented with 600 SXTOC: 4908 feet determined by temp surveyHole 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

Completed
 1-4-53

13 3/8
 248'
 8 5/8
 3750
 5 1/2
 8300
 TD
 8440

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

Tubular DataSurface 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 — set in a
(material)
— packer at — feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area,
Underlying-Grayburg

Completed
9-22-39

314'
18"

3100'
8 7/8"

4592'
5 1/2"

4903'
TD

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: 1550 feet determined by TS
 Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with + 500 per l/c 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

- Name of the injection formation -
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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).
-
- 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		
#59	1650' 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
 Hole size: 17 1/2"
Intermediate Casing
 Size: 8-5/8" Cemented with 1500 SX
 TOC: ¹⁰²⁸~~Surface~~ feet determined by ^{TS}~~calc~~
 Hole size: 11"
Long String
 Size: 5-1/2" Cemented with 550 SX
 TOC: ³⁶¹⁸~~3054~~ feet determined by ^{TS}~~80% calc~~
 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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

Amerada Hess

State L"A"

OPERATOR	LEASE
10	1650' FNL & 660' FEL
WELL NO.	FOOTAGE LOCATION
10	1650' FNL & 660' FEL

LEASE

1

17S

36E

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

Hole size: 17-1/2"

Intermediate Casing

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

TOC: Surface feet determined by calc

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

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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).
- 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 ^{circ}~~calc~~
 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 ⁵⁵⁰~~500~~ 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

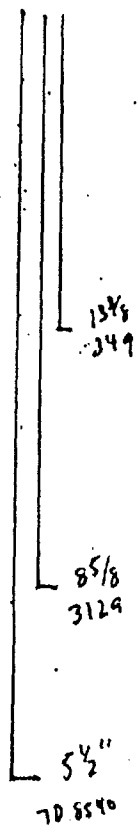
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.
No
- 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		
# 57	1980' & 695' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-13-52



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8 " Cemented with 1400 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 TS

Hole Size: 7 3/4

Total Depth: 8450

Injection Interval

6028
6028 ~~5820~~ 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

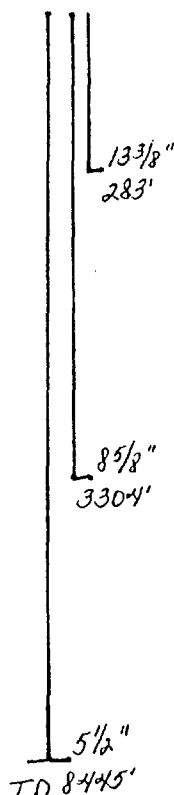
- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give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

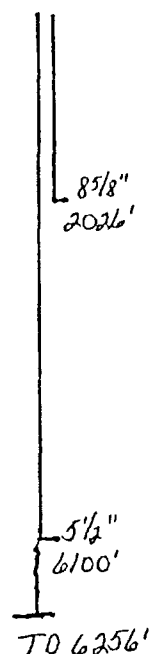
(Above) Drinkard

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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

<u>Greenhill Petroleum Corporation</u>		<u>Lovington San Andres</u>		
OPERATOR		LEASE		
<u>38</u>	<u>1650' FNL & 1980' FWL</u>	<u>6</u>	<u>17S</u>	<u>36E</u>
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
9-16-39Surface CasingSize: 13 " Cemented with 250 SXTOC: Surface feet determined by circHole size: 17-1/4" 15Intermediate CasingSize: 9-5/8 " Cemented with 350 SXTOC: 1804 feet determined by calcHole Size: 12" 10 3/4Long StringSize: 7 " Cemented with 300 SXTOC: 2707 feet determined by calcHole Size: 8-3/4" 8 1/4Total 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

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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		
#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 ¹⁰²⁵~~1595~~ SX

TOC: Surface feet determined by ^{circ}~~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: 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

INJECTION WELL DATA SHEET

Tidewater Oil Company		H. L. Batton "A"		
OPERATOR	LEASE			
1	1650 1653' FNL & 330' FWL	5	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-2-57

Cased Hole

Surface Casing
 Size: 9-5/8" Cemented with 1200 SX
 TOC: Surface feet determined by ^{circ} ~~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 800 SX
 TOC: ³³⁸⁰ ~~1940~~ feet determined by ^{TS} ~~80%~~ ~~calc~~
 Hole size: 7-7/8"
 Total Depth: 6300'

9 5/8"
 2116'
 5 1/2"
 TO 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) 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

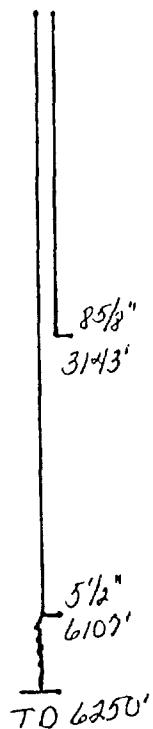
INJECTION WELL DATA SHEET

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

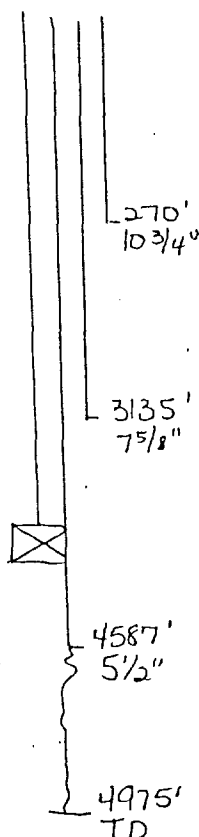
1. Name of the injection formation: Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

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

Tubular Data

Completed
10-2-39

Surface CasingSize: 10-3/4 " Cemented with 200 SXTOC: Surface feet determined by circHole size: 13-3/4"Intermediate CasingSize: 7-5/8 " Cemented with 400 SXTOC: 1026 feet determined by calcHole Size: 9-7/8"Long StringSize: 5-1/2 " Cemented with 175 SXTOC: 2611 feet determined by calcHole 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 set in a
(material)
R-3 Tension packer at 4460 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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	2310	LEASE		
#67	2210 ' FSL & 660' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSpud Date
1-23-54Surface Casing

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

TOC: Surface feet determined by calc

13 3/8" Hole size: 17 1/2"

Intermediate Casing

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

TOC: 2497 feet determined by 70% calc

9 5/8" Hole size: 12 1/2"
3289'Long String

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

TOC: 4525 feet determined by temp survey

5 1/2" Hole size: 8 3/4"

8180' Total Depth: 8664'

TD 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) Paddock3. 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		
#61	2545' FNL & 100' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
3-15-90

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

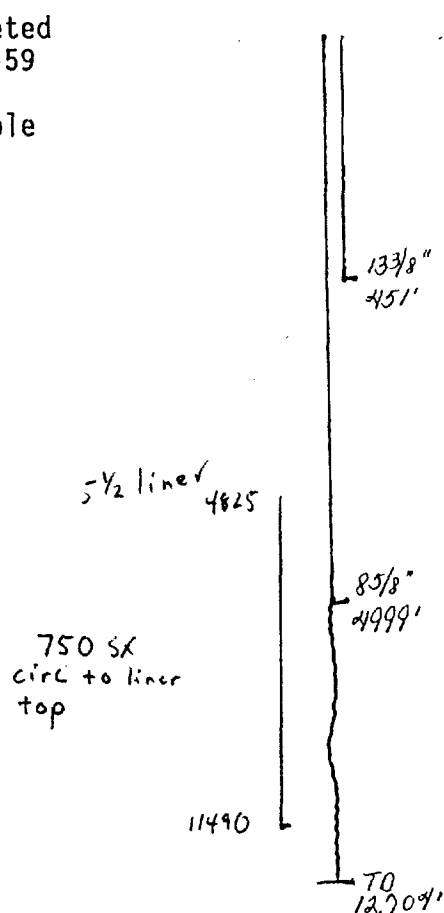
INJECTION WELL DATA SHEET

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

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: ²⁷⁶⁵Surface feet determined by ^{TS}~~80%~~ calc

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.

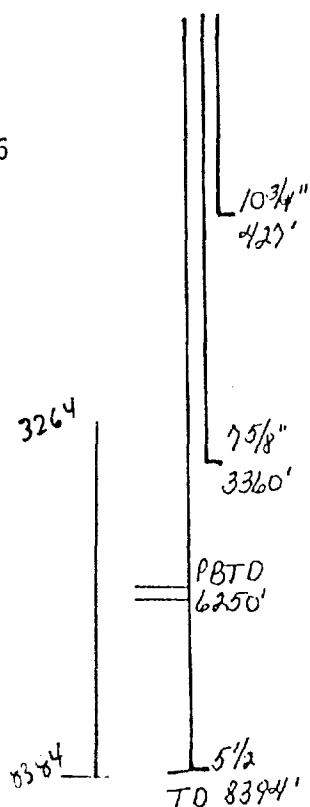
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#66	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

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

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

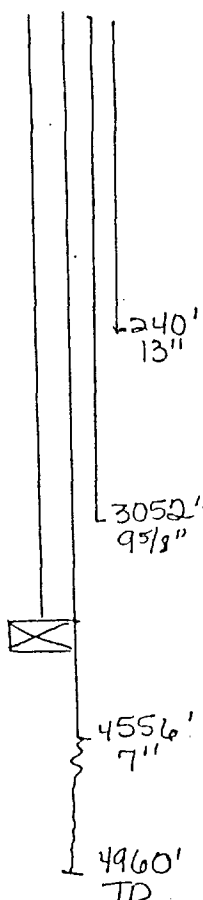
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#49	1980' FSL & 660' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
7-2-39

Converted
7-14-76

Surface CasingSize: 13 " Cemented with 250 SXTOC: Surface feet determined by circ.Hole size: ?Intermediate CasingSize: 9-5/8 " Cemented with 250 SXTOC: 2350 feet determined by calcHole Size: ?Long StringSize: 7 " Cemented with 259 SXTOC: 3090 feet determined by calcHole Size: ?Total Depth: 4960Injection Interval4556 feet to 4960 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a
Baker Model AD-1 packer at 4417 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

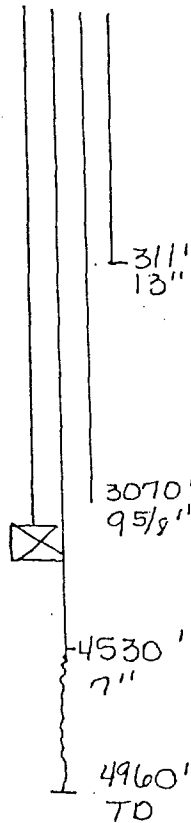
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
NO
- 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		
#48	1980' FSL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-21-39

Surface CasingSize: 13 " Cemented with 250 SXTOC: Surface feet determined by calcHole size: 17-1/4"Intermediate CasingSize: 9-5/8 " Cemented with 250 SXTOC: 2251 feet determined by calcHole Size: 12"Long StringSize: 7 " Cemented with 225 SXTOC: 3119 feet determined by calcHole 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 set in a
(material)
Baker Model 'A' packer at 4526 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

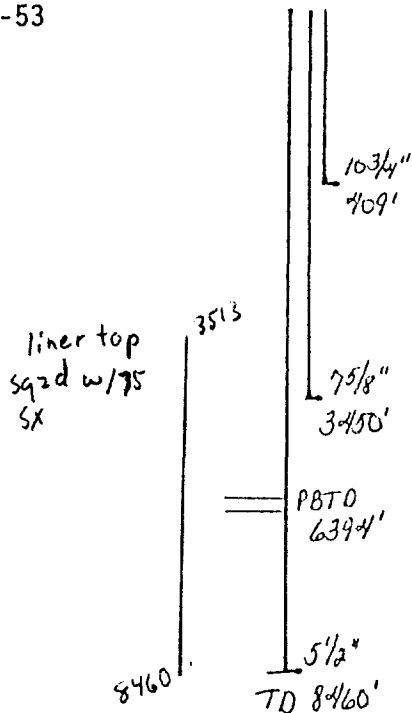
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
NO
- 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

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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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

Amerada Hess		State L "A"		
OPERATOR		LEASE		
12	2310' FSL & 2310' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
2-23-53

Surface CasingSize: 13-3/8 " Cemented with 250 SXTOC: Surface feet determined by calcHole size: 17-1/2"Intermediate CasingSize: 8-5/8 " Cemented with 1500 SXTOC: 1039 ~~Surface~~ feet determined by TS ~~calc~~Hole Size: 11"Long StringSize: 5-1/2 " Cemented with 600 SXTOC: 5614 feet determined by temp surveyHole 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

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No Production
If no, for what purpose was the well originally drilled? _____
- 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).

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

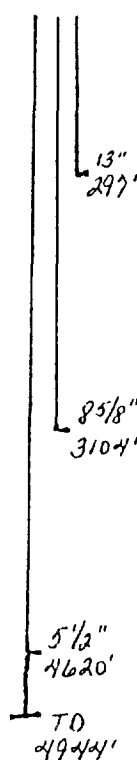
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
47	1980' FNL & ¹⁹⁸⁰ 1986 ' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
7-6-39

Converted
to Injection
8-6-69

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 500 SX

TOC: 1572 feet determined by 50% calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 230 SX

TOC: 3367 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4944'

Injection Interval

4620 feet to 4935 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 4517 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 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.

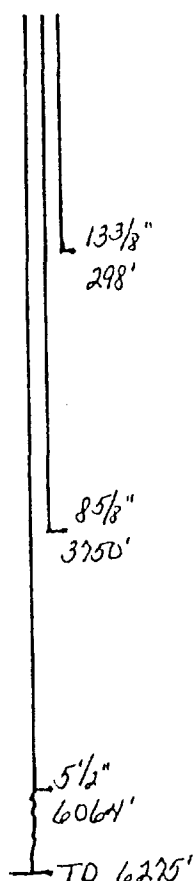
(Above) Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR		LEASE		
#64	1980' FSL & 1880' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
12-18-53Converted to
Injection 12/66Surface CasingSize: 13-3/8" Cemented with ²⁹⁵~~300~~ SXTOC: Surface feet determined by ^{circ}~~calc~~

Hole size: 17 1/2"

Intermediate Casing

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

TOC: ⁶⁰⁷~~Surface~~ feet determined by ^{TS}~~calc~~

Hole size: //

Long String

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

TOC: ³⁸³⁴~~3068~~ feet determined by ^{TS}~~80% calc~~

Hole size: 7-7/8"

Total Depth: 6275'

Injection Interval6064 feet to 6275 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 5979 feet. (Or describe any other casing-tubing seal).

Other Data

- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- 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
#63 1980' FSL & 990' FWL	1 17S 36E
WELL NO.	FOOTAGE LOCATION
SEC.	TOWNSHIP
RANGE	

Tubular DataSpud Date
5-19-53

	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 300 SX
	TOC: Surface feet determined by calc
	Hole size: 17 1/2
13 3/8" 299'	<u>Intermediate Casing</u>
	Size: 8-5/8" Cemented with 1500 SX
	TOC: 879 feet determined by temp survey
	Hole size: 11
8 5/8" 3750'	<u>Long String</u>
	Size: 5-1/2" Cemented with 500 ⁶⁰⁰ SX
	TOC: 3364 ³⁷⁴³ feet determined by 80% ^{TS} calc
	Hole size: 7-7/8"
5 1/2" 6088'	Total Depth: 6250'
TO 6250'	<u>Injection Interval</u>

- 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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

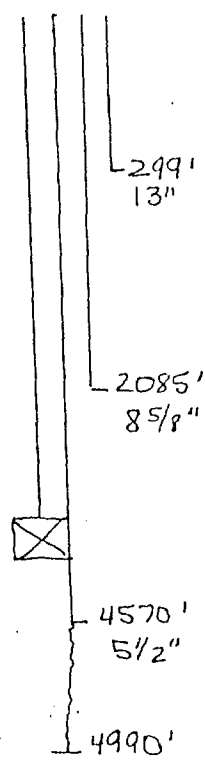
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#58	2310' FNL & 1309' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-15-41

deepen to 5070



Surface Casing
Size: 13 " Cemented with 180 SX
TOC: Surface feet determined by circ
Hole size: 17-1/4"

Intermediate Casing
Size: 8-5/8 " Cemented with 400 SX
TOC: 860 feet determined by calc
Hole Size: 11"

Long String
Size: 5-1/2 " Cemented with 200 SX
TOC: 3479 feet determined by calc
Hole Size: 7-7/8"
Total Depth: 4990'

Injection Interval
4570 feet to 5070 feet
(perforated or open-hole, indicate which)

Tubing size 2- 7/8 lined with IPC set in a
(material)
packer at 4550 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		
OPERATOR		LEASE		
53	660 FSL & 1980 FWL	1	T17S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Completed
1/39

281'
13"

2983'
9 5/8"

7 5/8"
3454'

4624' 5 1/2"
4815'
TD

Size: 13" Cemented with 300 SX

TOC: Surface feet determined by circ

Hole size: 17 1/2

Intermediate Casing

Size: 9 5/8" Cemented with 500 SX

TOC: 1475 feet determined by 80% calc.

Hole Size: 12 1/4

Long String

Size: 5 1/2" Cemented with 55 SX

TOC: 4418 feet determined by 80% calc.

Hole Size: 8 3/4

Total Depth: 4815

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

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? production
- 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.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
overlying Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#45	1980' FNL & 1980' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-26-43

	<u>Surface Casing</u>
	Size: <u>13</u> ~ Cemented with <u>175</u> SX
	TOC: <u>Surface</u> feet determined by <u>circ</u>
	Hole size: <u>17"</u>
	<u>Intermediate Casing</u>
	Size: <u>8-5/8</u> ~ Cemented with <u>600</u> SX
	TOC: <u>213</u> feet determined by <u>calc</u>
	Hole Size: <u>11"</u>
	<u>Long String</u>
	Size: <u>5-1/2</u> ~ Cemented with <u>400</u> SX
TOC: <u>2396</u> feet determined by <u>calc</u>	
Hole Size: <u>7-7/8"</u>	
Total Depth: <u>5147'</u>	
<u>Injection Interval</u>	
<u>4577</u> feet to <u>5147</u> feet (perforated or open-hole, indicate which)	

Tubing size 2 3/8 - lined with IPC (material) set in a
 _____ packer at 4527 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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
- 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	
72	660 FSL & 2080 FWL	1	T17S-R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Completed
5/14/53

297
13 3/8

3752
8 5/8

5 1/2
6108
TD
6242

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 1500 SX

TOC: Surface feet determined by calc.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 500 SX

TOC: ~~3426~~ 3864 feet determined by temp survey

Hole Size: 7 7/8

Total Depth: 6242

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

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? production
- 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.
- 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 Corp. Lovington Paddock
OPERATOR LEASE
71 660 FSL & 660 FEL 1 T17S-R36E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 350 1950 SX

13 3/8 TOC: Surface feet determined by circulation

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1950 SX

TOC: 175 Surface feet determined by File calc.

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 560 SX

TOC: 5000 5619 feet determined by File 80% calc.

Hole Size: _____

Total Depth: 6300

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? 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

Spnd 5/6/56

INJECTION WELL DATA SHEET

Texaco
OPERATORC. S. Caylor
LEASE

4 2179' ENL & 2173' FEL 6 17S 37E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Completed
8-14-52Recompleted
San Andres
6-14-89PBTD 7915
Perf 4600-4784'

Surface Casing

Size: 13-3/8" Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: Surface feet determined by 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 - set in a
(material)- packer at - feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Above Drinkard

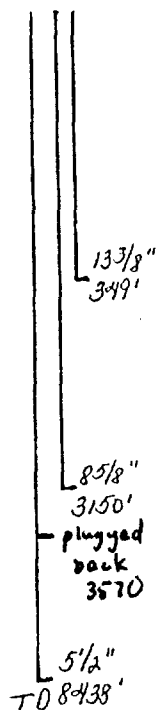
INJECTION WELL DATA SHEET

obtain more info

Oryx Energy Company

Maggie Caylor

OPERATOR		LEASE		
3	660' FNL & 665' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
3-19-52Sidetrack
6-28-90Well Plugged
Back to 3570'
Wellbore has
8-5/8" csg.
set @ 3150' &
cmtd. w/1200
sxs
sidetrackedSurface 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 1200 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 410 SX

TOC: ~~6057~~ ³¹¹⁷ feet determined by ~~80% calc~~ ^{temp survey} 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

- Name of the injection formation:
 - Name of Field or Pool (If applicable) Lovington Abo
 - Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 - 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).
-
- 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 Corp.		Lovington Paddock		
OPERATOR		LEASE		
9	660 FSL & 1980 FWL	30	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5/14/54

Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: Surface feet determined by circ.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1500 SX

TOC: Surface feet determined by circ.

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 1000 SX

TOC: 3153 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
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? production
- 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).

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

overlying Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock	
OPERATOR		LEASE	
69	2173 FSL & 2173 FEL	6	T17S-R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular DataSurface Casing

reached TD
6-19-53

Size: 13 3/8 " Cemented with 350 SX

TOC: _____ feet determined by _____

Hole size: _____

Intermediate Casing

Size: 8 5/8 " Cemented with 1150 SX

TOC: 820' feet determined by temp survey

Hole Size: _____

Long String

Size: 5 1/2 " Cemented with 600 SX

TOC: 3620 feet determined by completion report

Hole Size: _____

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

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? production
- 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.

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

INJECTION WELL DATA SHEET

Phillips Petroleum Corp Lovington

OPERATOR LEASE

1 (1980 S 660 E?) 35 16 S 36 E

WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data

7 7/8

10 3/4

289

2043

5 1/2

4679

TD5002

Surface Casing

Size 10 3/4 " Cemented with 250 sx.

TOC Circ feet determined by Calc

Hole size 13 3/4

Intermediate Casing

Size 7 5/8 " Cemented with 600 sx.

TOC 395 feet determined by Calc

Hole size 9 7/8

Long string

Size 5 1/2 " Cemented with 300 sx.

TOC 1609 feet determined by Calc

Hole size 6 3/4

Total depth 5002

Injection interval

feet to feet

(perforated or open-hole, indicate which)

10 SK 4680 - 4640

DATE	DEPTH	NATURE OF WORK PERFORMED
5-22-47	5002'	Lee County Casing Pullers, Contractor, moved in equipment to plug and abandon well. Running tubing to mud hole.
5-23-47	5002'	Ran tubing and mudded hole - spotted 10 sacks cement 4628-4698'
5-24-47	5002'	Shot 5-1/2" casing at 2200', casing came loose - now pulling casing.
5-25-47	5002'	No report.
5-26-47	5002'	Pulled 5-1/2" casing. Recovered 69 joints 2201', 1 1/2 SS "B" condition casing.
5-27-47	5002'	Mudded hole preparing to shoot 7-5/8" casing.
5-28-47	5002'	Spotted 10 sacks cement 2163-2218'. Shot 7-5/8" casing at 900', 700', 600', and 500'. Casing parted at 500'.
5-29-47		Pulled casing, 13 joints 499', 2 1/2" Range 3, H-40 SS "B" condition casing. Ran 10 sacks cement 502-534'. Placed wood plug at 10' in 10-3/4" casing and cemented to surface. Placed 4" pipe marker and filled cellar. Well plugged and abandoned.

INJECTION WELL DATA SHEET

Oryx Energy Co. C. S. Caylor Sr. Estate
 OPERATOR LEASE
7 1650 N 330 W 6 17 S 37 E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

4 1/2 8 5/8 13 3/8

Tabular DataSurface CasingSize 13 3/8 " Cemented with 375 sx.TOC Surface feet determined by CircHole size 17 1/2375 Intermediate CasingSize 8 5/8 " Cemented with 833 sx.TOC 670 feet determined by Temp SurveyHole size 113225 Long stringSize 4 1/2 " Cemented with 3188 sx.TOC Surface feet determined by CircHole size 17 7/8Total depth 8430

Injection interval

8404 feet to _____ feet
 (perforated or open-hole, indicate which)

ID 8430

Tubing size _____ lined with _____ set in a
 (material)
 _____ packer at _____ feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation _____
- Name of Field or Pool (if applicable) _____
- Is this a new well drilled for injection? ☐ Yes ☐ No
If no, for what purpose was the well originally drilled? _____
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

84

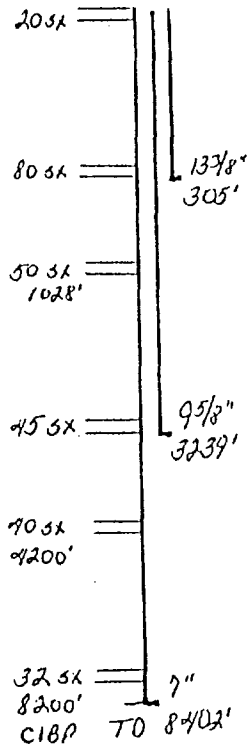
Arco	State 182 "A"			
OPERATOR	LEASE			
3	1959.54' FWL & 660' FSL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-12-52

P&A'd 2-4-76

cut & pulled
9 5/8 from 1028
cut & pull
7" from 4200
perf at 5000
592.120 SX.



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

94

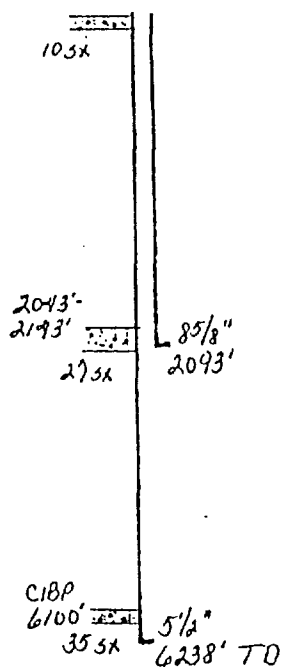
Texaco		State "P"		
OPERATOR		LEASE		
5	330' FSL & 330' FWL	32	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
1-18-52

P&A'd 7-26-76

5 1/2" casing
Shot and pulled
from 3115'



Surface Casing

Size: 8-5/8" Cemented with 1000 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 520 SX

TOC: 3405 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6238'

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

///

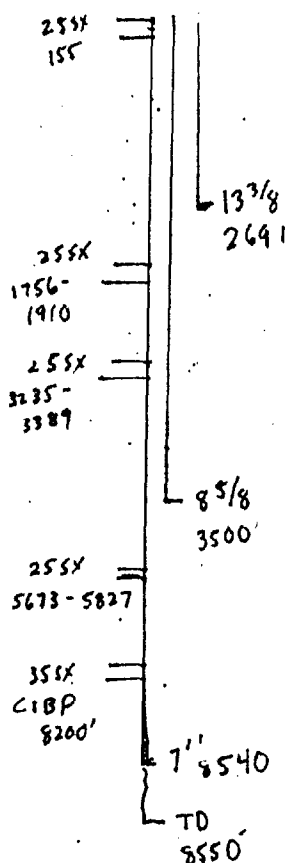
INJECTION WELL DATA SHEET

Amoco	State "E" TR 18			
OPERATOR	LEASE			
15	330' FNL & 2310" FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-4-52

P&A'd
7-17-84



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 SX

TOC: 1855 feet determined by temp survey
4910 original 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 - set in a
(material)
- packer at - feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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).
- 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

Amoco	State "E" TR 18			
OPERATOR	LEASE			
16	330' FNL & 990' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

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

Surface Casing

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

TOC: Surface feet determined by circ. calc

13 3/8
215 Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX

TOC: 1536
2050 feet determined by TS
50% calc

9 5/8
3281 Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 500 SX + 500 per lite

TOC: 4550 feet determined by temp survey

7"
TO 8517 Hole Size: 8-3/4"

Total Depth: 8517'

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

- Name of the injection formation -
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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).
-
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Drinkard

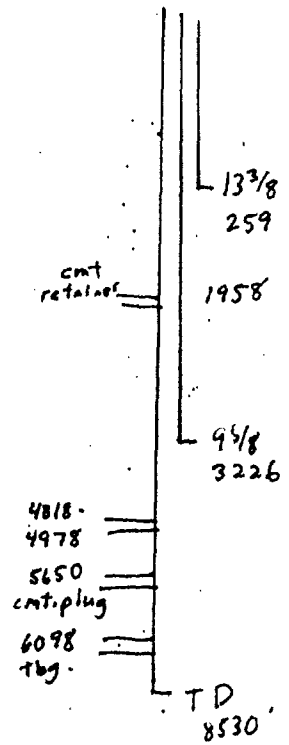
INJECTION WELL DATA SHEET

Amoco	State "E" TR 18			
OPERATOR	LEASE			
18	330' FNL & 330' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-12-53

P&A'd 11-7-83



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
TOC: 2246 1600 feet determined by 50% calc TS
Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with 550+550 cu ft SX
4975 perlite
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

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Drinkard

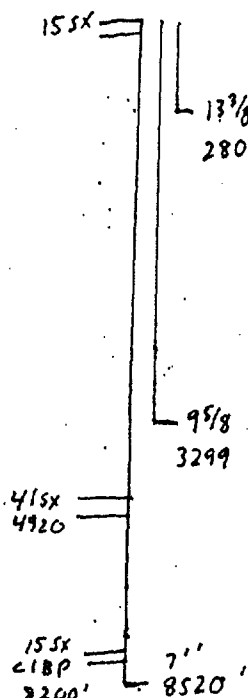
INJECTION WELL DATA SHEET

Penròc		State E TR 18		
OPERATOR	LEASE			
20	1650' ENL & 330' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
9-24-53

P&A'd
4-9-84



Surface Casing

Size: 13-3/8 ". Cemented with 265. SX

TOC: Surface feet determined by circ
scale

Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8 " Cemented with 300 SX

TOC: _____ feet determined by _____

Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with 550 SX

TOC: 2138 feet determined by calc

Hole Size: 8-3/4"

Total Depth: 8525'

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 No
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

INJECTION WELL DATA SHEET

E. F. Moran Inc.

Shipp State "A"

OPERATOR	LEASE
1	330' FNL & 330' FWL
5	17S 37E
WELL NO.	FOOTAGE LOCATION
	SEC. TOWNSHIP RANGE

Tubular DataSurface Casing

Size: 10-3/4" Cemented with 175 SX

TOC: Surface feet determined by ^{circ.} ~~calc~~

Hole size: 13-3/4"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 2485 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4934'

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

INJECTION WELL DATA SHEET

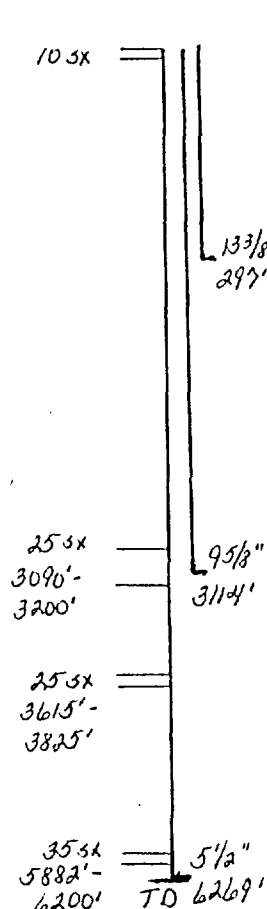
Sun Oil Company		M. Caylor		
OPERATOR		LEASE		
6	902' FWL & 1980' FNL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-15-53

P&A'd 3-9-70

5 1/2 shot and
pulled 3795

Surface Casing

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

TOC: Surface feet determined by ^{calc} ~~calc~~

Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with ¹⁵⁵⁰ ~~1200~~ SX

TOC: Surface feet determined by ^{calc} ~~calc~~

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with ⁵⁰⁰ ~~450~~ 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

Tidewater Getty State "M"
 OPERATOR LEASE

2 3630' FNL & 330' FEL 36 16S 36E
 WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Completed
 3-03-52

P&A 6-26-73

1" liner 4823 - 8459
 w 400 SX.

10 5/8" 3" -
 4688 -
 4796 -
 40 SX
 5657 -
 6059 -
 20 SX
 8148 -
 8185 -
 75 SX
 5 1/2" 8459
 TP
 8460

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8" Cemented with 3000 SX

TOC: Surface feet determined by calc

Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 400 SX

TOC: 5820 feet determined by C 103 report

Hole Size: 8-3/4"

Total Depth: 8460'

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

Re Aug 20
per 2-9-43
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

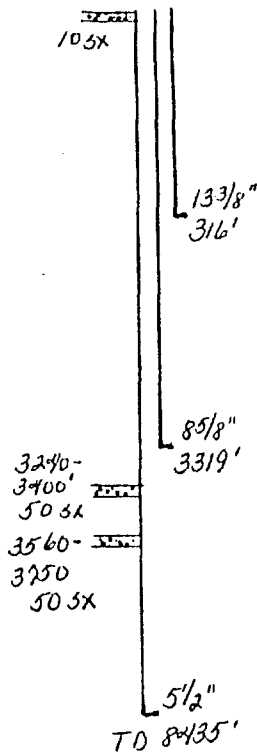
Tubular Data

Completed
1-09-53

P&A 6-6-69

5 1/2" csg. cut and
pulled down from
3200'

Cmt. ret. at 3488
w 555 SX below



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

INJECTION WELL DATA SHEET

2e play as
per 2-9431 54

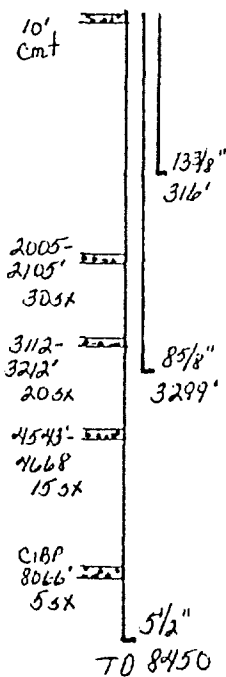
Getty		State "M"		
OPERATOR		LEASE		
3	1650' FSL & 1650' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
8-16-52

P&A 2-11-75

5 1/2" Liner
3161 - 8449



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

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

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)

13 3/8"
258'

8 5/8"
5010'

PBTO
6231'

Set 15 plugs

TD 14,153

4052-14,005-14,153
2552-13,910-13,992
2552-13,175-13,210
25 13,445-13,529
25-12,982-13,038
25-12,086-12,170
25-11,905-12,089
25-11,194-11,276
25-10,986-11,070
25-10,881-10,965
25-10,523-10,587

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

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

TA

		<u>Surface Casing</u>
		Size: 13-3/8" Cemented with 240 SX
		TOC: Surface feet determined by calc
		Hole size: 18"
		<u>Intermediate Casing</u>
		Size: 8-5/8" Cemented with 1300 SX
		TOC: Surface feet determined by calc
		Hole size: 11"
		<u>Long String</u>
		Size: 5-1/2" Cemented with 900 SX
		TOC: 3568 feet determined by 80% calc
		Hole size: 7-7/8"
		Total Depth: 8471'
		<u>Injection Interval</u>

13 3/8"
240'

8 5/8"
3291'

5 1/2"
TD 8471'

21 @ 6145
Pike Road
Candy

- 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

- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- 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).

- 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

Penroc State AE
 OPERATOR LEASE
 1 4950' FNL & 4290' FEL 36 16S 36E
 WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Completed
 11-1-52

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8" Cemented with 1900 SX

TOC: Surface feet determined by calc

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

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- 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.
- 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

Penroq

State "E" TR 18

OPERATOR		LEASE		
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE
19	1650' FNL & 990' FWL	1	17S	36E

Tubular Data

Completed
7-29-53

Surface Casing

Size: 13-3/8 ~ Cemented with 332 SX

TOC: Surface: _____ feet determined by calc _____

L 13³/₈ Hole size: 17-1/2"
266

Intermediate Casing

Size: 9-5/8 " Cemented with 300 SX

9 5/8 TOC: $\frac{1537}{1937}$ feet determined by $\frac{75}{50\%}$ calc

3298 Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 225 SX

TOC: 6775 feet determined by temp survey

7" , Hole Size: 8-3/4"

Total Depth: 8530'

Infection 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

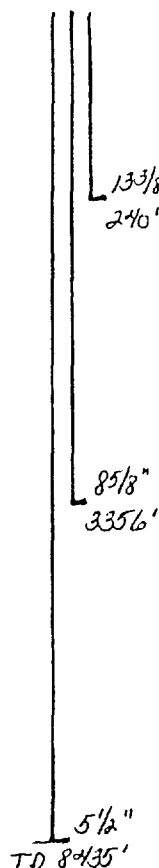
INJECTION WELL DATA SHEET

100

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

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 StringSize: 5-1/2" Cemented with ~~450~~ ⁸⁰⁰ SXTOC: 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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#46	660' FWL & 1980' FSL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-7-41

P&A'd
5-22-87

guzzee 5 1/2" casing 2685-4150
with 200 SRS.
cut 5 1/2" at 2400'
Spot 30 SRS. 2450-2350
Pump 880 SRS. Displaced down
7 5/8 to 1000'

Surface Casing

Size: 10-3/4" ~ Cemented with 175 SX

TOC: Surface feet determined by calc

Hole size: 15"

Intermediate Casing

Size: 7-5/8" ~ Cemented with 300 SX

TOC: 1510 feet determined by calc

Hole Size: 9-7/8"

Long String

Size: 5-1/2" ~ Cemented with 300 SX

TOC: 1235 feet determined by calc

Hole Size: 6-3/4"

Total Depth: 4946'

Injection Interval

4624 feet to 4946 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a
Baker Model 'A' packer at 4574 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Underlying-Grayburg

Re-plug as
see R-9431

INJECTION WELL DATA SHEET

Tide Water Associated Oil Co. H.T. Monteith
 OPERATOR LEASE
1 NESW ? 25 T16S R 36E
 WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

P: A
6/10/48

155XS. Surface Casing
 Size: 10 3/4 " Cemented with 300 SX
 TOC: Surf. feet determined by arc
300SX
479 Hole size: 13 3/4
10 3/4
Intermediate Casing
 Size: 7 5/8 " Cemented with 1200 SX
 TOC: Surface feet determined by arc
7 5/8
3428 Hole Size: 9 7/8
4167'
Long String
 Size: 5 1/2 " Cemented with 100 SX
 TOC: 4144 feet determined by 80% calc
100 SX
5150-4630 4689
TD
5150 Hole Size: 7 7/8
 Total Depth: 4944 5150

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) 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.

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~~25~~ TI6S R36E
 Well : PAD 18 ~~35~~
 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		Compound	Equiv wt X meq/L	=	mg/L
-----		-----	-----		-----
17 *Ca <----- *HCO3	4	Ca(HCO3)2	81.0	4.0	324
----- /----->	-----	CaSO4	68.1	4.2	283
19 *Mg -----> *SO4	4	CaCl2	55.5	9.3	516
----- <-----/	-----	Mg(HCO3)2	73.2		
1 *Na -----> *Cl	29	MgSO4	60.2		
-----	-----	MgCl2	47.6	18.5	881
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3 13 mg/L		Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L		NaCl	58.4	1.4	82
BaSO4 2.4 mg/L					

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 D. SWEATT

"A"

WATER ANALYSIS REPORT

Company : GREENHILL PETROLEUM
 Address : LOVINGTON, NM
 Lease : SENE SEC 2 T17S 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	Compound	Equiv wt X meq/L	= mg/L
+-----+	-----	-----	-----
36 *Ca <----- *HCO3	Ca(HCO3)2	81.0	324
----- /----->	CaSO4	68.1	461
0 *Mg -----> *SO4	CaCl2	55.5	1396
----- <-----/	Mg(HCO3)2	73.2	
1 *Na -----> *Cl	MgSO4	60.2	
+-----+	MgCl2	47.6	2
	NaHCO3	84.0	
	Na2SO4	71.0	
	NaCl	58.4	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

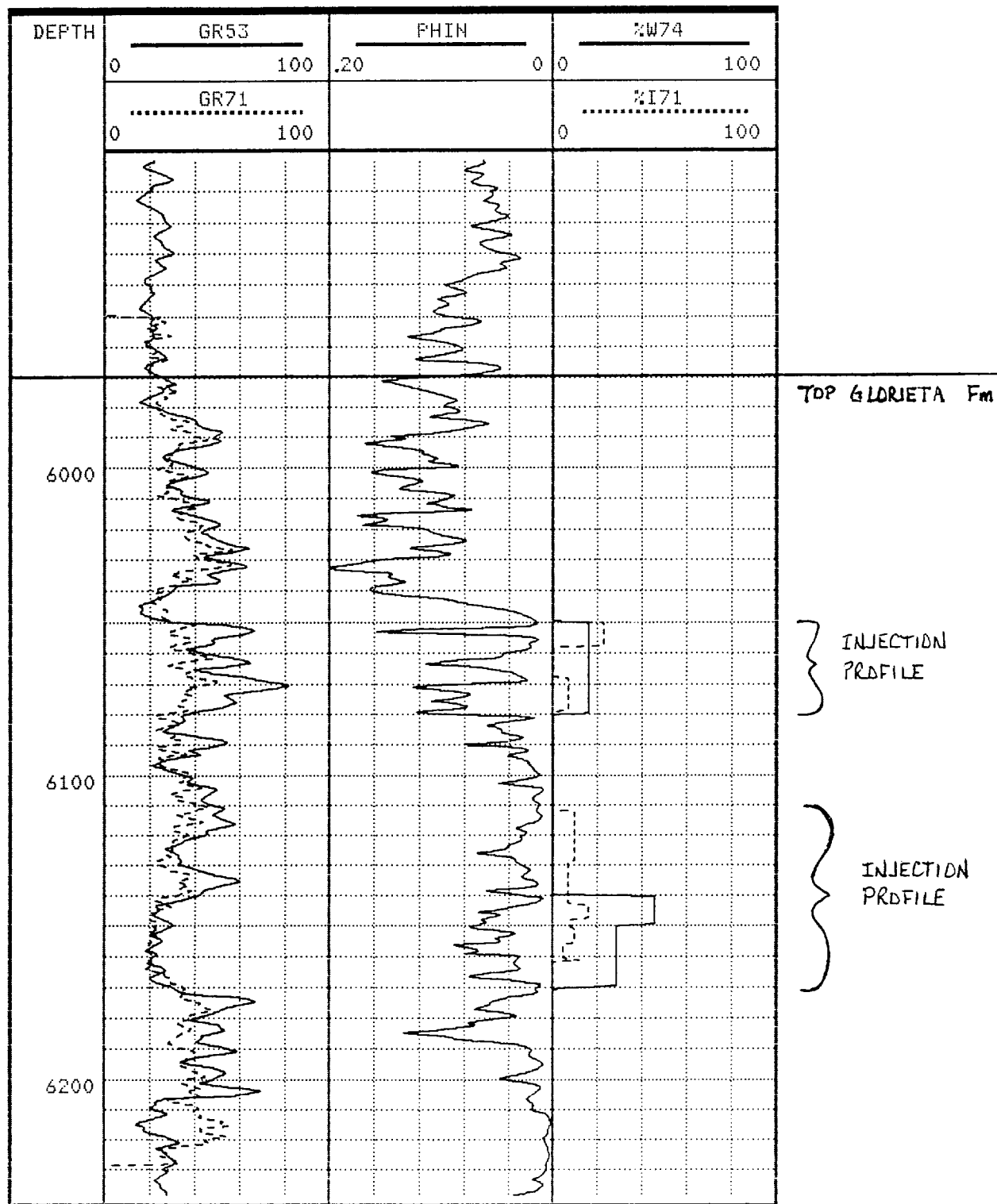
The zone of interest for this application to inject is the Paddock interval of the Glorieta Formation. In the area of the Lovington Field Paddock Unit, the Paddock interval is found at an average depth of 6150' and consists of light brown, finely crystalline dolomite, with thin lenticular fine-grained 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 Ogallala 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 D#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



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 NMOC requirements. Release rig.
8. Rig up acid contractor and treat below packer with 15 tons CO₂ 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.

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

RESULT OF WATER ANALYSES

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

LABORATORY NO. 1189311
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

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

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

By Waylan C. Martin, M.A.

RESULT OF WATER ANALYSES

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

LABORATORY NO. 98943
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 VLB SI T17S R 36E

Raw water - taken from water supply well #2. 9-1-89 VLG SI T175 R36E

NO. 3 :

NO. 4

REMARKS: 'S

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, % - 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.

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

By Wavlan C. Martin, M.A.

CO₃ 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, SO ₄	99.50	655.04	1655.00	1766.11	2321.64	2877.18
Carbonate, CO ₃	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate, HCO ₃	223.00	766.57	1745.00	1853.71	2397.29	2940.86
Tot. Dissolved 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}	.00000001	.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
Mg	.000082	.001271	.010071	.025912	.027672	.036472
Ba	.000015	0.000000	0.000000	0.000000	0.000000	0.000000
Na	.000022	.003300	.042491	.113036	.120874	.160066
Cl	.000014	.004522	.049782	.131250	.140302	.185562
SO ₄	.000021	.002090	.013756	.034755	.037088	.048754
CO ₃	.000033	0.000000	0.000000	0.000000	0.000000	0.000000
HCO ₃	.000008	.001784	.006133	.013960	.014830	.019178
u =		.02	.15	.40	.42	.56

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.

$$pCa = \log(1/\text{mols } Ca^{++}/\text{Liter})$$

$$pAlk = \log(1/\text{Equiv. Total Alk}/\text{Liter})$$

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 Stability 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 =	<u>.04</u>	<u>.57</u>	<u>.68</u>	<u>.70</u>	<u>.73</u>	<u>.77</u>
At 120F =	<u>.42</u>	<u>1.0</u>	<u>1.19</u>	<u>1.20</u>	<u>1.24</u>	<u>1.28</u>

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.

CaCO₃ Is 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

$$Is = D + (1.549 \times 10^{-2} \times T) - (4.26 \times 10^{-6} \times T^2) - (7.44 \times 10^{-5} \times P) + 0.919u - 2.52(u)^{0.5} + 5.89$$

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

Samedan Oil Corp. Caylor
 OPERATOR LEASE
 WELL NO. 1 FOOTAGE LOCATION 330 Feet South of North Line 330 Feet East of West Line of SE 1/4 Sec. 6, T17S R37E
 SEC. TOWNSHIP RANGE

Tubular DataSurface CasingSize: 13" Cemented with 250 SXTOC: Surface feet determined by circulationHole size: 15Intermediate CasingSize: 10 8 5/8" Cemented with 500 SX

TOC: _____ feet determined by _____

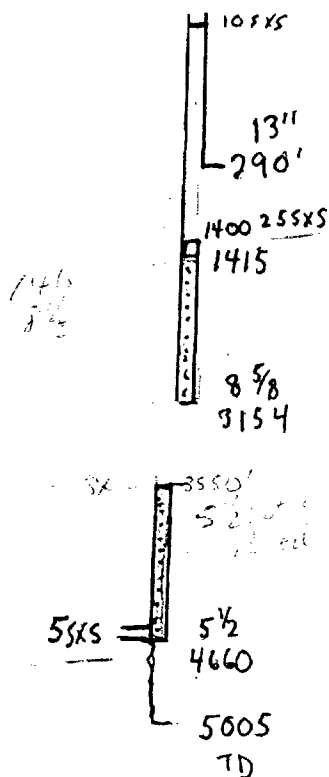
Hole Size: 10Long StringSize: 5 1/2" Cemented with 200 SXTOC: 2814 feet determined by 80% calcHole Size: 7Total Depth: 5005Injection Interval
 _____ feet to _____ feet
 (perforated or open-hole, indicate which)

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

Other Data

- Name of the injection formation _____
- Name of Field or Pool (If applicable) _____
- Is this a new well drilled for injection? _____
If no, for what purpose was the well originally drilled? _____
- 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). _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

P: A
 10/25/39





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION
 HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
 GOVERNOR

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

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

RE: Proposed:

MC _____
 DHC _____
 NSL _____
 NSP _____
 SWD _____
 WFX _____
 PMX _____

Gentlemen:

I have examined the application for the:

Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Approved for the District Office

Yours very truly,

Jerry Sexton

Jerry Sexton
 Supervisor, District 1

/ed

164

INJECTION WELL DATA SHEET

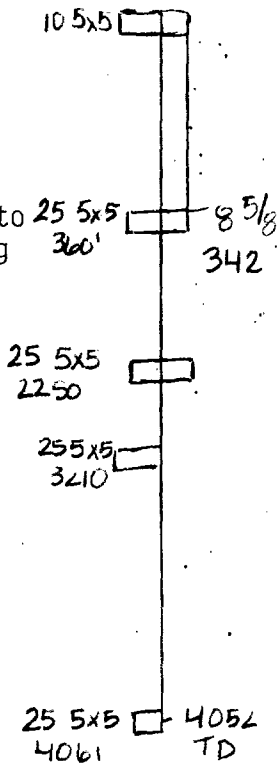
Compass Exploration, Inc.

OPERATOR	LEASE			
1-5	2310 FSL & 530 FWL	5	T17S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12/61
P&A
12/61

No info.
was listed as to
the long string
that was set.

Surface CasingSize: 8 5/8 " Cemented with 175 SXTOC: Surface feet determined by circ.Hole size: 10 3/4Intermediate Casing

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Long String

Size: _____ " Cemented with _____ SX

TOC: _____ feet determined by _____

Hole Size: _____

Total Depth: 4052Injection 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

- Name of the injection formation _____
- Name of Field or Pool (If applicable) San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? production
- 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).

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



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.

February 11, 1991

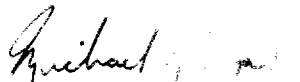
State of New Mexico
Energy & Mineral Dept.
P.O. Box 2088
Santa Fe, NM 87501

Attn: David Catanach

Re: Lovington Paddock
Lea County, NM

Enclosed find copies of the certified receipts which indicates all the offsetting owners have been contacted in regards to the conversion from producers to injection wells in the Lovington Paddock Area. I will forward the proof of publication when I receive it from the newspaper. Please advise if I may provide you with additional information

Sincerely,


Michael J. Newport
Landman

MJN:jb
Enclosure

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Unocal
500 Executive Plaza West
4615 SW. Freeway
Houston TX 77027

4. Article Number
P375679550

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
11/15/90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Anco
P.O. Box 1610
Midland TX 79702

4. Article Number
P375679551

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
NOV 15 1990

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Samedan
10 Desta Dr.
Ste., 240 East
Midland TX 79705

4. Article Number
P375679570

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X J. Miller

7. Date of Delivery
11-19-90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
TEXACO USA
PO BOX 3109
Midland TX 79702

4. Article Number
P375679546

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
NOV 19 1990

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Rebecca Caylor Rice
Rt. 3
Box 2254
Birdsboro PA 19508

4. Article Number
P375679545

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
11-16-90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Anco
PO Box 3092
501 Westlake Park Blvd.
Houston TX 77253

4. Article Number
P375679566

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
NOV 15 1990

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Mobil Exploration
2450 Greenspoint Dr.
Houston TX 77060-1991

4. Article Number
P375679547

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X M. Bondreap

7. Date of Delivery
11-15-90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Exxon
233 Benmar
Ste., 970
Houston TX 77060

4. Article Number
P375679572

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Betty Weiss

7. Date of Delivery
11/15/90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
EF MORAN INC.
4200 E. SKELLY DR.
STE., 280
TULSA OK 74135

4. Article Number
P375679567

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X Ann B. Harker

6. Signature — Agent
X RT

7. Date of Delivery
11-15

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) **LP Attachments** 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Phillips Petroleum
PO Box 1967
Houston TX 77251-1967

4. Article Number
P375679548

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
NOV 15 1990

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

Put your address in the "TURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Oryx Energy Co.
P.O. Box 1861
Midland TX 79702-1861

4. Article Number: P375679569

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X

7. Date of Delivery: NOV 19 1990

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

Put your address in the "TURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: TEXACO
PO BOX 3109
MIDLAND, 79702

4. Article Number: P375679553

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X

7. Date of Delivery: NOV 19 1990

8. Addressee's Address (ONLY if requested and fee paid): DUPLICATE

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.

Put your address in the "TURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: LP application attachments
TEXACO
PO BOX 3109
Midland TX 79702

4. Article Number: P375679553

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X

7. Date of Delivery:

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.

Put your address in the "TURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Petroc
P.O. Box 5970
5014 Carlsbad Hwy.
Hobbs NM 88241

4. Article Number: P375679552

Type of Service:
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X Betty Rindart

7. Date of Delivery: 11-19

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.

Put your address in the "TURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Compass Exploration, Inc.
P.O. Box 2357
Billings, MT 59103

4. Article Number: P375679571

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X

7. Date of Delivery: 11/19/90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.

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1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Amerada Hess
PO BOX 2040
218 W. 6th St
Julesburg CO 80421
ATTN: BOB CAWTON

4. Article Number: P375679568

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X Bob Jackson

7. Date of Delivery: NOV 16 1990

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4.

Put your address in the "TURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: LP Application
RICE ENGINEERING
122 W. TAYLOR
HOBBS, NM 88240

4. Article Number: P375679554

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee: X

6. Signature — Agent: X Cheryl Foster

7. Date of Delivery: 11-15-90

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT



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.

February 28, 1991

New Mexico Oil Conservation Division
310 Old Sante Fe Trail
Room 206
Sante Fe, NM 87501


Att. David Catanach

Re: Lovington Paddock
Conversion/Producers to Injection Wells
Lea Co. NM

Enclosed please find the affidavit covering the conversion of
the following producing wells to injection wells.

Well Nos. 12, 14, 20, 22, 24, 28, 31, 32, 39, 46, 48, 50, 52, 54, and 60.

Very Truly Yours,


Michael J. Newport
Landman

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

February 14, 19 91
and ending with the issue dated

February 14, 19 91

Kathi Bearden
General Manager.

Sworn and subscribed to before

me this 22 day of

February, 19 91

Rhonda Copeland
Notary Public.

My Commission expires _____

July 24, 19 91
(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

February 14, 1991

Greenhill Petroleum Corporation, 12777 Jones Road, Suite 375, Houston, TX 77070-Phone (713)955-1146 Contact: Mike Newport. Greenhill Petroleum Corporation plans to convert the following producing wells to injection wells within the Lovington Paddock Field Area. The purpose of the proposed injection wells is to increase the reservoir pressure in order to improve the recovery of hydrocarbons. The location of the proposed injection wells are the following well Nos. within Sections 31T16S-R37E, 36T16S-R36E, 1T17S-R36E and 6T17S-R37E, Lea County, NM. Well Nos. 12, 14, 20, 22, 24, 28, 31, 32, 39, 46, 48, 50, 52, 54 and 60. The injection intervals are approximately between the depths of 6010' and 6838' in the Paddock formation. The maximum injection rates and pressure are 2000 PSI 1500 BWPD. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501 within 15 days.

