



GREENHILL PETROLEUM CORPORATION

1490 WEST HEIMER ROAD, SUITE 200
HOUSTON, TEXAS 77077-6841
TELEPHONE (713) 589-8484
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

March 16, 1992

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

Re: Lovington San Andres
Lea County, New Mexico

Attention: Mr. David Catanach

Dear Mr. Catanach:

Enclosed please find the C-108's and attachments whereby Greenhill Petroleum proposes to convert the following wells from producers to injection wells in the Lovington San Andres Unit. These wells are as follows:

Lovington San Andres Well Number 8, 11, 20, 23, 38, 42, 69

Please contact me in the event you have any additional questions.

Very truly yours,

Michael J. Newport
Land Manager-Permian Basin

MJN:sjs
92.206

Enclosures

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: 11490 Westheimer, Suite 200, Houston, Texas 77077
Contact party: Mike Newport Phone: (713) 589-8484
- 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 R-2278
If yes, give the Division order number authorizing the project R-2278.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

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

Name: Michael J. Newport Title Land Manager-Permian Basin

Signature: _____ Date: 3-2-94

* 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.

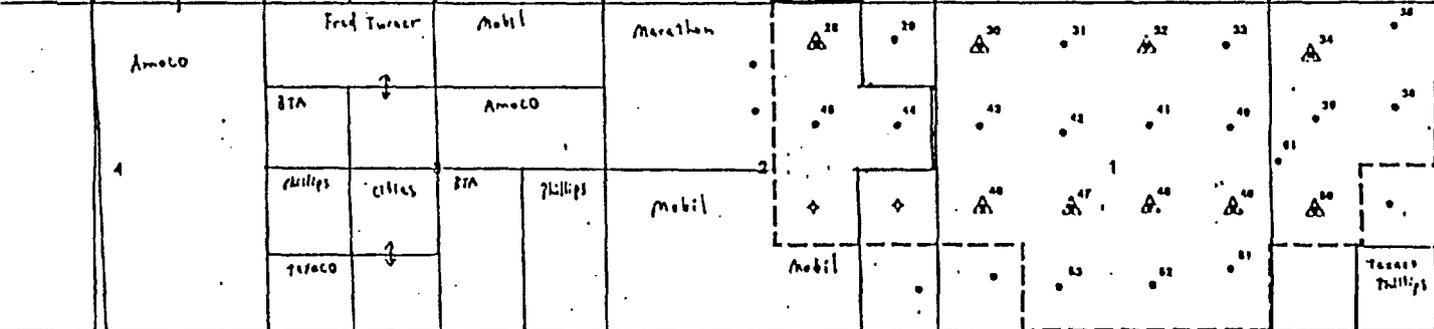
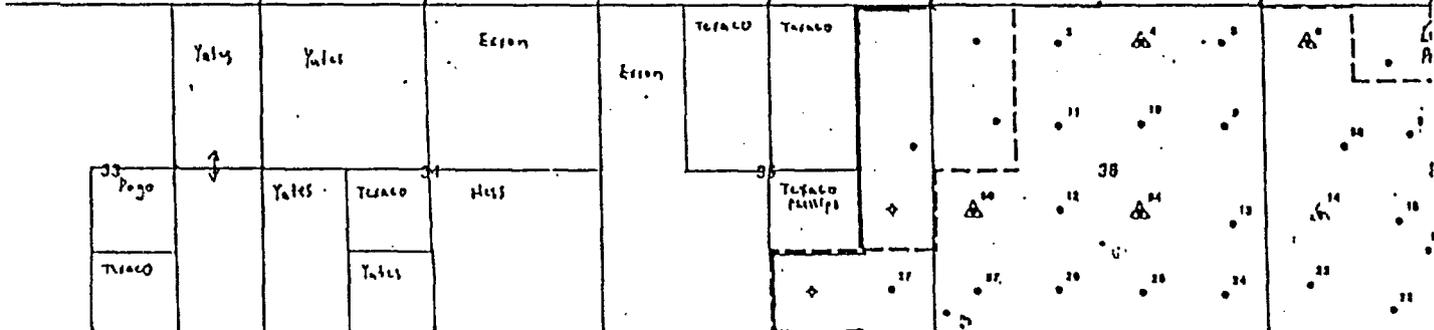
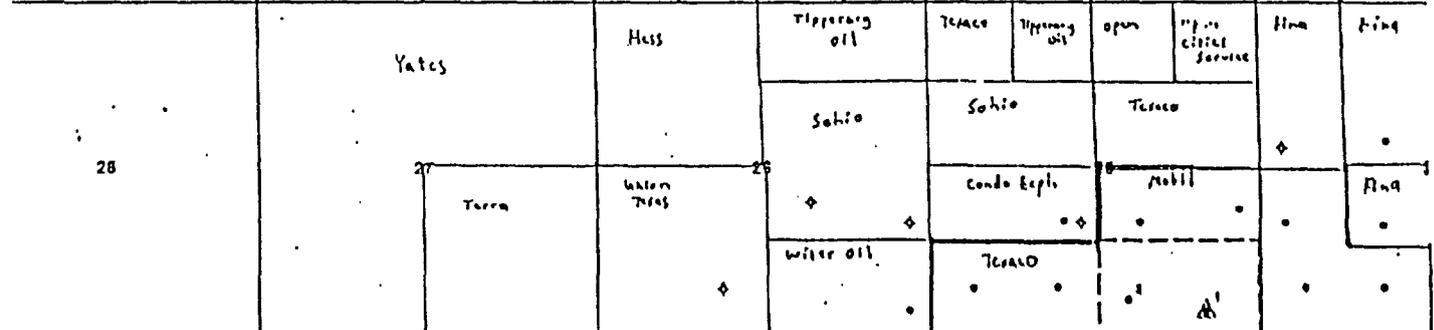
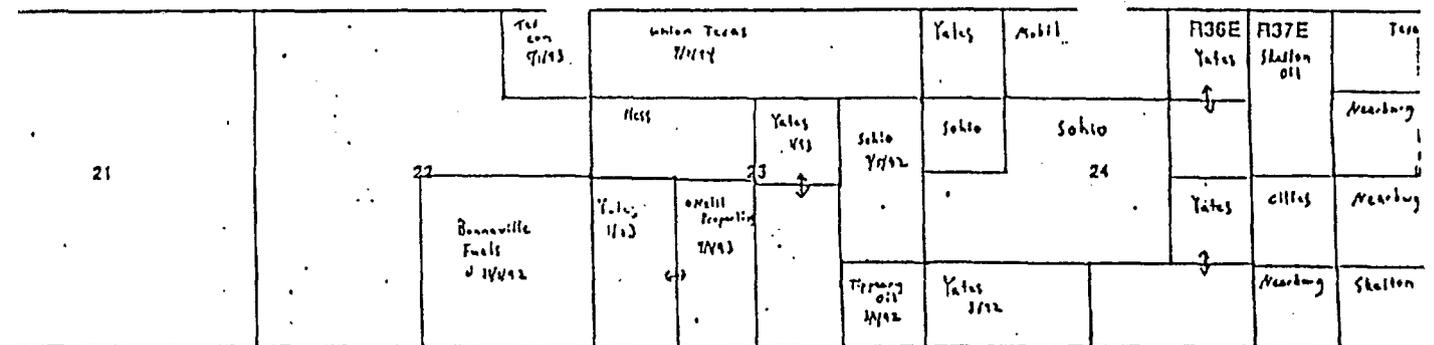
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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.

21	Texas crude	Pennsoll				
	Texas	Pennsoll	Amerind oil		22	23
		Texas				V
	Yates	southern Alabama	Cal-man oil	Amerind		
29	Tipperary	Amerind	standard oil	Standard oil	Amerind (Standard oil)	27
	Monarch, Tex.		Bill Kilmer			28
32	Texas	southern Alabama	Texas	Amerind	Am-Tex	Union Texas
33						
34						
35						
37	Conoco	Texas	Conoco Texas	Tipperary	Pennsoll	Amerind
	Texas					
4	Yates Pennsoll Kilmer		Conoco			
			Yates	Phillips		
5						
6	Pennsoll	Union	Union	Escon	Pennsoll	
	Brany	Jackson	Falken			
7	Union Producing	Phillips Energy	Pennsoll	open		
8	Columbus	Chevron	Consolidated oil & Gas			
	Hunt oil	Columbus	Hunt			
9	Chevron	Hunt				
	Amoco					
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<p>20</p> <p>21</p> <p>22</p> <p>23</p>				
<p>24</p> <p>25</p> <p>26</p> <p>27</p>				
<p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p>				
<p>33</p> <p>34</p> <p>35</p> <p>36</p>				
<p>37</p> <p>38</p> <p>39</p> <p>40</p>				
<p>41</p> <p>42</p> <p>43</p> <p>44</p>				

GREENHILL PETROLEUM CORPORATION
 LOVINGTON SAN ANDRES UNIT
 Lea County, New Mexico

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".

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
GREENHILL FOREST NO. 7
CASE NO. 10154

VIII GEOLOGIC DATA

The zone of interest for this application to inject is the San Andres Formation. In the area of the Lovington San Andres Field, the San Andres formation is approximately 1350' of dolomite; however, only the upper 400' - 500' is productive. The top of the San Andres formation occurs between 4580' and 4670' (log depth) in the Lovington San Andres Field. Attached is a type log from the Lovington San Andres Field. The well log (LSAU #14) is an injection well and shows three main zones within the field unit where water has been injected.

The only known underground source of drinking water in the Lovington San Andres Field 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.

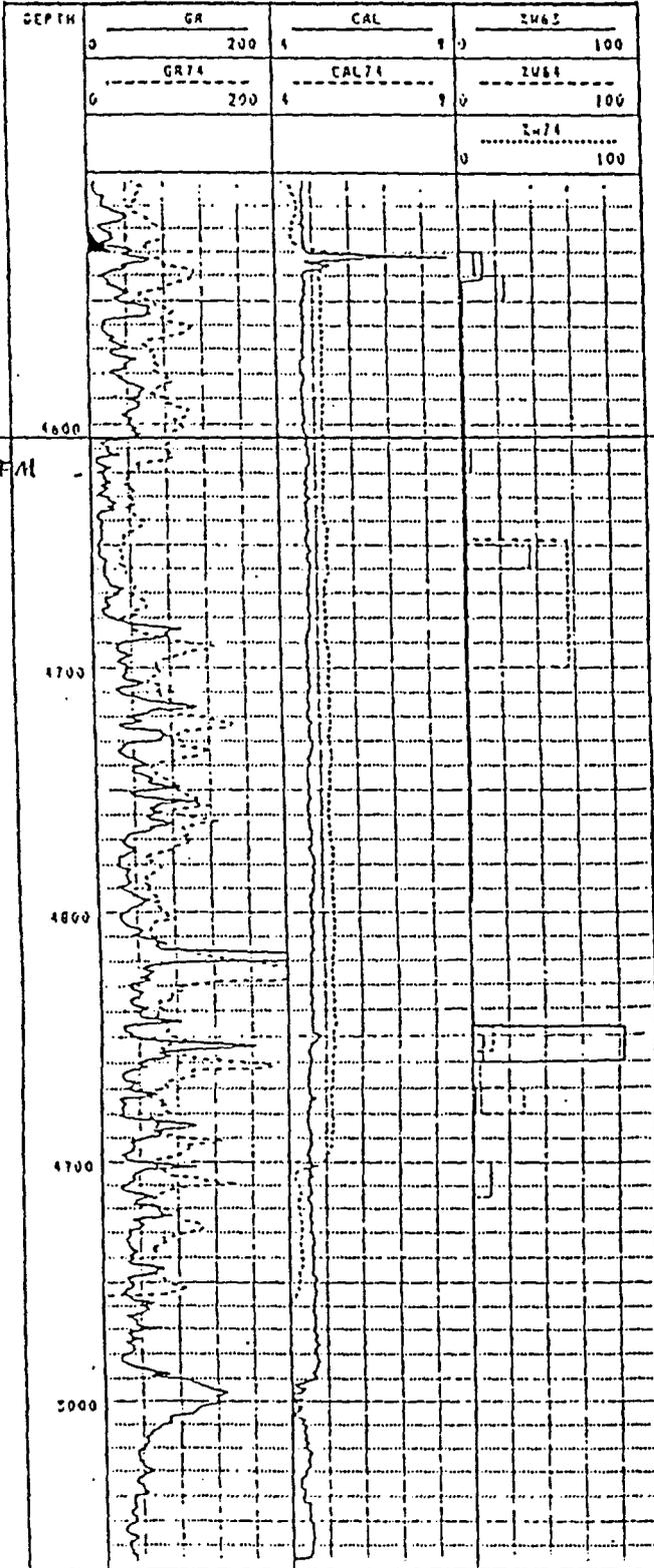
BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
GREENHILL EXHIBIT NO. <u>8</u>
CASE NO. <u>10154</u>

CYPRESS PETROLEUM CONSULTANTS

WELL NAME - SHELLEY OIL LSA #11
 LOCATION - 166° 45' W 110° 15' N - 125-38E L3-
 WELL DATA - SURVEY OF 1987 10-28-87 1/2 4330
 LOGS DATA - SURVEY SUBJECT TRACER 5-25-83
 LOG PARAMETERS-

DATA FILE NAME: LSA11.LGI

DATE OF PLOT: 5/24/1989



INJECTION PROFILES

INJECTION PROFILES

INJECTION PROFILES

TOP SAW ANDRES FAI

4600

4700

4800

4900

5000

TX

PROPOSED STIMULATION PROGRAM
FOR CONVERSIONS FROM PROCEDURES TO INJECTION WELLS
LOVINGTON SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO

1. MIRU PU w/reverse unit. Check and report pressure on casing strings. Inspect wellhead connections for condition and pressure rating. Insure all casing valves are at least 2000 psig W. P. Pull and lay down rods and pump.
2. Rig up and pressure test BOP to 3000 psig for 5 min. Pull tubing and TAC. Lay down TAC.
3. PU bit, casing scraper and collars and TIH to 200' above casing shoe. Scrape casing to 10 ft. above shoe. Do not go below casing shoe with scraper. POOH and lay down scraper. TIH to 10 ft. above casing shoe and circulate hole clean with clean water. Rotate and clean out bottom of open-hole interval below casing shoe.
4. Spot enough 20% NEFE HCl acid to cover the open-hole interval. Slowly pull bit above top of acid and POOH.
5. Rig up perforating contractor. String shoot water flood intervals w/400 grains per foot primacord. TIH with bit and tubing and circulate open hole interval clean to TD w/water. POOH laying down workstring.
6. PU new 2 3/8" IPC tubing string w/new water flood packer and TIH to 20' above casing shoe. Circulate inhibited fresh water into tubing-casing annulus and set packer. Pressure test annulus to 500 psig for 5 min. Release pressure. RD BOP and install waterflood and wellhead.
7. Pressure test annulus per NMOCD requirements. Release rig.
8. Rig up acid contractor and treat below packer with 15 tons 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.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
GREENHILL EXHIBIT NO. 9

RESULT OF WATER ANALYSES.

LABORATORY NO. 8943

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

SAMPLE RECEIVED 9-1-89
RESULTS REPORTED 9-8-89

COMPANY Greenhill Petroleum Corporation LEASE Lovington Paddock/San Andres Unit

FIELD OR POOL Lovington

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from water supply well #1. 9-1-89 VLB S1 T17S R36E

NO. 2 Raw water - taken from water supply well #2. 9-1-89 VLG S1 T17S R36E

NO. 3 _____

NO. 4 _____

REMARKS:

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

Results Reported As Milligrams Per Liter

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

Form No. 3

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

By Waylan C. Martin, M.A.

03 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

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

Calcium Carbonate Solubility Calculation.

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

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

Calcium Carbonate Stability Index (Cont.)

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

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

$pCa = \log(1/\text{mols Ca}^{++}/\text{Liter})$
 $pAlk = \log(1/\text{Equiv. Total Alk}/\text{Liter})$

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>0.04</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.

CO₃ I_s ACROSS SYSTEM

Calculation of Oddo & Thomson CaCO₃ Scaling Index - I_s
 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

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

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 = I_s = .27

"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

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

Saturation Values Dist. Water 20 C
 CaCO3 13 mg/L
 CaSO4 * 2H2O 2090 mg/L
 BaSO4 2.4 mg/L

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

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 D. SWEATT

"A"

WATER ANALYSIS REPORT

Company : GREENHILL PETROLEUM
Address : LOVINGTON, NM
Lease : SENE SEC 36 T16S R36E
Well : PAD 18 35
Sample Pt. : WINDMILL

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

Table with columns: ANALYSIS, mg/L, * meq/L. Rows include pH (7.6), H2S (0), Specific Gravity (1.001), Total Dissolved Solids (2086.2), Suspended Solids (NR), Dissolved Oxygen (NR), Dissolved CO2 (NR), Oil In Water (NR), Phenolphthalein Alkalinity (CaCO3), Methyl Orange Alkalinity (CaCO3), Bicarbonate (HCO3, 244.0), Chloride (Cl, 1035.2), Sulfate (SO4, 200.0), Calcium (Ca, 350.0), Magnesium (Mg, 224.9), Sodium (calculated) (Na, 32.1), Iron (Fe, 0.0), Barium (Ba, 0.0), Strontium (Sr, 0.0), Total Hardness (CaCO3) (1800.0). Also includes meq/L values for HCO3 (4.0), Cl (29.2), SO4 (4.2), Ca (17.5), Mg (18.5), Na (1.4).

PROBABLE MINERAL COMPOSITION

Table with columns: *milli equivalents per Liter, Compound, Equiv wt X meq/L, = mg/L. Includes a conversion table for Ca, Mg, Na and HCO3, SO4, Cl. Below is a list of compounds: Ca(HCO3)2 (324), CaSO4 (283), CaCl2 (516), Mg(HCO3)2, MgSO4, MgCl2 (881), NaHCO3, Na2SO4, NaCl (82). 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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR	2130' N 1980' W	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

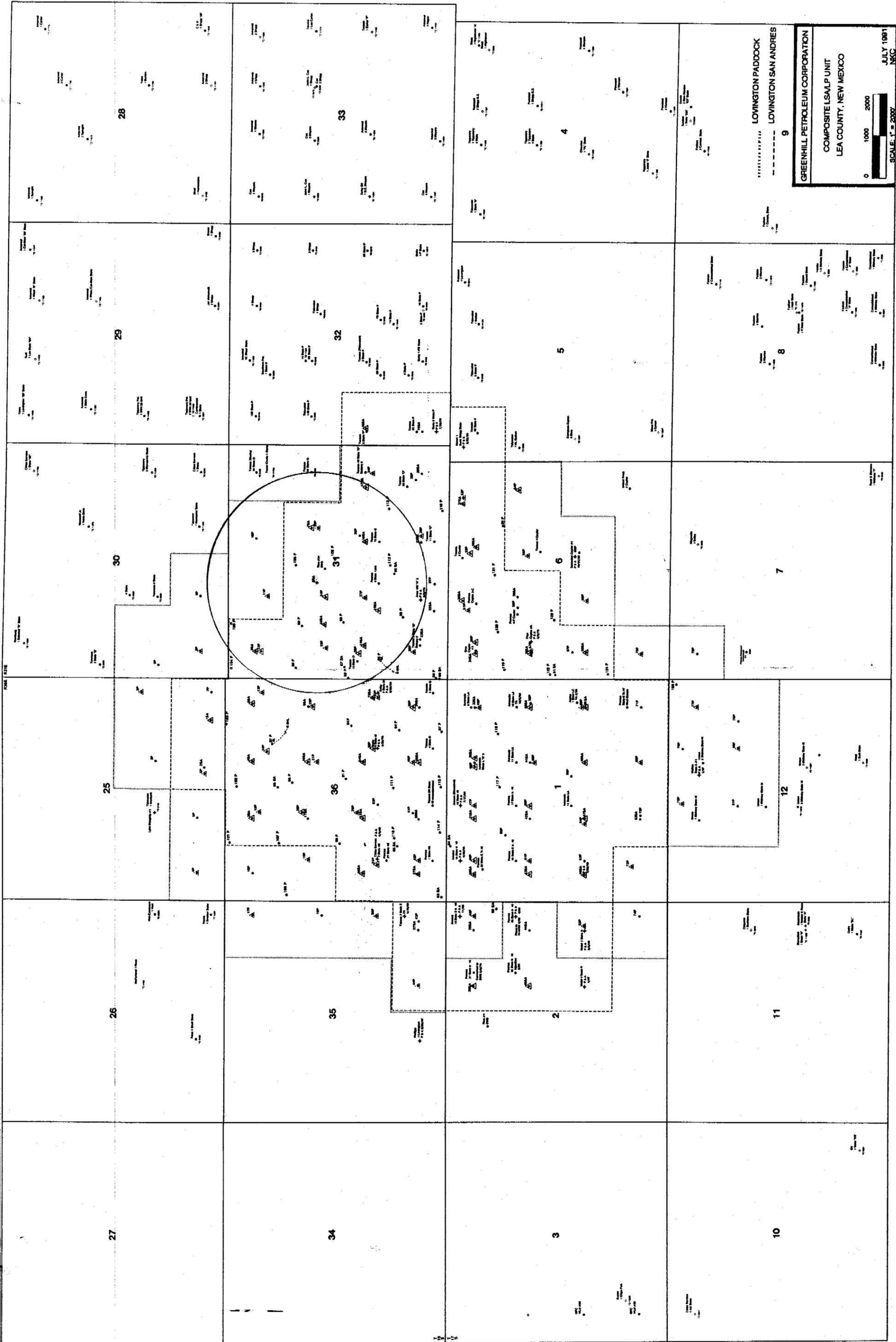
4610 feet to 4978 feet (perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with JPC set in a packer at 4560 feet. (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 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 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'

Injection Interval

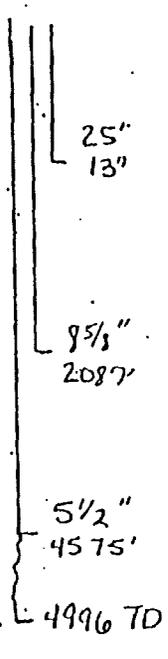
4575 feet to 5130 feet
(perforated or open-hole, indicate which)

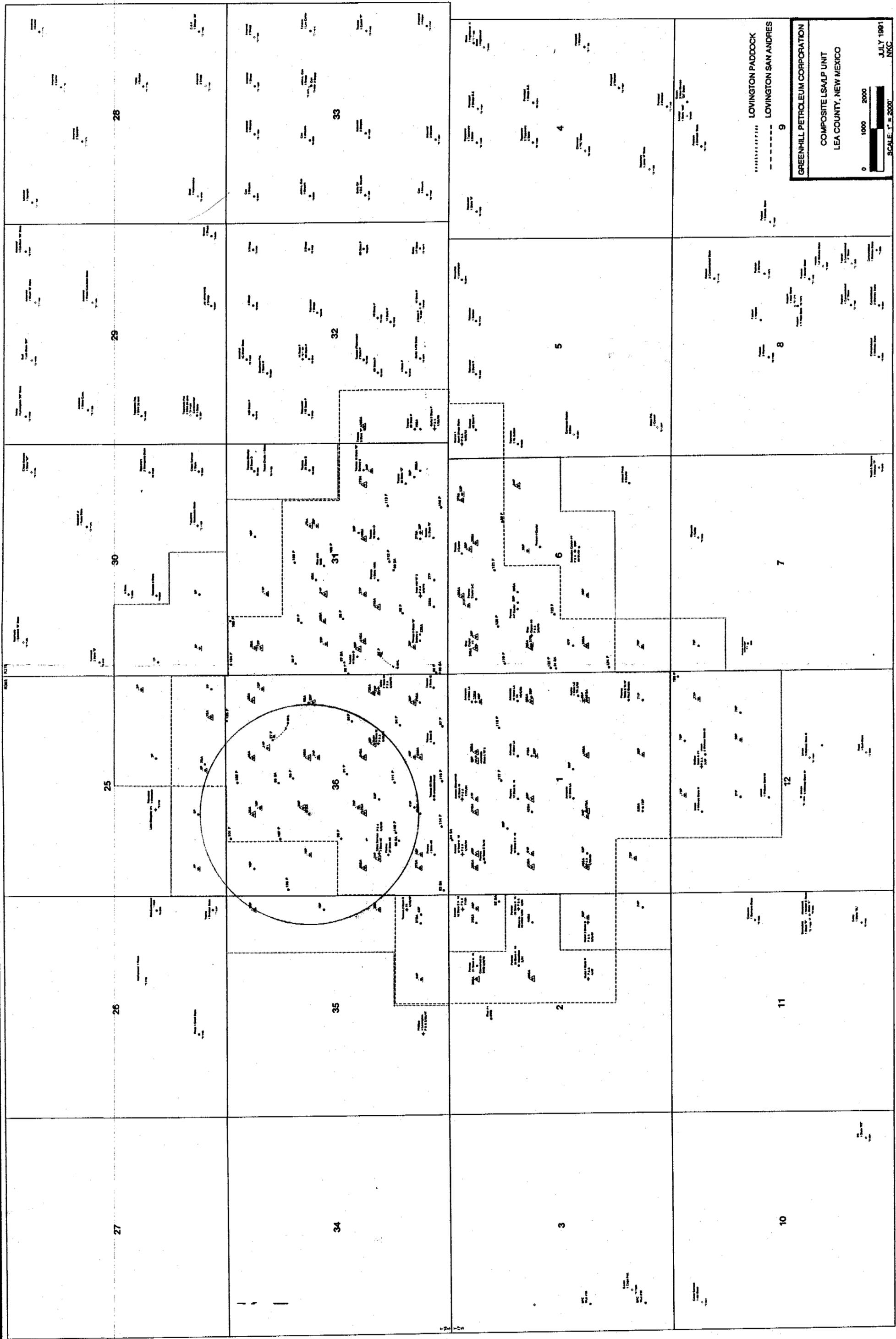
Tubing size 2 3/8 lined with IPC set in a
 (material)
 packer at 4525 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

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
1/40





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' SK

TOC: Surface feet determined by calc

Hole size: 15

Intermediate Casing

Size: 8 5/8" Cemented with 475' SK

TOC: 784 feet determined by 50% calc

Hole Size: 10 1/2

Long String

Size: 5 1/2" Cemented with 450' SK

TOC: 1340 feet determined by 80% calc

Hole Size: 7

Total Depth: 4945'

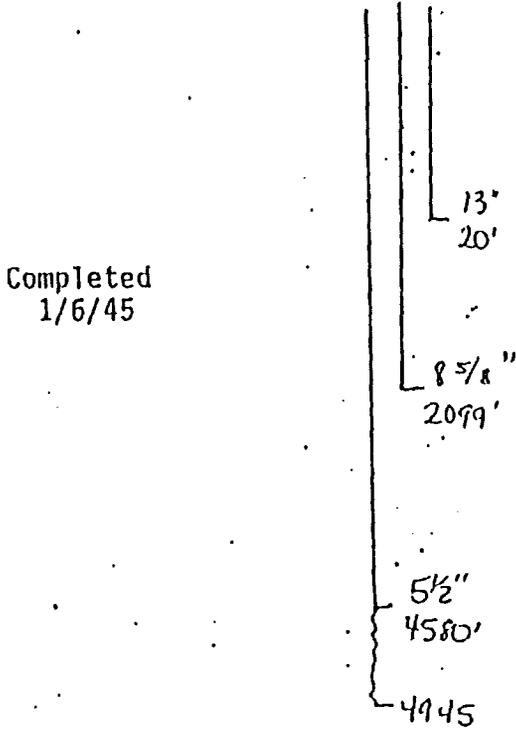
Injection Interval

4580 feet to 4945 feet (perforated or open-hole, indicate which)

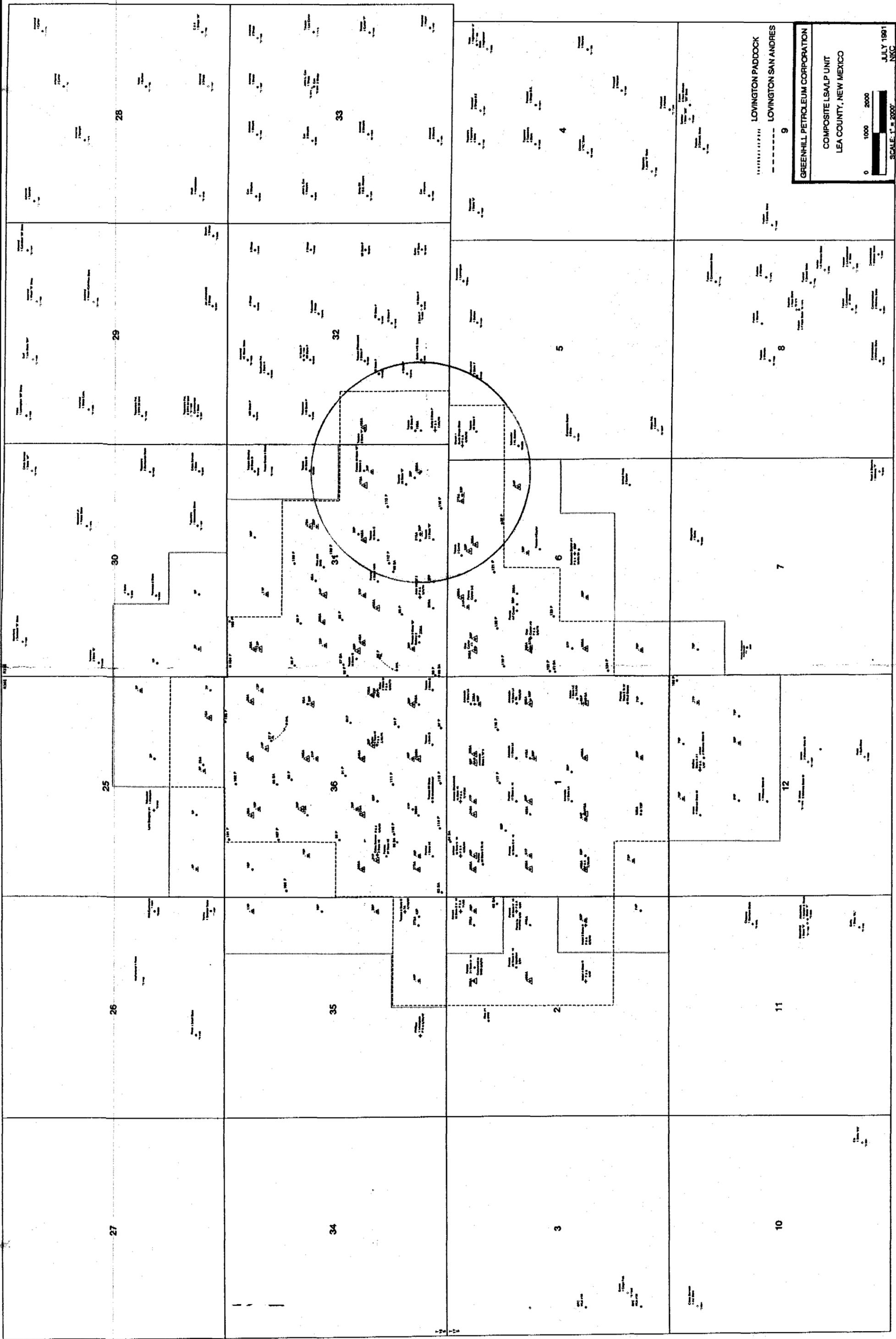
Tubing size 2 3/4" lined with IPC set in a packer at 4530 feet. (brand & model) (or describe any other casing-tubing seal).

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



Completed 1/6/45



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 Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circ. calc

Hole size: 14

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SX

TOC: 1773 feet determined by 50% calc

Hole Size: 11 1/4

Long String

Size: 7 " Cemented with 200 SX

TOC: 2735 feet determined by 80% calc

Hole Size: 8 1/4

Total Depth: 5081'

Injection Interval

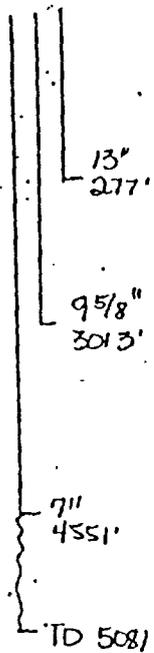
4530 feet to 5081 feet
(perforated or open-hole, indicate which)

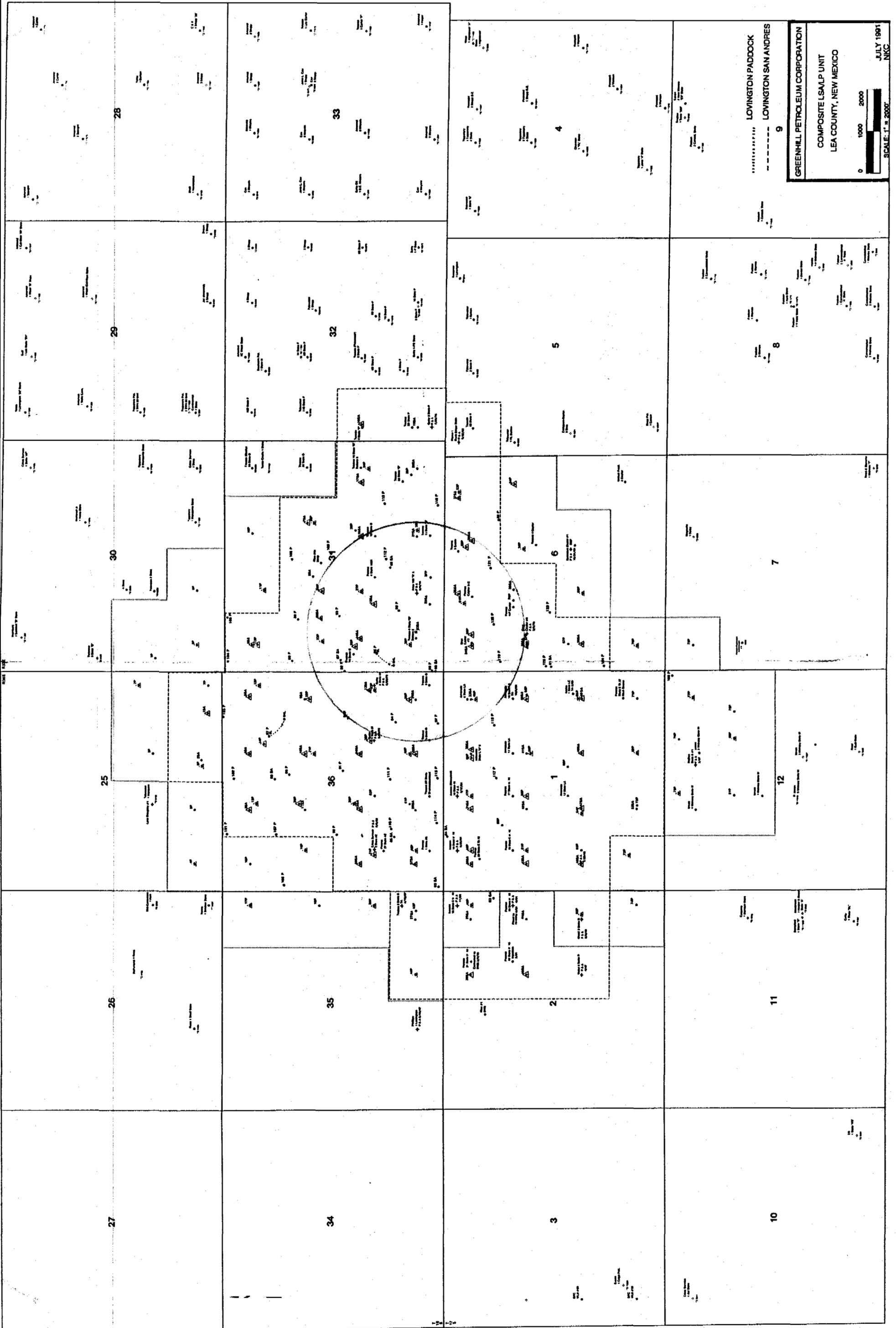
Tubing size 2 3/8 lined with IPC set in a
(material)
packer at 4480 feet.
(brand & model)
(or describe any other casing-tubing seal).

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





..... LOVINGTON PADDOCK
- - - - - LOVINGTON SAN ANDRES

GREENHILL PETROLEUM CORPORATION
COMPOSITE LSA/LP UNIT
LEA COUNTY, NEW MEXICO

0 1000 2000
SCALE: 1" = 2000'

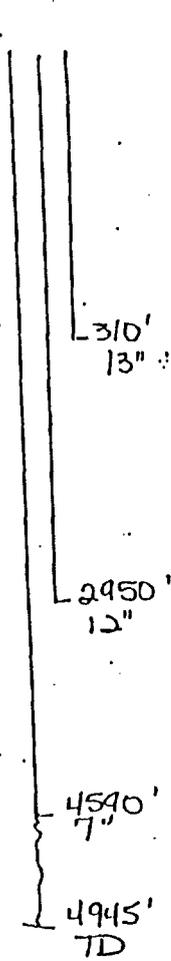
JULY 1991
NKS

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
9-16-39



Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4" 15

Intermediate Casing

Size: 9-5/8 " Cemented with 350 SX

TOC: 1804 feet determined by calc

Hole Size: 12" 10 3/4

Long String

Size: 7 " Cemented with 300 SX

TOC: 2707 feet determined by calc

Hole Size: 8-3/4" 8 1/4

Total Depth: 4945'

Injection Interval

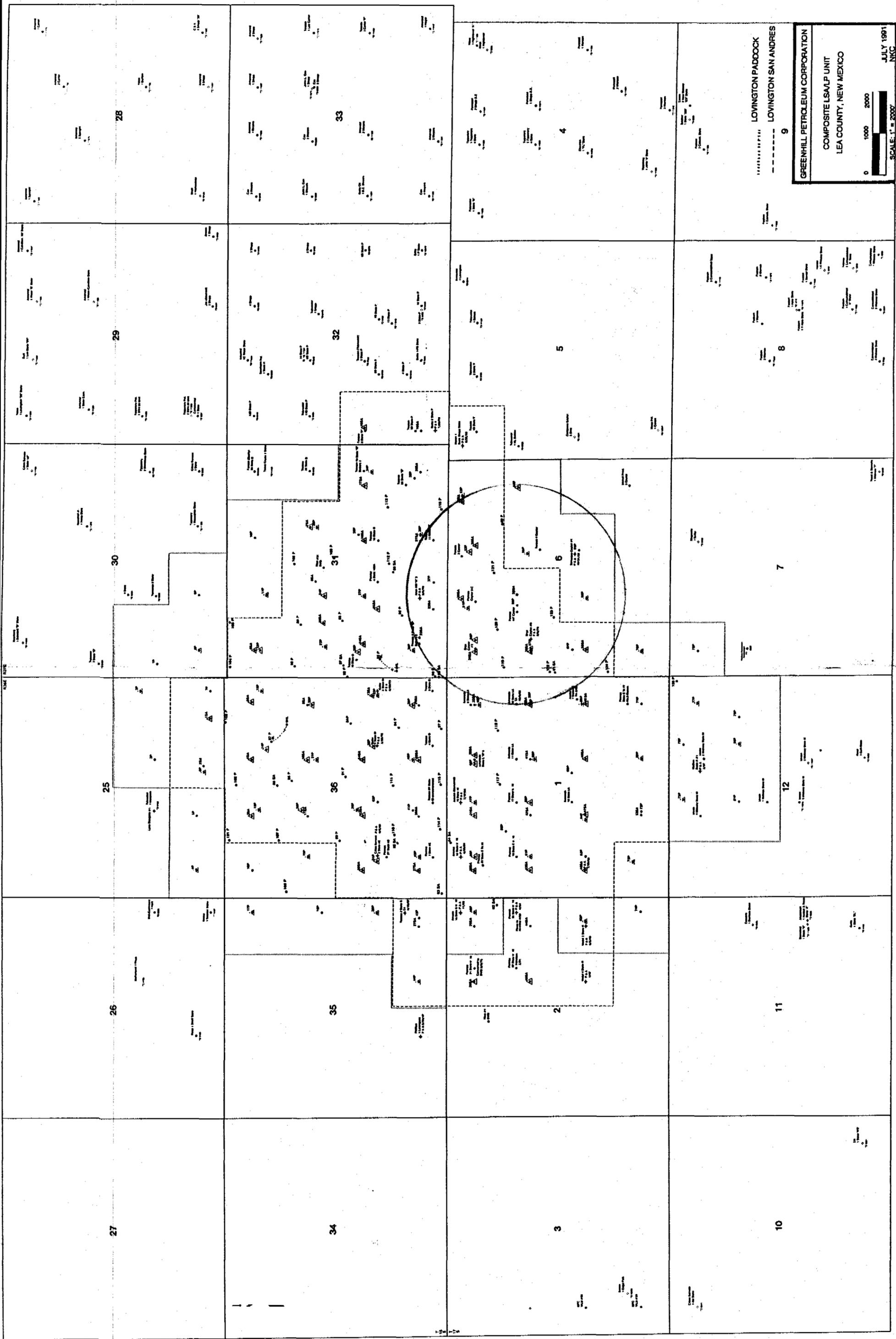
4590 feet to 4945 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
(material)
packer at 4540 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		
#42	1980' FNL & 1980' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

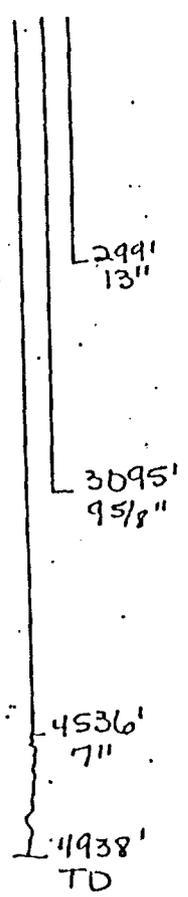
Completed
4-1-39

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 535 SX
 TOC: 1517 feet determined by calc
 Hole Size: 12"

Long String
 Size: 7 " Cemented with 300 SX
 TOC: 2887 feet determined by calc
 Hole Size: 8-3/4"
 Total Depth: 4938'

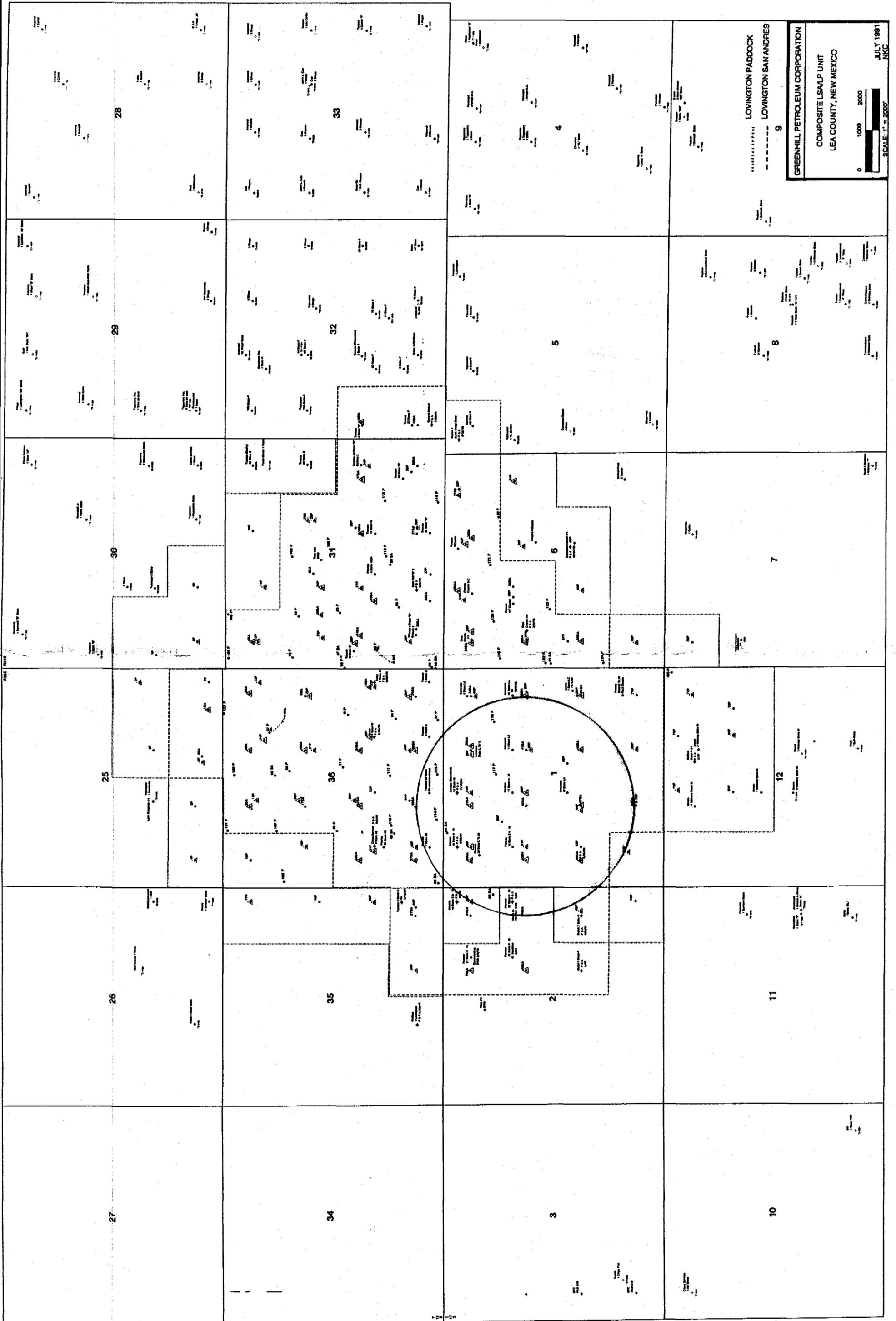
Injection Interval
4536 feet to 4938 feet
 (perforated or open-hole, indicate which)



Tubing size 2 3/8 lined with IPC set in a
 (material) packer at 4480 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



GREENHILL PETROLEUM CORPORATION
COMPOSITE LSA/P UNIT
LEA COUNTY, NEW MEXICO
JULY 1991
NKC
SCALE: 1" = 2000'

LOVINGTON PADDOCK
LOVINGTON SAN ANDRES



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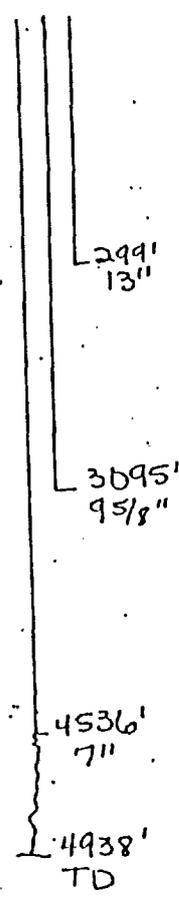
10

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#42	1980' FNL & 1980' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-1-39



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 535 SX
 TOC: 1517 feet determined by calc
 Hole Size: 12"

Long String

Size: 7 " Cemented with 300 SX
 TOC: 2887 feet determined by calc
 Hole Size: 8-3/4"

Total Depth: 4938'

Injection Interval

4536 feet to 4938 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
 _____ (material) packer at 4480 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 Unit		
OPERATOR	LEASE		
69	2173 FSL & 2173 FEL	6	T17S-R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

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 1150 SX

TOC: 820 feet determined by TS

Hole Size: 11

Long String

Size: 5 1/2" Cemented with 600 SX

TOC: 1500 feet determined by TS

Hole Size: 7 7/8"

Total Depth: 6270

Injection Interval

6104 feet to 6262 feet
(perforated or open-hole, indicate which)

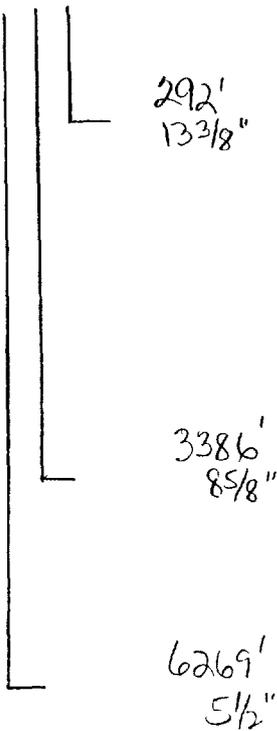
Tubing size 2 3/8" lined with IPC set in a
(material)
_____ packer at 6050 feet.
(brand & model)

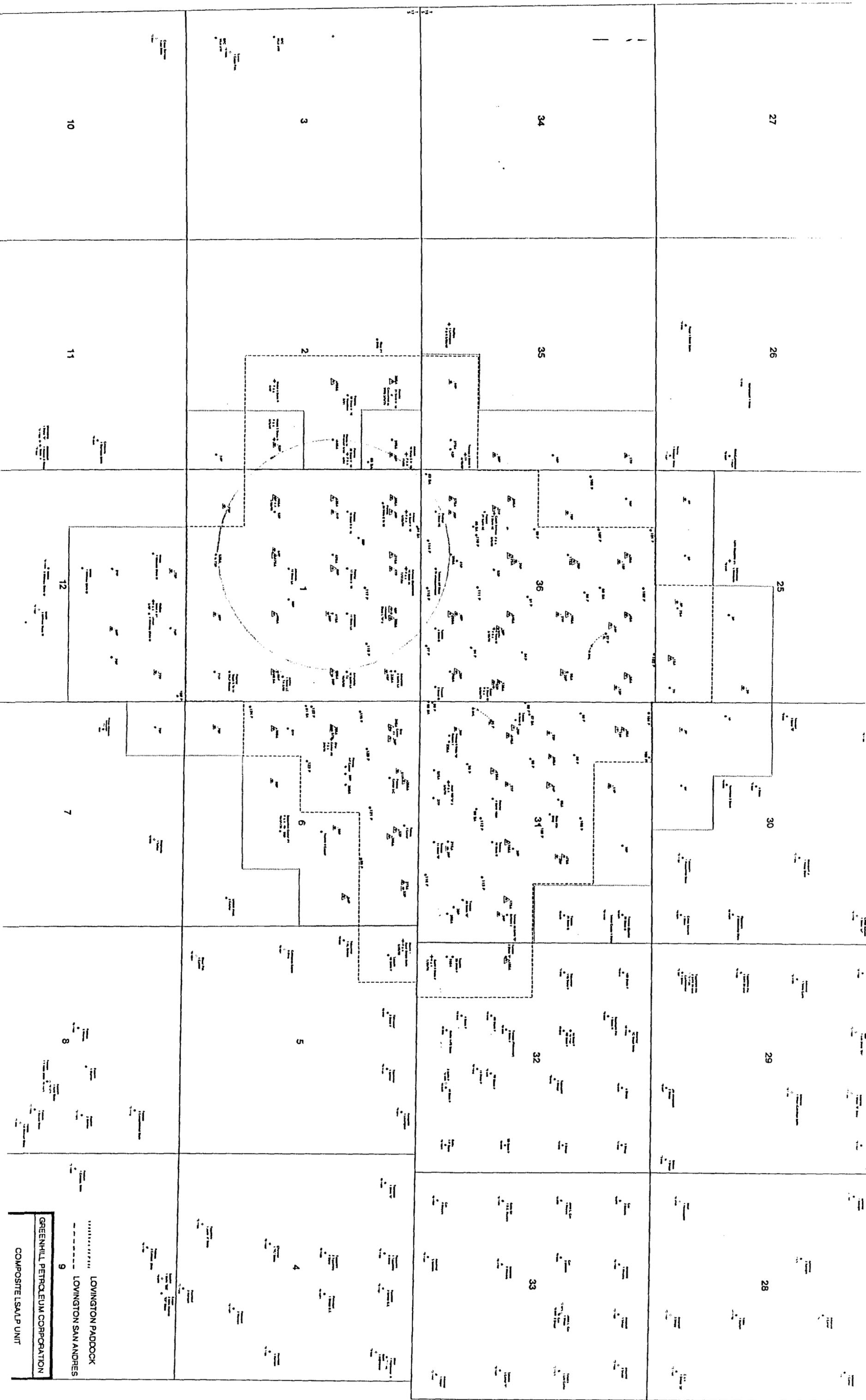
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Paddock
2. Name of Field or Pool (If applicable) 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.
No
5. 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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..... LOVINGTON PADDOCK
 - - - - - LOVINGTON SAN ANDRES
 GREENHILL PETROLEUM CORPORATION
 COMPOSITE USA/LP UNIT

INJECTION WELL DATA SHEET

TEXACO OPERATOR	State P Unit LEASE			
6-D WELL NO.	1650 FWL & 1650 FSL FOOTAGE LOCATION	32 SEC.	T16S-R37E TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 3/8" Cemented with 350 SX

TOC: surface feet determined by circ.

Hole size: 17 3/4"

Intermediate Casing

Size: 8 5/8" Cemented with 1200 SX

TOC: 1120 feet determined by C-104

Hole Size: 11

Long String

Size: 5 1/2" Cemented with 732 SX

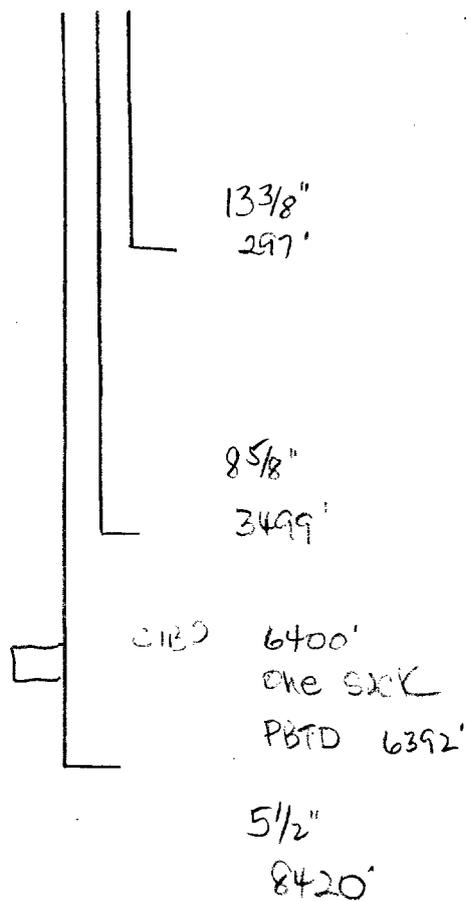
TOC: 4080 feet determined by C-104

Hole Size: 7 7/8"

Total Depth: 8420'

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

INJECTION WELL DATA SHEET

TEXACO		State "P" Unit		
OPERATOR		LEASE		
4-D	1650 FWL & 990 FSL	32	T-16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 3/8" Cemented with 350 SX
 TOC: surface feet determined by circ.
 Hole size: 17 3/4"

Intermediate Casing

Size: 8 5/8" Cemented with 1250 SX
 TOC: surface feet determined by 60% calc.
 Hole Size: 11

Long String

Size: 5 1/2" Cemented with 532 SX
 TOC: 6090 feet determined by 60% calc.
 Hole Size: 7 5/8"
 Total Depth: 8414

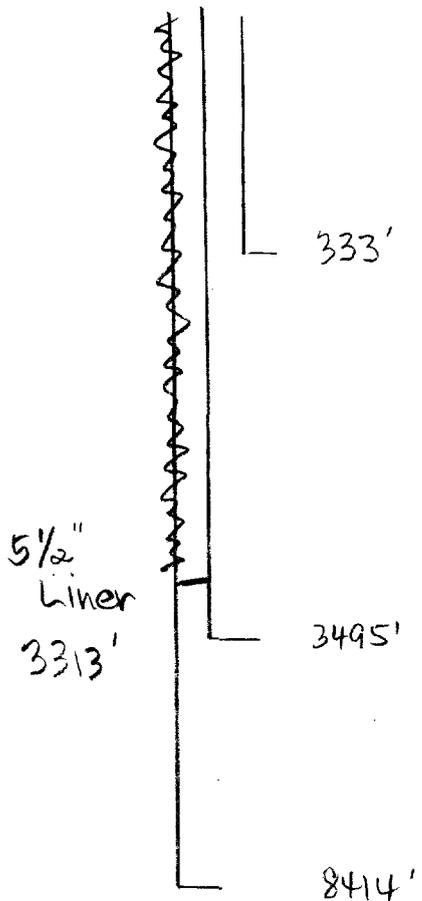
Injection Interval

 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?
 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.



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock Unit

OPERATOR		LEASE		
72	660 FSL & 2080 FWL	1	T17S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 7/8" 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: 679 feet determined by temp. survey

Hole Size: 11"

Long String

Size: 5 1/2" Cemented with 500 SX

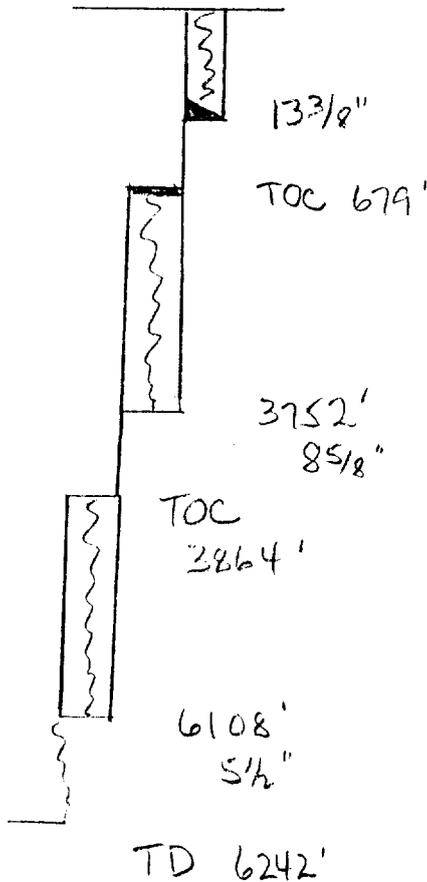
TOC: 3864 feet determined by temp. survey

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
 _____ 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).
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

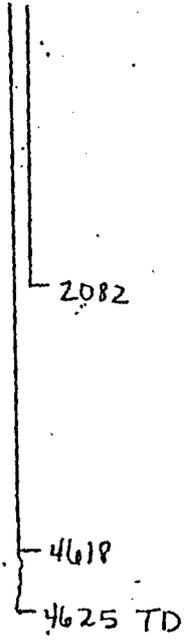
4618 feet to 5090 feet
(perforated or open-hole, indicate which)

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

Completed
11/19/45
deepen to 5090



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: _____

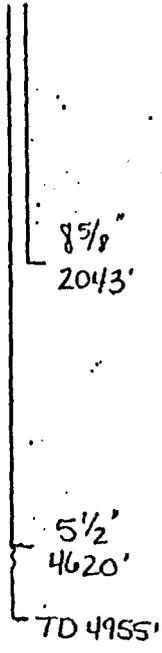
Long String

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)

Completed
 1/5/49
 deepen to 4955'
 4990



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 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

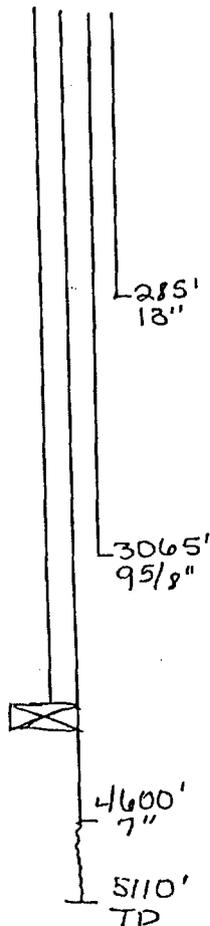
Size: 7" Cemented with 225 SX
 TOC: 3189 feet determined by Calc
 Hole Size: 8-3/4"

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
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		
#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 80%

Hole Size: 11"

Long String

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

TOC: 2435 feet determined by calc 80%

Hole Size: 7-7/8"

Total Depth: 5055'

Injection Interval

4580 feet to 5055 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC 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

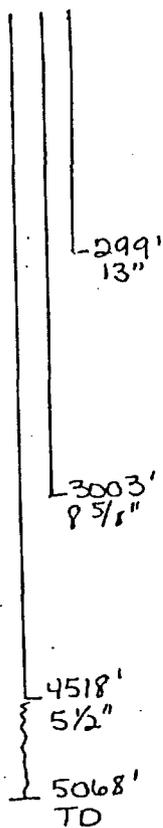
Greenhill Petroleum Corporation

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



Surface Casing

Size: 13 " Cemented with 225 SX
 TOC: Surface feet determined by calc
 Hole size: ?

Intermediate Casing

Size: 8-5/8 " Cemented with 250 SX
 TOC: 2235 feet determined by calc
 Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 150 SX
 TOC: 2818 feet determined by calc
 Hole Size: 6-3/4"

Total Depth: 5068

Injection Interval

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 San Andres

OPERATOR

LEASE

15
WELL NO.

1650' FSL & 1650' FWL
FOOTAGE LOCATION

31
SEC.

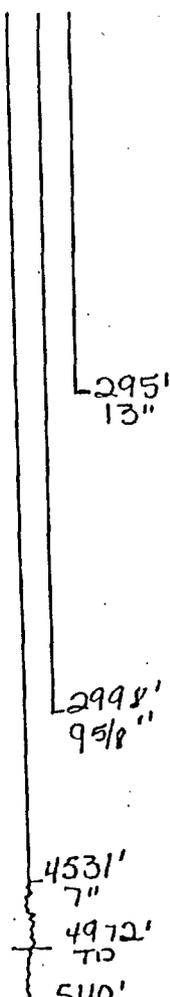
16S
TOWNSHIP

37E
RANGE

Tubular Data

Completed
6-1-39

Reopened
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 400 SX

TOC: 1818 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX

TOC: 3840 feet determined by calc

Hole Size: 8-3/4"

Total Depth: 5110'

Injection Interval

4531 feet to 5110 feet
(perforated or open-hole, indicate which)

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

Waterflood tension packer at 4510' feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		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 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 400 SX

TOC: 1832 feet determined by 80% calc

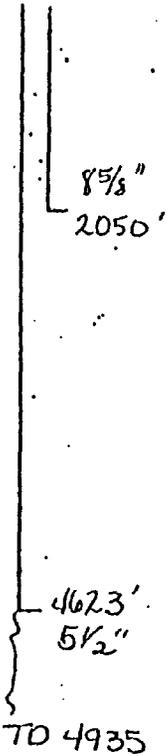
Hole Size: 7 1/4

Total Depth: 4935'

Injection Interval

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

Completed
9/17/46
deepen to
5090



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

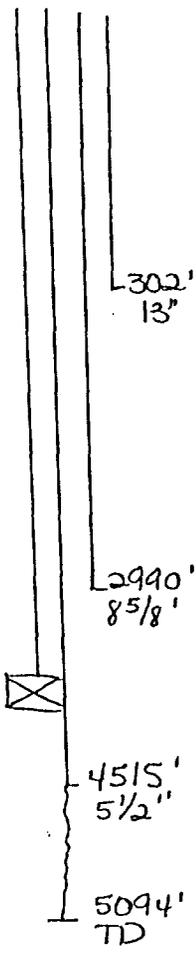
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated 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		
#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 400 SX
 TOC: 1765 feet determined by calc
 Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 200 SX
 TOC: 3424 feet determined by calc
 Hole Size: 7-7/8"

Total Depth: 5094'

Injection Interval

4515 feet to 5090 feet
 (perforated or open-hole, indicate which)

Tubing size 2- /8 lined with IPC 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

<p>291' 13"</p> <p>3109' 8 5/8"</p> <p>4541' 5 1/2"</p> <p>4960' TD</p> <p>5125' TD</p>	<p><u>Surface Casing</u></p> <p>Size: <u>13</u> " Cemented with <u>200</u> SX</p> <p>TOC: <u>Surface</u> feet determined by <u>circ</u></p> <p>Hole size: <u>17-1/4"</u></p> <p><u>Intermediate Casing</u></p> <p>Size: <u>8-5/8</u> " Cemented with <u>500</u> SX</p> <p>TOC: <u>2021</u> feet determined by <u>calc</u></p> <p>Hole Size: <u>11"</u></p> <p><u>Long String</u></p> <p>Size: <u>5-1/2</u> " Cemented with <u>325</u> SX</p> <p>TOC: <u>2890</u> feet determined by <u>calc 80%</u></p> <p>Hole Size: <u>7-7/8"</u></p> <p>Total Depth: <u>5125</u></p> <p><u>Injection Interval</u></p> <p><u>4541</u> feet to <u>5125</u> feet (perforated or open-hole; indicate which)</p>
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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

- 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

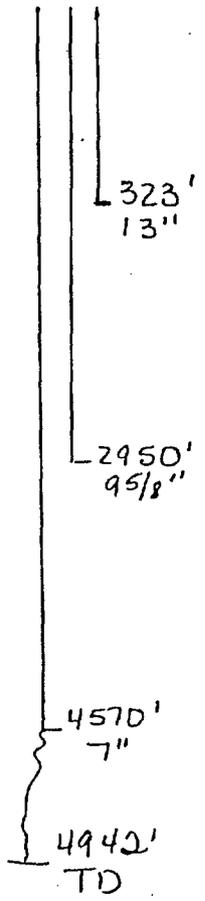
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#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 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 7/8 " — lined with IPC set in a
 _____ (material) packer at 4520 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

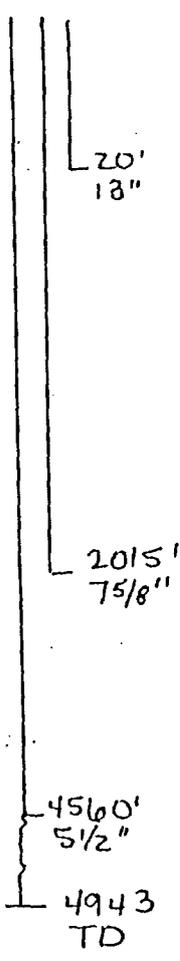
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated 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		
OPERATOR		LEASE		
#37	330' FNL & 990' FEL	6	17S	37E
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 3/4 — lined with _____ — IPC set in a
(material)
_____ 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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#39	1985 FNL & 610 FWL	6	T17S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

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

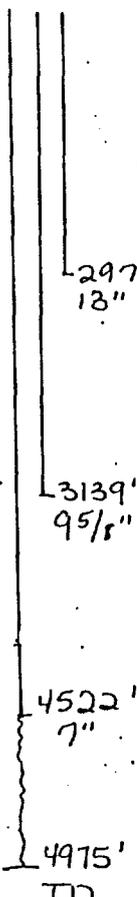
Hole Size: 8 3/4"

Total Depth: 4945'

Injection Interval

4522 feet to 4975 feet
(perforated or open-hole, indicate which)

Completed
10/28/39



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
OPERATOR

Lovington San Andres Unit
LEASE

#43
WELL NO.

1980 FNL & 660 FWL
FOOTAGE LOCATION

1
SEC.

T17S
TOWNSHIP

R36E
RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOG: Surface feet determined by circulation

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 600 SX

TOG: 199 feet determined by 50% calc

Hole Size: 11 "

Long String

Size: 5 1/2 " Cemented with 350 SX

TOG: 2679 feet determined by 80% calc

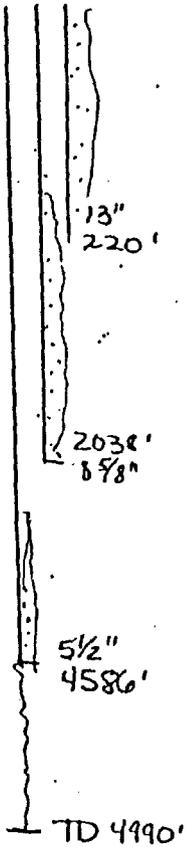
Hole Size: 7 7/8 "

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)
packer at 4536 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

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

Size: 13" Cemented with 300 SK

TOC: surface feet determined by calc.

Hole size: 17 1/2"

Intermediate Casing

Size: 9 5/8" Cemented with 500 SK

TOC: 1743 feet determined by 60% calc.

Hole Size: 12 1/4"

Long String

Size: 7 5/8" Cemented with 50 SK

TOC: 3147 feet determined by 60% calc.

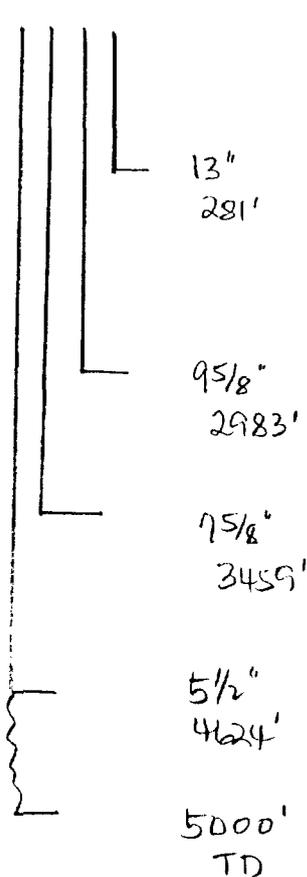
Hole Size: 8 3/4"

Total Depth: 5000'

Injection Interval

TOC 4324' (60% calc.) feet to _____ feet

8 3/4" (perforated or open-hole, indicate which)



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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation
OPERATOR

Lovington San Andres
LEASE

#58 2310' FNL & 1309' FWL 31 16S 37E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

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

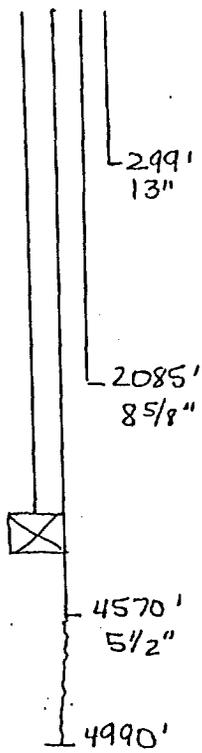
2. Name of Field or Pool (If applicable) Lovington San Andres

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



Completed
5-15-41

deepen to 5070

INJECTION WELL DATA SHEET

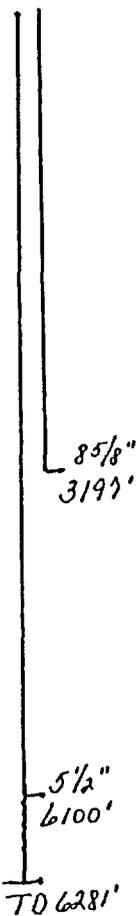
Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Spud Date
9-24-54



Surface Casing

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

TOC: Surface feet determined by calc

Circ

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by calc

Hole size:

Long String

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

TOC: 2876 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6281'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

- 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		
# 10	660' FNL & 2440' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-11-54

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: 4610 feet determined by temp survey
 Hole Size: 7-7/8"

Total Depth: 6260'

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

3912
 5 1/2"
 6105
 TD
 6260'

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

INJECTION WELL DATA SHEET

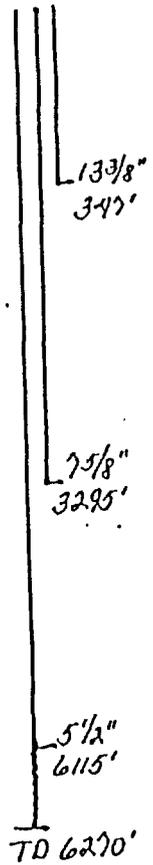
16

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

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

Tubular Data

Surface Casing

Size: 16" Cemented with 100 SX

TOC: Surface feet determined by calc.

Hole size: 18

Intermediate Casing

Size: 8 5/8" Cemented with 150 SX

TOC: 1271 feet determined by calc 50%

Hole Size: 11

Long String

Size: 7" Cemented with 200 SX

TOC: 2229 feet determined by 80% calc

Hole Size: 8

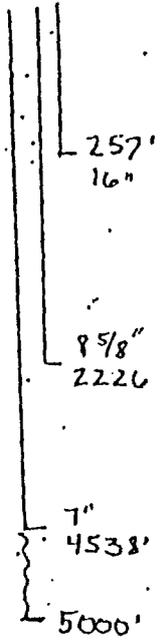
Total Depth: 5000'

Injection Interval

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

Completed 6/15/45

Converted to Injection 3/28/63



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

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE			
12	781' FNL & 660' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 350 SX

TOC: Surface feet determined by calc

Hole size: 17 1/4

Intermediate Casing

Size: 9 5/8 " Cemented with 2600 SX

TOC: Surface feet determined by calc

Hole Size: 12 1/4

Long String

Size: 7 " Cemented with 450 SX

TOC: 2675 feet determined by 70%

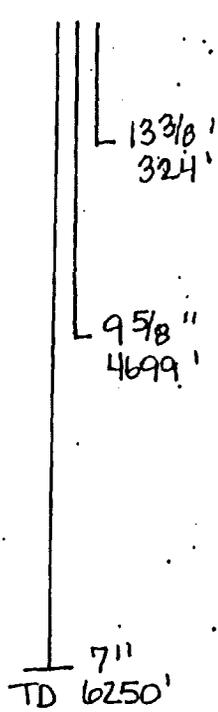
Hole Size: 8 1/4

Total Depth: 6250'

Injection Interval

6115 feet to 6248 feet (perforated or open-hole, indicate which)

Spud Date 4-5-53



Tubing size 2 3/8 lined with IPC set in a
 AD 1 PC packer at 6100 feet.
 (brand & model) (material)
 (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

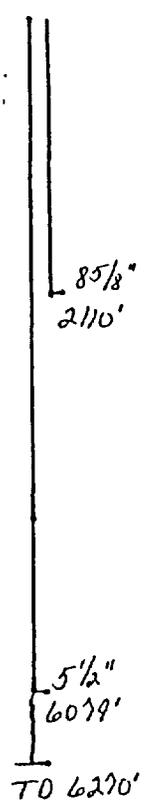
INJECTION WELL DATA SHEET

20

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

Tubular Data

Spud Date
10-27-53



Surface Casing

Size: 8-5/8 " Cemented with 975 SX
 TOC: Surface feet determined by calc *Circ*
 Hole size: //

Intermediate Casing

Size: Cemented with SX
 TOC: feet determined by
 Hole size:

Long String

Size: 5-1/2" Cemented with 400 SX
 TOC: 3918 feet determined by temp survey
 Hole size: 7 7/8

Total Depth: 6270'

Injection Interval

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

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

Other Data

- 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
-
5. 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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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 SX

TOC: Surface feet determined by circ. calc.

Hole size: 14 3/4

Intermediate Casing

Size: 9 5/8" Cemented with 500 SX

TOC: Surface feet determined by calc

Hole Size: 11 1/4

Long String

Size: 7" Cemented with 300 SX

TOC: 1910' feet determined by 80% calc.

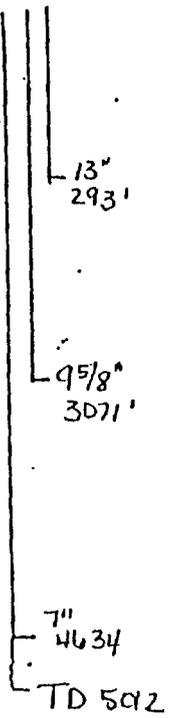
Hole Size: 8 1/4

Total Depth: 5012'

Injection Interval

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

Completed 1/3/39
Converted to Injection 3/28/63



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

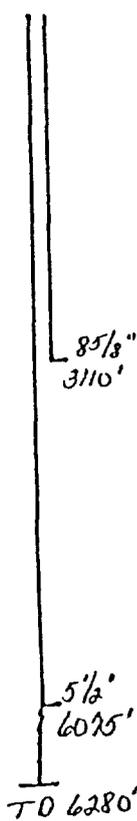
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated 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		
#16	660' FNL & 660' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
8-08-54



Surface Casing

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

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

Hole size: //

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3930 feet determined by 70% calc

Hole size: 7 7/8

Total Depth: 6280'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

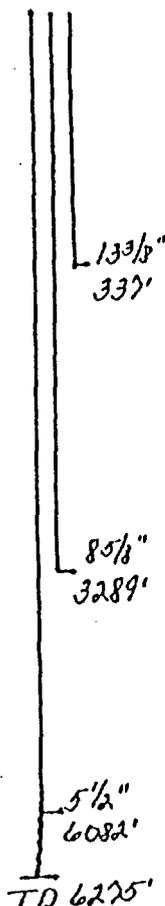
- Name of the injection formation:
 - Name of Field or Pool (If applicable) Paddock
 - Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 - Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
No
-
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: 2650 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

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

Y

INJECTION WELL DATA SHEET

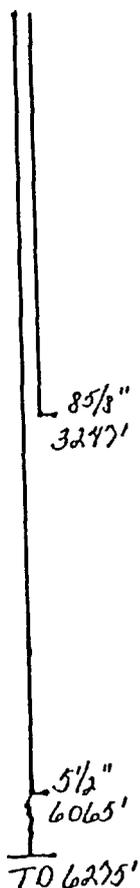
26

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 String

Size: 5-1/2" Cemented with 585 SX *465*
 TOC: 3964 feet determined by temp survey
 Hole size: *7 1/2*

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

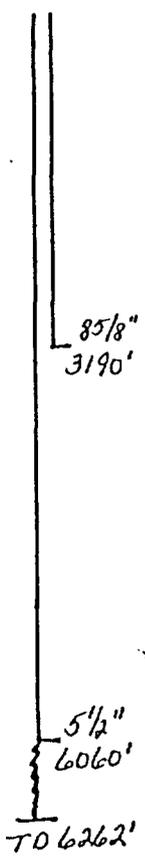
INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
3-24-54

Converted
to Injection
3/74



Surface Casing

Size: 8-5/8" Cemented with 1800 SX
 TOC: Surface feet determined by calc *Circ*
 Hole size: //

Intermediate Casing

Size: Cemented with SX
 TOC: feet determined by
 Hole size:

Long String

Size: 5-1/2" Cemented with 500 SX
 TOC: 3535 feet determined by temp survey
 Hole size: 7 7/8

Total Depth: 6262'

Injection Interval

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

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

Other Data

- 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
-
5. 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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INJECTION WELL DATA SHEET

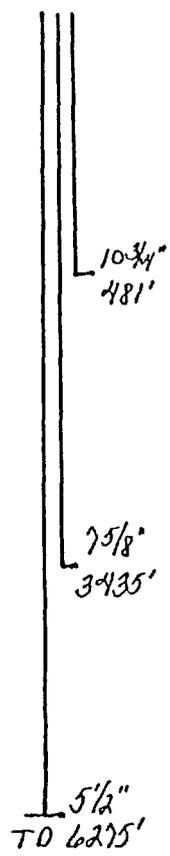
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#21	2190' FNL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
7-26-53

Converted
to Injection
2/73

5 1/2" liner
3312-6275
w/ 1980 SX
spud top w/ 50 SX



Surface Casing

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

TOC: Surface feet determined by calc *CIRC*

Hole size: 15

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size: 9 7/8

Long String

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

TOC: 3638 feet determined by temp. survey

Hole size: 6 3/4

Total Depth: 6275'

Injection Interval

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

Tubing size 2-3/8" lined with IPC set in a packer at 6043 feet. (Or describe any other casing-tubing seal).

Other Data

- 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

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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	2321.9	LEASE		
#23	2392' FNL & 750' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

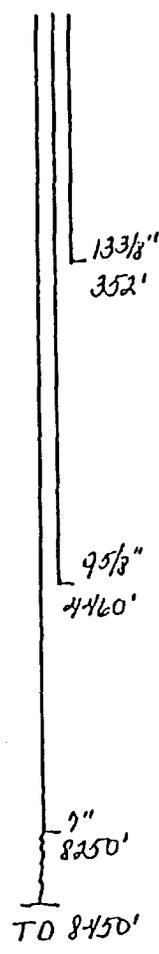
Tubular Data

Spud Date
3-29-52

Converted
to Injection
2/73

CIBP 6310'

Cmt. to 6300'



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 Interval
6120 feet to 6170 feet
(perforated or open-hole, indicate which)

17" / 1412
4171-8250

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

INJECTION WELL DATA SHEET

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

Tubular Data

Drilled Date
-12-53
Deepen to 6280



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 packer at 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

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)

Surface Casing

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

TOC: Surface feet determined by ^{circ}calc

Hole size: 18"

13 3/8"
246'

Intermediate Casing

Size: 9-5/8" Cemented with ¹²⁰⁰~~1400~~ SX

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

Hole size: 12-1/4"

9 5/8"
3270'

Long String

Size: 5-1/2" Cemented with 1982 SX ^{682 at shoe}
^{1700 thru out tool}
^{at 8988}

TOC: ²⁴⁷~~247~~ feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 12,251

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

Injection Interval

5 1/2"
11,044'

TO
12,251'

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

Abo (Above)

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

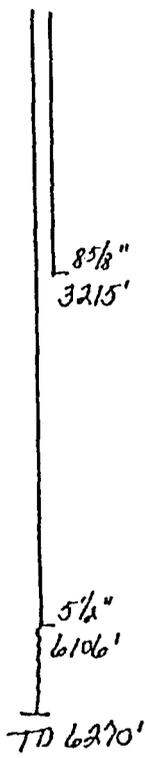
Lovington Paddock

OPERATOR	FOOTAGE LOCATION	LEASE	SEC.	TOWNSHIP	RANGE
#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}cale
 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

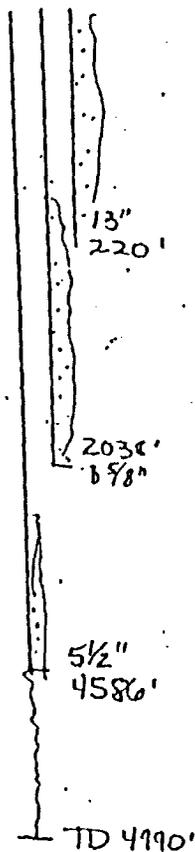
- Name of the injection formation: Paddock
 - Name of Field or Pool (If applicable) Paddock
 - Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 - Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
No
-
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 OPERATOR	Lovington San Andres Unit LEASE			
#43 WELL NO.	1980 FNL & 660 FWL FOOTAGE LOCATION	1 SEC.	T17S TOWNSHIP	R36E RANGE

Tubular Data

Completed
6/19/41
Deepen to 5030'



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)

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

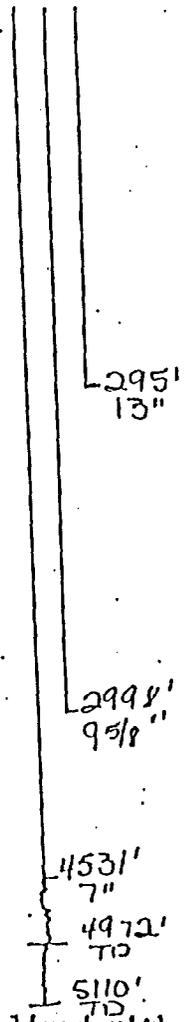
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
15	1650' ESL & 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 ~~400~~⁵⁰⁰ SX
 TOC: 1818 feet determined by calc
 Hole Size: 12"

Long String
 Size: 7 " Cemented with ~~200~~³⁰⁰ 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

I

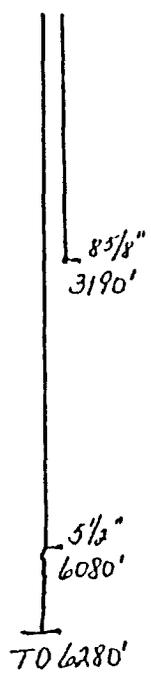
22

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
4-13-54



Surface Casing

Size: 8-5/8" Cemented with 1800 SX
 TOC: Surface feet determined by calc
 Hole size: //

Intermediate Casing

Size: Cemented with SX
 TOC: feet determined by
 Hole size:

Long String

Size: 5-1/2" Cemented with 585 SX
 TOC: 3765 feet determined by temp survey
 Hole size: 7 1/2
 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

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 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 400 SX

TOC: 1832 feet determined by 80% calc

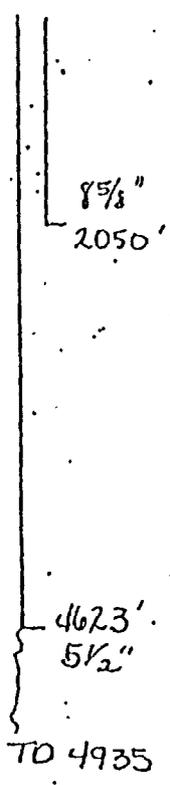
Hole Size: 7 1/4

Total Depth: 4935'

Injection Interval

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

Completed
9/17/46
deepen to
5090



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

- 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.

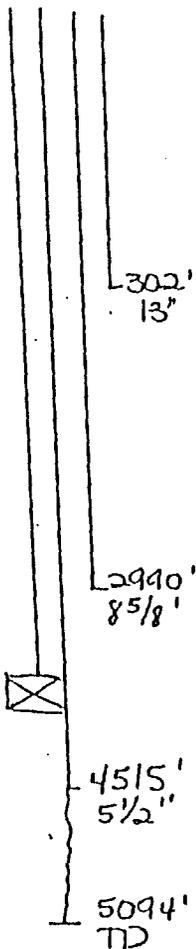
Underlying - Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#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- /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

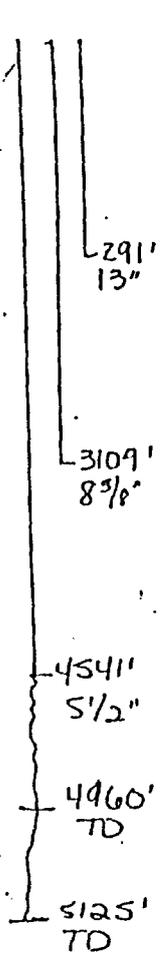
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington 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



Surface Casing
 Size: 13 " Cemented with 200 SX
 TOC: Surface feet determined by circ
 Hole size: 17-1/4"

Intermediate Casing
 Size: 8-5/8 " Cemented with 500 SX
 TOC: 2021 feet determined by calc
 Hole Size: 11"

Long String
 Size: 5-1/2 " Cemented with 325 SX
 TOC: 2890 feet determined by calc 80%
 Hole Size: 7-7/8"

Total Depth: 5125

Injection Interval
4541 feet to 5125 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a
 (material)
water flood tension packer at 4499 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

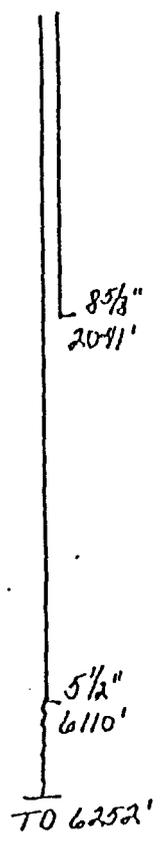
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE		
#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

6140 feet to 6252 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a packer at 6000 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		
#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

TOG: _____ feet determined by _____

Hole size: 15 1/4"

Intermediate Casing

Size: 8 5/8" Cemented with 500 SX

TOG: _____ feet determined by _____

Hole Size: 10 1/4"

Long String

Size: 5 1/2" Cemented with 200 SX

TOG: 2343 feet determined by 80% calc

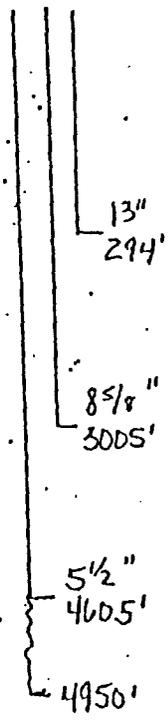
Hole Size: 6 3/4"

Total Depth: 4950'

Injection Interval

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

Completed 12/6/39
Converted to Injection 3/16/63



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

Other Data

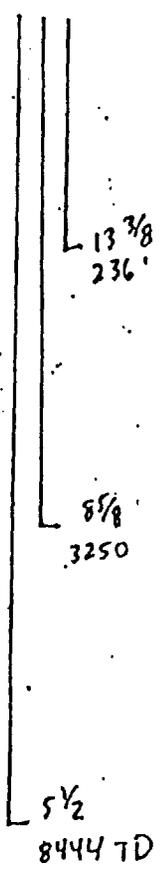
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

INJECTION WELL DATA SHEET

Texaco OPERATOR State "O" LEASE
12 WELL NO. 1650' ESL & 2310' FEL FOOTAGE LOCATION 31 SEC. 16S TOWNSHIP 37E 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 _____ (material) set in a _____ packer at _____ foot.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

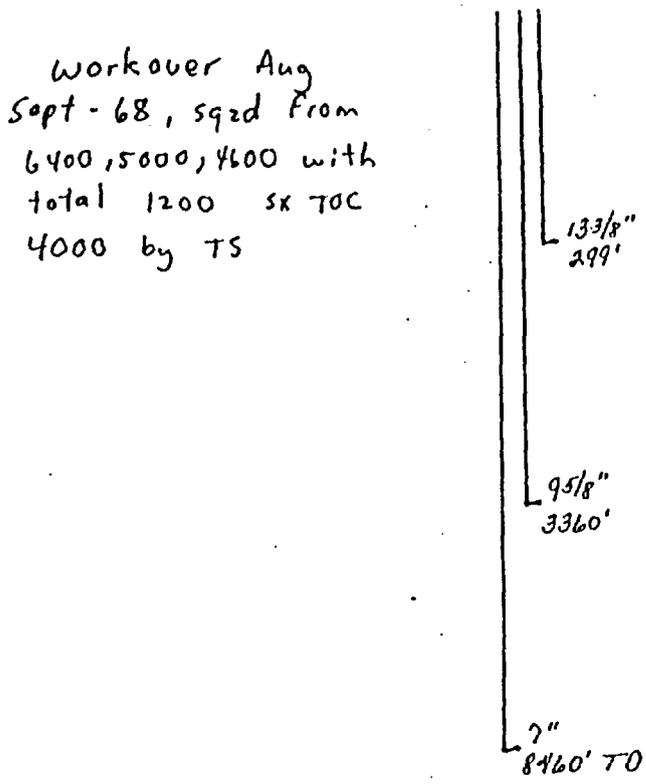
- Name of the injection formation _____
- Name of Field or Pool (if applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and 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

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

Tubular Data



Surface 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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

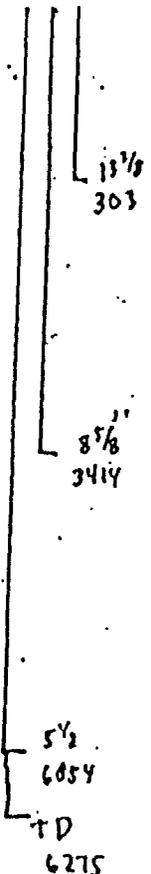
Lovington Paddock

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

Tubular Data

Completion
6-16-53

Converted to
Injection
6/67



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 900 SX

TOC: 656 feet determined by 50% calc

Hole Size: 11"

Long String

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

TOC: 4692 43/6 feet determined by 75 80% calc

Hole Size: 7-7/8"

Total Depth: 6275'

Injection Interval

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

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

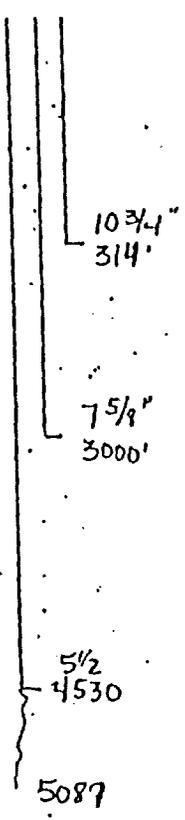
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
8/7/39

Converted to
Injection
3/15/63



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

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

Tubular Data

Spud Date
5-02-53

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 12 1/4

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3869 feet determined by 70% calc

Hole size: 7 1/2

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

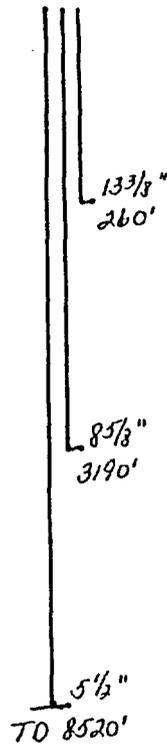
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging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

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^{CIRC}

Hole size: 18"

Intermediate Casing

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

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INJECTION WELL DATA SHEET

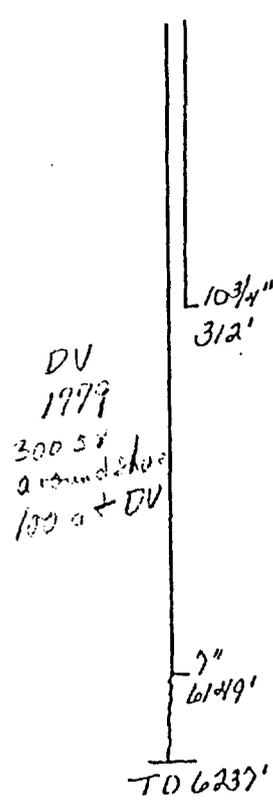
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	H30	LEASE		
#33	1650' FSL & 400' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completion
2-2-53

Deepened for
Inj. 12/66
6150-6237'

Converted to
Injection 12/66



Surface Casing ^{10 3/4}

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

TOC: Surface feet determined by calc Circ

Hole size: 13 3/8

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 7" Cemented with 400 SX

TOC: 3636 feet determined by 80% calc

Hole size: 8-3/4"

Total Depth: 6237'

Injection Interval

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

Tubing size 2-3/8" 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
-
5. 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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P?

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#32	1750' FSL & 1650' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-19-53

Surface Casing

Size: 8-5/8" Cemented with 1000 SX
 TOC: Surface feet determined by *catc Circ*
 Hole size: //

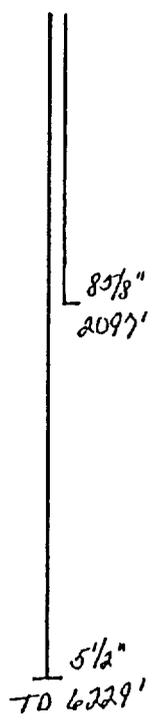
Intermediate Casing

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 1/8"

Total Depth: 6229'



Injection Interval

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

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

Other Data

- 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 Corp.	Lovington Paddock			
OPERATOR	LEASE			
84	1100 FEL & 2285 FSL	36	T16S-R36E	
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)

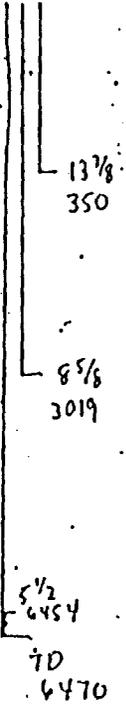
Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

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. - 4/15/90



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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#541	1980' FSL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud 1-7-63

May 29
 4 1/2" CS
 120 lbs
 346, 1546 & 1608
 1100 ft



Surface Casing

Size: 7-5/8 " Cemented with 240 SX
 TOC: Surface feet determined by catc Circ
 Hole size: 9-7/8"

Intermediate Casing

Size: _____ " Cemented with _____ SX
 TOC: _____ feet determined by _____
 Hole Size: _____

Long String

Size: 4-1/2 " Cemented with 235 SX
 TOC: 2314 feet determined by Temp survey
 Hole Size: 6-3/4"
 Total Depth: 5110'

Injection Interval

4662 feet to 5037 feet
 (perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a
 _____ (material)
 _____ packer at 4579 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) _____
- Is this a new well drilled for injection? Yes
 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.

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. OPERATOR State "R" Lexington Paducah Unit LEASE

83 WELL NO. 2310 FWL c 1650 FSL FOOTAGE LOCATION Sec 36 T16S-R36E 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

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

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

Other Data

1. Name of the injection formation

2. Name of Field or Pool (IF applicable) Lexington A60

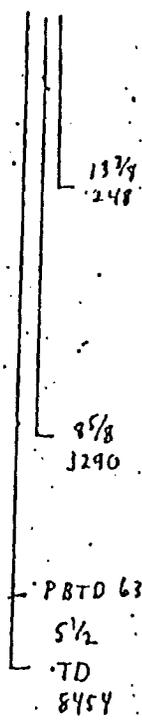
3. Is this a new well drilled for injection? No IF no, for what purpose was the well originally drilled? production

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

Completed 10/31/52 CIBP Set 6400 New PBD 6370 1/20/86



INJECTION WELL DATA SHEET

Tidewater Getty State "M"
OPERATOR LEASE

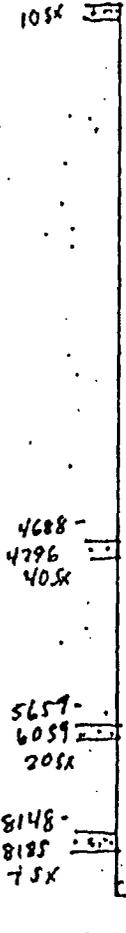
2 3630' FNL & 330' FEL 36 16S 36E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Completed
3-03-52

P&A 6-26-73

7" liner 4823 - 8459
w 400 sx.
previously a
problem well
perforate csg at
400' squeeze well
with 50 to 60 sx
cement
spot 10 sx surface
plug - 5/8/91



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

I

59

P

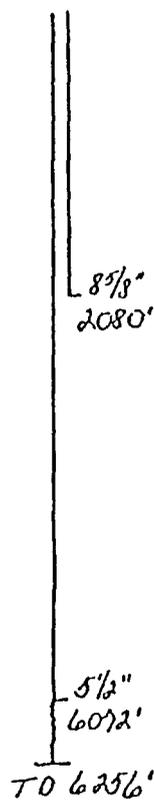
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#29	2130' FSL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-11-53

Converted to
Injection 10/75



Surface Casing

Size: 8-5/8" Cemented with 975 SX
TOC: Surface feet determined by ~~gate~~ *Circ*
Hole size: 11"

Intermediate Casing

Size: Cemented with SX
TOC: feet determined by
Hole size:

Long String

Size: 5-1/2" Cemented with 275 SX
TOC: ⁵²⁰⁵ ~~4574~~ feet determined by ^{Tamp. Survey} ~~80% gate~~
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).

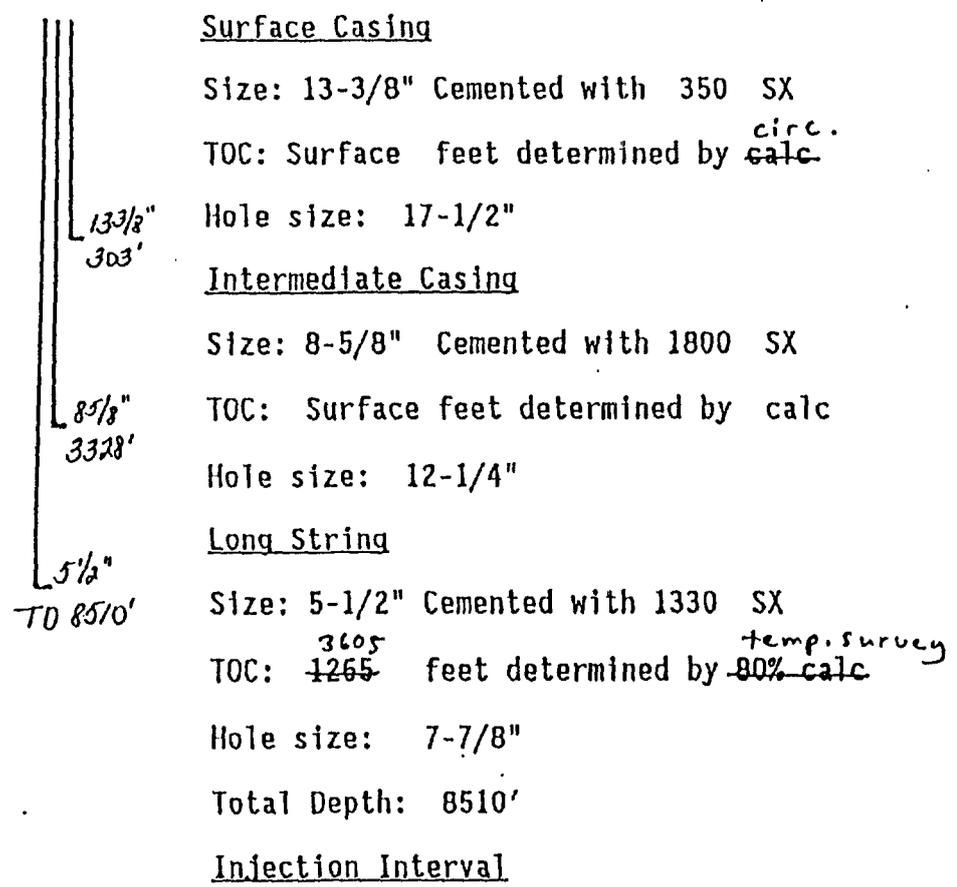
Other Data

- 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
-
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

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

Tubular Data



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

Cities Service		State AE		
OPERATOR		LEASE		
2	3630' FNL & 4290' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

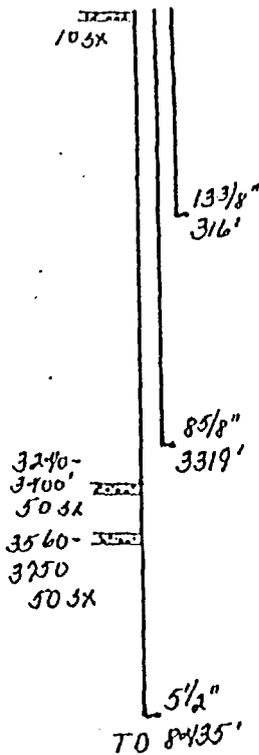
Tubular Data

Completed
1-09-53

P&A 6-6-69

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

Cont. ret. at 3988
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

Greenhill Petroleum Corporation

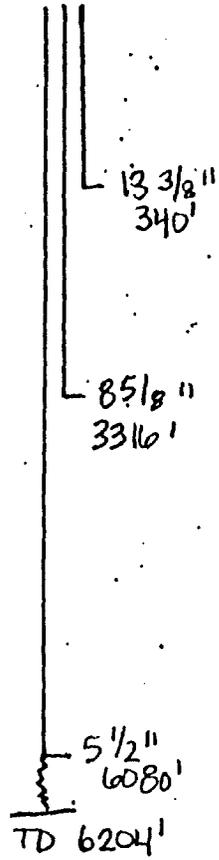
Lovington Paddock

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

Tubular Data

Spud Date
12-16-53

Deepen to 6295



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 2300 SX

TOC: Surface feet determined by calc

Hole Size: 11

Long String

Size: 5 1/2" Cemented with 400 SX

TOC: 4350 feet determined by temp survey

Hole Size: 7 7/8

Total Depth: 6204'

Injection Interval

6080 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 packer at 6050 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

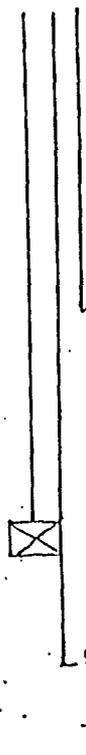
- Name of the injection formation Paddock
- Name of Field or Pool (IF applicable) Paddock
- Is this a new well drilled for injection? No Production
If no, for what purpose was the well originally drilled? _____
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals 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

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 Data

Completed
6-29-65



Surface Casing

Size: 8-5/8 " Cemented with 825 SX

TOC: Surface feet determined by circ

Hole size: 11"

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Long String

Size: 4-1/2 " Cemented with 450 SX

TOC: 3581 feet determined by temp survey
calc

Hole Size: 7-7/8"

Total Depth: 5060

Injection Interval

4666 feet to 5034 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC 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

Penroc State of AL
 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'

13 3/8
314'

8 5/8
3350'

5 1/2"
708430'

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		
#26	660 FSL & 1980 FWL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	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

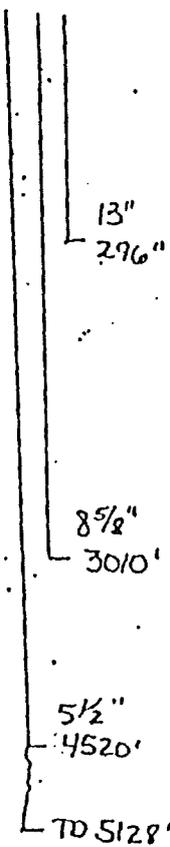
Hole Size: 6 3/4"

Total Depth: 5128'

Injection Interval

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

Completed 12/3/39



Tubing size _____ lined with _____ set in a _____ (material) _____ packer at _____ foot. (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		
#41	810' FSL & 2130' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

TOC: Surface feet determined by calc

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'

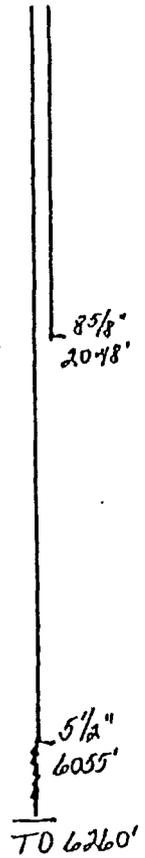
Injection Interval

- 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

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



SI
7.6.29

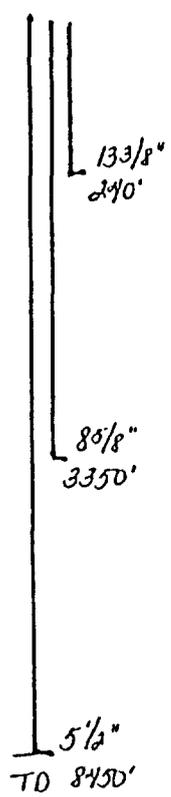
74

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

- 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

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75

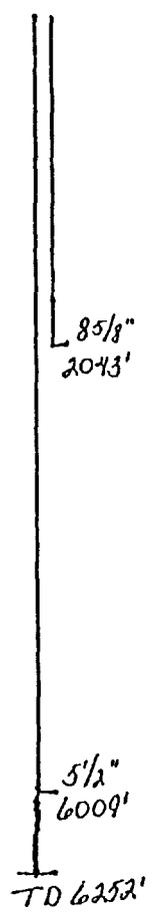
P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#40	1980' FEL & 810' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-07-53



Surface Casing

Size: 8-5/8" Cemented with 850 SX
 TOC: Surface feet determined by calc
 Hole size: 11"

Intermediate Casing

Size: Cemented with SX
 TOC: feet determined by
 Hole size:

Long String

Size: 5-1/2" Cemented with 265 SX
 TOC: 4565 feet determined by 80% calc
 Hole size: 7 1/8"

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

- 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

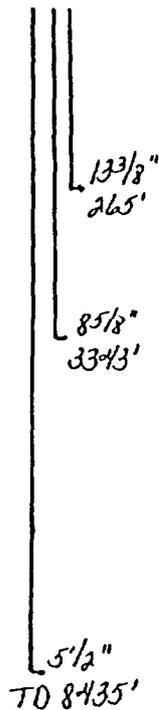
INJECTION WELL DATA SHEET

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



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

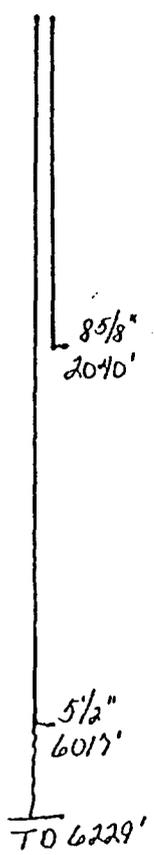
(Above) Drinkard

INJECTION WELL DATA SHEET

77
P

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#39	810' FSL & 660' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 8-5/8" Cemented with 900 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: 4632 feet determined by temp survey
 Hole size: 7 7/8
 Total Depth: 6229'

Injection Interval

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

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

Other Data

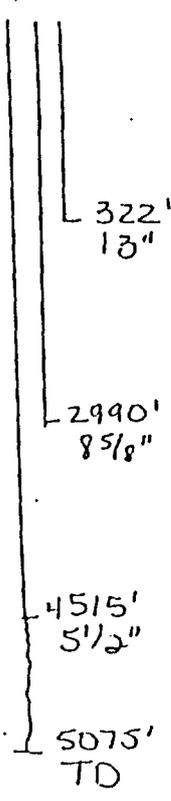
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give 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		
#24	660' FEL & 660' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE

Tubular Data

Completed
9-8-39



Surface Casing

Size: 13 " Cemented with 250 SX
 TOC: Surface feet determined by circ
 Hole size: 17-1/4" 15

Intermediate Casing

Size: 8-5/8 " Cemented with 500 SX
 TOC: 1458 feet determined by calc
 Hole Size: 12-1/4" 7 3/4

Long String

Size: 5-1/2 " Cemented with 250 SX
 TOC: 3145 feet determined by calc
 Hole Size: 7-7/8" 6 1/4

Total Depth: 5075'

Injection Interval

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

Tubing size _____ lined with _____ 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

13" 252'
Surface Casing
 Size: 13" Cemented with 275 SX
 TOC: Surface feet determined by calc
 Hole size: 18"

8 5/8" 342'
Intermediate Casing
 Size: 8-5/8" Cemented with 1750 SX
 TOC: Surface feet determined by calc
 Hole Size: 12-1/4"

5 1/2" 108442'
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

- 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

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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	FOOTAGE LOCATION		LEASE		
#38	810' FSL &	665' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Tubular Data

Completed
6-28-53

Converted to
Injection 1-71



Surface Casing

Size: 9-5/8" Cemented with 900 SX

TOC: Surface feet determined by ^{CIRC} calc

Hole size: 12-1/4"

Intermediate Casing

Size: 9 5/8" Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 500 SX
3527 (casing set deeper than on original calc.)

TOC: ~~3316~~ feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6252'

Injection Interval

6040 feet to 6220 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 5966 feet. (Or describe any other casing-tubing seal).

Other Data

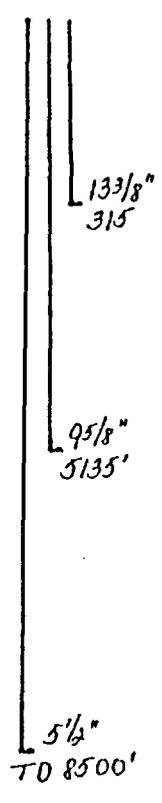
- Name of the injection formation: Paddock
- Name of Field or Pool (if applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and 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" 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 ³⁰⁰ 650 SX
 TOC: Surface feet determined by ^{Circ} calc
 Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with 4500 SX
 TOC: Surface feet determined by ^{Circ} calc
 Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 650 SX
 TOC: 4959 feet determined by 80% calc
 Hole size: 7-7/8"
 Total Depth: 8500

Handwritten notes:
 350 SY of shoe
 4150 SX Thru
 DV Tool at
 4510

Injection Interval

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

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

Other Data

1. Name of the injection formation:
 2. Name of Field or Pool (If applicable) Livington 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 OPERATOR Lovington San Andres Unit LEASE

#22 WELL NO. 330 FSL & 1650 FWL FOOTAGE LOCATION 31 SEC. T16S TOWNSHIP R73E RANGE

Tubular Data

Surface Casing

Size: 13" Cemented with 200 SX

TOC: Surface feet determined by calc

Hole size: 15 1/2"

Intermediate Casing

Size: 9 5/8" Cemented with 500 SX

TOC: 1369 feet determined by 50% calc

Hole Size: 11 1/4"

Long String

Size: 7" Cemented with 200 SX

TOC: 3161 feet determined by 80% calc

Hole Size: 8 3/4"

Total Depth: 5086

Injection Interval

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

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

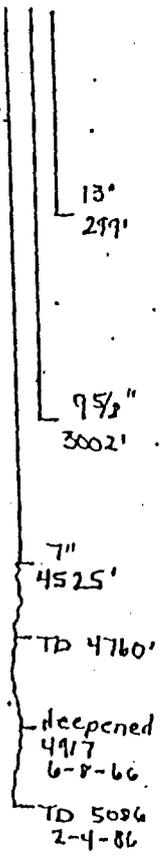
Other Data

- 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 11/19/55

Deepened to 4917 6/8/66

Deepened to 5086 2/4/86



INJECTION WELL DATA SHEET

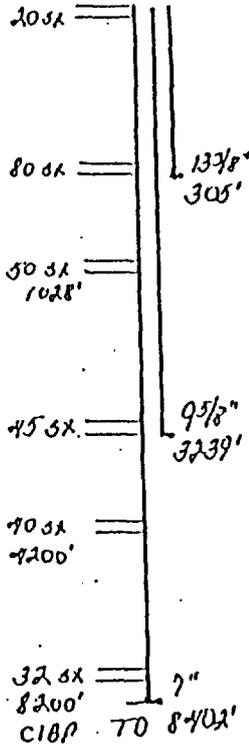
Arco		State 182 "A"		
OPERATOR		LEASE		
3	1959.54' FWL & 660' FSL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-12-52

P&A'd 2-4-76

cut c, pulled
7 5/8 from 1028
cut c, pull
" from 4200
perf at 5000
92.120 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.

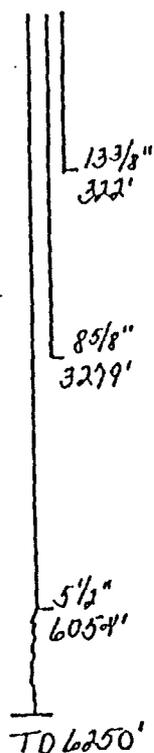
(Above) Drinkard

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
8-6-53

Surface Casing

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

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

Hole size: 1 1/2"

Intermediate Casing

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

TOC: 1235 feet determined by temp survey

Hole size: 1 1/2"

Long String

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

TOC: 4290 feet determined by temp survey

Hole size: 7 7/8"

Total Depth: 6250'

Injection Interval

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

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

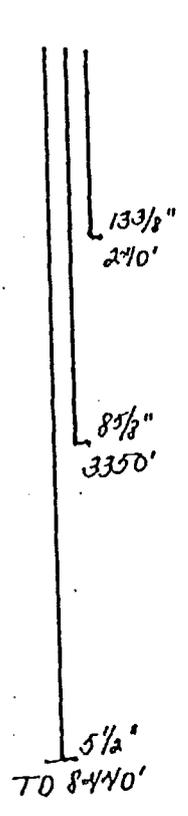
Other Data

- 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
-
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 Data



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: 899 feet determined by 50% calc
 Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 850 SX
 TOC: 3809 feet determined by 80% calc
 Hole size: 7-7/8"
 Total Depth: 8440'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

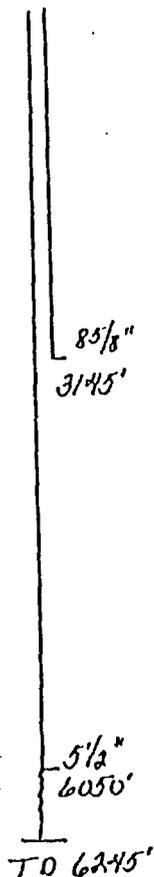
Lovington Paddock

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)

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

Other Data

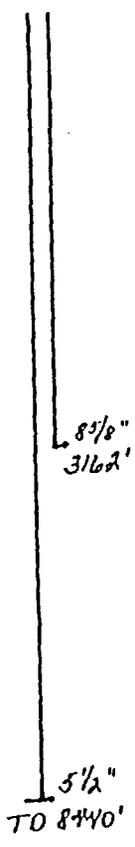
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

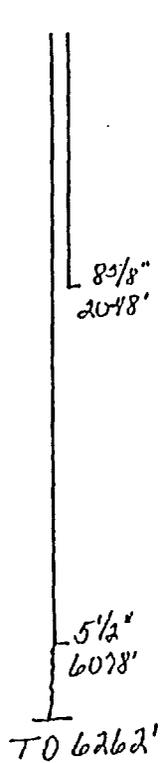
1. Name of the injection formation:
 2. Name of Field or Pool (If applicable) Lovington Drinkard
 3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals 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 Paddock		
OPERATOR		LEASE		
#35	810' FSL & 810' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
3-20-54



Surface Casing

Size: 8-5/8" Cemented with 975 SX
 TOC: Surface feet determined by ^{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 585 SX
 TOC: 3225 feet determined by temp survey
 Hole size: 7 7/8
 Total Depth: 6262'

Injection Interval

6078 feet to 6262 feet
 (perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with 2 3/8 set in a packer at 6000 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

66 92

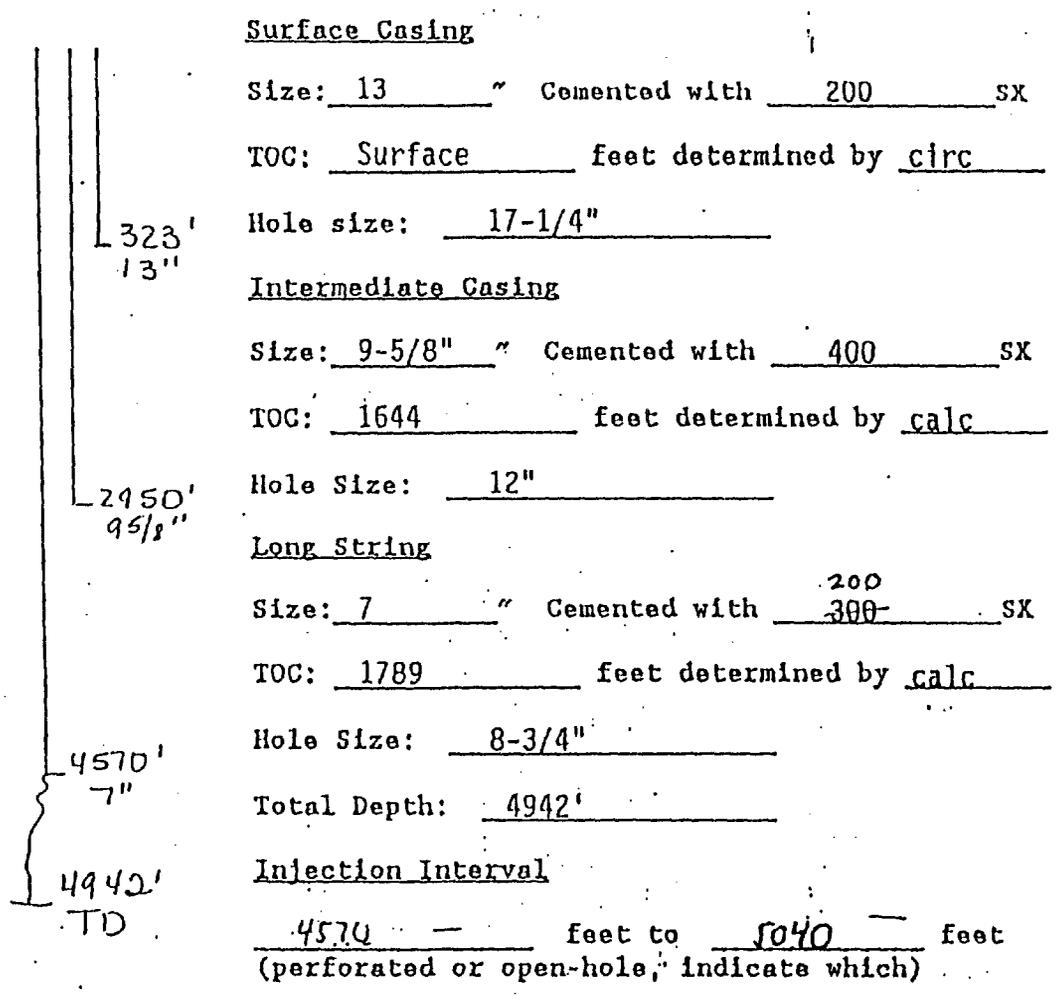
INJECTION WELL DATA SHEET

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



Tubing size 2 7/8 lined with JPC set in a
 _____ (material) packer at 4520 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

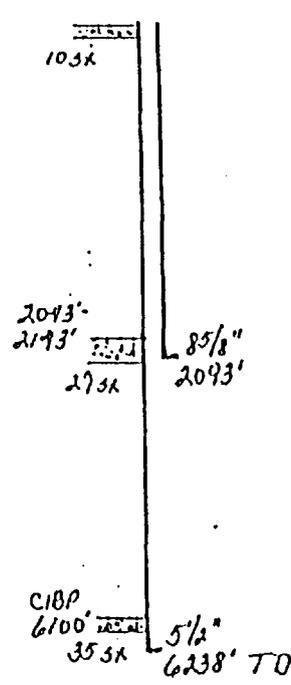
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

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

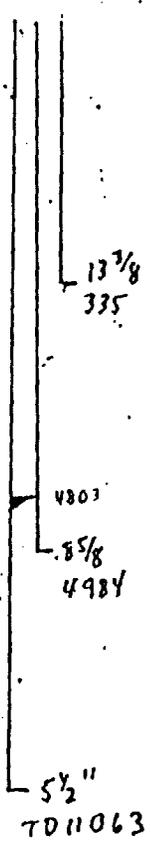
Texaco		State "V"		
OPERATOR		LEASE		
1	660' FWL & 660' FNL	5	17S	37E
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE

Tubular Data

Completed
6-20-52

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

6-20-55
5 1/2" liner from
6648-6650 w 280 SX
TOC 5740



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 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) 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

E. F. Moran Inc.

Shipp State "A"

OPERATOR	LEASE
1	330' FNL & 330' FWL
WELL NO..	SEC. TOWNSHIP RANGE

Tubular Data

Surface 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

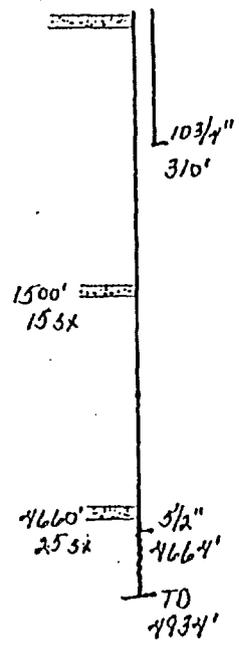
- feet to - feet
 (perforated or open-hole, indicate which)

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.
-

Completed
 3-1-50
 P&A'd 8-22-53
 5 1/2 pulled from
 1500

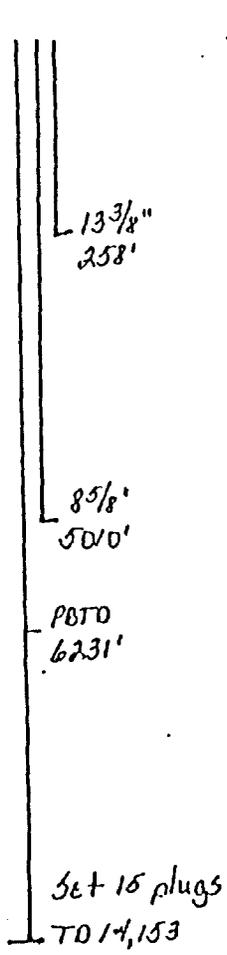


INJECTION WELL DATA SHEET

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)

Tubing size 2-3/8" lined with IPC set in a packer at 6094 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
-
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 OPERATOR Lovington San Andres Unit LEASE

#36 WELL NO. 660 FNL & 2040 FEL FOOTAGE LOCATION 6 SEG. 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'

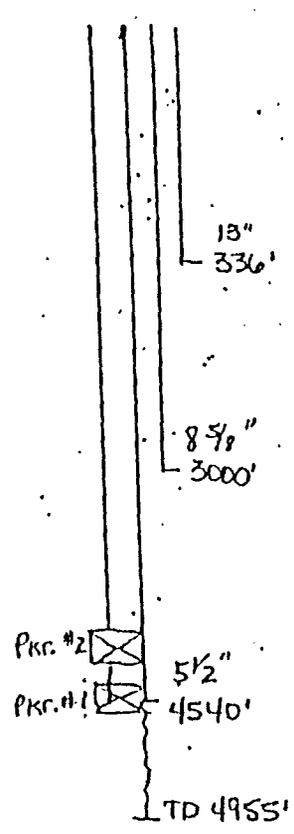
Injection Interval

4540 feet to 4955 feet
 (perforated or open-hole, indicate which)

Completed 9/12/39

Pkr. #1 3/22/63

Pkr. #2 1/25/79



Pkr. #1 Tubing size 2 3/8 lined with IPC set in a Baker "A" Pension packer at 4456 feet.
 (brand & model)
 (or describe any other casing-tubing seal). Pkr. #2 Howco R-3 set @ 4435'.

Other Data

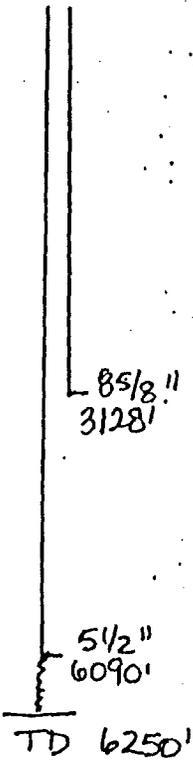
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

INJECTION WELL DATA SHEET

Enhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
510' FNL & 2190' FEL		6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE

Tubular Data

Drilled Date
31-53



Surface Casing
 Size: 8 5/8 " Cemented with _____ SX
 TOC: Surface feet determined by calc
 Hole size: 1 1/2

Intermediate Casing
 Size: _____ " Cemented with _____ SX
 TOC: _____ feet determined by _____
 Hole Size: _____

Long String
 Size: 5 1/2 " Cemented with 400 SX
 TOC: 4220 feet determined by temp survey
 Hole Size: 7 7/8
 Total Depth: 6250'

Injection Interval
6090 feet to 6250 feet
 (perforated or open-hole, indicate which)

Casing size 2 3/8 lined with IPC set in a
Baker AD- 1 PC 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 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

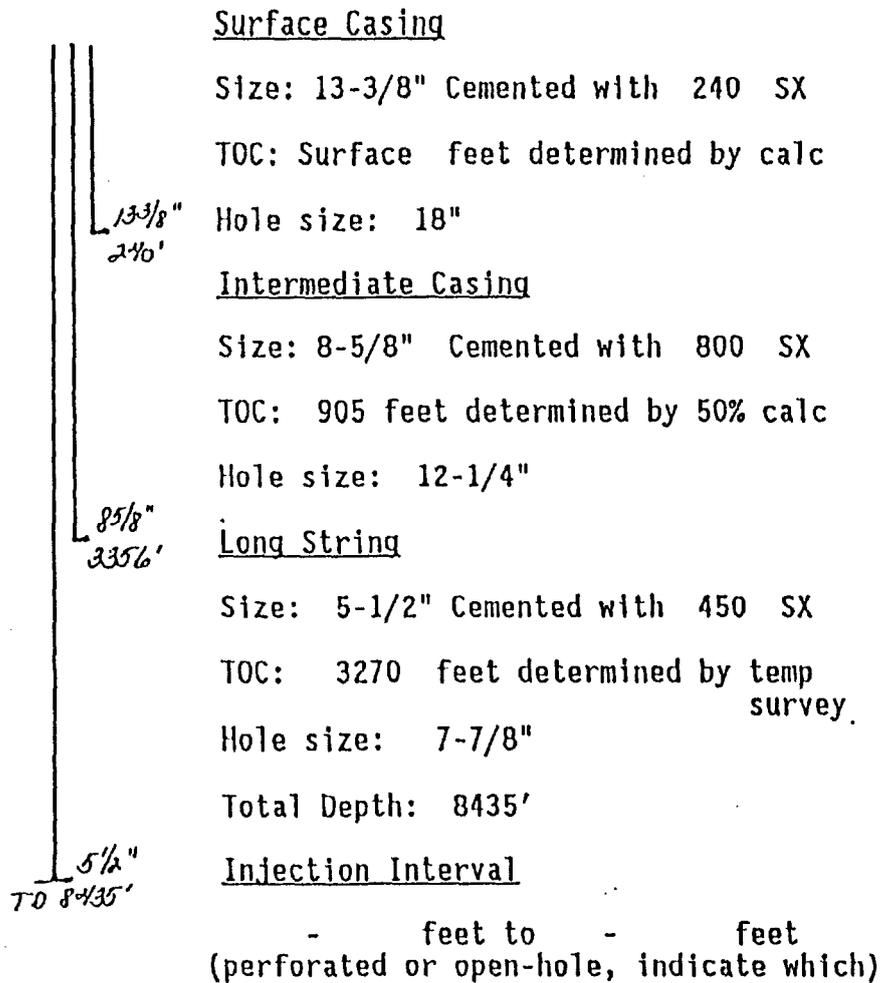
INJECTION WELL DATA SHEET

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 String
 Size: 5-1/2" Cemented with 450 SX
 TOC: 3270 feet determined by temp survey
 Hole size: 7-7/8"
 Total Depth: 8435'
Injection Interval
 - feet to - feet
 (perforated or open-hole, indicate which)

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

Other Data

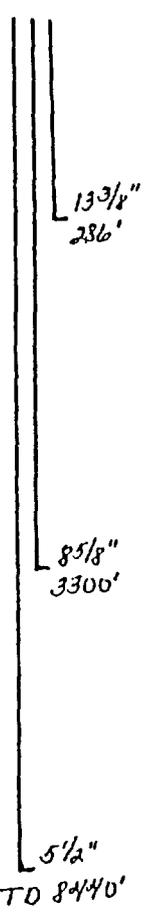
1. Name of the injection formation:
 2. Name of Field or Pool (If applicable) Lovington Abo
 3. Is this a new well drilled for Injection? No
 If no, for what purpose was the well originally drilled? Production
 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

INJECTION WELL DATA SHEET

Penroc				C. S. Caylor		
OPERATOR	1827 FNL			LEASE		
3	660' FNL & 3393' FET			6	17S	37E
WELL NO.	FOOTAGE LOCATION			SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-18-52



Surface Casing

Size: 13-3/8" Cemented with 300 SX
 TOC: Surface feet determined by calc
 Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX
 TOC: 849 feet determined by 50% calc
 Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 800 SX
 TOC: 4082 feet determined by 80% calc
 Hole size: 7-7/8"
 Total Depth: 8440'

Injection Interval

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

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

Other Data

- 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

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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	(1740 FNL)	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

S_g = 25 SX at 4590-91



Surface Casing

Size: 8-5/8" Cemented with 950 SX
 TOC: Surface feet determined by calc
 Hole size: 11

Intermediate Casing

Size: Cemented with SX
 TOC: feet determined by
 Hole size:

Long String

Size: 5-1/2" Cemented with 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

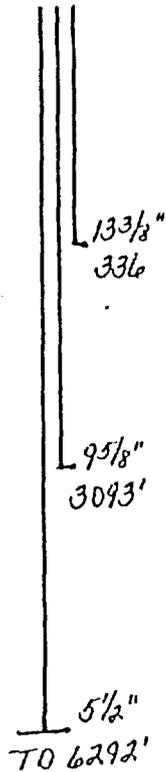
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and 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		
#50	660' FNL & 902' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
7-31-53



Surface Casing

Size: 13-3/8" Cemented with 300 SX
Circ
TOC: Surface feet determined by calc
Hole size: 17 1/4

Intermediate Casing

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

Long String

Size: 5-1/2" Cemented with 500 SX
450
TOC: ~~4100~~⁴¹⁵⁰ feet determined by temp
survey
Hole size: 8 3/4

Total Depth: 6292'

Injection Interval

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

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

Other Data

- 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	Lovinton San Andres Unit			
OPERATOR	LEASE			
#34	660 FNL & 615 FWL	6	T17S	R37E
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 1/4~~ 15

Intermediate Casing

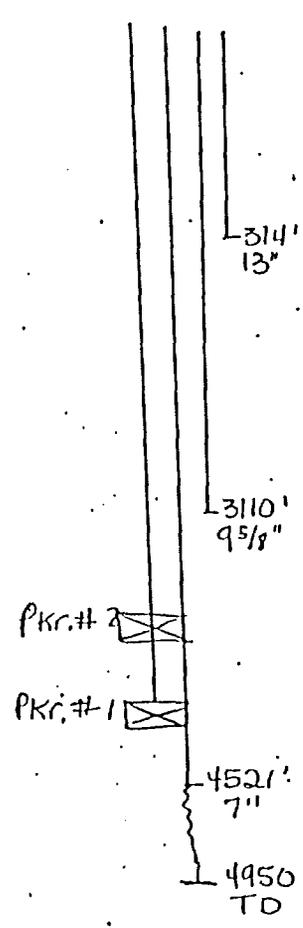
Size: 9 5/8" Cemented with 500 SX
 TOC: 1956 feet determined by 50% calc
 Hole Size: 12"

Long String

Size: 7" Cemented with 200 SX
 TOC: 3264 feet determined by 80% calc
 Hole Size: 8 3/4"

Injection Interval

Total Depth: 4950'
4521 foot to 4950 foot
 (perforated or open-hole, indicate which)



Completed
 1/27/53
 Pkr. 7/10/63
 Pkr. 6/14/72

Packer #1
 Tubing size 2" lined with IPC set in a
Baker "A" Pension packer at 4498 foot.
 (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

INJECTION WELL DATA SHEET

Amerada Hess

State L "A"

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

Tubular Data

Completed
5-3-52

Surface Casing
 Size: 13-3/8 " Cemented with 225 SX
 TOC: Surface feet determined by calc
 13 3/8 Hole size: 17-1/2"
 280

Intermediate Casing
 Size: 8-5/8 " Cemented with 1000 SX
 TOC: 1497 ~~9063~~ feet determined by TS ~~507~~ calc
 8 5/8 Hole Size: 11"
 3198

Long String
 Size: 5-1/2 " Cemented with 600 SX
 TOC: 4975 feet determined by temp survey
 5 1/2 Hole Size: 7-7/8"
 8342

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

- 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

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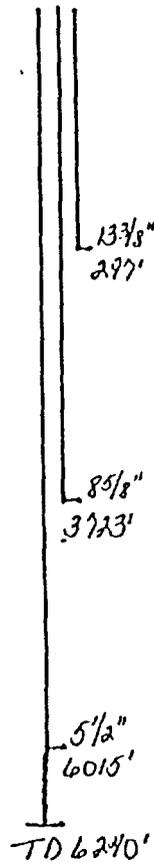
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#49	760 FNL & 660 FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
8-18-53

Converted to
Injection 12/66



Surface Casing

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

TOC: Surface feet determined by calc ^{CIRC}

Hole size: 17-1/2"

Intermediate Casing

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

TOC: ³⁹⁰ Surface feet determined by ^{TS} calc

Hole size: 11"

Long String

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

TOC: ³⁷²⁴ 3019- feet determined by ^{TS} 80%-calc

Hole size: 7-7/8"

Total Depth: 6240'

Injection Interval

6015 feet to 6140 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 5921 feet. (Or describe any other casing-tubing seal).

Other Data

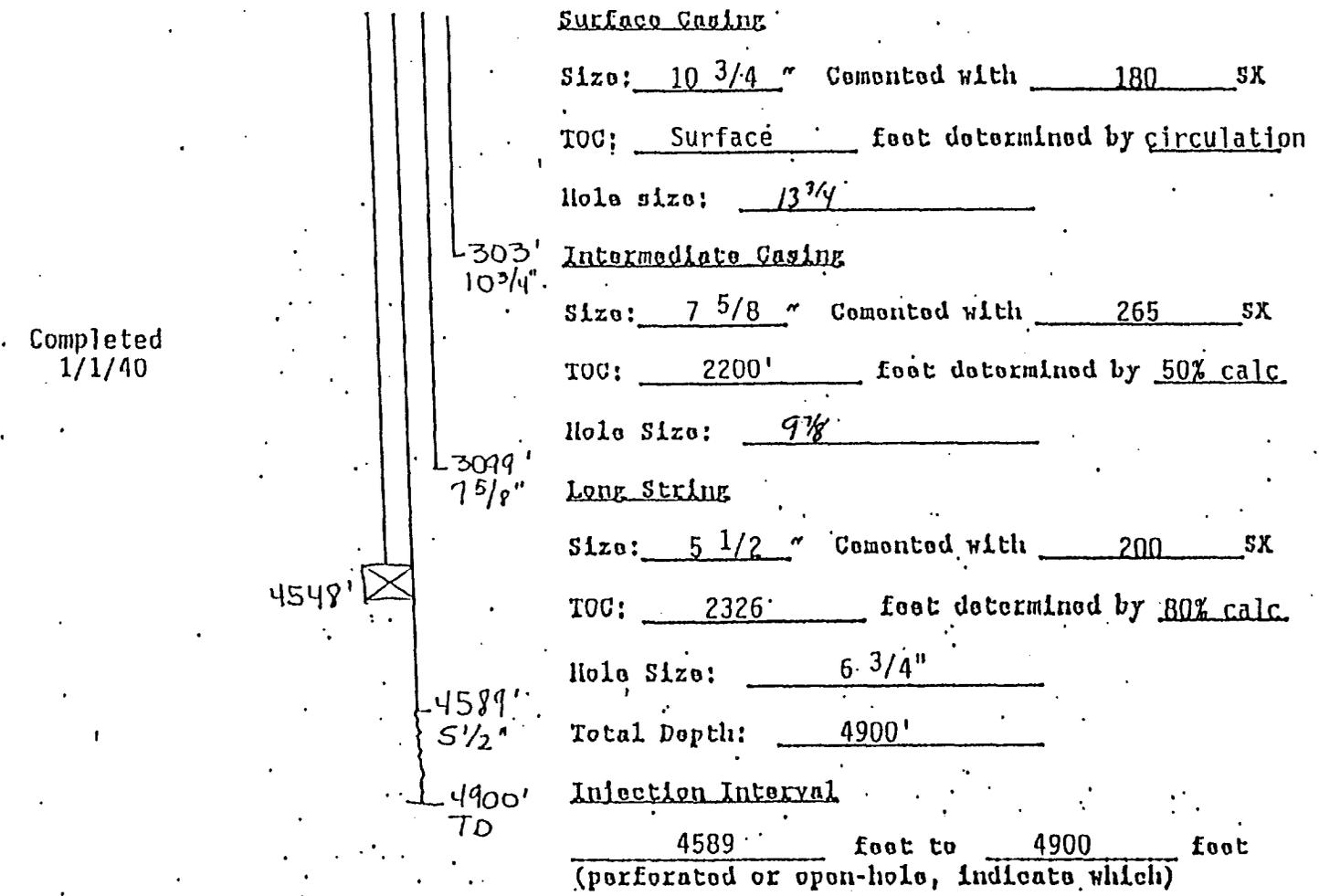
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

#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 foot to 4900 foot
 (perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC set in a
Baker "A" Pension packer at 4548 foot.
 (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

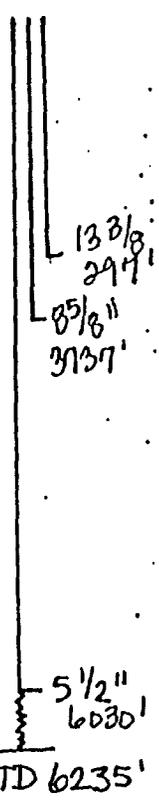
Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Open 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 (material) set in a Baker AD - 1 PC packer at 5980 feet. (brand & model) (or describe any other casing-tubing seal).

Other Data

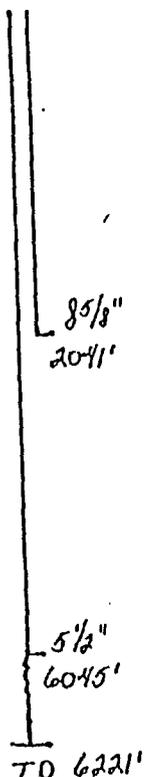
- Name of the injection formation Packer
- Name of Field or Pool (IF applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give 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		
#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 ~~5055~~ feet determined by ^{TS} ~~80%~~ ~~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

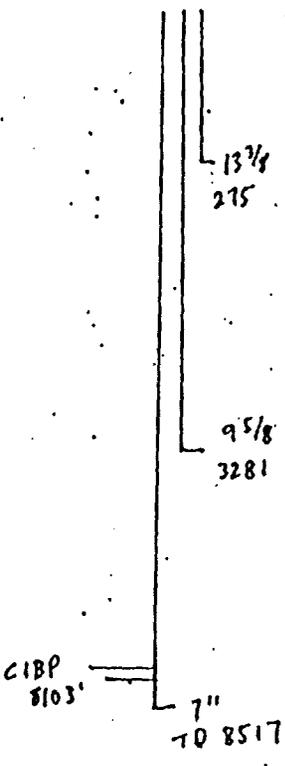
Amoco	State "E" TR 18			
OPERATOR	LEASE			
16	330' FNL & 990' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

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 calc
 Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX
 TOC: 1536 feet determined by TS
 Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 500 SX
 TOC: 4550 feet determined by temp survey
 Hole Size: 8-3/4"

Total Depth: 8517'

Injection Interval

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

Tubing size _____ lined with _____ 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) 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		
46	660' FNL & 990' FWL	1	17S 36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

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

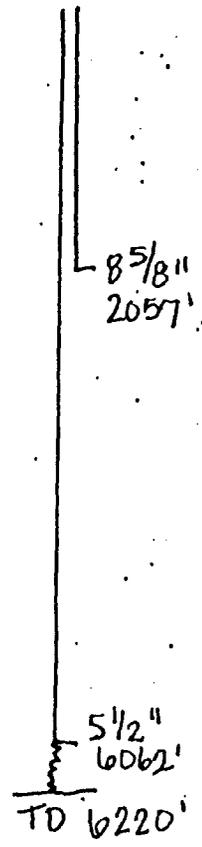
6034 feet to 6300 feet (perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a
 Baker AD - 1 PC packer at 6000 (material) 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 11-20-54
Deepen to 6300'

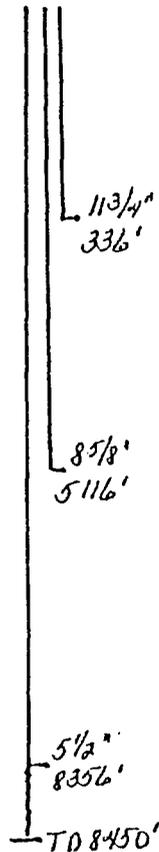


INJECTION WELL DATA SHEET

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 SX
 TOC: Surface feet determined by circulation
 Hole size: 17 1/4

Intermediate Casing

Size: 8 5/8" Cemented with 500 SX
 TOC: 1597 feet determined by 50% calc.
 Hole Size: 12"

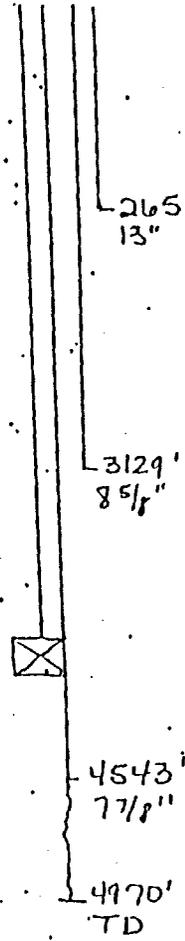
Long String

Size: 5 1/2" Cemented with 300 SX
 TOC: 2910 feet determined by 80% calc.
 Hole Size: 7 7/8 "

Total Depth: 4970'

Injection Interval

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



Completed 12/2/39

Tubing size 2" lined with IPC set in a (material)
Baker Model A packer at 4485 foot.
 (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

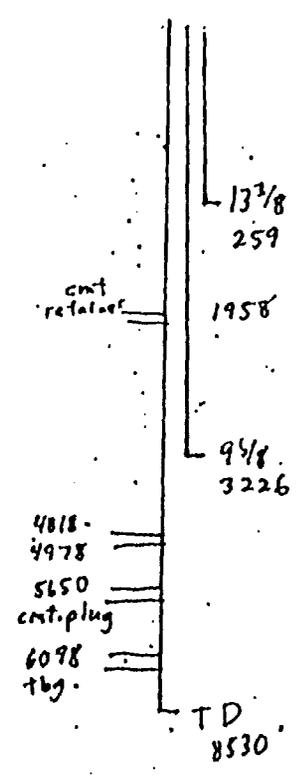
INJECTION WELL DATA SHEET

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 75
 Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with 550+550 cu ft SX
 TOC: 4975 feet determined by perlite 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) _____ feet.
 _____ 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 Production
 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.
Above Drinkard

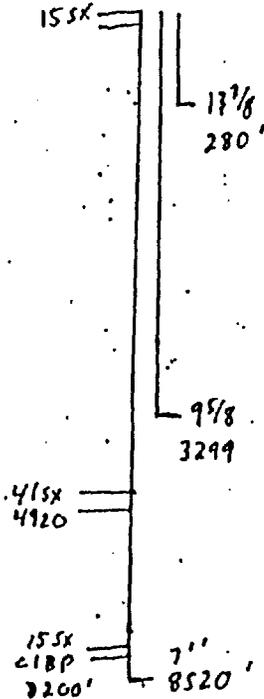
INJECTION WELL DATA SHEET

Penrod		State E TR 18		
OPERATOR		LEASE		
20	1650' ENL. & 330' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEG.	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 Calc
 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 + 500 cu. ft perlite
 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).

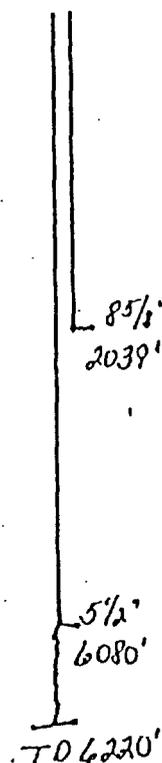
Other Data

- Name of the injection formation No
- 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 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: 3647 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

- 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

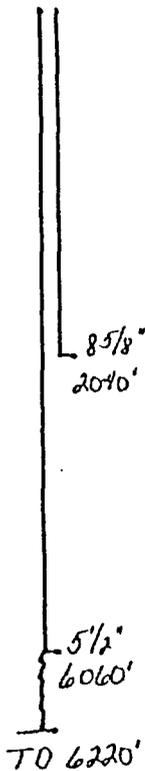
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE		
#60	1980' FNL & 2310' FWL	1	17S 36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Spud Date
10-11-54



Surface Casing

Size: 8-5/8" Cemented with 1200 SX
 TOC: Surface feet determined by ^{CIRC} caliper
 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 ^{file} survey
 Hole size: 7 1/8

Total Depth: 6220'

Injection Interval

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

Tubing size - lined with IPC set in a - packer

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

Other Data

- 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

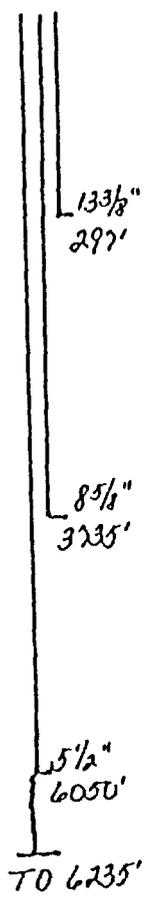
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#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: ¹⁰²⁸Surface 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

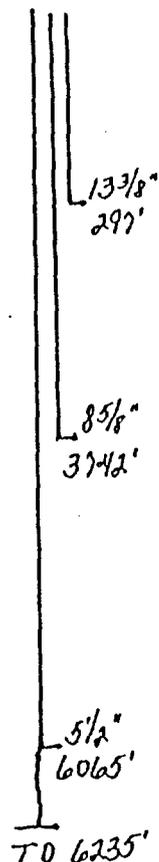
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

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: 1 7/8"

Intermediate Casing

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

TOC: 588 feet determined by temp survey

Hole size: 1 1/2"

Long String

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

TOC: 3795 feet determined by temp survey

Hole size: 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

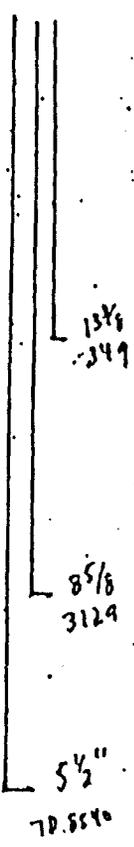
- Name of the injection formation:
 - Name of Field or Pool (If applicable) Paddock
 - Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 - Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give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

Tubular Data

Completed
6-13-52



Surface Casing

Size: 1 3/8 " Cemented with 300 SX
 TOC: Surface feet determined by calc
 Hole size: 1 7/2

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~~ ~~5420~~ feet to 6187 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a
 (material)
 packer at 6018 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

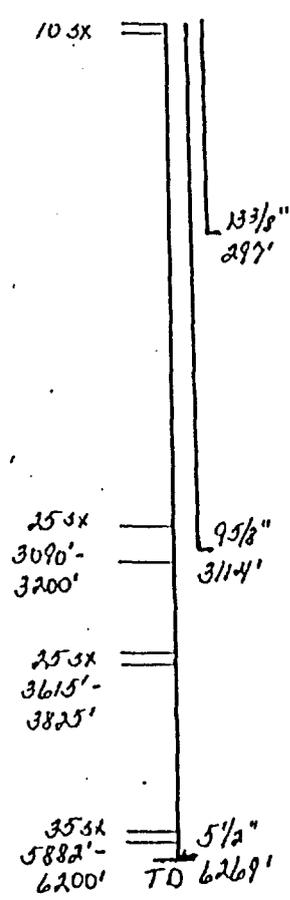
INJECTION WELL DATA SHEET

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 ^{circ}gate
Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with ¹⁵⁵⁰~~1200~~ SX
TOC: Surface feet determined by ^{circ}gate
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

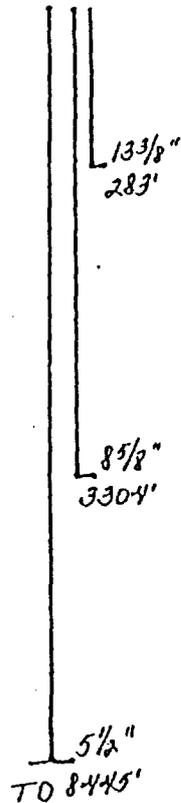
1. Name of the injection formation:
 2. Name of Field or Pool (If applicable) Lovington Paddock
 3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

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

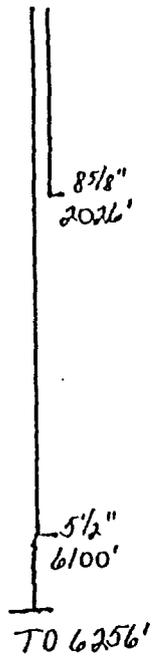
Greenhill Petroleum Corporation

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

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

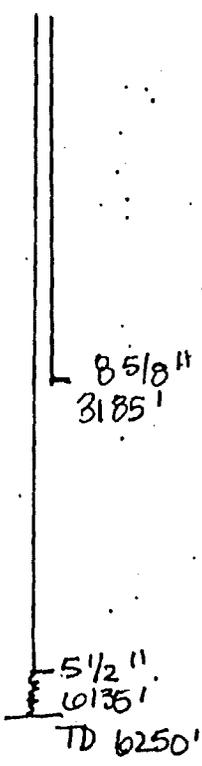
- Name of the injection formation: Paddock
 - Name of Field or Pool (If applicable) Paddock
 - Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
 - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

Spud Date
2-6-54



Surface Casing
 Size: 8 5/8 " Cemented with 1595 SX
 TOC: Surface feet determined by calc
 Hole size: 1 1/2

Intermediate Casing
 Size: _____ " Cemented with _____ SX
 TOC: _____ feet determined by _____
 Hole Size: _____

Long String
 Size: 5 1/2 " Cemented with 435 SX
 TOC: 3537 feet determined by temp survey
 Hole Size: 7 7/8
 Total Depth: 6250'

Injection Interval
6135 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 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

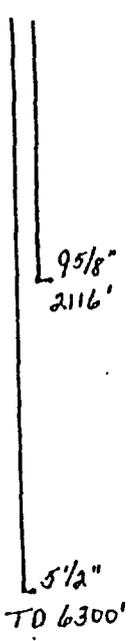
INJECTION WELL DATA SHEET

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'

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

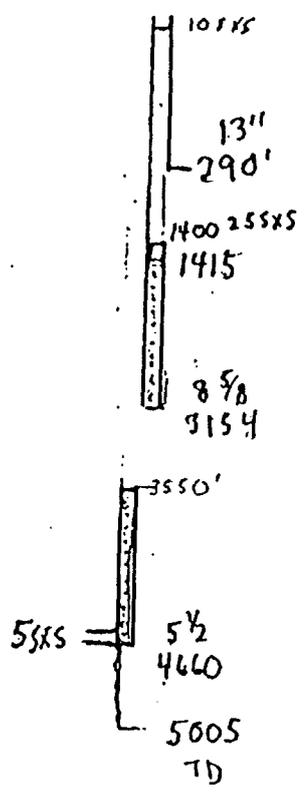
Samedan Oil Corp.
OPERATOR

Caylor
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 Data

P&A
10/25/39



Surface Casing

Size: 13" Cemented with 250 SX

TOC: Surface feet determined by circulation

Hole size: 15

Intermediate Casing

Size: 8 5/8" Cemented with 500 SX

TOC: feet determined by

Hole Size: 10

Long String

Size: 5 1/2" Cemented with 200 SX

TOC: 2814 feet determined by 80% calc

Hole Size: 7

Total Depth: 5005

Injection Interval

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

Tubing size lined with 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.

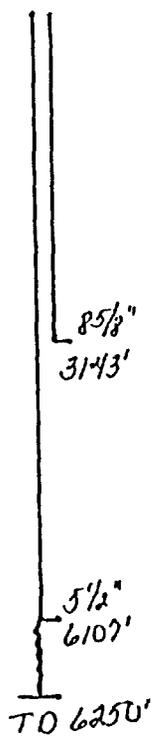
INJECTION WELL DATA SHEET

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

- 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
LEASE

#50
WELL NO.

1980' FSL & 660' FWL
FOOTAGE LOCATION

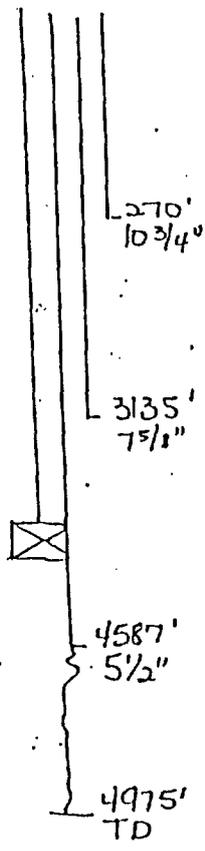
6
SEC.

17S
TOWNSHIP

37E
RANGE

Tubular Data

Completed
10-2-39



Surface Casing

Size: 10-3/4" Cemented with 200 SX

TOC: Surface feet determined by circ

Hole size: 13-3/4"

Intermediate Casing

Size: 7-5/8" Cemented with 400 SX

TOC: 1026 feet determined by calc

Hole Size: 9-7/8"

Long String

Size: 5-1/2" Cemented with 175 SX

TOC: 2611 feet determined by calc

Hole Size: 6-3/4"

Total Depth: 4975'

Injection Interval

4587 feet to 4975 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC 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

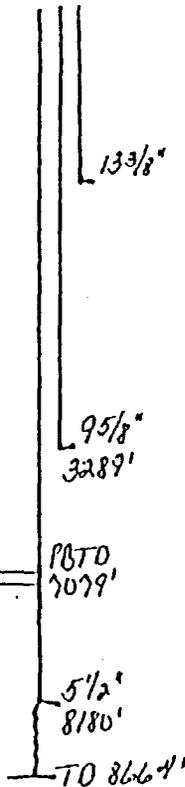
INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
1-23-54

This has previously been identified as a problem well pursuant to ORDER 9431 and will be corrected in the near future.



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17 1/2"

Intermediate Casing

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

TOC: 2497 feet determined by 70% calc

Hole size: 12 1/2"

Long String

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

TOC: feet determined by temp survey

Hole size: 8 3/4"

Total Depth: 8664'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

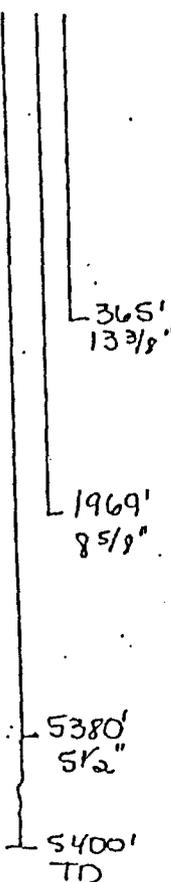
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging 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		
#61	2545' FNL & 100' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEG.	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

- 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
OPERATOR

Lovington San Andres
LEASE

#48 1980' FSL & 1980' FEL 1 17S 36E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 2251 feet determined by calc

Hole size: 12"

Long String

Size: 7 " Cemented with 225 SX

TOC: 3119 feet determined by calc

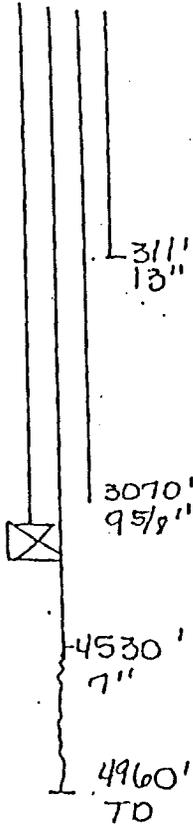
Hole size: 8-3/4"

Total Depth: 4960'

Injection Interval

4530 feet to 4960 feet
(perforated or open-hole, indicate which)

Completed
-21-39



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

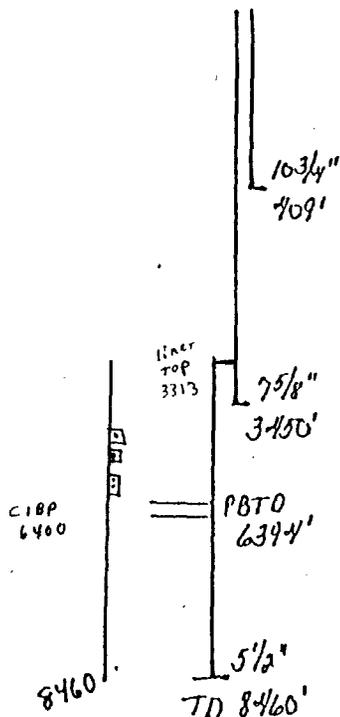
1. Name of the injection formation San Andres
2. Name of Field or Pool (IF applicable) Lovington San Andres
3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever be perforated in any other zone(s)? List all such perforated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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#65	2310' FSL & 2310' FEL	I	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)

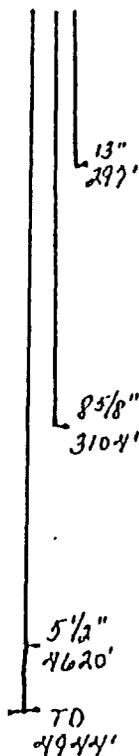
Tubing size 2 3/8 lined with IPC set in a - packer
 at 6050 feet. (Or describe any other casing-tubing seal).

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
-
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		
47	1980' FNL & ¹⁹⁸⁰ 1986' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
7-6-39Converted
to Injection
8-6-69Surface 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 Interval4620 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

- 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 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

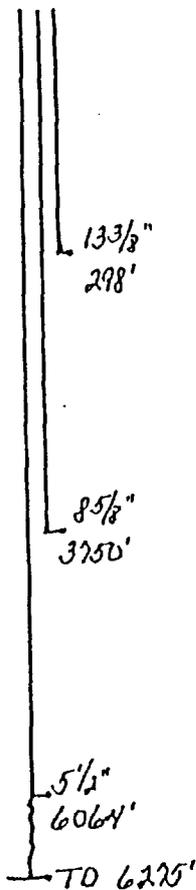
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
12-18-53

Converted to
Injection 12/66



Surface Casing

Size: 13-3/8" Cemented with ²⁹⁵~~300~~ SX

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

Hole size: 1 7/8"

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}~~calc~~

Hole size: 7-7/8"

Total Depth: 6275'

Injection Interval

6064 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

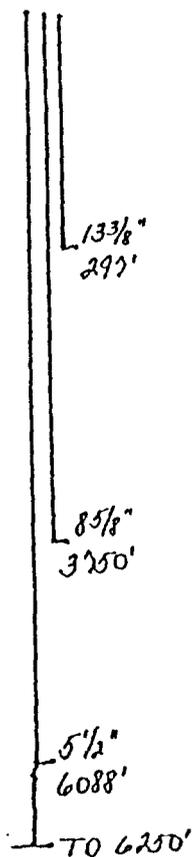
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation Lovington Paddock

OPERATOR	LEASE	
#63	1980' FSL & 990' FWL	1 17S 36E
WELL NO.	FOOTAGE LOCATION	SEC. TOWNSHIP RANGE

Tubular Data

Spud Date
5-19-53



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: 879 feet determined by temp survey

Hole size: 11

Long String

Size: 5-1/2" Cemented with ~~500~~⁶⁰⁰ SX

TOC: ~~3364~~³⁷⁴³ feet determined by ~~80%~~^{TS} calc

Hole size: 7-7/8"

Total Depth: 6250'

Injection Interval

6088 feet to 6250 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with JPC set in a packer at 6025 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

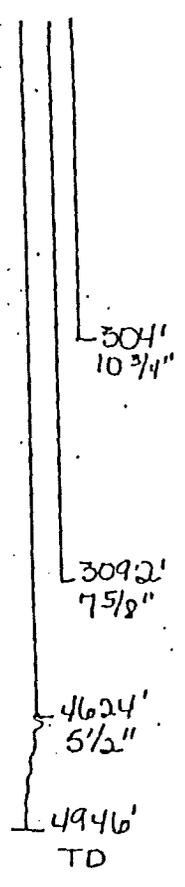
Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#46	660' FWL & 1980' FSL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-7-41

P&A'd
5-22-87

116 5 1/2" casing 2485-4150
200 SRS.
5 1/2" out 2400'
170 SRS. 2450-2850
np 880 SRS. Displaced down
170 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

INJECTION WELL DATA SHEET

Texaco OPERATOR G. S. Caylor LEASE

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

Tubular Data

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

Surface Casing
Size: 13-3/8" Cemented with 250 SX
TOC: Surface feet determined by circ calc
Hole size: 17-1/4"
Intermediate Casing
Size: 8-5/8" Cemented with 1800 SX
TOC: Surface feet determined by circ calc
Hole Size: 12-1/4"
Long String
Size: 5-1/2" Cemented with 600 SX
TOC: 4377 feet determined by 80% calc
Hole Size: 7-7/8"
Total Depth: 8665'

13 3/8
244'
8 5/8
3253
7915
PBTB
5 1/2
8200
TD
8665

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

Dec 27
Sg 2 5 1/2 of 4981 E
5042 w/10057
Perf 38 57
May 80
Sg 2 5 1/2 from 5010 to
4995 w/5057

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

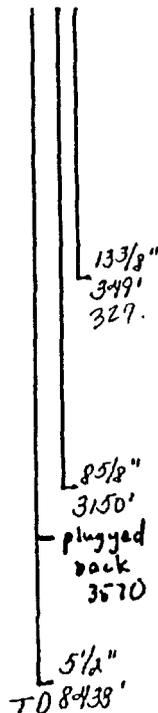
- Other Data
1. Name of the injection formation
2. Name of Field or Pool (if applicable) Lovington Abo
3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever be perforated in any other zone(s)? List all such perforated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

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
sidetracked5 1/2" r.t. at 5297
30 SX below 170 above
TOC 3570Surface CasingSize: 13-3/8" Cemented with 300 SX
Circ
TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate CasingSize: 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



GREENHILL PETROLEUM CORPORATION

11490 WESTHE MER ROAD SUITE 200
HOUSTON, TEXAS 77077-6641
TELEPHONE (713) 589-8484
FAX (713) 589-7887

Incorporated in Delaware U.S.A.

April 27, 1992

Texaco, U. S. A.
P. O. Box 3109
Midland, Texas 79702

Attention: Mr. Keith Williams

RE: Application with New Mexico Oil
Conservation Division
Lovington San Andres Unit
Lea County, New Mexico

Gentlemen:

Enclosed please find a copy of the application with the New Mexico Oil Conservation Division whereby Greenhill Petroleum Corporation proposes to convert the following wells from producers to injection wells in the Lovington San Andres Area:

Lovington San Andres #8, #11, #20, #23, #38, and #42

We are required by the Commission to notify Operators within our area of review.

Please contact me in the event you have additional questions.

Very truly yours,

Michael J. Newport
Land Manager/Permian Basin

MJN/jem
92.296

Enc.

THIS INFORMATION WAS RECEIVED BY TEXACO, U.S.A., ON
THIS THE _____ DAY OF APRIL, 1992.

BY: _____



GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200
HOUSTON, TEXAS 77077-6841
TELEPHONE (713) 569-8484
FAX (713) 569-7892

Incorporated in Delaware, U.S.A.

May 1, 1992

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

Attention: Mr. Ben Stone

RE: Proof of Publication
Lovington San Andres Area
Wells #8, #11, #20, #23, #38, and #42
Lea County, New Mexico

Gentlemen:

Enclosed please find the proof of publication and return receipts for the application to convert the following wells from producers to injection wells:

Lovington San Andres Wells
#8, #11, #20, #23, #38, & #42

Please inform me if you need additional information.

Very truly yours,

Michael J. Newport
Land Manager/Permian Basin

MJN/jem
92.308

Enc.

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

Mar. 8, 1992
and ending with the issue dated

Mar. 8, 1992

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 10 day of

March, 1992

Paula Parris
Notary Public.

My Commission expires _____

Aug. 5, 1995

(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

March 8, 1992

Greenhill Petroleum Corporation, 11490 Westheimer, Suite 200, Houston, Texas 77077-Phone (713) 589-8484 Contact: Michael J. Newport. Greenhill Petroleum corporation plans to convert the following producing wells to injection wells within the Lovington San Andres Field Area. The purpose of the produced injection wells is to increase the reservoir pressure in order to improve the recovery of hydrocarbons. The location of the proposed wells are the following Well Numbers within Sections 31 T16S-R37E, 36 T16S-R36E, 1 T17S-36E and 6 T17S-R37E, Lea County, New Mexico, Well Number 8, 11, 20, 23, 38, and 42. The injection intervals are approximately between the depths of 4,334 feet and 5,240 feet as seen in the Amerada Sitate "LA" Number 9. The maximum injection rates and pressures 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, New Mexico 87501, within fifteen (15) days.

DOMESTIC RETURN RECEIPT

5-8-82c usps

PS Form 3811, April 1989

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. Future to do this will prevent this card from being returned to you. Return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional services are available. Consult the master for fees and check boxes for additional services requested.

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

3. Article Addressed to: **Mr. & Mrs. Robert Rice**
RD #3, Box 2254
Birdsboro, Pennsylvania 19306

4. Article Number: **P-375-330-331**

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: *Robert Rice*

6. Signature - Agent: _____

7. Date of Delivery: **4/2/92**

8. Addressee's Address (ONLY if requested and fee paid):
**LSA #8 #11,
 #20, #23,
 #38, #42**

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. Future to do this will prevent this card from being returned to you. Return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional services are available. Consult the master for fees and check boxes for additional services requested.

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

3. Article Addressed to: **CITY OF LOVINGTON**
P. O. Box 1268
Lovington, New Mexico 88260

4. Article Number: **P-375-330-332**

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: _____

6. Signature - Agent: *Carroll M. Hogue*

7. Date of Delivery: **4-3-92**

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

PS Form 3811, April 1989

5-8-82c usps

DOMESTIC RETURN RECEIPT