

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  
If yes, give the Division order number authorizing the project R 3124.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Michael J. Newport Title Land Manager-Permian Basin  
Signature: *Michael Newport* Date: 3-1-92
- \* 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.

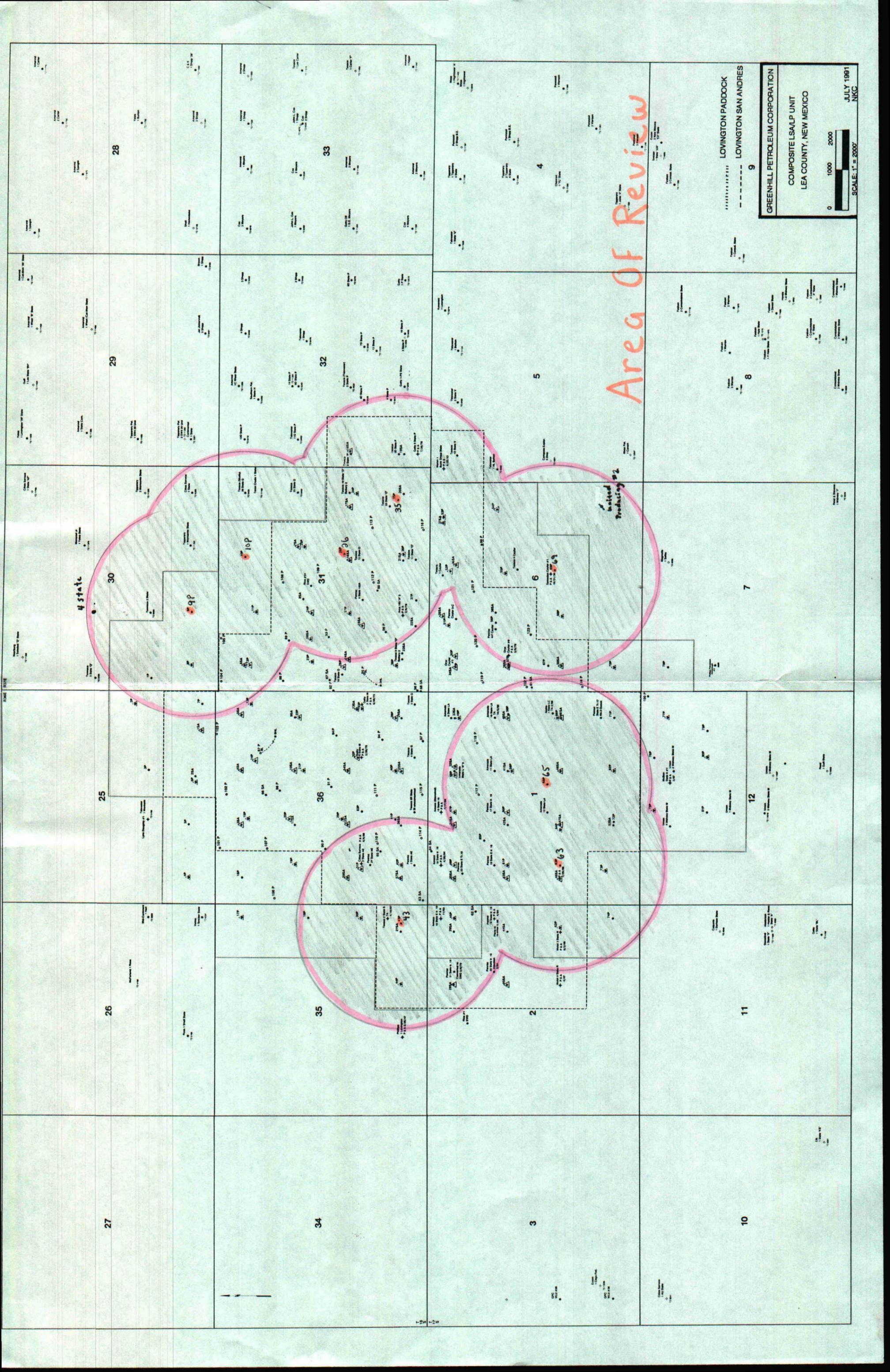
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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.

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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.



Area Of Review

LOVINGTON PADDOCK  
LOVINGTON SAN ANDRES

GREENHILL PETROLEUM CORPORATION  
COMPOSITE LS&LP UNIT  
LEA COUNTY, NEW MEXICO  
JULY 1981  
SCALE: 1" = 2000'

State

United Production #2

28

29

30

25

26

27

33

32

31

36

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34

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5

6

1

2

3

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VII

1. The proposed average and maximum daily rate and volume to be injected are 2000 PSI and 1500 BWPD.
2. The system will be a closed system.
4. The sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water is attached hereto as Exhibit "A".

"A"

### WATER ANALYSIS REPORT

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

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

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

#### PROBABLE MINERAL COMPOSITION

---

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

REMARKS:  
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Petrolite Oilfield Chemicals Group

Respectfully submitted,  
 D. SWEATT

"A"

WATER ANALYSIS REPORT

Company : GREENHILL PETROLEUM  
 Address : LOVINGTON, NM  
 Lease : SENE SEC 2 T17S R36E  
 Well : S. A. #44  
 Sample Pt. : WINDMILL

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

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	7.5			
2. H2S	0			
3. Specific Gravity	1.001			
4. Total Dissolved Solids		2222.8		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	244.0	HCO3	4.0
12. Chloride	Cl	917.6	Cl	25.9
13. Sulfate	SO4	325.0	SO4	6.8
14. Calcium	Ca	720.0	Ca	35.9
15. Magnesium	Mg	0.5	Mg	0.0
16. Sodium (calculated)	Na	15.7	Na	0.7
17. Iron	Fe	0.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		1800.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	= mg/L
+-----+	+-----+			
36	*Ca <----- *HCO3	Ca(HCO3)2	81.0	4.0 324
	/----->	CaSO4	68.1	6.8 461
0	*Mg -----> *SO4	CaCl2	55.5	25.2 1396
	<-----/	Mg(HCO3)2	73.2	
1	*Na -----> *Cl	MgSO4	60.2	
		MgCl2	47.6	0.0 2
		NaHCO3	84.0	
		Na2SO4	71.0	
		NaCl	58.4	0.7 40

Saturation Values Dist. Water 20 C

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

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,  
 D. SWEATT

## VIII Geologic Data

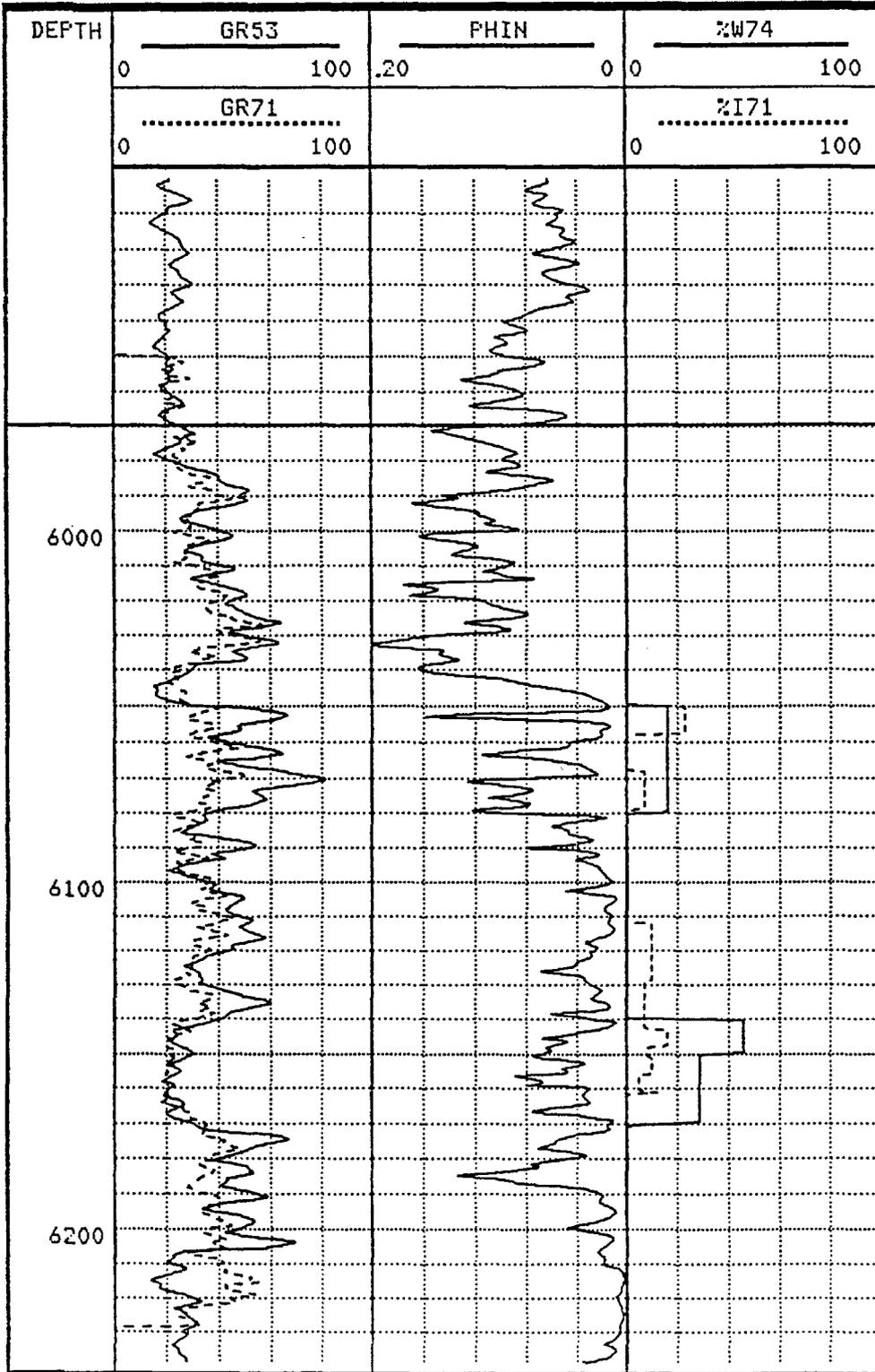
The zone of interest for this application to inject is the Paddock interval of the Glorieta Formation. In the area of the Lovington Field Paddock Unit, the Paddock interval is found at an average depth of 6150' and consists of light brown, finely crystalline dolomite, with thin lenticular fine-grained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

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

WELL NAME - SKELLY STATE 0#19 (LPF#36)  
 LOCATION - 660 FSL 2160 FEL 31-16S-37E  
 WELL DATA - KB, ELEV. DF 3816, TD 6245, 5-1/2 6050  
 LOGS - LANE RA 12-6-53  
 LOG PARAMETERS-

DATA FILE NAME: b:lpf36.cm1

DATE OF PLOT: 10/ 3/1990



TOP GLORIETA Fm

INJECTION  
PROFILE

INJECTION  
PROFILE

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

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

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

81  
Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

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

LABORATORY NO. 1189311  
SAMPLE RECEIVED 11-27-89  
RESULTS REPORTED 12-4-89

COMPANY Greenhill Petroleum Corporation LEASE Lovington San Andres Unit  
FIELD OR POOL Lovington  
SECTION      BLOCK      SURVEY      COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from injection pump discharge. 11-27-89  
NO. 2       
NO. 3       
NO. 4     

REMARKS:

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

Results Reported As Milligrams Per Liter

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

Form No. 3

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

By Waylan C. Martin  
Waylan C. Martin, M.A.



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
<b>Components:</b>						
<b>CATIONS</b>						
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
<b>ANIONS</b>						
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
<b>Tot. Dissolved Solids</b>	<b>950.59</b>	<b>7679.63</b>	<b>19791.90</b>	<b>21137.71</b>	<b>27866.75</b>	<b>34595.79</b>
Measured pH Values	7.00		6.70			
1/H+ = 10 <sup>-pH</sup>	10000000		5011872.34			
H+ = 1/10 <sup>-pH</sup>	.0000001	.0000001355	.0000001995	.000000207	.000000242	.000000278
1/H+ = 10 <sup>-pH</sup>		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
<b>u =</b>		<b>.02</b>	<b>.15</b>	<b>.40</b>	<b>.42</b>	<b>.56</b>	<b>.69</b>

Calcium Carbonate Stability Index (Cont.)

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

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

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

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

Look Up K:

K for 80F	2.06	2.60	3.07	3.08	3.21	3.29
K for 120F	1.68	2.16	2.56	2.58	2.70	2.78

Calculated pCa	2.46	1.79	1.41	1.38	1.27	1.18
Calculated pAlk	2.44	1.90	1.54	1.52	1.41	1.32

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

$SI = pH - (K + pCa + pAlk)$

(K + pCa + pAlk)

At 80F =	6.96	6.29	6.02	5.98	5.88	5.78
At 120F =	6.58	5.85	5.51	5.48	5.37	5.27

CaCO3 SI =

At 80F =	<u>.04</u>	<u>.57</u>	<u>.68</u>	<u>.70</u>	<u>.73</u>	<u>.77</u>
At 120F =	<u>.42</u>	<u>1.0</u>	<u>1.19</u>	<u>1.20</u>	<u>1.24</u>	<u>1.28</u>

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

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

CO<sub>3</sub> I<sub>s</sub> ACROSS SYSTEM

Calculation of Oddo & Thomson CaCO<sub>3</sub> Scaling Index - I<sub>s</sub>  
 Two Phase System (Water & Gas)  
 Oddo and Thomson Method  
 Lovington San Andres Unit  
 Paragon Engineering Services

Water: Calculated produced water composition. See CaCO<sub>3</sub> calculation.  
 Analysis: Martin Water Laboratories, Inc. No. 1188286  
 Date Reported: 12/07/88.  
 Approximate Location in System: Reservoir

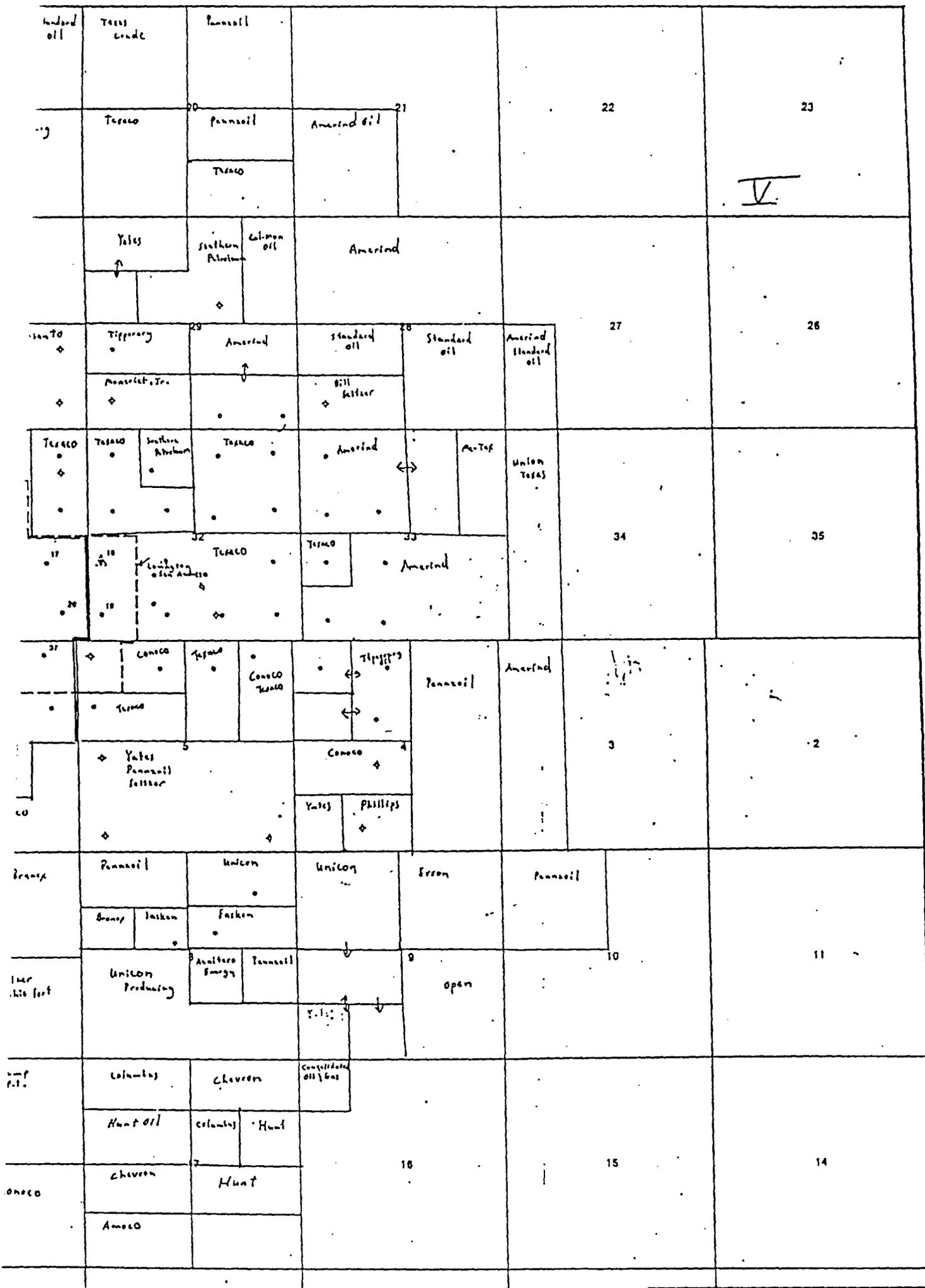
$$I_s = D + (1.549 \times 10^{-2} \times T) - (4.26 \times 10^{-6} \times T^2) - (7.44 \times 10^{-5} \times P) + 0.919u - 2.52(u)^{0.5} + 5.89$$

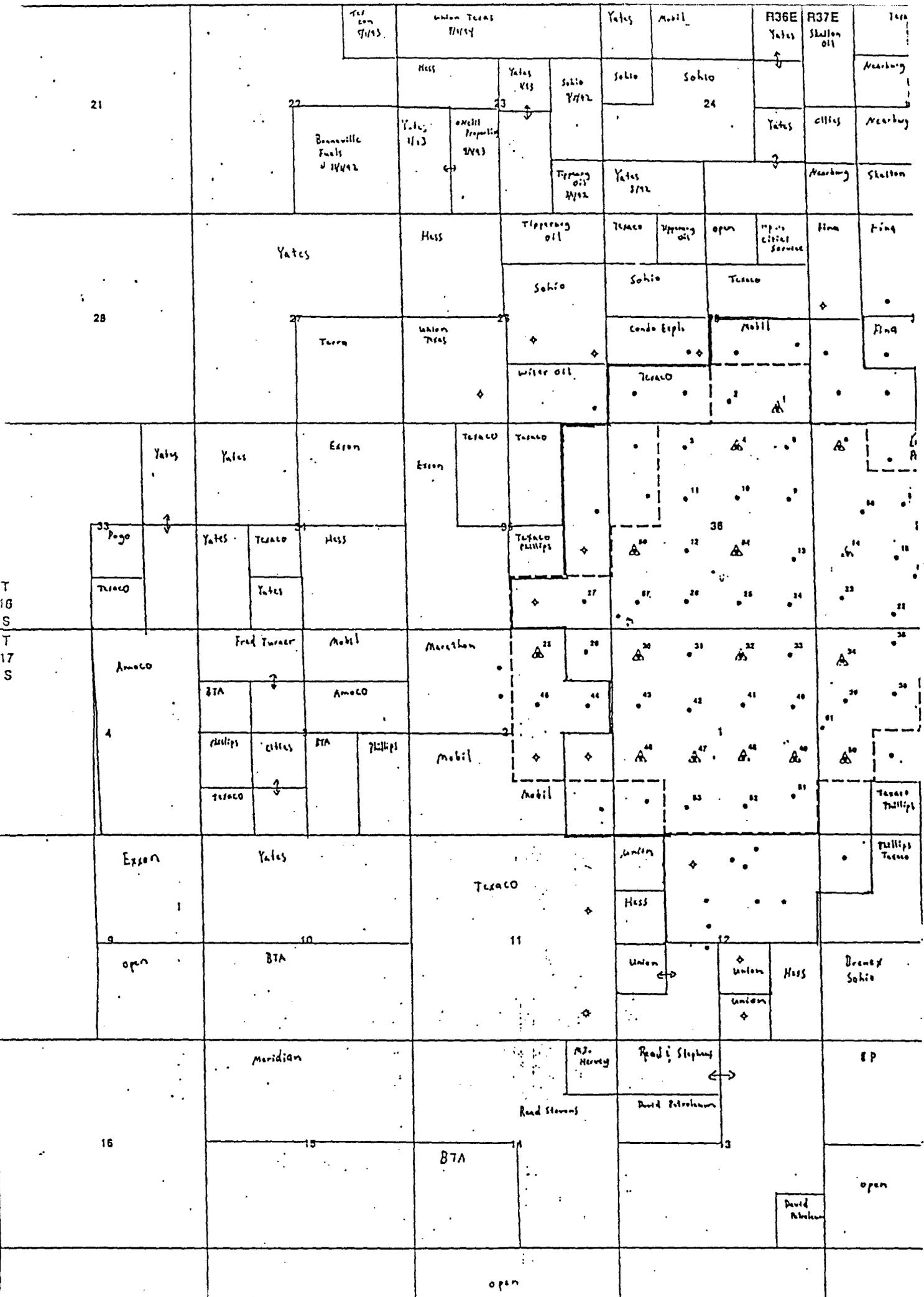
- P = 2000.00 psia
- X = .05 Mole Fraction CO<sub>2</sub>
- Ca = .066755 Moles/l
- Alk = .048211
- D = -5.80922 log[(C)(Alk)<sup>2</sup>/(P)(X)]
- T = 120.00 Temp, F
- u = .69 Molar Ionic Strength

C = Ca(mg/l)/40100 = .066755  
 Alk = (HCO<sub>3</sub> + CO<sub>3</sub>(mg/l))/61000 = .0482108  
 D = log(((C)(Alk)<sup>2</sup>/((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) <sup>0.5</sup>	.8306624	-2.52	=	-2.09
				5.89

Sum = I<sub>s</sub> = .27

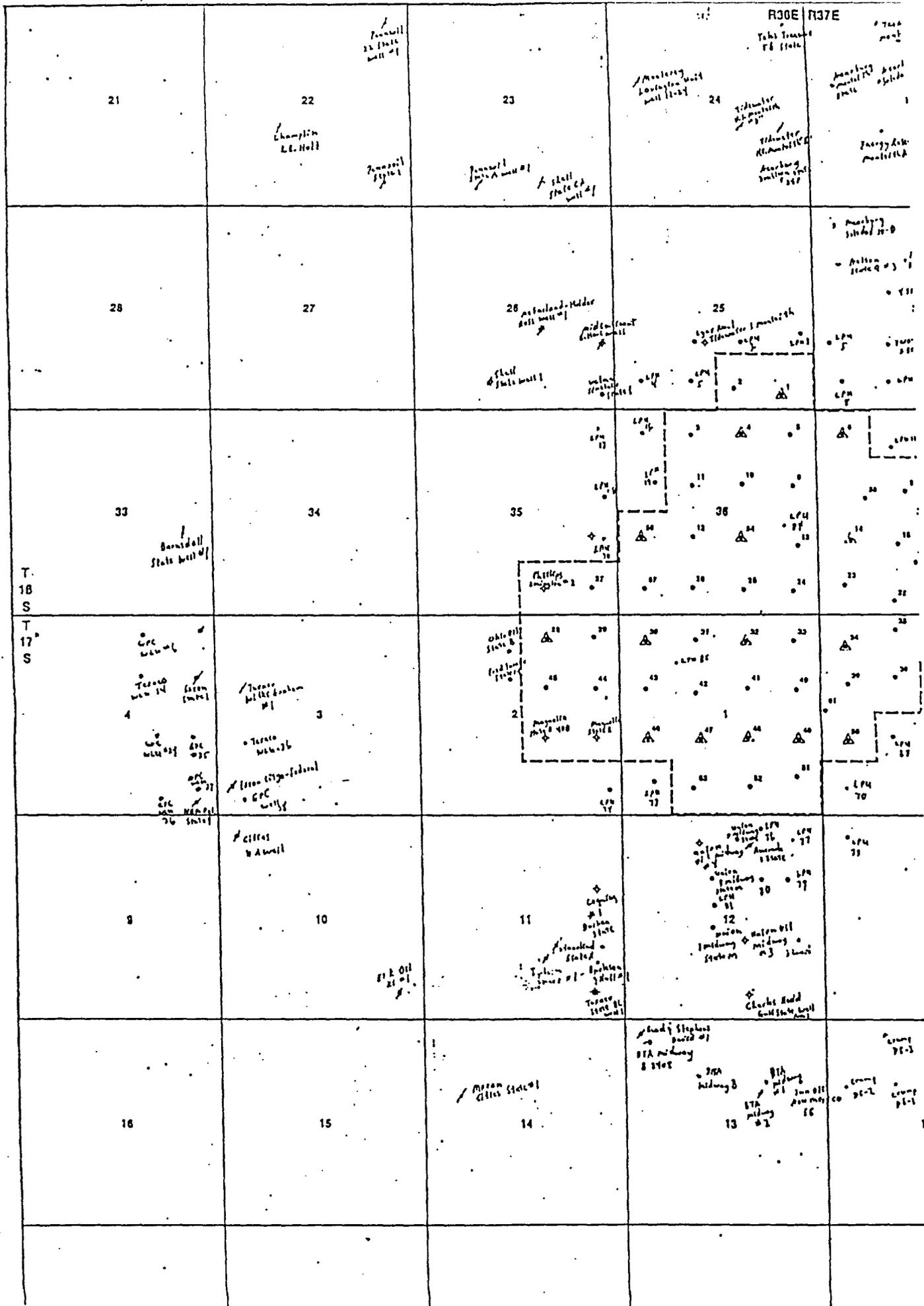




<p>20</p> <p>Amesbury Higgins Foster Amesbury</p> <p>Amesbury A</p>	<p>21</p> <p>Amesbury Springs #1</p> <p>Amesbury Springs #2</p> <p>Amesbury Springs #3</p>	<p>22</p> <p>Amesbury Springs #4</p> <p>Amesbury Springs #5</p>	<p>23</p> <p>Amesbury Springs #6</p> <p>Amesbury Springs #7</p>
<p>29</p> <p>Amesbury Springs #8</p> <p>Amesbury Springs #9</p> <p>Amesbury Springs #10</p>	<p>28</p> <p>Amesbury Springs #11</p> <p>Amesbury Springs #12</p> <p>Amesbury Springs #13</p>	<p>27</p> <p>Amesbury Springs #14</p> <p>Amesbury Springs #15</p>	<p>26</p> <p>Amesbury Springs #16</p> <p>Amesbury Springs #17</p>
<p>32</p> <p>Amesbury Springs #18</p> <p>Amesbury Springs #19</p> <p>Amesbury Springs #20</p>	<p>33</p> <p>Amesbury Springs #21</p> <p>Amesbury Springs #22</p> <p>Amesbury Springs #23</p>	<p>34</p> <p>Amesbury Springs #24</p> <p>Amesbury Springs #25</p>	<p>35</p> <p>Amesbury Springs #26</p> <p>Amesbury Springs #27</p>
<p>5</p> <p>Amesbury Springs #28</p> <p>Amesbury Springs #29</p> <p>Amesbury Springs #30</p>	<p>3</p> <p>Amesbury Springs #31</p> <p>Amesbury Springs #32</p> <p>Amesbury Springs #33</p>	<p>2</p> <p>Amesbury Springs #34</p> <p>Amesbury Springs #35</p>	<p>1</p> <p>Amesbury Springs #36</p> <p>Amesbury Springs #37</p>
<p>8</p> <p>Amesbury Springs #38</p> <p>Amesbury Springs #39</p> <p>Amesbury Springs #40</p>	<p>9</p> <p>Amesbury Springs #41</p> <p>Amesbury Springs #42</p> <p>Amesbury Springs #43</p>	<p>10</p> <p>Amesbury Springs #44</p> <p>Amesbury Springs #45</p>	<p>11</p> <p>Amesbury Springs #46</p> <p>Amesbury Springs #47</p>
<p>17</p> <p>Amesbury Springs #48</p> <p>Amesbury Springs #49</p> <p>Amesbury Springs #50</p>	<p>16</p> <p>Amesbury Springs #51</p> <p>Amesbury Springs #52</p> <p>Amesbury Springs #53</p>	<p>15</p> <p>Amesbury Springs #54</p> <p>Amesbury Springs #55</p>	<p>14</p> <p>Amesbury Springs #56</p> <p>Amesbury Springs #57</p>

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

V



**INJECTION WELL DATA SHEET**

GREENHILL PETROLEUM CORPORATION		Lovington Paddock Unit		
OPERATOR		LEASE		
9	660 FSL & 1980 FWL	30	T16S-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 1500 SX

TOC: surface feet determined by circ.

Hole Size: 11

Long String

Size: 5 1/2" Cemented with 1000 SX

TOC: 3153 feet determined by TS

Hole Size: 7 7/8

Total Depth: 6270'

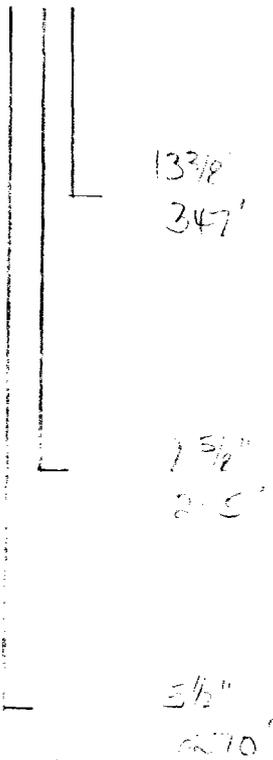
Injection Interval

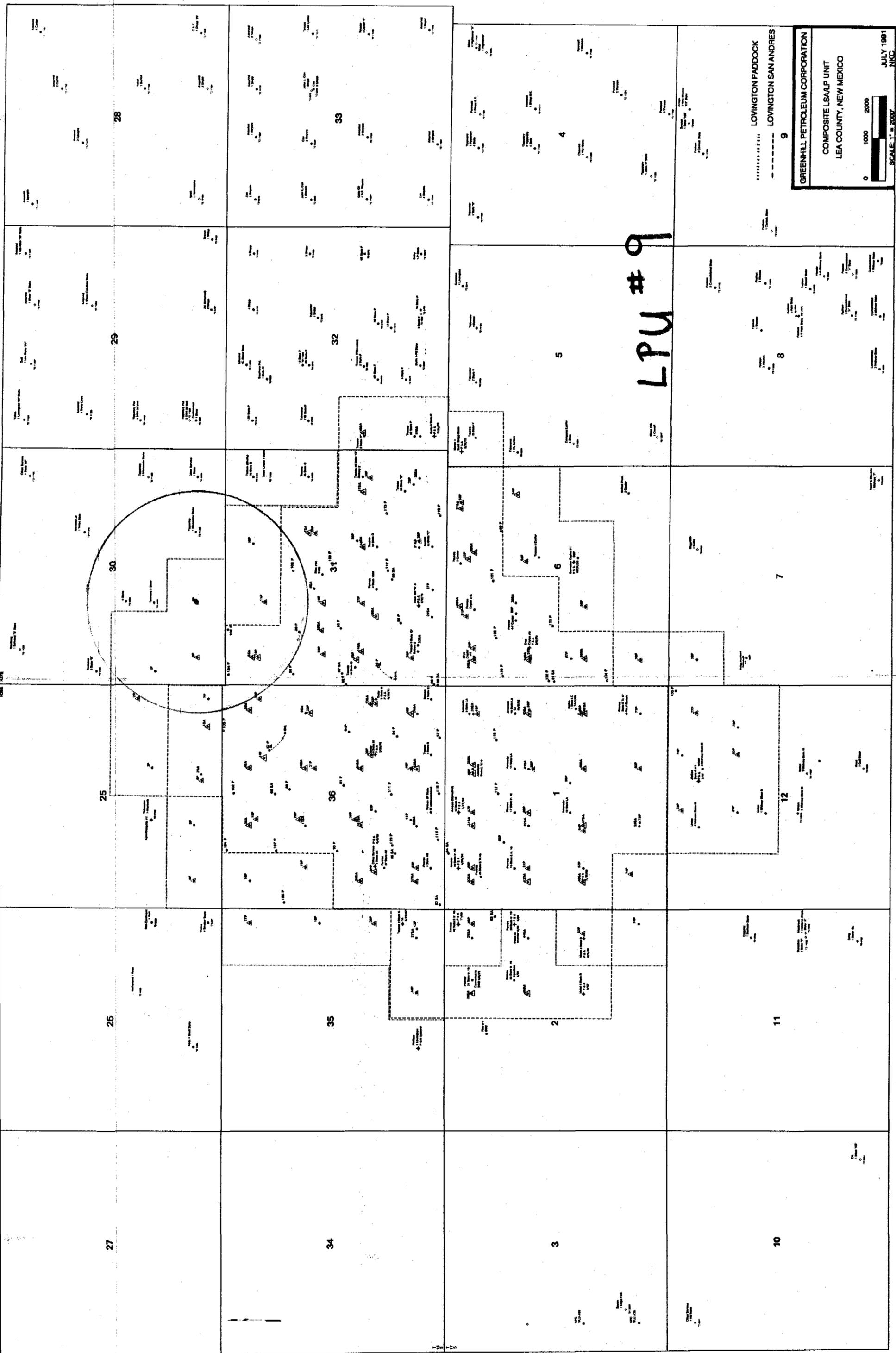
6144 feet to 6262 feet  
(perforated or open-hole, indicate which)

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

- Name of the injection formation Paddock
- 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-Glorietta





..... LOVINGTON PADDOCK  
 - - - - - LOVINGTON SAN ANDRES  
 9

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

0 1000 2000  
 SCALE: 1" = 2000'

JULY 1991  
 NSC

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 10	660' FNL & 2440' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date  
8-11-54

8 1/8"  
 3912  
  
 5 1/2"  
 6105  
  
 TD  
 6260'

Surface Casing

Size: 8-5/8" Cemented with 1500 SX  
 TOC: Surface feet determined by calc  
 Hole size: 11"

Intermediate Casing

Size: \_\_\_\_\_" Cemented with \_\_\_\_\_ SX  
 TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_  
 Hole Size: \_\_\_\_\_

Long String

Size: 5-1/2" Cemented with 300 SX  
 TOC: 4010 feet determined by Temp Survey  
 Hole Size: 7-7/8"

Total Depth: 6260'

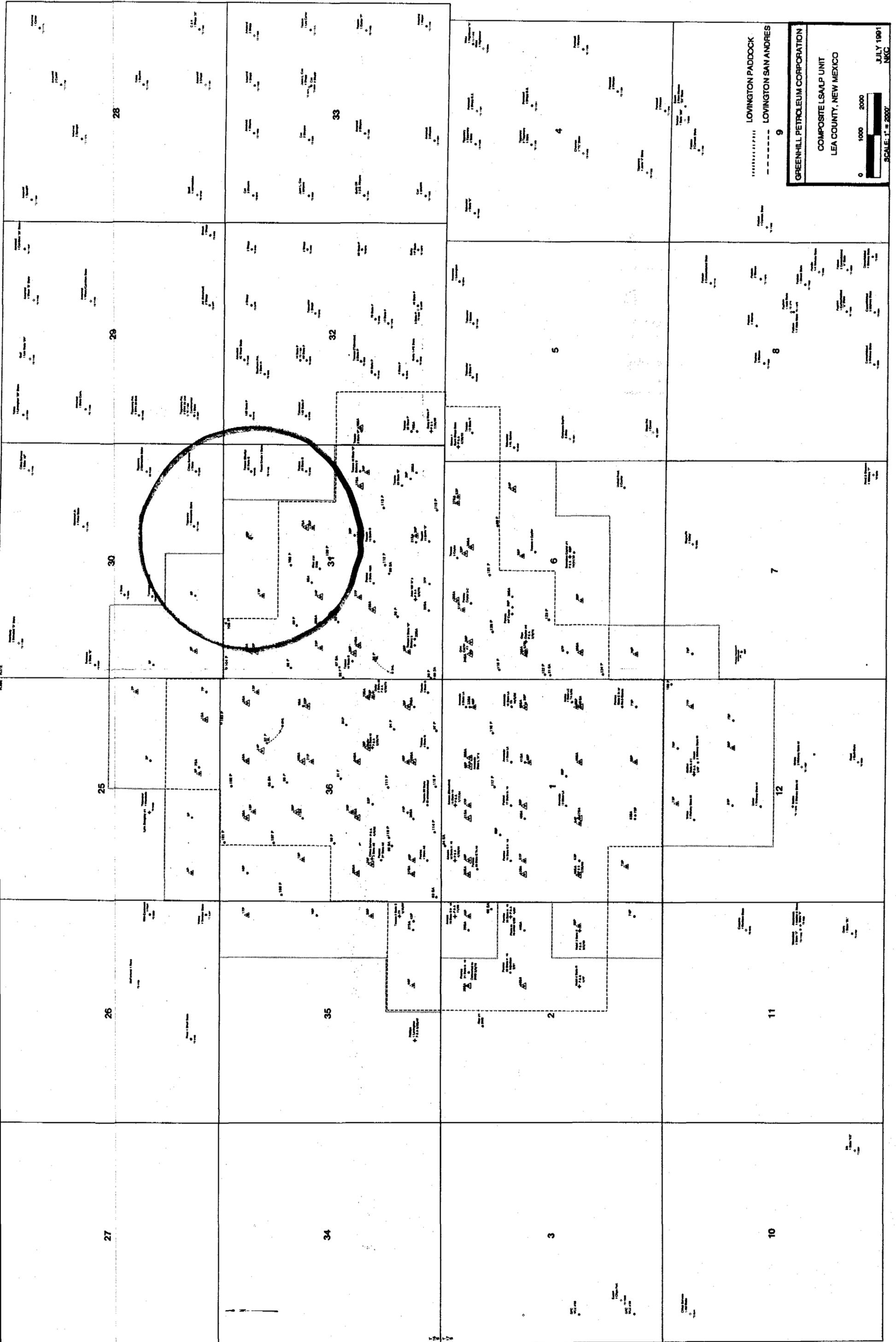
Injection Interval

\_\_\_\_\_ feet to \_\_\_\_\_ 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

- 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



..... LOVINGTON PADDOCK  
- - - - - LOVINGTON SAN ANDRES  
9

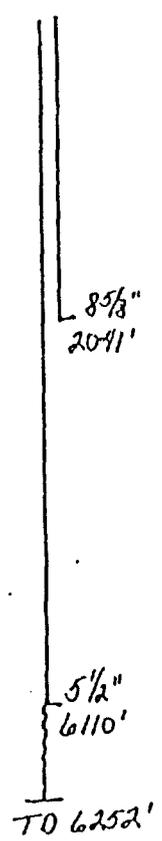
GREEN HILL PETROLEUM CORPORATION  
COMPOSITE LSA/LP UNIT  
LEA COUNTY, NEW MEXICO  
JULY 1981  
NSC  
0 1000 2000  
SCALE: 1" = 2000'

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'

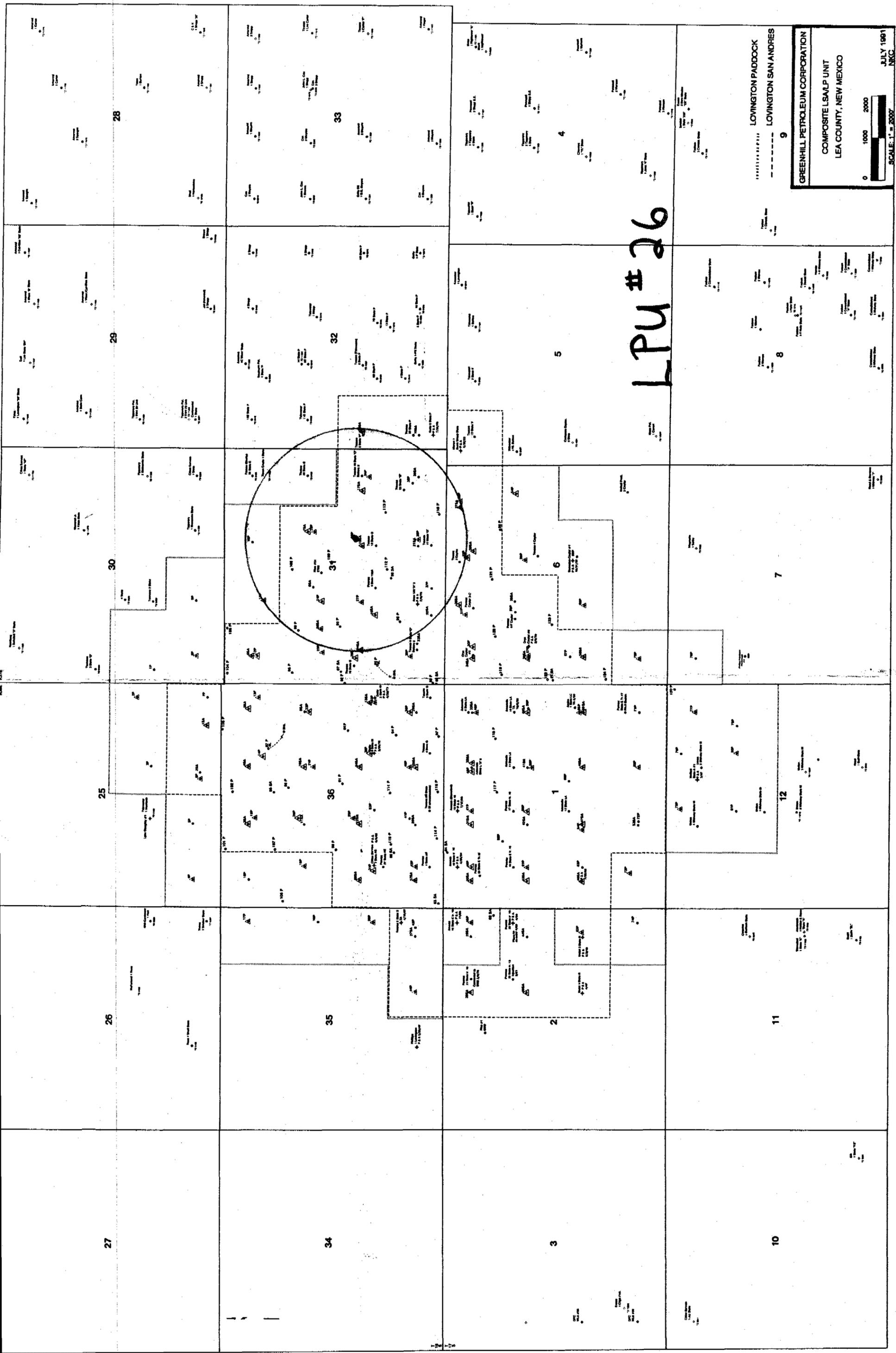
Injection Interval

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



LPU # 26

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

GREENHILL PETROLEUM CORPORATION  
COMPOSITE LSALP UNIT  
LEA COUNTY, NEW MEXICO

0 1000 2000  
SCALE: 1" = 2000'

JULY 1961  
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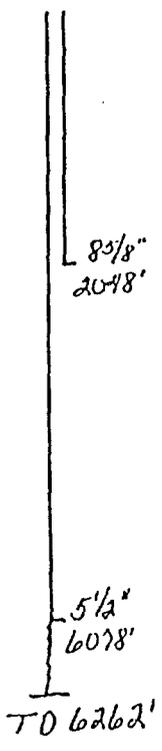
9

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 <sup>Circ</sup> 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

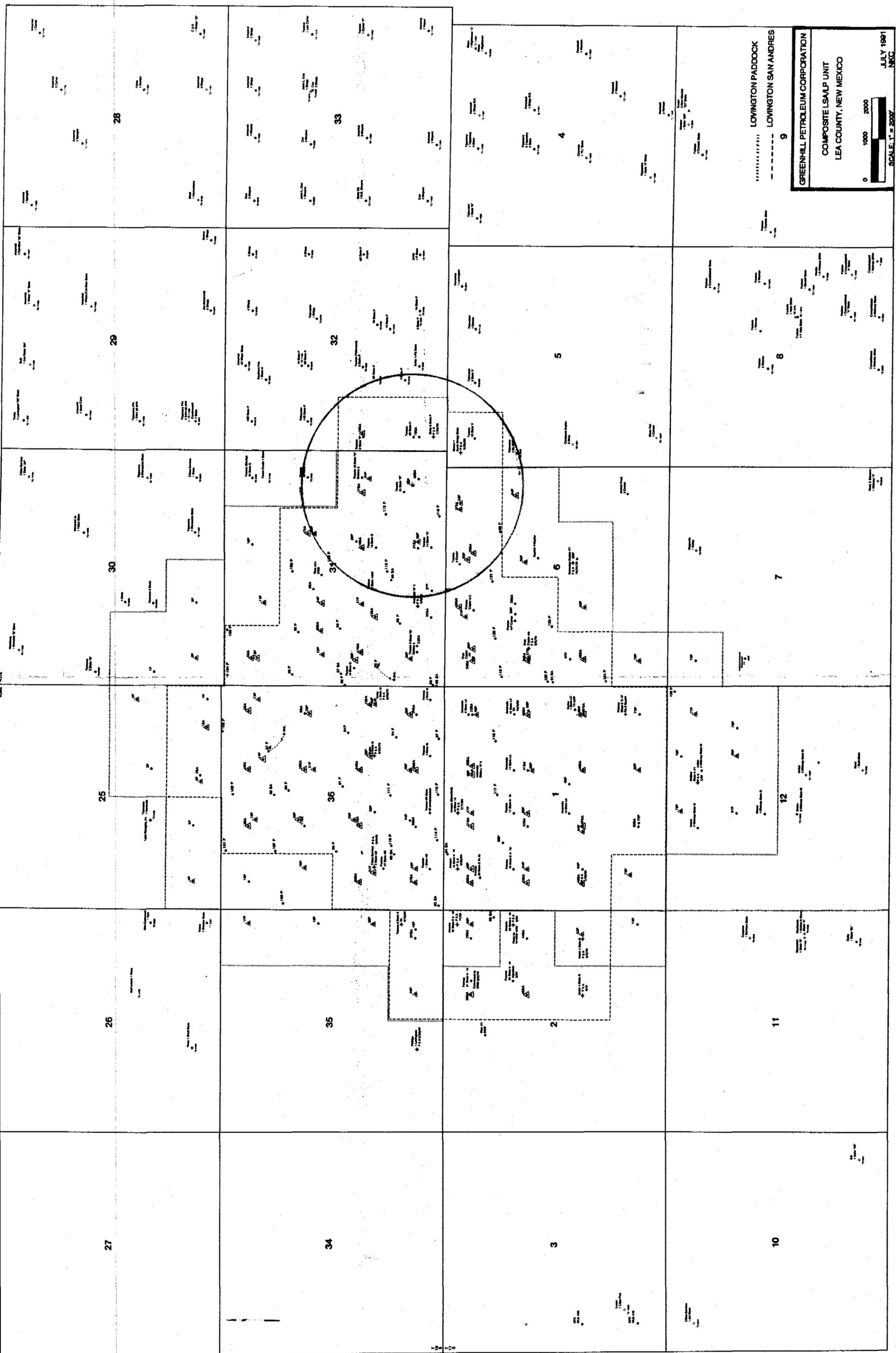
6078 feet to 6262 feet  
(perforated or open-hole, indicate which)

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



..... LOVINGTON PADDOCK  
- - - - - LOVINGTON SAN ANDRES  
9

GREENHILL PETROLEUM CORPORATION  
COMPOSITE LSALP UNIT  
LEA COUNTY, NEW MEXICO  
0 1000 2000  
SCALE: 1" = 2000'  
JULY 1981  
NSC

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INJECTION WELL DATA SHEET

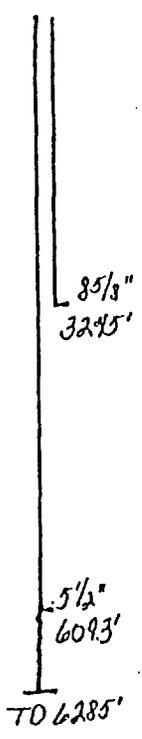
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	FOOTAGE LOCATION		LEASE		
#43	660' FSL &	460' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION		SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date  
4-29-54



Surface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 485 SX

TOC: 3613 feet determined by temp survey

Hole size:

Total Depth: 6285'

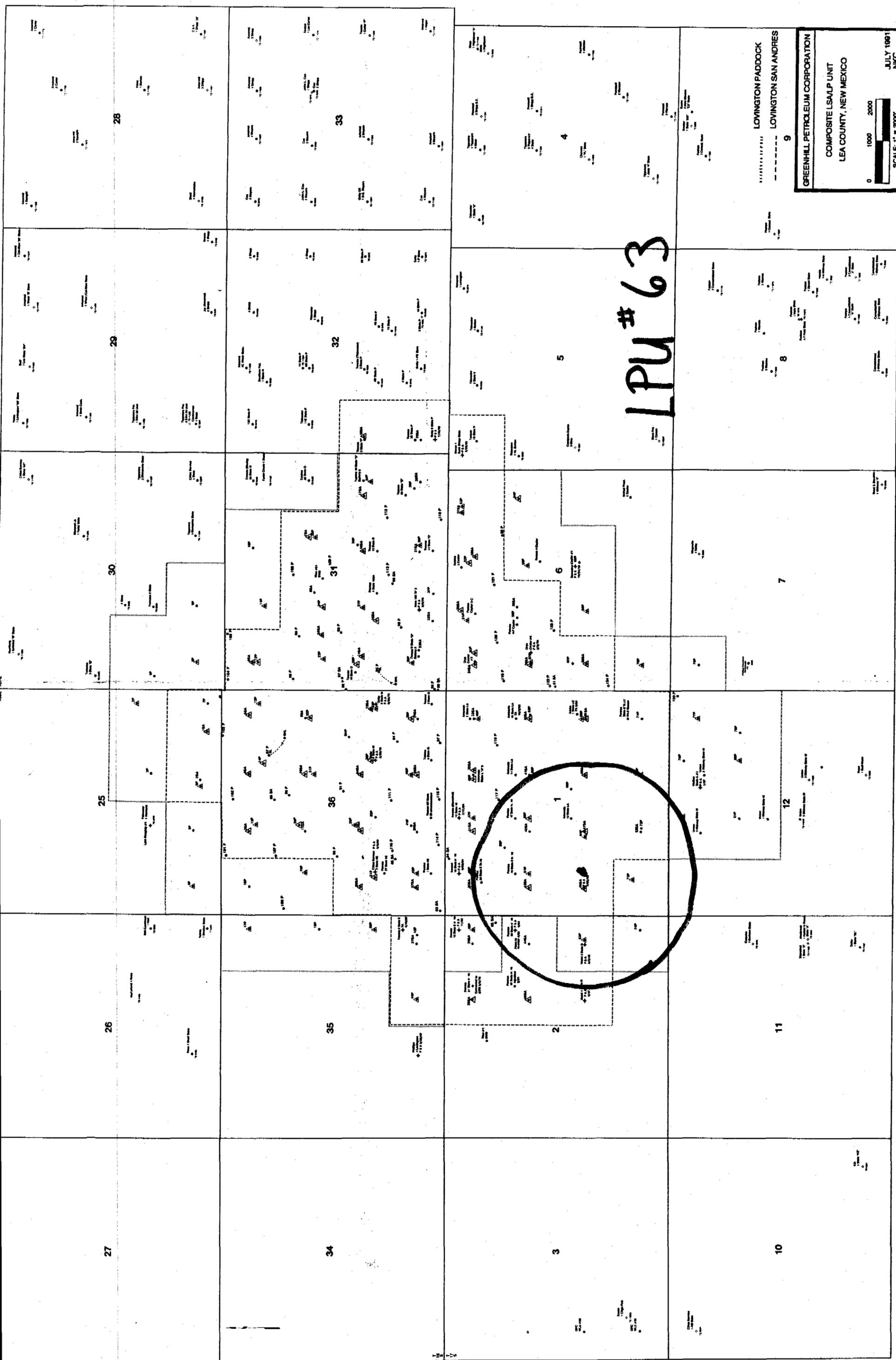
Injection Interval

6093 feet to 6285 feet  
(perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with IPC 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
- 
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
Above Glorieta



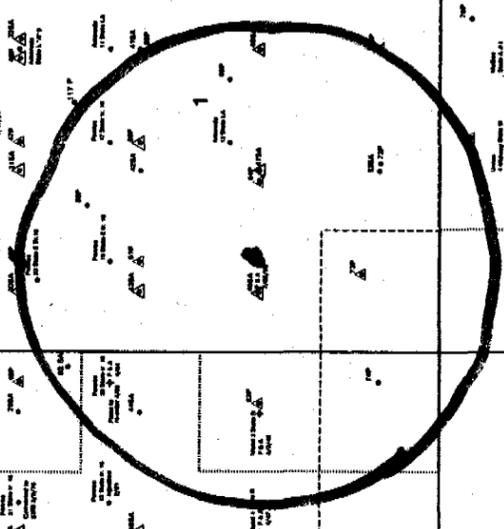
..... LOVINGTON PADDOCK  
- - - - - LOVINGTON SAN ANDRES  
9

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

0 1000 2000  
SCALE: 1" = 2000'

JULY 1981  
NISC

LPU # 63



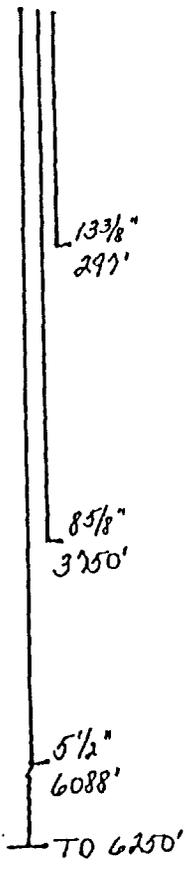
INJECTION WELL DATA SHEET

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~~<sup>600</sup> SX  
TOC: ~~3364~~<sup>3743</sup> feet determined by ~~80%~~<sup>TS</sup> calc  
Hole size: 7-7/8"  
Total Depth: 6250'

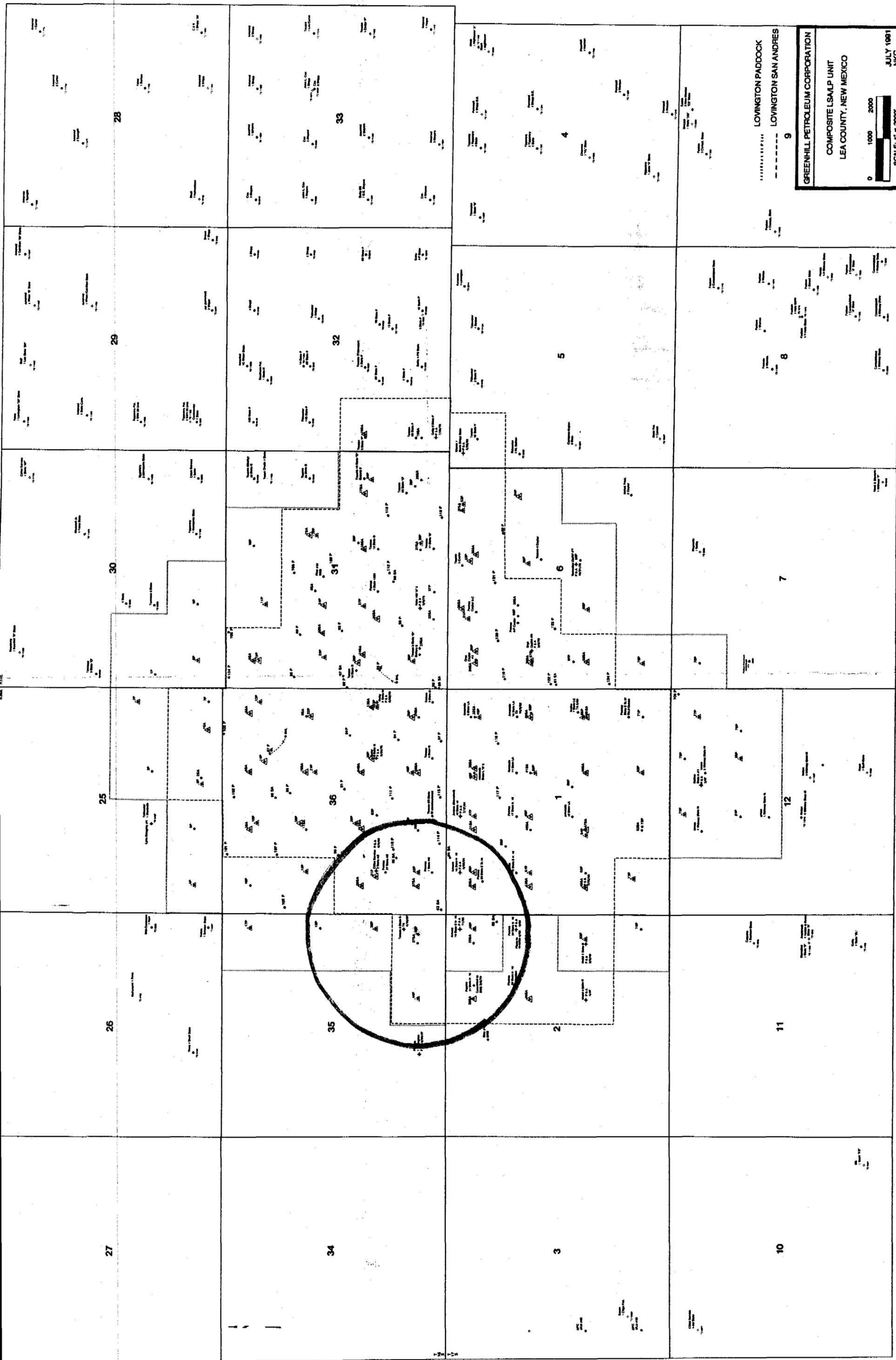
Injection Interval

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).

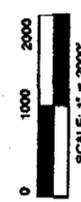
Other Data

- 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



LOVINGTON PADDOCK  
LOVINGTON SAN ANDRES

GREENHILL PETROLEUM CORPORATION  
COMPOSITE LS&LP UNIT  
LEA COUNTY, NEW MEXICO



JULY 1961  
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INJECTION WELL DATA SHEET

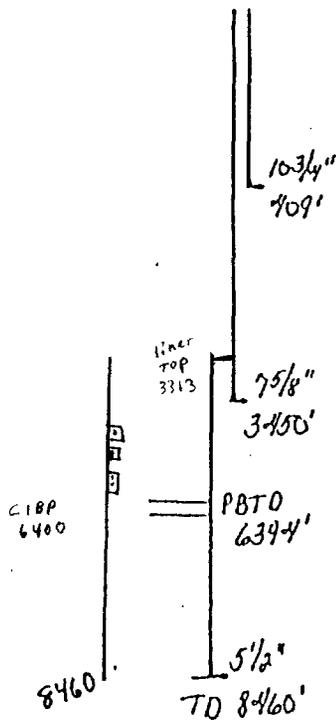
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	LEASE		
#65	2310' FSL & 2310' FEL	1	17S 36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Spud Date  
6-13-53



Surface Casing

Size: 10-3/4" Cemented with 500 SX  
 TOC: Surface feet determined by calc  
 Hole size: 15

Intermediate Casing

Size: 7-5/8" Cemented with 1136 SX  
 TOC: Surface feet determined by calc  
 Hole size: 9 7/8

Long String

Size: 5-1/2" Cemented with 800 SX  
 TOC: 3780 feet determined by temp survey  
 Hole size: 6 3/4

Total Depth: 8460'

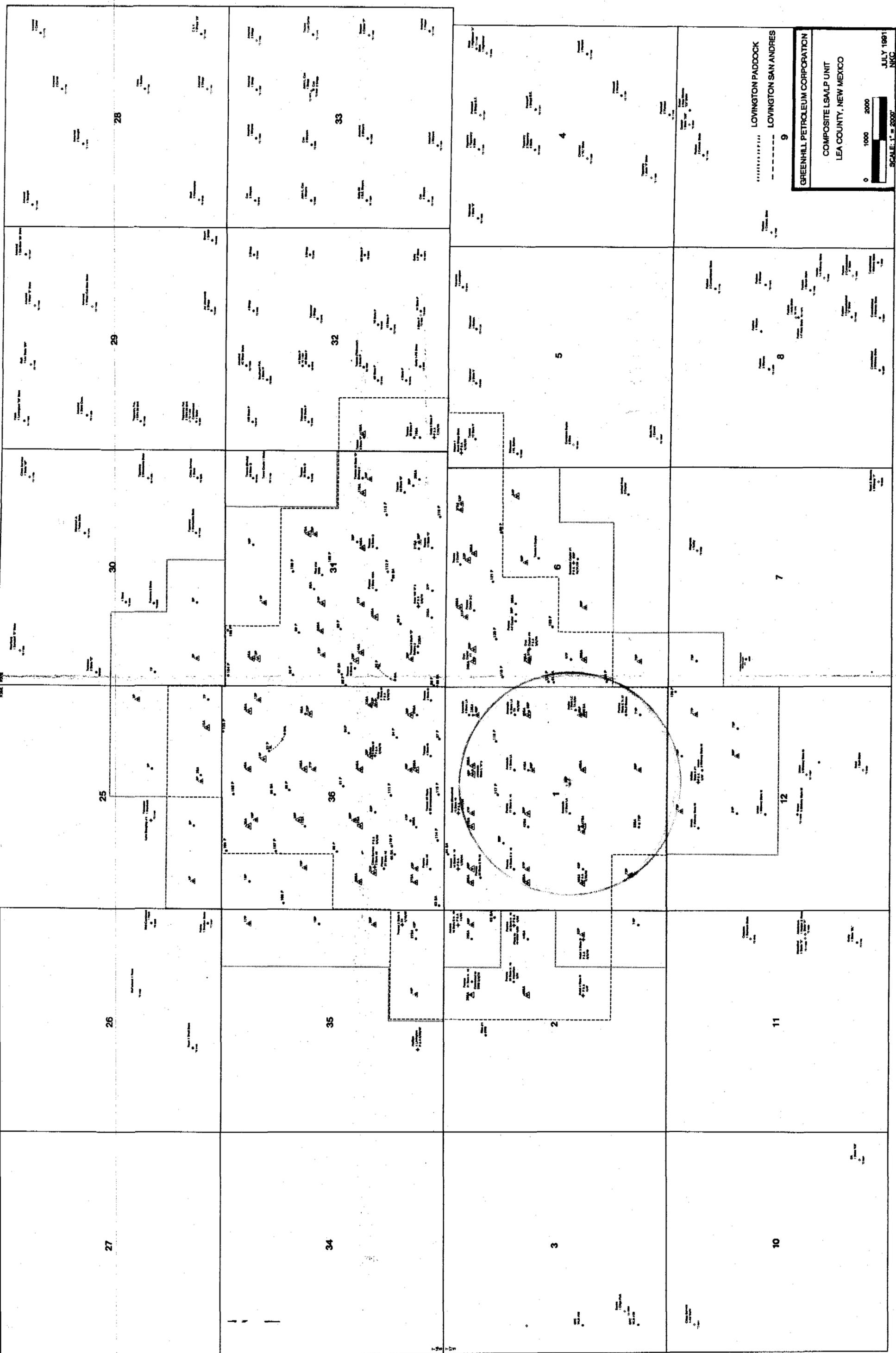
Injection Interval

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

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



..... LOVINGTON PADDOCK  
 - - - - - LOVINGTON SAN ANDRES  
 9

GREENHILL PETROLEUM CORPORATION  
 COMPOSITE LSA/LP UNIT  
 LEA COUNTY, NEW MEXICO  
 0 1000 2000  
 SCALE: 1" = 2000'  
 JULY 1981  
 NSC

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

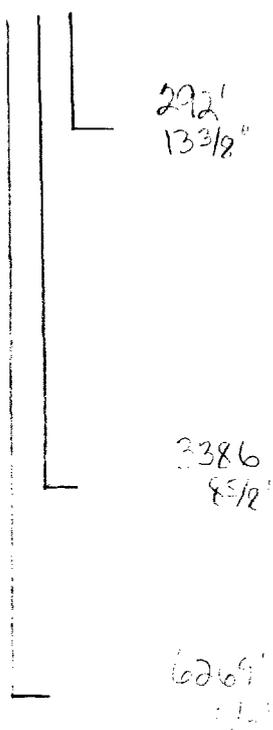
6104 feet to 6262 feet  
(perforated or open-hole, indicate which)

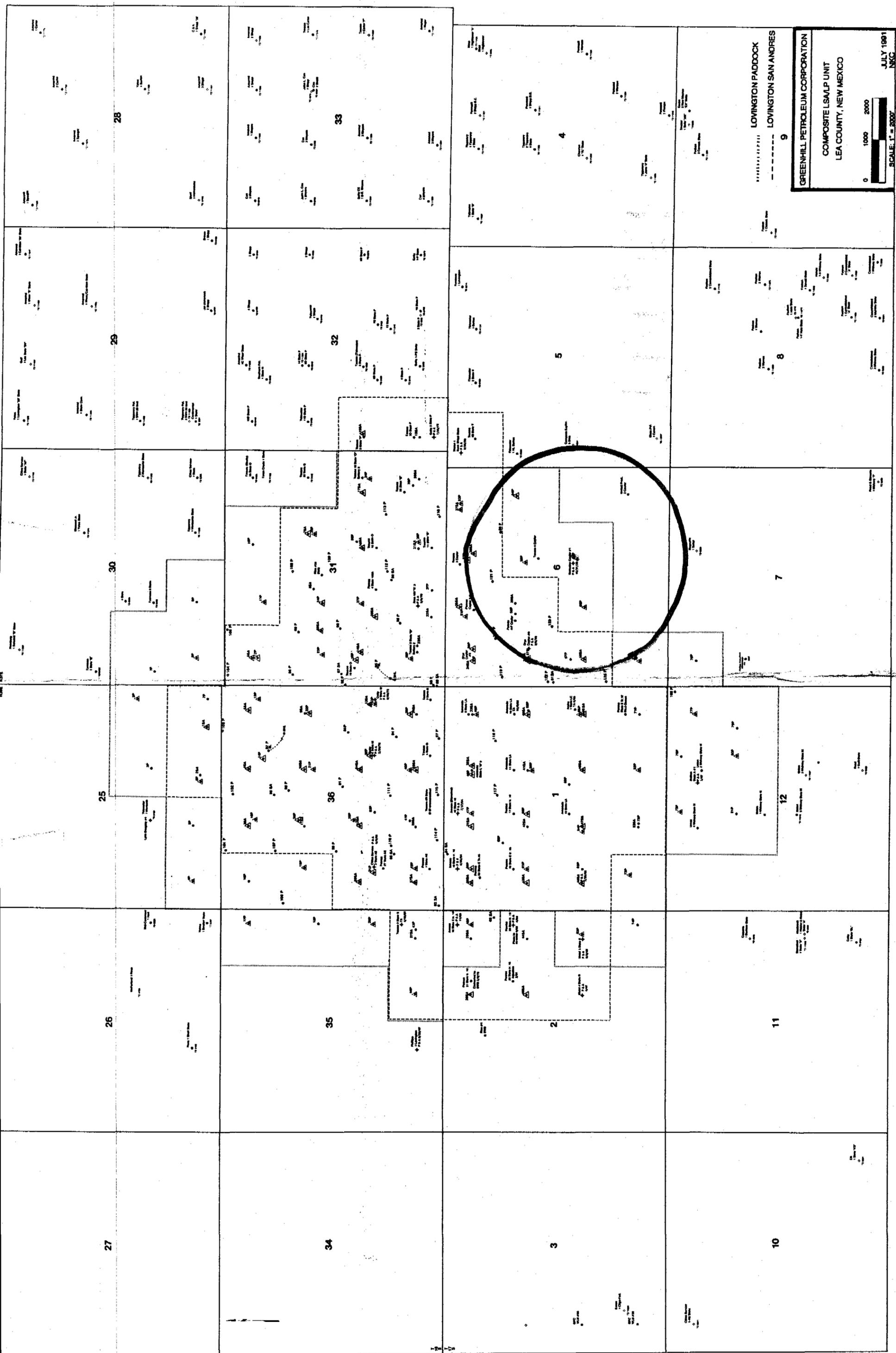
Tubing size 2 3/8" lined with IPC set in a  
(material)  
\_\_\_\_\_ packer at 6050 feet.  
(brand & model)  
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Paddock
- 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 Glorietta





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

GREENHILL PETROLEUM CORPORATION  
COMPOSITE LSALP UNIT  
LEA COUNTY, NEW MEXICO



JULY 1981  
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INJECTION WELL DATA SHEET

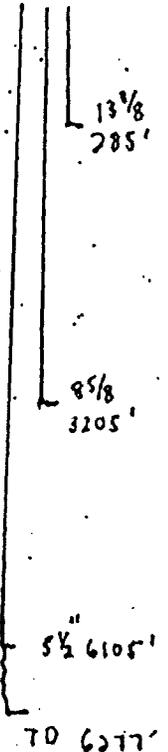
Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Completed  
8-25-54



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 15"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole Size: 10-3/4"

Long String

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

TOC: 4080 feet determined by log

Hole Size: 7-7/8"

Total Depth: 6277'

Injection Interval

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

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

Other Data

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

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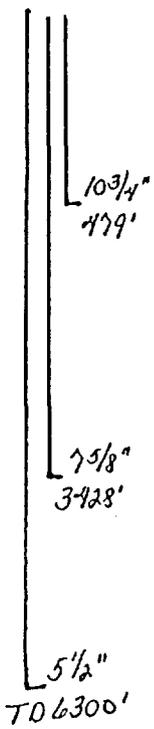
2

INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
10-31-53



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 13-3/4"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size: 9-7/8"

Long String

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

TOC: 3231 feet determined by temp survey

Hole size: 6-3/4"

Total Depth: 6300'

Injection Interval

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

Tubing size 2-7/8" lined with IPC set in a \_\_\_\_\_ packer  
at 5394 feet. (Or describe any other casing-tubing seal).

Other Data

- 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

*Handwritten notes:*  
6 1/2"  
3428'  
6300'  
5 1/2"  
TD 6300'

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	<i>K-55</i>	LEASE		
# 3	1980' FSL & 1980' FEL	25	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date  
11-03-53

Surface Casing

Size: 10-3/4 " Cemented with 300 SX  
 TOC: Surface feet determined by calc  
 Hole size: 13-3/4"

Intermediate Casing

Size: 7-5/8" Cemented with 1740 SX  
 TOC: Surface feet determined by calc  
 Hole size: 9-7/8"

Long String

Size: 5-1/2" Cemented with ~~1200~~ SX  
 TOC: 3225 feet determined by temp survey  
 Hole size: 6-3/4"

Total Depth: 6300'

Injection Interval

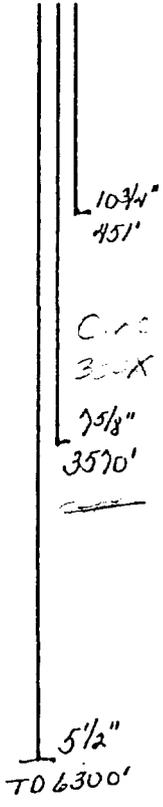
- feet to - feet  
(perforated or open-hole, indicate which)

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

Other Data

- 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

*Handwritten notes:*  
 10' 10"  
 3225'  
 3570'  
 6300'  
 Circ

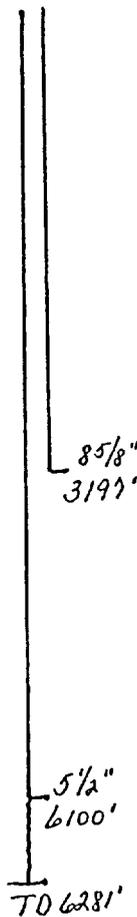


INJECTION WELL DATA SHEET

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

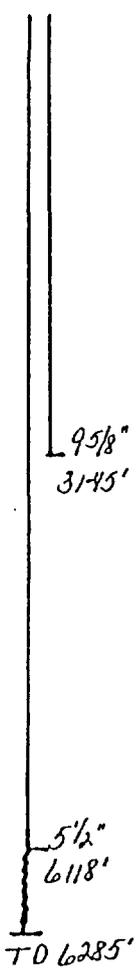
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation Lovington Paddock

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

Tubular Data

Spud Date  
3-11-54



Surface Casing

Size: 9-5/8 " Cemented with 1800 SX  
 TOC: Surface feet determined by calc  
 Hole size: 12-3/4"

CIRC

Intermediate Casing

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

Long String

Size: 5-1/2" Cemented with 475 SX  
 TOC: 3974 feet determined by temp survey  
 Hole size: 7-7/8"

Total Depth: 6285'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

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

*Hole size not in file*  
Tubular Data

Surface Casing

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

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX  
 TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_  
 Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2 " Cemented with 450 SX  
 TOC: 2168 feet determined by 80% calc  
 Hole Size: 7 7/8

Total Depth: 4996

Injection Interval

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

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

Other Data

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

Date Completed  
11/7/44

2104 4620

8 5/8  
2104

5 1/2  
4620

TD 4996

I

10

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

2096' 4629

Size: 8 5/8" Cemented with 425 SX

475

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Long String

Size: 5 1/2" Cemented with 425 SX

525 - 450

TOC: 2313 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 5060'

Injection Interval

4600' feet to 5060' feet (perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a packer at 4575' 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 10/4/45

Converted to Injection 6/29/65

8 5/8 2096

5 1/2 4629

TD 5060

11

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date  
8-1-53

Surface Casing  
 Size: 8-5/8" Cemented with 800 SX  
 TOG: Surface feet determined by calc  
 Hole size: 11"

Intermediate Casing  
 Size: 8 5/8" Cemented with \_\_\_\_\_ SX  
 TOG: 2104' feet determined by calc  
 Hole Size: \_\_\_\_\_

Long String  
 Size: 5-1/2" Cemented with 225 SX  
 TOG: 4859 feet determined by 80%  
 Hole Size: 7-7/8"  
 Total Depth: 6260'

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



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

Other Data

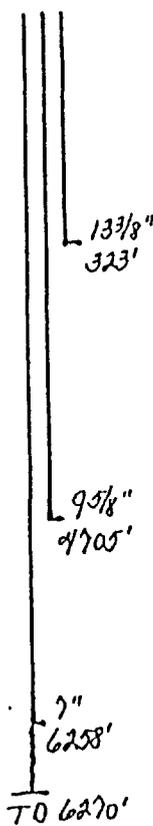
1. Name of the injection formation \_\_\_\_\_
2. Name of Field or Pool (if applicable) Paddock
3. Is this a new well drilled for injection? No  
 If no, for what purpose was the well originally drilled? Production
4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals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

INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
6-20-53



Surface Casing

Size: 13-3/8 " Cemented with 350 SX  
 TOC: Surface feet determined by calc  
 Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8" Cemented with 2700 SX  
 TOC: Surface feet determined by calc  
 Hole size: 12-1/4"

Long String

Size: 7" Cemented with 450 SX  
 TOC: 4113 feet determined by 70% calc  
 Hole size: 8-3/4"

Total Depth: 6270'

Injection Interval

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

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

Other Data

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

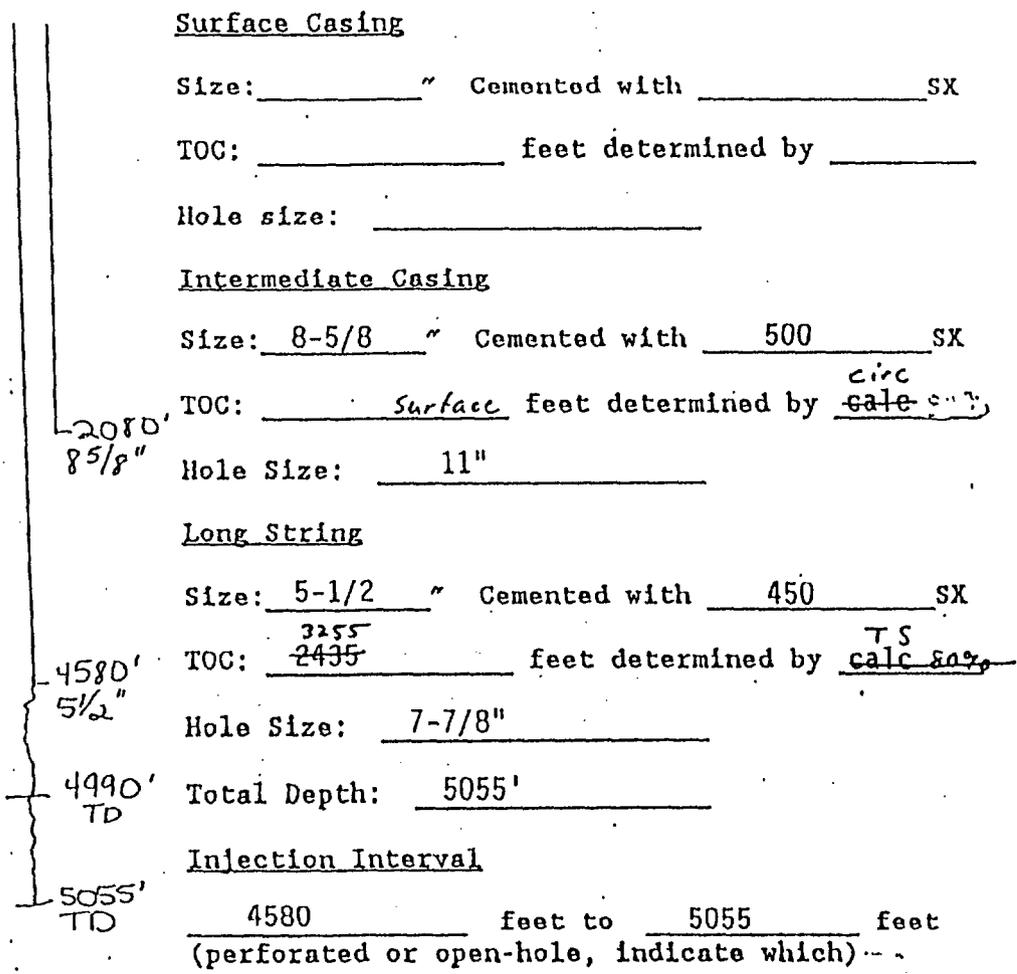
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#12	1980' FSL & 1980' FWL	36	16S	36E
WELL NO.	FOOTAGE LOCATION.	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
7-5-45

Deepened  
7/87



Tubing size 2 7/8 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

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

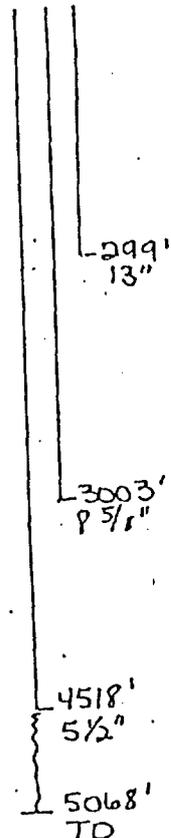
4518 feet to 5068 feet (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a  
 (material)  
 waterflood tension packer at 4445 feet.  
 (brand & model)  
 (or describe any other casing-tubing seal).

Other Data

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

Completed 12-16-39



INJECTION WELL DATA SHEET

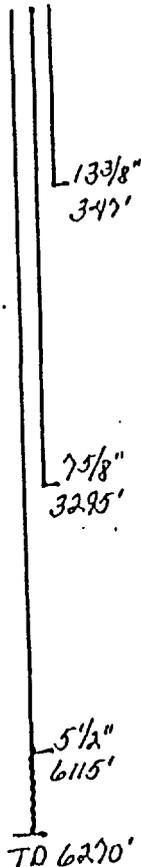
16

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

Tubular Data

Spud Date  
9-01-53

Converted to  
Injection  
12/66



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Long String

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

TOC: 4208 feet determined by 70% calc

Hole size: 7-7/8"

Total Depth: 6270'

Injection Interval

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

Tubing size 2" lined with IPC set in a - packer  
at 6034 feet. (Or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

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

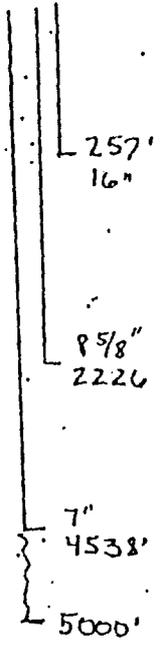
Hole Size: 8

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 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			
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

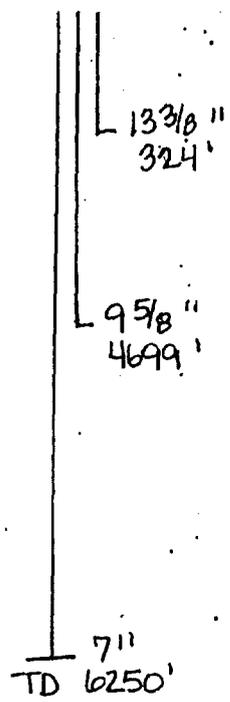
6115 feet to 6248 feet (perforated or open-hole, indicate which)

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

Other Data

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

Spud Date 4-5-53



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INJECTION WELL DATA SHEET

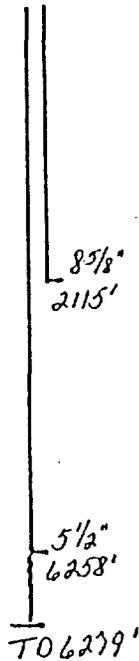
19  
P

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

Tubular Data

Spud Date  
2-13-53

4-86  
Squeeze csg leak  
2078-2112 w/200 SX  
9/81 shoot 3 balls  
at 2114 cm  
w/275 SX



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 12 1/2

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 5185 feet determined by 70% calc

Hole size: Est 7 7/8

Total Depth: 6279'

Injection Interval

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

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

Other Data

- 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

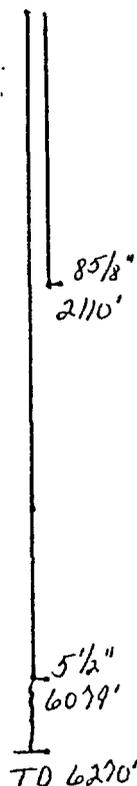
INJECTION WELL DATA SHEET

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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
- 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 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

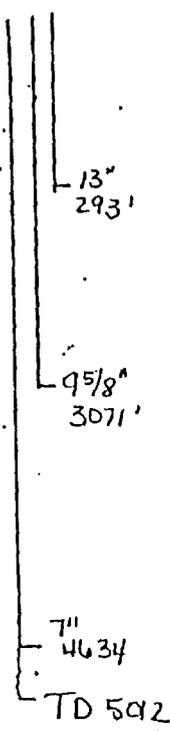
4634 feet to 5012 feet (perforated or open-hole, indicate which)

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

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



I

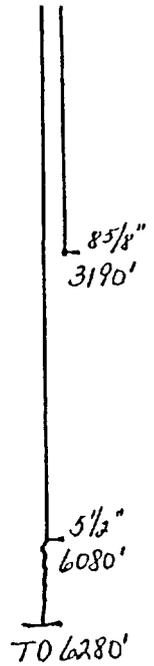
22

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date  
4-13-54



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: //

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3765 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6280'

Injection Interval

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

Tubing size 2-3/8" lined with IPC set in a - packer  
at 6018 feet. (Or describe any other casing-tubing seal).

Other Data

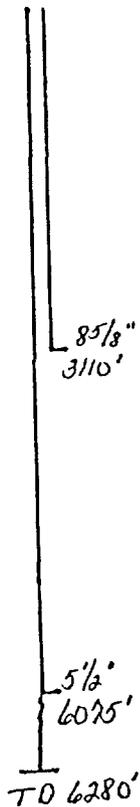
- Name of the injection formation: Paddock
  - Name of Field or Pool (If applicable) Paddock
  - Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

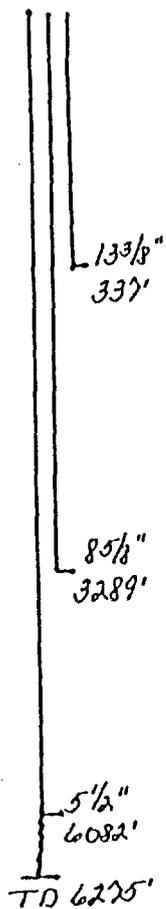
Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR	FOOTAGE LOCATION		LEASE	SEC.	TOWNSHIP	RANGE
#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
- 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

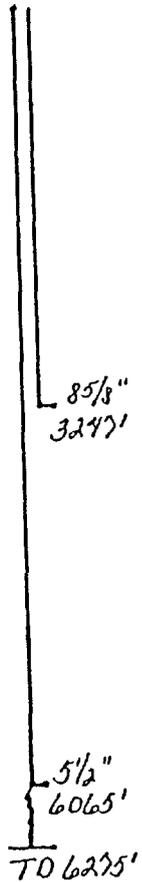
26

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  
 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

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

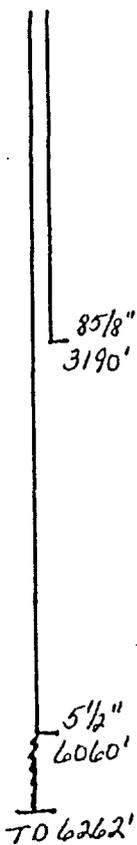
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#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

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

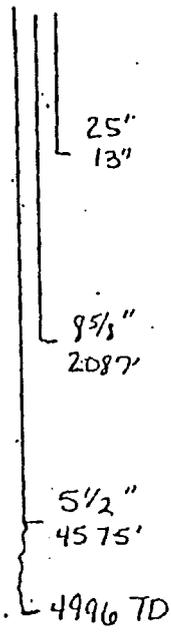
                     feet to                      feet  
(perforated or open-hole, indicate which)

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

Other Data

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

Completed  
1/40



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INJECTION WELL DATA SHEET

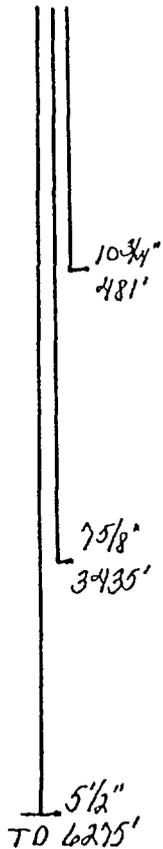
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#21	2190' FNL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date  
7-26-53

Converted  
to Injection  
2/73

5 1/2" liner  
3312-6275  
w/ 1180 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 7/8  
Total Depth: 6275'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 ~~250~~ SX  
 TOG: Surface feet determined by calc  
 Hole size: 17 1/4 15

Intermediate Casing

Size: 8 5/8 " Cemented with 500 ~~250~~ SX  
 TOG: 1924 feet determined by 50% calc  
 Hole Size: 12

Long String

Size: 7 " Cemented with 200 ~~250~~ SX  
 TOG: 3074 feet determined by 80% calc  
 Hole Size: 8 3/4

Total Depth: 5100'

Injection Interval

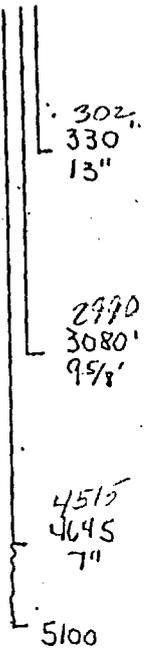
\_\_\_\_\_ feet to \_\_\_\_\_ feet  
(perforated or open-hole, indicate which)

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

Other Data

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

Completed  
9/23/39



## INJECTION WELL DATA SHEET

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

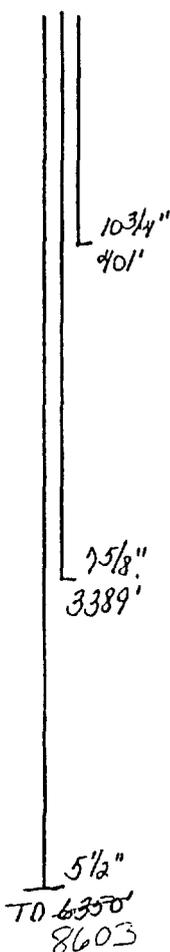
Tubular Data

Spud Date  
9-10-52

5 1/2 lines  
3273-6350

195' L  
Plug back from 8603

110 SX 8603-8117  
60 SX 6533-6464  
45 SX 6464-6303  
Drill out to 6350

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 13 3/8"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size: 9 7/8"

Long String

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

TOC: 3581 feet determined by temp survey

Hole size: 6 3/4"

Total Depth: 6350' 8603

Injection 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

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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

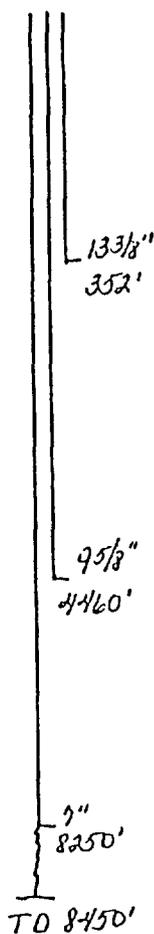
Tubular Data

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" liner  
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

Surface Casing

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

TOC: Surface feet determined by calc.

Hole size: //

Intermediate Casing

Size: " Cemented with SX

TOC: Surface feet determined by calc.

Hole Size: "

Long String

Size: 5 1/2 " Cemented with 400 SX

TOC: 4077 feet determined by temp survey

Hole Size: 7 7/8

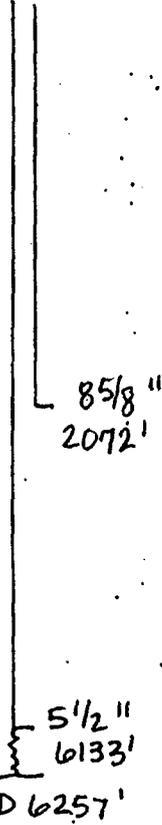
Total Depth: 6257'

Injection Interval

6111 feet to 6280 feet (perforated or open-hole, indicate which)

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

Spud Date 3-12-53  
Deepen to 6280



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		
OPERATOR		LEASE		
8	2150' FNL & 366' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
7-24-44



Surface Casing

Size: 8-5/8" Cemented with 500 SX  
 TOC: Surface feet determined by calc  
 Hole size:

Intermediate Casing

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

Long String

Size: 5-1/2" Cemented with 500 SX  
 TOC: 1886 feet determined by 80% calc  
 Hole size: 7-7/8"  
 Total Depth: 4978'

Injection Interval

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

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

Other Data

- 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 been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
- 
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

(Above) Grayburg

INJECTION WELL DATA SHEET

Rice Engineering		Abo SWD (State "0")		
OPERATOR		LEASE		
13	2310' FNL & 2626' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
1-18-53

Converted to  
SWD (Inject  
thru 9730-10260)

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



Surface Casing

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

TOC: Surface feet determined by <sup>circ</sup>calc

Hole size: 18"

Intermediate Casing

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

TOC: <sup>Surface</sup>~~352~~ feet determined by <sup>circ</sup>~~50%~~ calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 1982 SX <sup>682 at shoe</sup>  
<sup>1700 thru outool</sup>  
<sup>at 8988</sup>

TOC: <sup>247</sup>~~247~~ feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 12,251

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) 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		LEASE		
#25	2130' FNL & 1980' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date  
11-16-54

Converted  
to Inj.  
12/54

	<u>Surface Casing</u>
	Size: 8-5/8" Cemented with 1550 SX
	TOC: Surface feet determined by <sup>circ</sup> <del>calc</del>
	Hole size: 11
	<u>Intermediate Casing</u>
8 5/8"	Size: Cemented with SX
3215'	TOC: feet determined by
	Hole size:
	<u>Long String</u>
	Size: 5-1/2" Cemented with 450 SX
	TOC: 4160 feet determined by temp survey
	Hole size: 7 7/8
	Total Depth: 6270'
	<u>Injection Interval</u>
	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

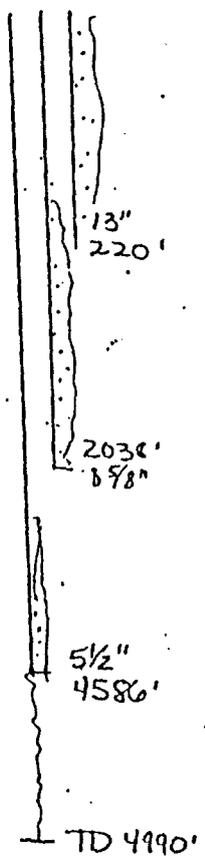
- Name of the injection formation: Paddock
  - Name of Field or Pool (If applicable) Paddock
  - Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

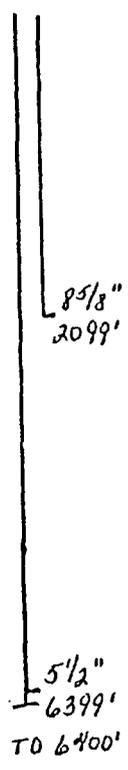
*Texaco Producing Inc.*  
~~Tidewater Oil Company~~

State "P"

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

Tubular Data

Completed  
 3-22-65



Surface Casing

Size: 8-5/8" Cemented with 1450 SX  
 TOC: Surface feet determined by <sup>circ</sup>calc  
 Hole size: 12-1/4"

Intermediate Casing

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

Long String

Size: 5-1/2" Cemented with 1450 SX  
 TOC: Surface feet determined by <sup>circ</sup>80%-calc  
 Hole size: 7-7/8"

Total Depth: 6400'

Injection Interval

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

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

Other Data

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

15

1650' FSL & 1650' FWL

31

16S

37E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Completed  
6-1-39

Deepened  
7-23-86

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 500 SX  
~~400~~

TOC: 1818 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 300 SX  
~~200~~

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)

295'  
13"

2998'  
9 5/8"

4531'  
7"

4972'  
7 1/2"

5110'  
7 1/2"

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

Waterflood tension packer at 4510' feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

40

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 450 SX

TOG: Surface feet determined by calc

Hole size: 10 1/4

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX

TOG: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2 " Cemented with 400 SX

TOG: 1832 feet determined by 80% calc

Hole Size: 7 1/4

Total Depth: 4935'

Injection Interval

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

Tubing size 2 3/8 lined with IPC set in a  
(material)  
water flood tension packer packer at 4603 feet.  
(brand & model)  
(or describe any other casing-tubing seal).

Other Data

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

Completed  
9/17/46  
deepen to  
5090

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

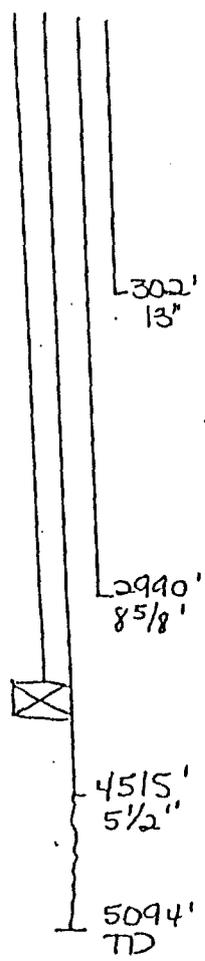
41

INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
10-18-39



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

Intermediate Casing  
 Size: 8-5/8 " Cemented with 500 SX  
 TOC: 1765 feet determined by calc  
 Hole Size: 11"

Long String  
 Size: 5-1/2 " Cemented with 200 SX  
 TOC: 3424 feet determined by calc  
 Hole Size: 7-7/8"  
 Total Depth: 5094'

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

Tubing size 2- 1/8 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

42

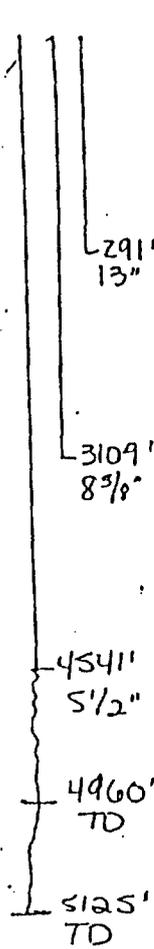
INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole size: 15 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: 10 1/4

Long String

Size: 5 1/2 " Cemented with 200 SX

TOC: 2343 feet determined by 80% calc

Hole Size: 6 3/4

Total Depth: 4950'

Injection Interval

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

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

\_\_\_\_\_ packer at 4557 feet.  
(brand & model)

(or describe any other casing-tubing seal).

Other Data

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.

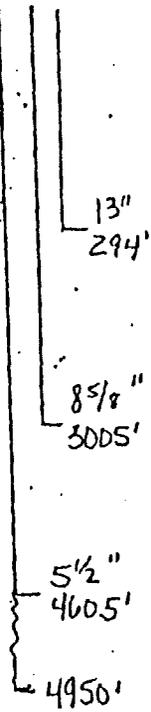
No

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

Underlying - Grayburg

Completed  
12/6/39

Converted to  
Injection  
3/16/63



INJECTION WELL DATA SHEET

Texaco  
OPERATOR

State "O"  
LEASE

12  
WELL NO.

1650' ESL & 2310' FEL  
FOOTAGE LOCATION

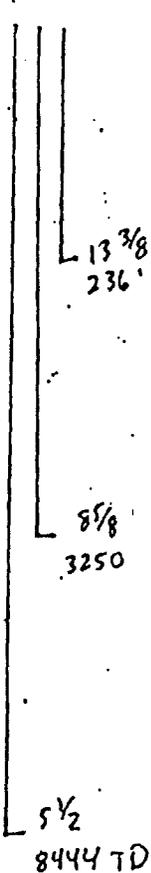
31  
SEC.

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

Other Data

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

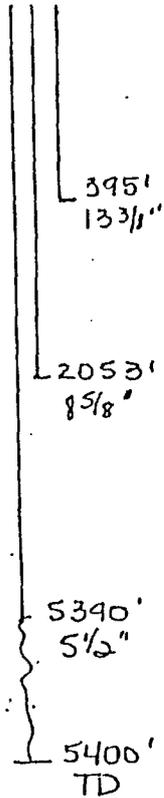
Above Drinkard

INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
1-31-90



Surface Casing

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

TOC: Surface feet determined by circ

Hole size: 17-1/2"

Intermediate Casing

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

TOC: 215 feet determined by calc

Hole Size: 11" 12 1/4

Long String

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

TOC: Surface feet determined by calc

Hole Size: 7-7/8"

Total Depth: 5400'

Injection Interval

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

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

Other Data

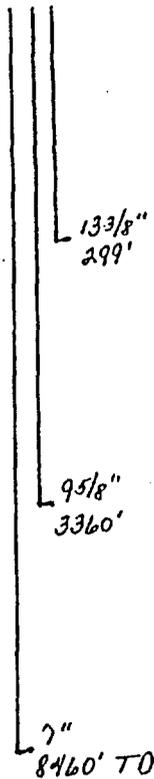
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

INJECTION WELL DATA SHEET

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

Tubular Data

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



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

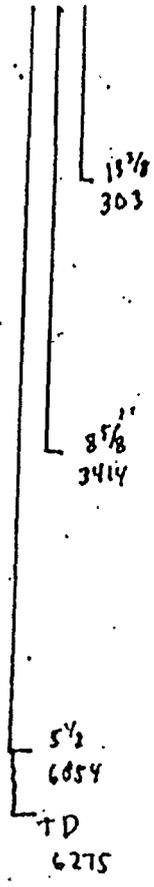
Lovington Paddock

OPERATOR	LEASE		RANGE	
# 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

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

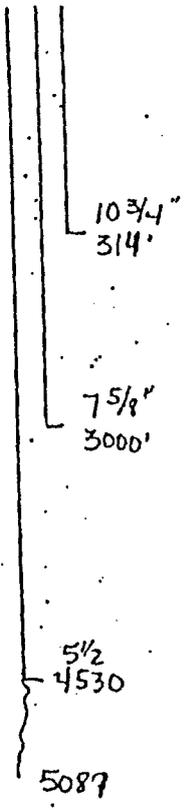
Long String

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)

Completed  
8/7/39  
  
 Converted to  
Injection  
3/15/63



Tubing size 2 3/8 lined with IPC set in a  
 (material)  
 (brand & model) packer at 4468.11 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 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'

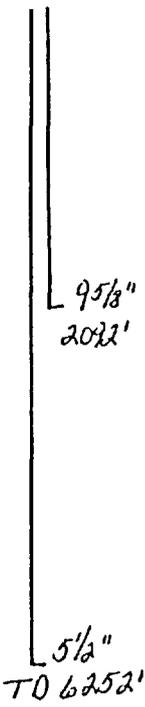
Injection Interval

- 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

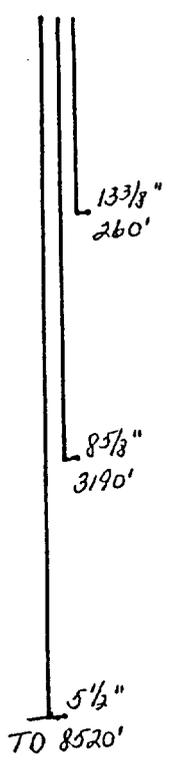


INJECTION WELL DATA SHEET

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 <sup>275</sup> 225 SX  
 TOC: Surface feet determined by calc<sup>CIRC</sup>  
 Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 700 SX  
 TOC: 1046 feet determined by <sup>surface</sup> 50% calc<sup>CIRC</sup>  
 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

I

INJECTION WELL DATA SHEET

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

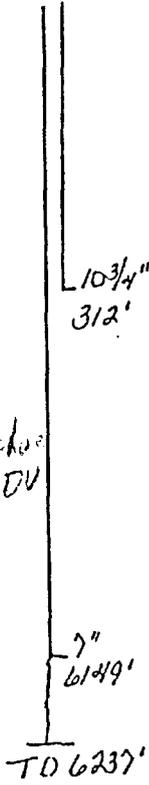
Tubular Data

Completion  
2-2-53

Deepened for  
Inj. 12/66  
6150-6237'

Converted to  
Injection 12/66

*DV*  
*1979*  
*300 SX*  
*a round hole*  
*100' + DV*



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

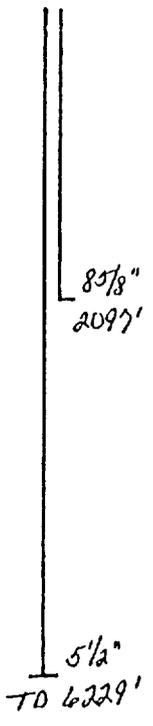
- Name of the injection formation: Paddock
  - Name of Field or Pool (If applicable) Paddock
  - Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

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 1/2  
 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
- 
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
Above Glorieta



I

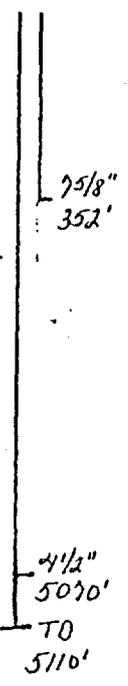
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#54	1980' FSL & 1980' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud 1-7-63

May 29  
 r.p. 4 1/2 csg  
 120 lbs  
 876  
 1546 & 1608  
 1100



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" Lovington Paddock Unit LEASE

83 WELL NO. 2310 FWL c 1650 FSL FOOTAGE LOCATION Sec 36 SEG. T11S-R36E TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 13 3/8" Cemented with 245 SX

TOC: surface feet determined by calc

Hole size: 18

Intermediate Casing

Size: 8 5/8" Cemented with 1200 SX

TOC: surface feet determined by 50% calc

Hole Size: 11

Long String

Size: 5 1/2" Cemented with 900 SX

TOC: 3551 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 8454

Injection Interval

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

Tubing size lined with (material) set in a

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

Other Data

1. Name of the injection formation

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

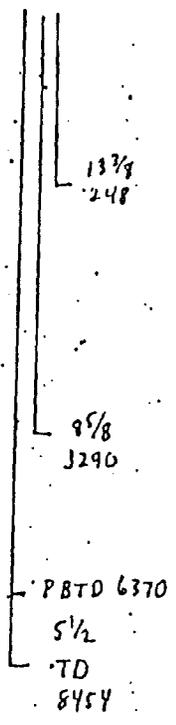
3. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? production

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

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

Above Glorieta

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



I

59

P

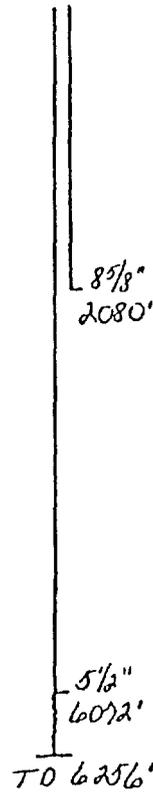
INJECTION WELL DATA SHEET

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: <sup>5205</sup> ~~4574~~ feet determined by <sup>Temp. Survey</sup> ~~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

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

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

Tubular Data

Surface Casing  
 Size: 13-3/8" Cemented with 350 SX  
 TOC: Surface feet determined by <sup>circ.</sup> calc.  
 Hole size: 17-1/2"  
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 1330 SX  
 TOC: <sup>3605</sup> ~~1265~~ feet determined by <sup>temp. survey</sup> ~~80% calc~~  
 Hole size: 7-7/8"  
 Total Depth: 8510'

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

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

Other Data

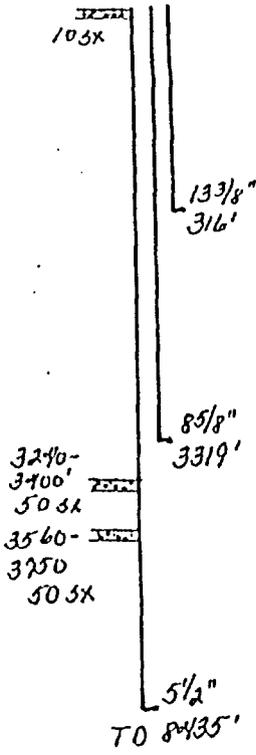
- Name of the injection formation:
  - Name of Field or Pool (If applicable) Lovington Abo
  - Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

INJECTION WELL DATA SHEET

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



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'

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

Cmt. ret. at 3988 w 555 SX below

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

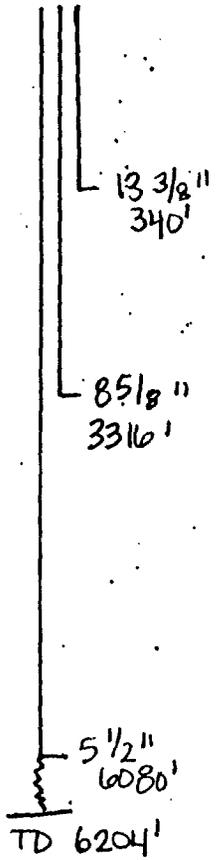
Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Spud Date  
12-16-53  
  
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 (material) 6050 feet.  
(brand & model) 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 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

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#30	3630' FNL & 330' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

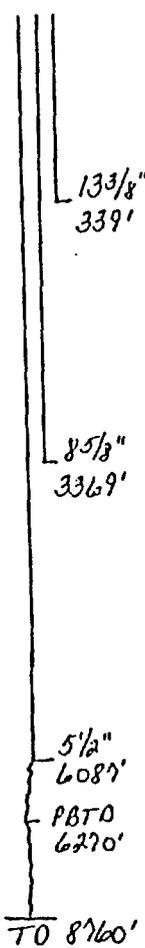
Tubular Data

Completed  
4-12-53

4/53 Plugged  
Back from Abo

Cmt 6275-6400'  
Cmt 8240-8400'  
Cmt 8600-8760'

Converted to  
Injection 12/66



Surface Casing  
Size: 13-3/8" Cemented with 350 SX  
TOC: Surface feet determined by calc  
Hole size: 13 3/8"  
339'

Intermediate Casing  
Size: 8-5/8" Cemented with 400 SX  
TOC: Surface feet determined by calc  
Hole size: 8 5/8"  
3369'

Long String  
Size: 5-1/2" Cemented with 400 SX  
TOC: 4200 feet determined by temp survey  
Hole size: 7-7/8"  
Total Depth: 8760'

Injection Interval  
6087 feet to 6270 feet  
TO 8760' (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer at 5999 feet. (Or describe any other casing-tubing seal).

Other Data

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

42 66

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)

Deepen to 5030

Tubing size 2 3/8 — lined with \_\_\_\_\_ — IPC set in a  
 \_\_\_\_\_ 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		
#27	660 FEL & 660 FSL	35	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 7 5/8 " Cemented with 600 SX  
 TOC: Surface feet determined by calc  
 Hole size: 9 1/4"

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX  
 TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_  
 Hole Size: \_\_\_\_\_

Long String

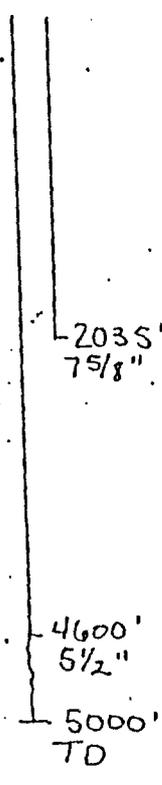
Size: 5 1/2 " Cemented with 300 SX  
 TOC: 273 feet determined by 80% calc  
 Hole Size: 6 1/2"

Total Depth: 5000'

Injection Interval

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

Completed



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 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

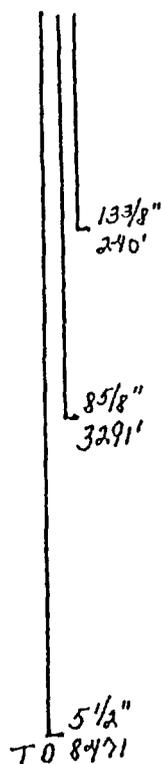
## INJECTION WELL DATA SHEET

Texaco		Skelly "S" State		
OPERATOR		LEASE		
2	990' FSL & 330' FEL	35	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
12-29-52

P&A 6-6-69

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 1300 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 900 SX

TOC: 3568 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8471'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

- 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

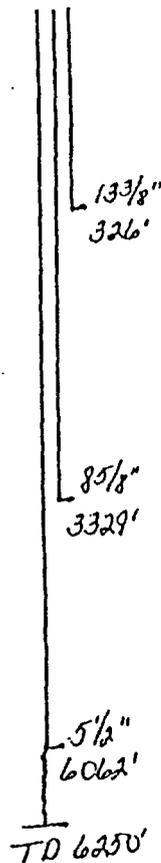
INJECTION WELL DATA SHEET

70

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#42	990' FWL & 660' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
11-17-55



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17 1/4"

Intermediate Casing

Size: 8-5/8" Cemented with 2000 SX

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

Hole size: 11-1/4"

Long String

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

TOC: 3883 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6250'

Injection Interval

6062 feet to 6250 feet  
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer  
at 6007 feet. (Or describe any other casing-tubing seal).

Other Data

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



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		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

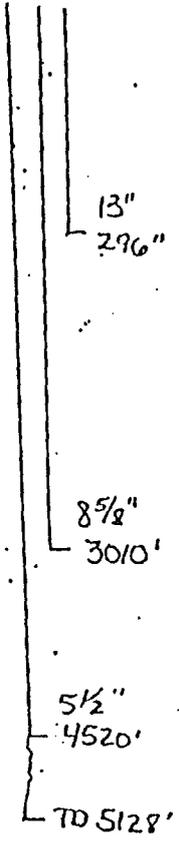
Hole Size: 6 3/4"

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 \_\_\_\_\_ 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		
#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  
7.6.79

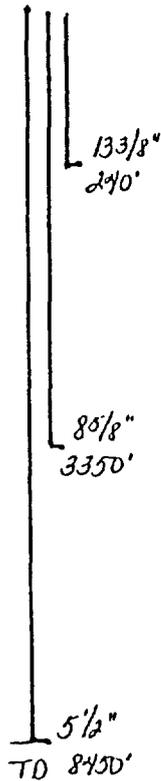
74

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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P

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Completed  
10-07-53



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 265 SX

TOC: 4565 feet determined by 80% calc

Hole size: 7 7/8

Total Depth: 6252'

Injection Interval

6009 feet to 6252 feet  
(perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with IPC set in a - packer  
at 5881 feet. (Or describe any other casing-tubing seal).

Other Data

- 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

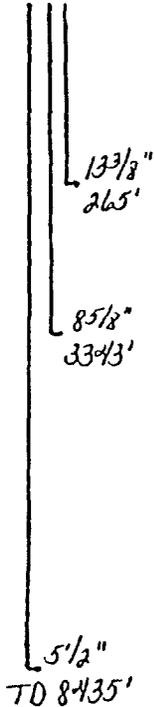
INJECTION WELL DATA SHEET

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 <sup>CIRC</sup> calc  
 Hole size: 18"

Intermediate Casing

Size: 8-5/8" Cemented with 800 SX  
 TOC: ~~798~~ <sup>Surface</sup> feet determined by <sup>CIRC</sup> 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		TOWNSHIP		RANGE
#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

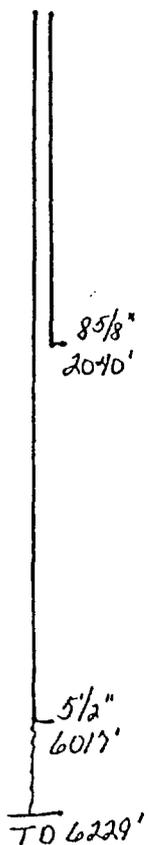
- feet to - feet  
(perforated or open-hole, indicate which)

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

Texaco	Skelly "Q" State			
OPERATOR	LEASE			
3	330' FSL & 330' FEL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing  
 Size: 13 " Cemented with 275 SX  
 TOC: Surface feet determined by calc *CIRC*  
 Hole size: 18"  
 17"  
 252'  
Intermediate Casing  
 Size: 8-5/8 " Cemented with 1750 SX  
 TOC: Surface feet determined by calc *CIRC*  
 Hole Size: 12-1/4"  
 8 5/8  
 3421  
Long String  
 Size: 5-1/2 " Cemented with 739 SX  
 TOC: 4037 feet determined by Haliburton  
 Hole Size: 7-7/8"  
 5 1/2  
 108442  
 Total Depth: 8442'

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

I

INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
6-28-53

Converted to  
Injection 1-71



Surface Casing

Size: 9-5/8" Cemented with 900 SX  
 TOC: Surface feet determined by <sup>CIRC</sup> 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: ~~3116~~ <sup>3527 (casing set deeper than on original calc.)</sup> 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

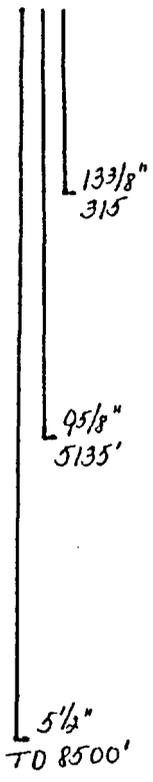
- Name of the injection formation: Paddock
- Name of Field or Pool (if applicable) Paddock
- Is this a new well drilled for Injection? No  
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

Intermediate Casing

Size: 9-5/8" Cemented with 4500 SX  
 TOC: Surface feet determined by <sup>Circ</sup> 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'

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

*Handwritten notes:*  
 350 SY of shoe  
 4150 SX  
 DU Tool at  
 4510

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 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'

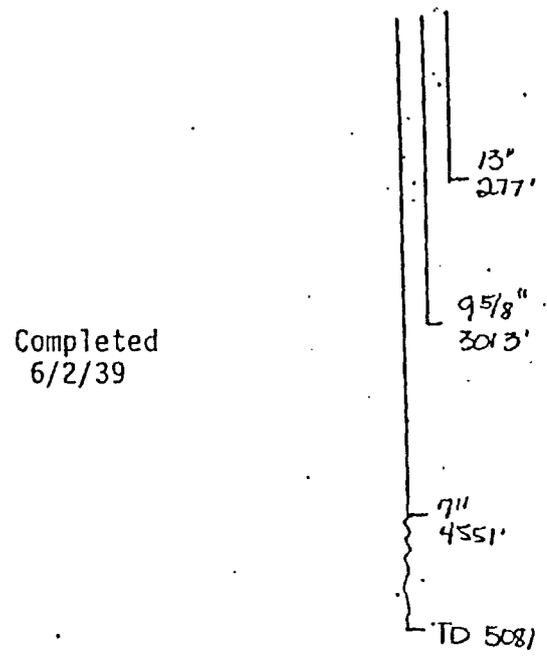
Injection Interval

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

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

Other Data

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



Completed  
6/2/39

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#22	330 FSL & 1650 FWL	31	T16S	R73E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

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

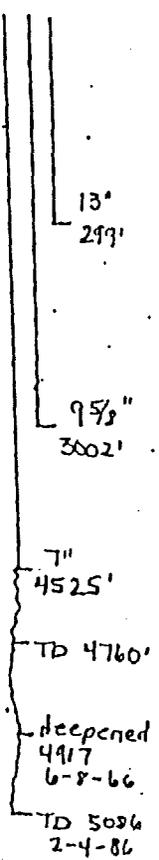
\_\_\_\_\_ feet to \_\_\_\_\_ feet (perforated or open-hole, indicate which)

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

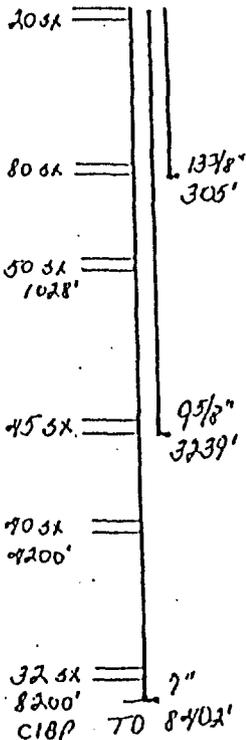
Tubular Data

Completed  
4-12-52

P&A'd 2-4-76

cut & pulled  
9 5/8 from 1028

cut & pull  
7" from 4200  
perf at 5000  
592.120 sx.



Surface Casing

Size: 13-3/8" Cemented with 325 SX  
 TOC: Surface feet determined by calc  
 Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8" Cemented with 1200 SX  
 TOC: feet determined by  
 Hole size: 12-1/4"

Long String

Size: 7" Cemented with 500 SX  
 TOC: 5261 feet determined by 80% calc.  
 Hole size: 8-3/4"  
 Total Depth: 8402'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

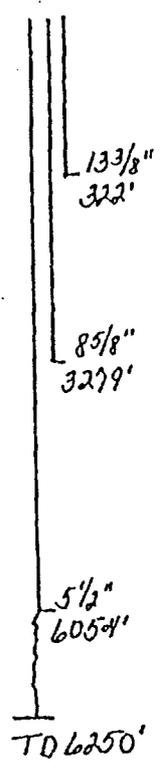
(Above) Drinkard

INJECTION WELL DATA SHEET

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 <sup>circ</sup>~~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
- 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'

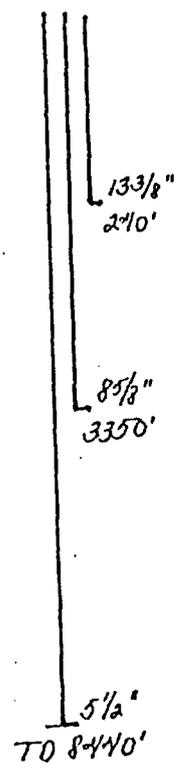
Injection Interval

- 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

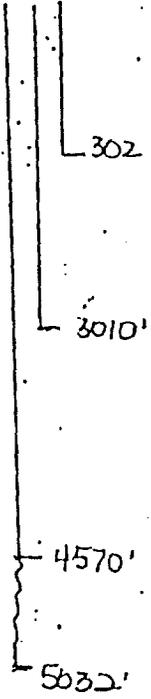


INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation OPERATOR	Lovington San Andres Unit LEASE			
#21 WELL NO.	2310 FEL & 660 FSL FOOTAGE LOCATION	31 SEC.	T16S TOWNSHIP	R31E RANGE

Tubular Data

Completed  
9/20/39



Surface Casing

Size: 13 " Cemented with 200 ~~175~~ SX  
 TOC: Surface feet determined by calc  
 Hole size: 15

Intermediate Casing

Size: 8 5/8 " Cemented with 500 ~~400~~ SX  
 TOC: 1784 feet determined by 50% calc  
 Hole Size: 10 1/4 ~~9 7/8~~

Long String

Size: 5 1/2 " Cemented with 200 ~~150~~ SX  
 TOC: 1626 642 feet determined by 80% calc  
 Hole Size: 6 1/4  
 Total Depth: 5032

Injection Interval

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

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

Other Data

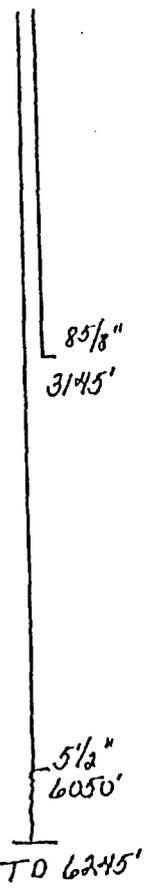
- Name of the injection formation
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No  
 IF no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#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 <sup>circ.</sup> ~~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

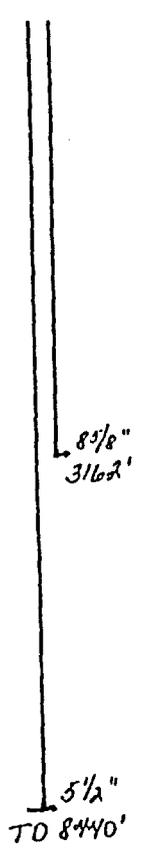
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

- Name of the injection formation:
  - Name of Field or Pool (If applicable) Lovington Drinkard
  - 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) Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#20	660 FSL & 660 FEL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13" Cemented with 20 SX  
 TOG: Surface feet determined by calc  
 Hole size: 15

Intermediate Casing

Size: 8 5/8" Cemented with 475 SX  
 TOG: 784 feet determined by 50% calc  
 Hole Size: 11 10 1/2

Long String

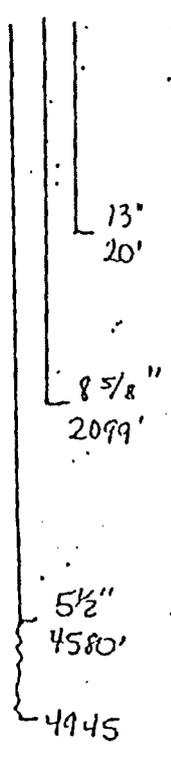
Size: 5 1/2" Cemented with 450 SX  
 TOG: 654 / 1340 feet determined by 80% calc  
 Hole Size: 6 1/4 7

Total Depth: 4945'

Injection Interval

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

Completed  
1/6/45



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

66 92

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation                      Lovington San Andres  
 OPERATOR    LEASE

#35                      339' FNL & 1890' FWL                      6                      17S                      37E  
 WELL NO.                      FOOTAGE LOCATION                      SEC.                      TOWNSHIP                      RANGE

Tubular Data

Completed  
5-4-39

Deepen to 5040

Surface Casing  
 Size: 13 " Cemented with 200 SX  
 TOC: Surface feet determined by circ  
 Hole size: 17-1/4"  
Intermediate Casing  
 Size: 9-5/8" " Cemented with 400 SX  
 TOC: 1644 feet determined by calc  
 Hole Size: 12"  
Long String  
 Size: 7 " Cemented with 200 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)

323' 13"  
 2450' 9 5/8"  
 4570' 7"  
 4942' TD

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 Unit		
OPERATOR		LEASE		
#19	1980 FNL & 2310 FEL	32	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 200 SX  
 TOC: Surface feet determined by calc  
 Hole size: 17 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 300 SX  
 TOC: 1193 feet determined by 50% calc  
 Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 300 SX  
 TOC: 2982 feet determined by 80% calc  
 Hole Size: 7 7/8  
 Total Depth: 4946'

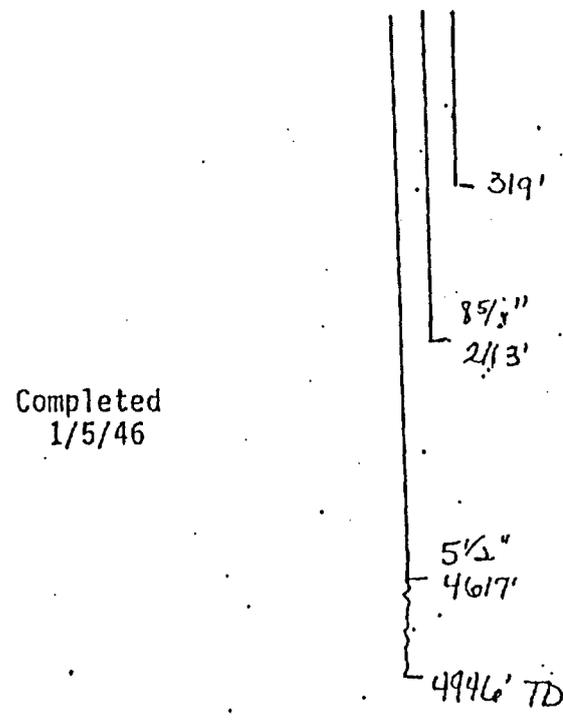
Injection Interval

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

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

Other Data

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



Completed  
1/5/46

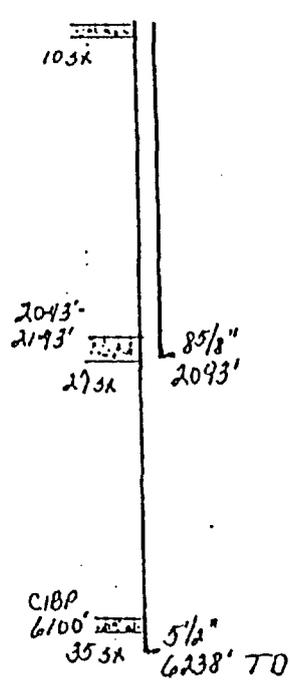
INJECTION WELL DATA SHEET

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 - Tined 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

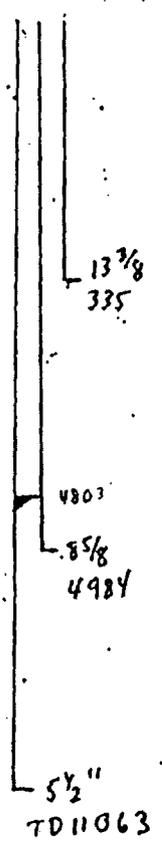
Texaco OPERATOR		State "V" LEASE		
1 WELL NO.	660' FWL & 660' FNL FOOTAGE LOCATION	5 SEC.	17S TOWNSHIP	37E RANGE

Tubular Data

Completed  
6-20-52

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

6-20-55  
5 9/2" 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 SX  
~~3000~~  
 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	SEC.	TOWNSHIP	RANGE
1	330' FNL & 330' FWL	5	17S	37E
WELL NO..	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 10-3/4" Cemented with 175 SX  
 TOC: Surface feet determined by <sup>circ.</sup> 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

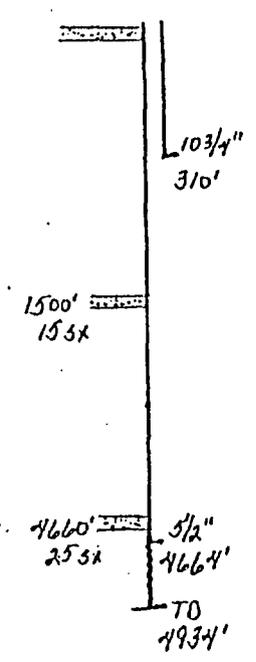
- feet to - feet  
 (perforated or open-hole, indicate which)

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

Other Data

- Name of the injection formation: NA
  - Name of Field or Pool (If applicable) Lovington
  - 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.

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

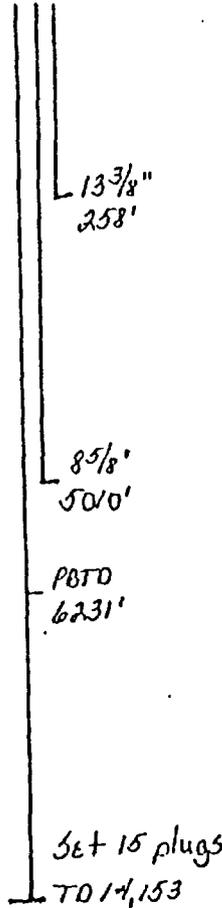


INJECTION WELL DATA SHEET

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 SEC.	T17S TOWNSHIP	R37E RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 200 SX  
 TOC: Surface feet determined by circulation  
 Hole size: 14 3/4"

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SX  
 TOC: 1774 feet determined by 50% calc  
 Hole Size: 10 1/4

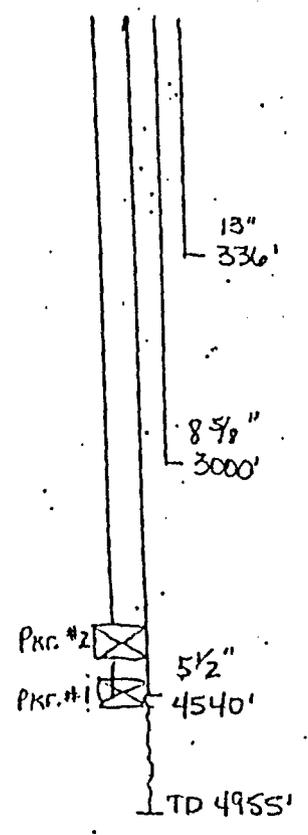
Long String

Size: 5 1/2 " Cemented with 200 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 4466 feet.  
 (brand & model)  
 (or describe any other casing-tubing seal). Pkr. #2 Howco R-3 set @ 4435'.

Other Data

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

INJECTION WELL DATA SHEET

enhill Petroleum Corporation

Lovington Paddock

OPERATOR

LEASE

510' FNL & 2190' FEL

6

17S

37E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with \_\_\_\_\_ 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: 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)

Tubing 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

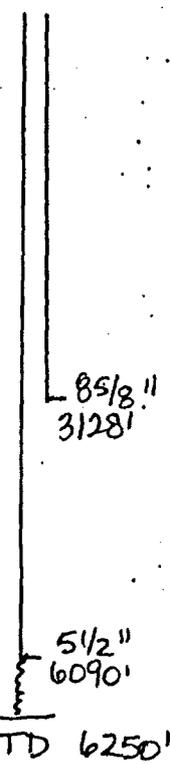
Name of Field or Pool (if applicable) Paddock

Is this a new well drilled for injection? No. Production

Has the well ever 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



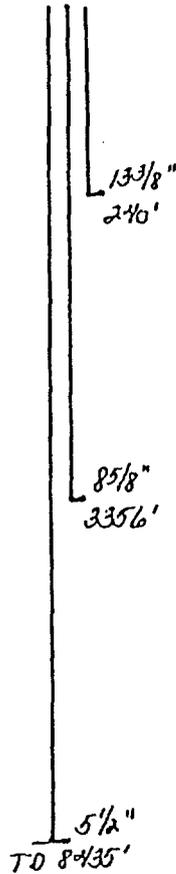
INJECTION WELL DATA SHEET

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

- 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.

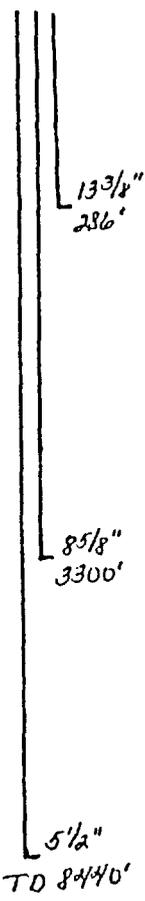
(Above) Drinkard

INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
5-18-52



Surface Casing

Size: 13-3/8" Cemented with 300 SX  
 TOC: Surface feet determined by <sup>CIRC</sup> 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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102

INJECTION WELL DATA SHEET

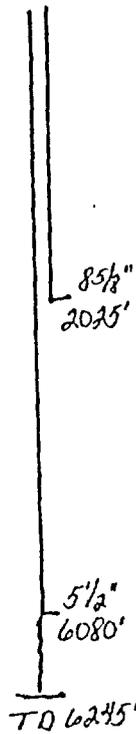
Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	(1740 FNL)	LEASE		
#51	3540' FEL & 480' FNL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completion: 9-23-53

Converted to Injection 12/66

Sg 275 SX at 4590-91



Surface Casing

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

TOC: Surface feet determined by <sup>Calc</sup> 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

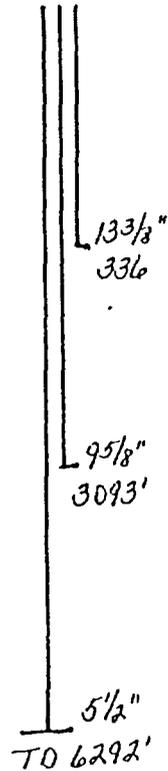
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals 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 catc  
Hole size: 17 1/4

Intermediate Casing

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

Long String

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

Total Depth: 6292'

Injection Interval

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

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

Other Data

- 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		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

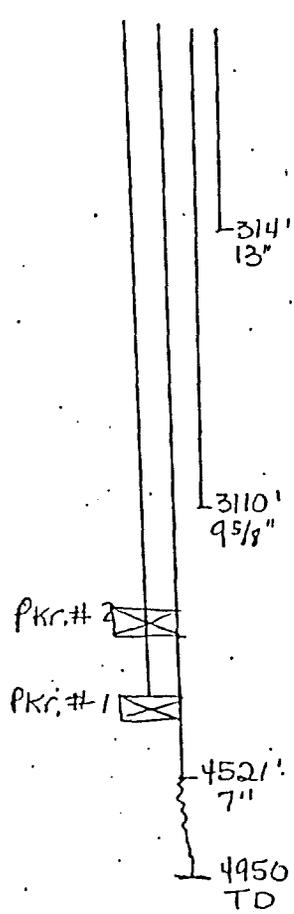
Size: 9 5/8 " Cemented with 500 SX  
 TOC: 1956 feet determined by 50% calc  
 Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX  
 TOC: 3264 feet determined by 80% calc  
 Hole Size: 8 3/4"  
 Total Depth: 4950'

Injection Interval

4521 feet 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 feet,  
 (brand & model)  
 (or describe any other casing-tubing seal). Packer #2 - 2 3/8" plastic lined tbg.  
 set in a 7" Guiberson Packer @ 4470'.

Other Data

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

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  
280 Hole size: 17-1/2"

Intermediate Casing  
 Size: 8-5/8 " Cemented with 1000 SX  
 TOC: 1497 3063 feet determined by TS 50% calc

8 5/8  
3198 Hole Size: 11"

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

5 1/2"  
8342 Hole Size: 7-7/8"

TD  
8430 Total Depth: 8430'

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

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

Other Data

- 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 OPERATOR Lovington San Andres Unit LEASE

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

Tubular Data

Surface Casing

Size: 13" Cemented with 200 SX

TOC: 94 feet determined by 70% calc

Hole size: 17 1/4"

13"

313'

Intermediate Casing

Size: 8 5/8" Cemented with 250 SX

TOC: 2352 feet determined by 70% calc

Hole Size: 11"

8 5/8"

3109'

Long String

Size: 5 1/2" Cemented with 200 SX

TOC: 3702 feet determined by 70% calc

Hole Size: 7 7/8"

5 1/2"

459'

Total Depth: 4900'

TD 4900'

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

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

Completed 10/15/39

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INJECTION WELL DATA SHEET

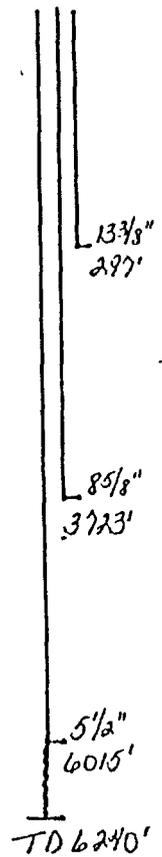
Greenhill Petroleum Corporation

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<sup>Circ</sup>

Hole size: 17-1/2"

Intermediate Casing

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

TOC: <sup>390</sup> Surface feet determined by calc<sup>TS</sup>

Hole size: 11"

Long String

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

TOC: <sup>372'</sup> 3019 feet determined by <sup>TS</sup> 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



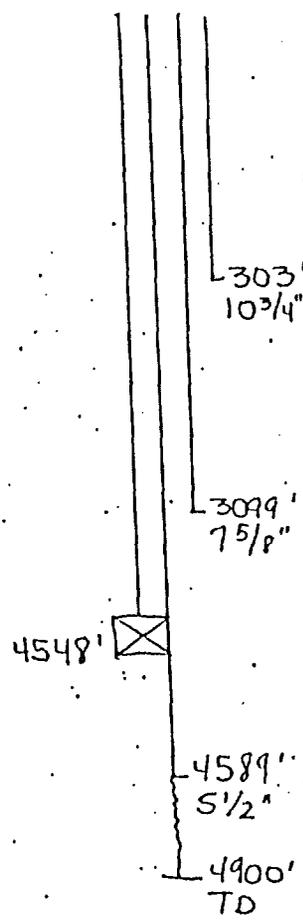
INJECTION WELL DATA SHEET

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

Completed  
1/1/40



Surface Casing  
 Size: 10 3/4 " Cemented with 180 SX  
 TOC: Surface feet determined by circulation  
 Hole size: 13 3/4

Intermediate Casing  
 Size: 7 5/8 " Cemented with 265 SX  
 TOC: 2200' feet determined by 50% calc  
 Hole Size: 9 7/8

Long String  
 Size: 5 1/2 " Cemented with 200 SX  
 TOC: 2326 feet determined by 80% calc.  
 Hole Size: 6 3/4"  
 Total Depth: 4900'

Injection Interval  
4589 feet to 4900 feet  
 (perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC set in a  
 (material)  
Baker "A" Pension packer at 4548 feet.  
 (brand & model)  
 (or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 300 SX  
 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

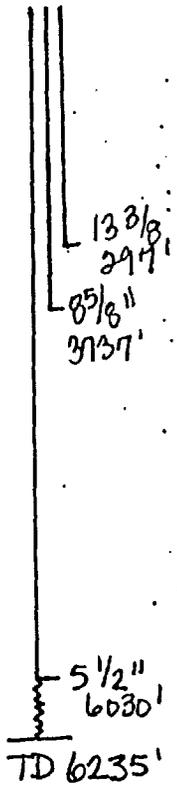
Long String

Size: 5 1/2 " Cemented with 550 SX  
 TOC: 3712 feet determined by temp survey  
 Hole Size: 7 1/8  
 Total Depth: 6235'

Injection Interval

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

Deepen to 6260



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

Other Data

- 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 <sup>1200</sup> 1000 SX

TOC: Surface feet determined by <sup>circ</sup> ~~gate~~

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with <sup>300</sup> 102 SX

TOC: <sup>4147</sup> 5055 feet determined by <sup>TS</sup> ~~gate~~

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
- 
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

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

Tubular Data

Completed 2-25-53

P&A'd 4-26-84

CIBP set @8103'  
 Pumped 15 sx Set retainer @ 4261'  
 Pumped 346 sx Set retainer @ 1326'  
 Pumped 900 sx Spotted 15 sx cement surface plug

Surface Casing

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

TOC: Surface feet determined by circ. calc

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 <sup>+ 500 per life</sup>

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

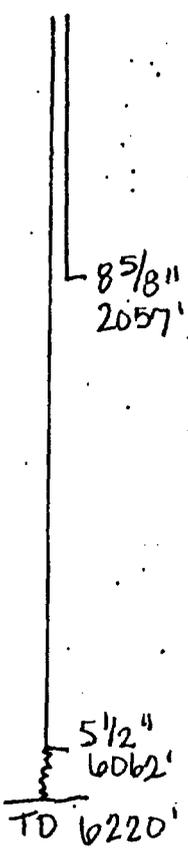
Lovington Paddock

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

Tubular Data

Spud Date  
11-20-54

Deepen to 6300'



Surface Casing

Size: 8 5/8" Cemented with 1250 SX

TOC: Surface feet determined by calc

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 350 SX

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

Hole Size: 7 7/8"

Total Depth: 6220'

Injection Interval

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

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

Other Data

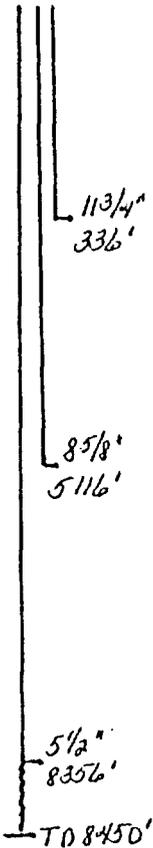
- Name of the injection formation Paddock
- Name of Field or Pool (if applicable) Paddock
- Is this a new well drilled for injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and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

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 SK

TOC: Surface feet determined by circulation

Hole size: 17 1/4"

Intermediate Casing

Size: 8 5/8" Cemented with 500 SK

TOC: 1597 feet determined by 50% calc

Hole Size: 12"

Long String

Size: 5 1/2" Cemented with 300 SK

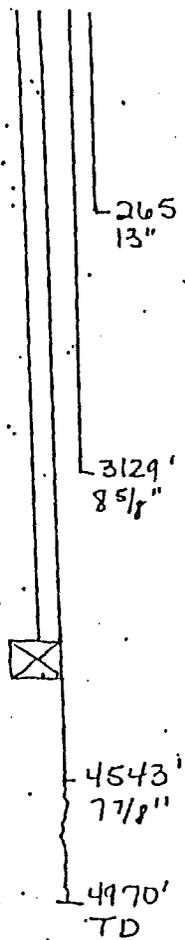
TOC: 2910 feet determined by 80% calc

Hole Size: 7 7/8"

Total Depth: 4970'

Injection Interval

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



Completed 12/2/39

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

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

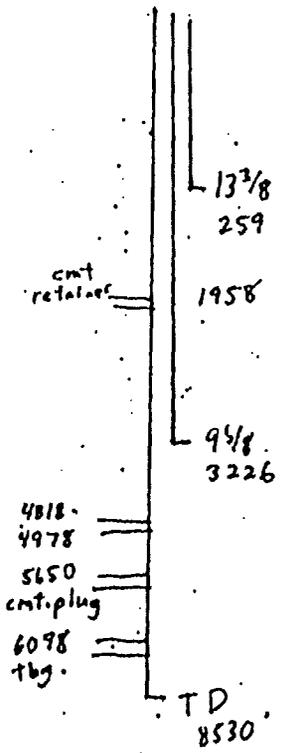
INJECTION WELL DATA SHEET

Amoco	State "E" TR 18			
OPERATOR	LEASE			
18	330' ENL & 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 SK  
 TOC: Surface feet determined by circ. cal.  
 Hole size: 17-1/2"

Intermediate Casing  
 Size: 9-5/8" Cemented with 300 SK  
 TOC: 2246 1600 feet determined by 50% calc 75  
 Hole Size: 12-1/4"

Long String  
 Size: 7" Cemented with 550+550 cu ft SK  
 TOC: 4975 feet determined by 80% calc TS  
 Hole Size: 8-5/8"

Total Depth: 8530'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Completed  
2-9-55

Converted to  
Injection 12/66



Surface Casing

Size: 8-5/8" Cemented with 1350 SX  
 TOC: Surface feet determined by <sup>circ</sup>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 350 SX  
 TOC: 3865 feet determined by 80% calc  
 Hole size: 7-7/8"

Total Depth: 6235'

Injection Interval

6111 feet to 6235 feet  
(perforated or open-hole, indicate which)

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

Other Data

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

#29 WELL NO. 660 FNL & 660 FEL FOOTAGE LOCATION 2 SEC. T17S TOWNSHIP R36E RANGE

Tubular Data

Surface Casing

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

204' Intermediate Casing

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

Long String

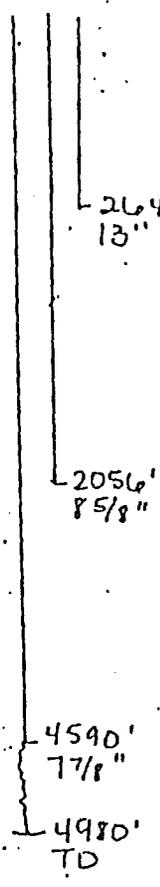
Size: 5 1/2" Cemented with 380 SX TOC: 2518 feet determined by 80% calc Hole Size: 7 7/8"

Total Depth: 4980'

Injection Interval

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

Completed 1/21/42



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) 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

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

Tubular Data

Completed  
11-9-53

Converted to  
SWD 3-9-79

Deepened to  
8987' 3-9-79

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: 12-1/4"

Long String

Size: 7" Cemented with 550 SX

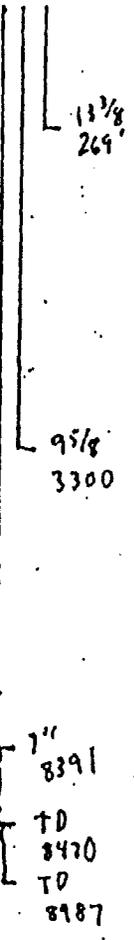
TOC: 3375 feet determined by temp survey

Hole Size: 8-3/4"

Total Depth: 8470'

Injection Interval

8391 feet to 8987 feet  
(perforated or open-hole, indicate which)



7" csg. sgd w/  
600sx at 4722  
TOC 3375 by TS

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 13" Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 15"

297' Intermediate Casing

18" Size: 9 5/8" Cemented with 500 SX

TOC: 1506 feet determined by 50% calc

Hole Size: 12"

3139' Long String

9 5/8" Size: 7" Cemented with 200 SX

TOC: 3265 feet determined by 80% calc

4522' Hole Size: 8 3/4"

7" Total Depth: 4945'

4975' Injection Interval

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

Completed 10/28/39

Tubing size 2 7/8" lined with IPC set in a packer at 4570 feet. (material)

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

SWD

INJECTION WELL DATA SHEET

122

Rice Engineering  
~~Ohio Oil Company~~

*Abc SWD System*

~~State B-4286 "A"~~

OPERATOR	LEASE			
1 2310' FWL & 990' FNL	2 17S 36E			
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

TOC: Surface feet determined by <sup>circ</sup>calc

Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8" Cemented with 1750 SX

TOC: Circ to Sur. feet determined by calc

Hole size: 12"

Long String

Size: 5-1/2" Cemented with 1350 SX

TOC: 3484 feet determined by 80% calc

Hole size: 8-3/4"

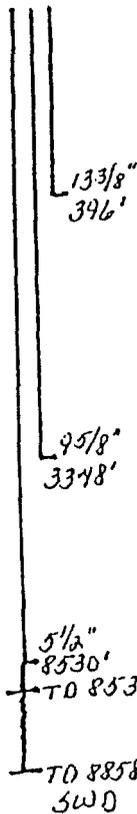
Total Depth: 8534'

Injection Interval

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

Completed  
2-8-54

Rice Engrg.  
Deepened to  
8858' &  
Converted to  
a SWD Well



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?  
If no, for what purpose was the well originally drilled?
  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).
- 
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp.  
OPERATOR

Lovington Paddock  
LEASE

85  
WELL NO.

1590 FWL & 1417 FNL  
FOOTAGE LOCATION

Sec. 1  
SEC.

T17S-R36E  
TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 13 7/8 " Cemented with 500 SK

TOC: Surface feet determined by calc

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 900 SK

TOC: 201 feet determined by 50% calc

Hole Size: 11

Long String

Size: 5 1/2 " Cemented with 1230 SK

TOC: Surface feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 6400

Injection Interval

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

Tubing size                      lined with                      set in a  
                     (material)

                     packer at                      feet.  
(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation                     

2. Name of Field or Pool (if applicable) Lovington Paddock

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

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

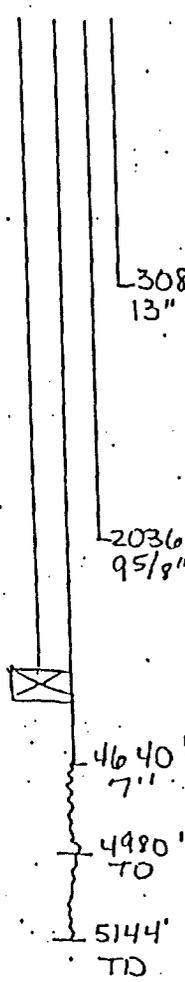
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

(above) Glorietta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#57	660 FSL & 660 FWL	36	T16S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Completed  
8/25/39

Deepened  
5144'  
11/86

Surface Casing

Size: 13 " Cemented with 200 SK

TOC: Surface feet determined by circulation

Hole size: 17"

Intermediate Casing

Size: 9 5/8 " Cemented with 200 SK

TOC: 1509 feet determined by 70% calc

Hole Size: 12 1/4 "

Long String

Size: 7 " Cemented with 250 SK

TOC: 3266 feet determined by 70% calc

Hole Size: 8 3/4"

Total Depth: 5144'

Injection Interval

4640 feet to 5144 feet  
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with IPC set in a  
(material)  
waterflood tension packer at 4620 feet.  
(brand & model)  
(or describe any other casing-tubing seal).

Other Data

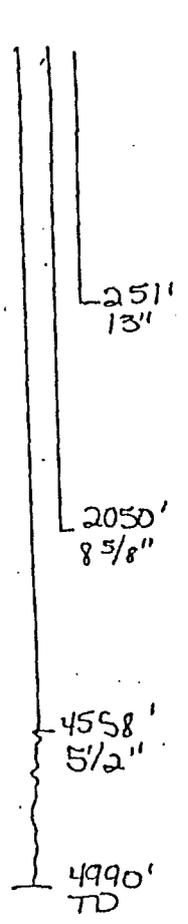
- Name of the injection formation San Andres
- Name of Field or Pool (IF applicable) Lovington San Andres
- Is this a new well drilled for injection? No  
IF no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated 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		
#44	1980' FNL & 660' FEL	2	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
8-31-41



Surface Casing  
 Size: 13 " Cemented with 210 SX  
 TOC: Surface feet determined by calc  
 Hole size: 17"

Intermediate Casing  
 Size: 8-5/8 " Cemented with 600 SX  
 TOC: 212 feet determined by calc  
 Hole Size: 11"

Long String  
 Size: 5-1/2 " Cemented with 400 SX  
 TOC: 2377 feet determined by calc  
 Hole Size: 7-7/8"  
 Total Depth: 4990'

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

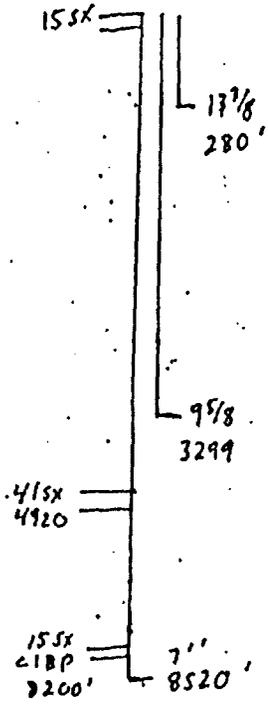
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No  
 If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

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

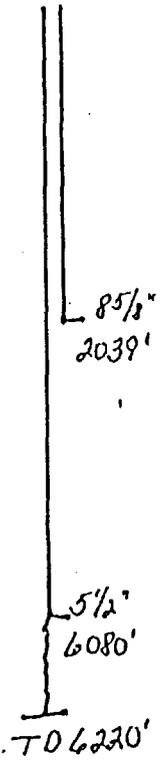
Other Data

- 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 Data



Surface 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: 3847 feet determined by <sup>temp survey</sup> ~~80% calc~~  
 Hole size: 7-7/8"  
 Total Depth: 6220'

Injection Interval  
 6080 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
- 
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

Penrqs

State "E" TR 18

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

Tubular Data

Completed  
7-29-53



Surface Casing

Size: 13-3/8 " Cemented with 332 SK

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: 1537 feet determined by 75 50% calc

Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with 225 SK

TOC: 6775 feet determined by temp survey

Hole Size: 8-3/4"

Total Depth: 8530'

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

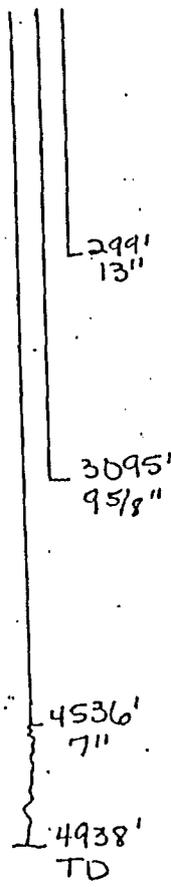
- Name of the injection formation -
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and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

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

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

Other Data

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

INJECTION WELL DATA SHEET

PENROC OPERATOR 17	State "E" TR 18 LEASE	17S	36E
1650' FNL & 2310' FWL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 13-3/8" Cemented with 275 SX  
 TOC: Surface feet determined by calc  
 Hole size: 17-1/2"

Intermediate Casing

Size: 9-5/8" Cemented with 300 SX  
 TOC: 1550 feet determined by TS  
~~2316~~ 507 calc  
 Hole Size: 12-1/4"

Long String

Size: 7" Cemented with + 500 perlite  
500 SX  
 TOC: 5175 feet determined by Temp Survey  
 Hole Size: 8-3/4"

Total Depth: 8506'

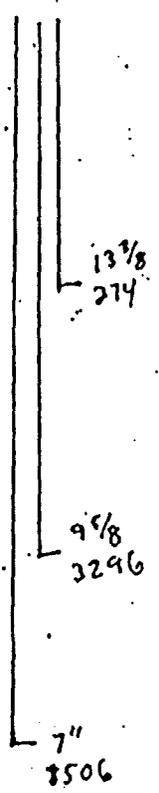
Injection Interval

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

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

Other Data

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

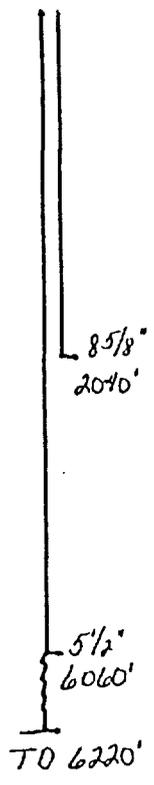


INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#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 <sup>CIRC</sup> ~~calc~~

Hole size: 12 1/4

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3841 feet determined by temp <sup>file</sup> 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
- 
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

#41

1980' FNL & 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: 8-5/8" " Cemented with 250 SX

TOC: 2332 feet determined by calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 200 SX

TOC: 3501 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 4903

Injection Interval

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

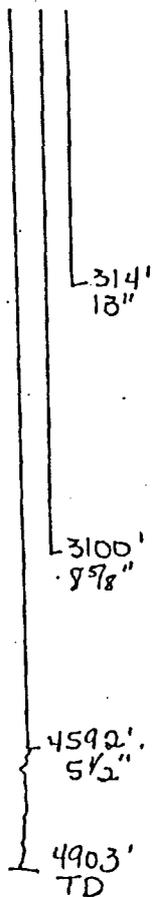
Tubing size lined with (material) set in a packer at feet.

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

Other Data

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

Completed 9-22-39



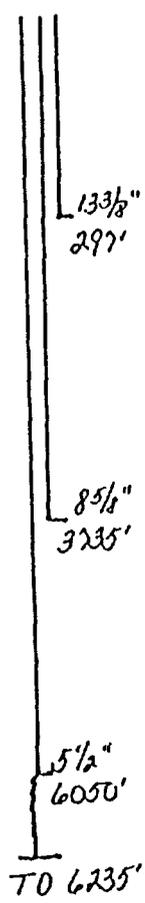
INJECTION WELL DATA SHEET

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: <sup>1028</sup>Surface feet determined by <sup>TS</sup>calc

Hole size: 11"

Long String

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

TOC: ~~3054~~ <sup>3618</sup> feet determined by <sup>TS</sup>~~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

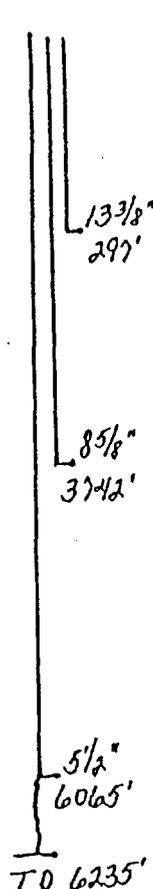
Greenhill Petroleum Corporation

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 <sup>circ</sup> ~~calc~~

Hole size: 17 1/2"

Intermediate Casing

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

TOC: 588 feet determined by temp survey

Hole size: 11"

Long String

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

TOC: 3795 feet determined by temp survey

Hole size: 7 7/8"

Total Depth: 6235'

Injection Interval

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

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

Other Data

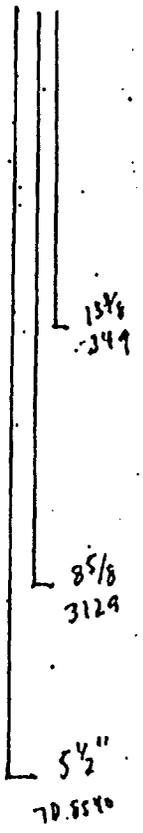
- Name of the injection formation:
  - Name of Field or Pool (If applicable) Paddock
  - Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).  
No
- 
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: 13-3/8 " Cemented with 300 SX  
 TOC: Surface feet determined by calc  
 Hole size: 17 1/2

Intermediate Casing

Size: 8-5/8 " Cemented with 1400 SX  
 TOC: Surface feet determined by calc  
 Hole Size: 11

Long String

Size: 5-1/2 " Cemented with 550 SX  
 TOC: 5454 4820 feet determined by TS  
 Hole Size: 7 3/4  
 Total Depth: 8450

Injection Interval

6028  
~~6028~~ ~~4820~~ 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

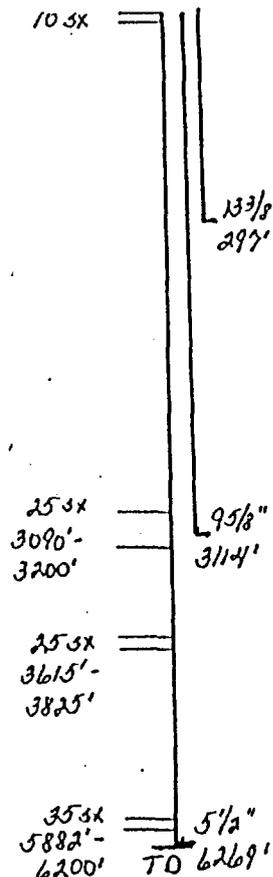
Sun Oil Company		M. Caylor		
OPERATOR		LEASE		
6	902' FWL & 1980' FNL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

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 <sup>circ</sup> ~~calc~~  
 Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with <sup>1550</sup> ~~1200~~ SX  
 TOC: Surface feet determined by <sup>circ</sup> ~~calc~~  
 Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with <sup>500</sup> ~~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

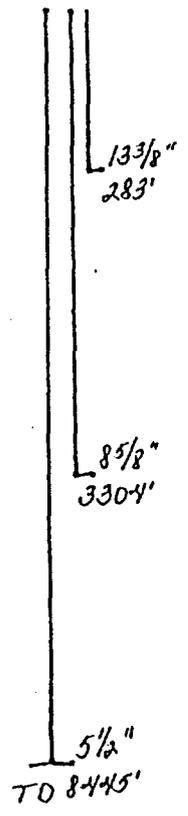
- Name of the injection formation:
  - Name of Field or Pool (If applicable) Lovington Paddock
  - Is this a new well drilled for Injection? No  
 If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

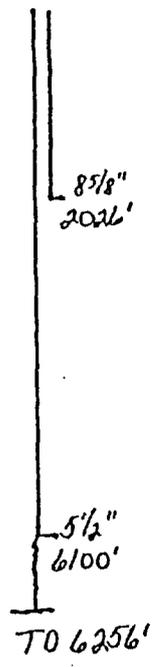
Greenhill Petroleum Corporation

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



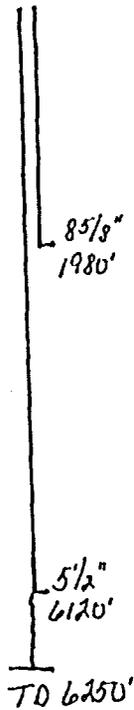
INJECTION WELL DATA SHEET

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 <sup>1025</sup>~~1595~~ SX

TOC: Surface feet determined by <sup>calc</sup>~~circ~~

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3971 feet determined by 80% calc

Hole size: 7 7/8

Total Depth: 6250'

Injection Interval

6120 feet to 6250 feet  
(perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with IPC set in a - packer  
at 6067 feet. (Or describe any other casing-tubing seal).

Other Data

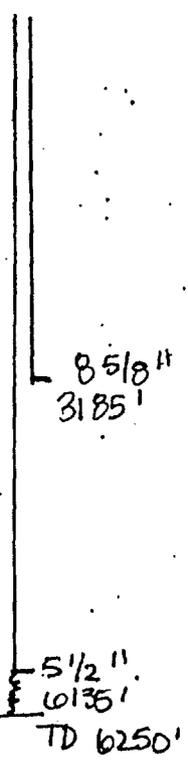
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals 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			
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: 11

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 (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 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

Tidewater Oil Company

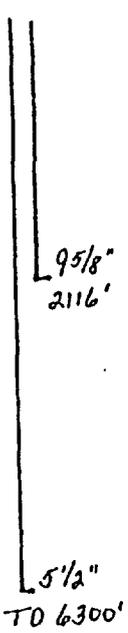
H. L. Batton "A"

OPERATOR	LEASE			
1	5 17S 37E			
1650 1653' FNL & 330' FWL				
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 <sup>circ</sup> ~~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: <sup>3380</sup> ~~1940~~ feet determined by <sup>TS</sup> ~~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

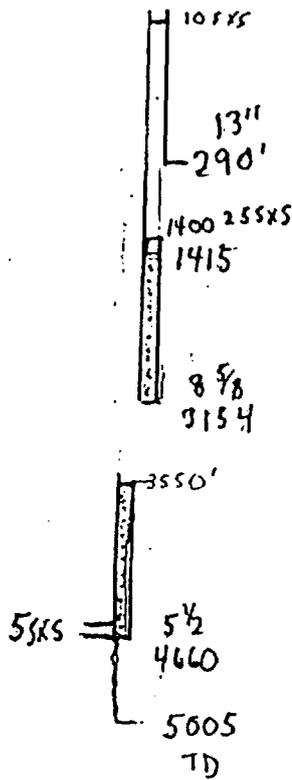
Samedan Oil Corp.  
OPERATOR

Caylor  
LEASE

1 330 Feet South of North Line 330 Feet East of West Line of SE 1/4 Sec. 6, T17S R37E  
WELL NO. FOOTAGE LOCATION 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.  
\_\_\_\_\_

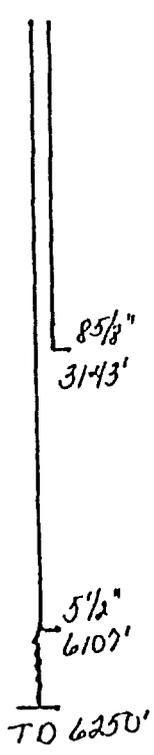
INJECTION WELL DATA SHEET

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

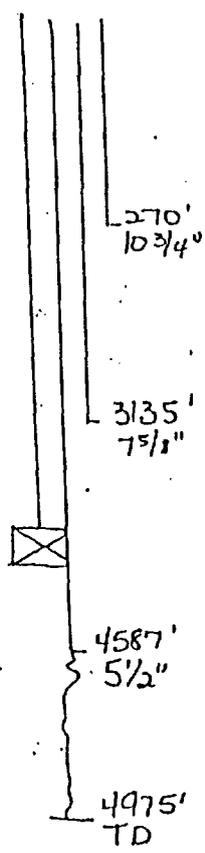
- Name of the injection formation: Paddock
  - Name of Field or Pool (If applicable) Paddock
  - Is this a new well drilled for Injection? No  
If no; for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#50	1980' FSL & 660' FWL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
10-2-39



Surface 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  
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

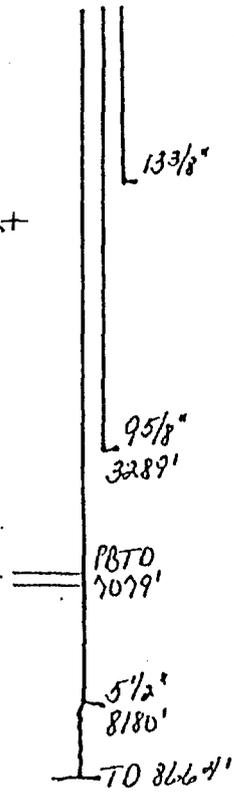
INJECTION WELL DATA SHEET

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 <sup>150' at and Below Du Tool</sup>  
 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

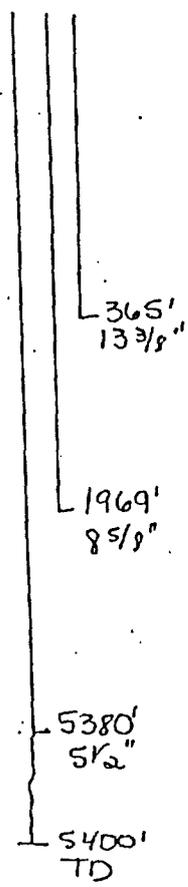
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give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

Tubular Data

Completed  
3-15-90



Surface Casing

Size: 13-3/8 " Cemented with 450 SX  
 TOC: Surface feet determined by circ.  
 Hole size: 17-1/2"

Intermediate Casing

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

Long String

Size: 5-1/2 " Cemented with 940 SX  
 TOC: 262 feet determined by calc  
 Hole Size: 7-7/8"

Total Depth: 5400'

Injection Interval

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

Tubing size \_\_\_\_\_ lined with \_\_\_\_\_ set in a  
 \_\_\_\_\_ 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

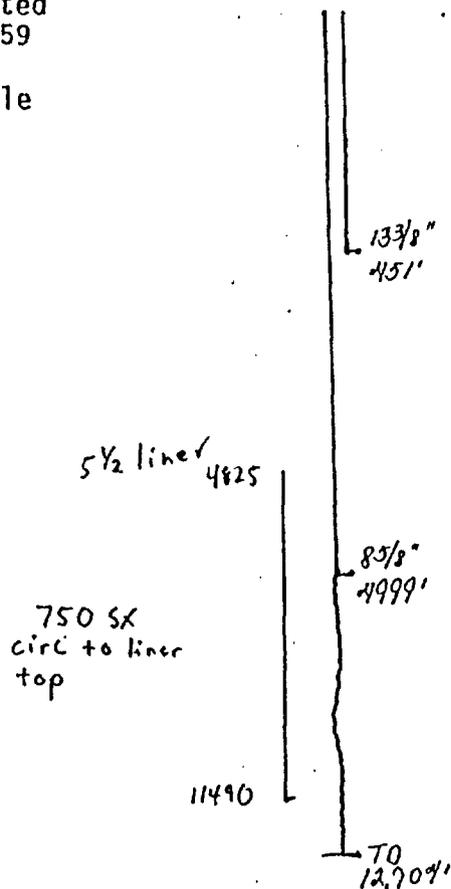
INJECTION WELL DATA SHEET

Araho		State L "C"		
OPERATOR		LEASE		
SWD 1-I	2190' FSL & 560' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
11-26-59

Dry Hole  
TA



Surface Casing

Size: 13-3/8" Cemented with 450 SX  
TOC: Surface feet determined by calc  
Hole size: 17-1/2"

Intermediate Casing

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

Long String

Size: 8-5/8" Cemented with 1500 SX  
TOC: <sup>2765</sup>Surface feet determined by <sup>75</sup>80% calc  
Hole size: 11"

Total Depth: 12,704

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

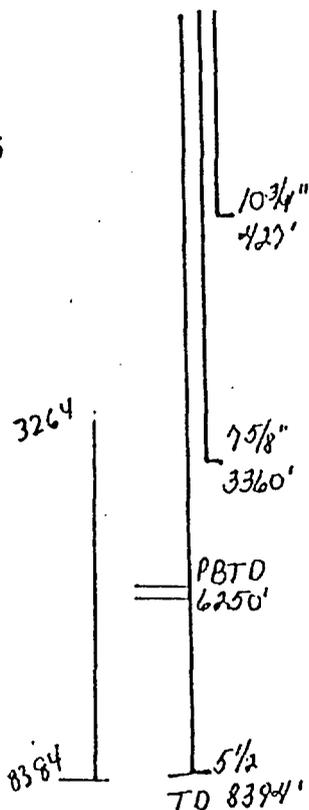
Lovington Paddock

OPERATOR				LEASE
#66	2080' FSL & 660' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
4-16-53

Converted to  
Injection 12/66



Surface Casing

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

TOC: Surface feet determined by <sup>circ</sup>~~calc~~

Hole size: 15

Intermediate Casing

Size: 7-5/8" Cemented with 2400 SX

TOC: Surface feet determined by <sup>circ</sup>~~calc~~

Hole size: 9-7/8"

Long String

Size: 5-1/2" Cemented with 950 SX

TOC: Surface feet determined by 80% calc

Hole size: 6-3/4"

Total Depth: 8394' 8662

Injection Interval

6134 feet to 6240 feet  
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer  
at 6066 feet. (Or describe any other casing-tubing seal).

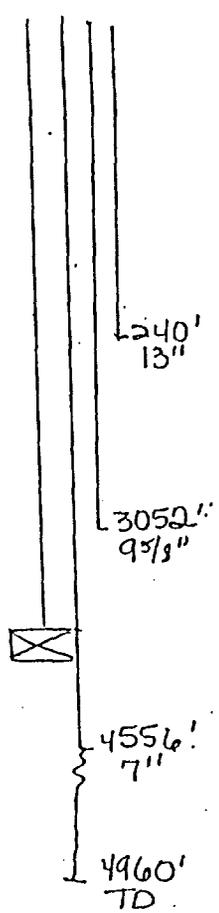
Other Data

- Name of the injection formation: Paddock
  - Name of Field or Pool (If applicable) Paddock
  - Is this a new well drilled for Injection? No  
If no, for what purpose was the well originally drilled? Production
  - Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used).  
No
- 
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		
#49	1980' FSL & 660' 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 circ.

Hole size: ?

Intermediate Casing

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

TOC: 2350 feet determined by calc

Hole Size: ?

Long String

Size: 7 " Cemented with 259' SX

TOC: 3090 feet determined by calc

Hole Size: ?

Total Depth: 4960'

Injection Interval

4556 feet to 4960 feet (perforated or open-hole, indicate which)

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

Other Data

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

## INJECTION WELL DATA SHEET

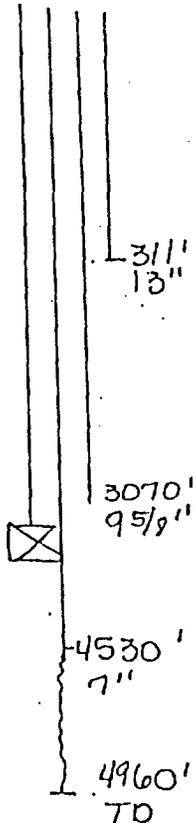
Greenhill Petroleum Corporation	Lovington San Andres			
OPERATOR	LEASE			
#48	1980' FSL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface CasingSize: 13 " Cemented with 250 SXTOC: Surface feet determined by calcHole size: 17-1/4"Intermediate CasingSize: 9-5/8 " Cemented with 250 SXTOC: 2251 feet determined by calcHole Size: 12"Long StringSize: 7 " Cemented with 225 SXTOC: 3119 feet determined by calcHole Size: 8-3/4"Total Depth: 4960'Injection Interval4530 feet to 4960 feet  
(perforated or open-hole, indicate which)Tubing size 2-7/8" lined with IPC set in a  
(material)Baker Model 'A' packer at 4526 feet.  
(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

Completed  
5-21-39



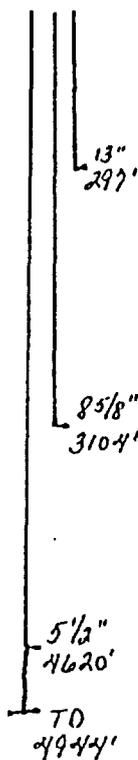
## INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
7-6-39

Converted  
to Injection  
8-6-69

Surface Casing

Size: 13" Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 1572 feet determined by 50% calc

Hole size: 11"

Long String

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

TOC: 3367 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4944'

Injection Interval

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

Tubing size 2-3/8" lined with IPC set in a - packer  
at 4517 feet. (Or describe any other casing-tubing seal).

Other Data

- 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

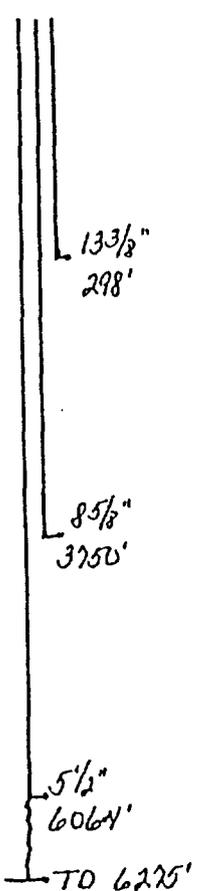
INJECTION WELL DATA SHEET

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 <sup>295</sup>~~300~~ SX  
 TOC: Surface feet determined by <sup>circ</sup>~~calc~~  
 Hole size: 1 7/8"

Intermediate Casing

Size: 8-5/8" Cemented with 1500 SX  
 TOC: Surface feet determined by <sup>607</sup>~~calc~~ <sup>TS</sup>  
 Hole size: //

Long String

Size: 5-1/2" Cemented with 550 SX  
 TOC: <sup>3834</sup>~~3068~~ feet determined by <sup>TS</sup>~~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
- 
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		
#46	660' FWL & 1980' FSL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

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

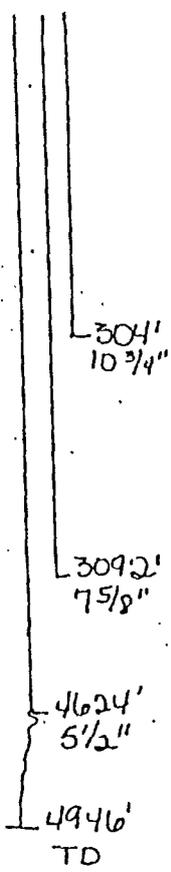
4624 feet to 4946 feet  
 (perforated or open-hole, indicate which)

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

Completed  
 12-7-41  
 P&A'd  
 5-22-87  
 12c 5 1/2" casing 2685-4150  
 200 SFS.  
 5 1/2" at 2400'  
 30 SFS. 2450-2350  
 p 880 SFS. Displaced down  
 to 1000'



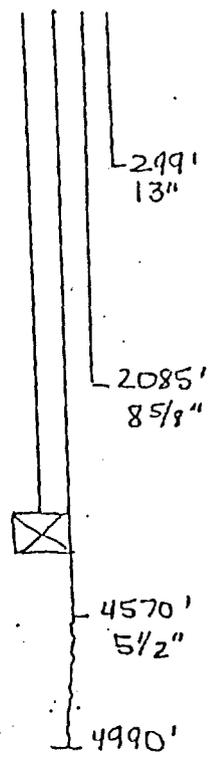
INJECTION WELL DATA SHEET

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

Tubular Data

Completed  
5-15-41

Deepen to 5070



Surface Casing

Size: 13 " Cemented with 180 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 860 feet determined by calc

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 200 SX

TOC: 3479 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 4990'

Injection Interval

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

Tubing size 2- /8 lined with IPC set in a  
(material)  
packer at 4550 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

53

660 FSL & 1980 FWL

1

T17S-R36E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 13" Cemented with 300 SX

TOC: Surface feet determined by circ

Hole size: 17 1/2

Intermediate Casing

Size: 9 5/8" Cemented with 500 SX

TOC: 1475 feet determined by 80% calc.

Hole Size: 12 1/4

Long String

Size: 5 1/2" Cemented with 55 SX

TOC: 4418 feet determined by 80% calc.

Hole Size: 8 3/4

Total Depth: 4815

Injection Interval

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

Tubing size lined with set in a packer at feet.

(brand & model)

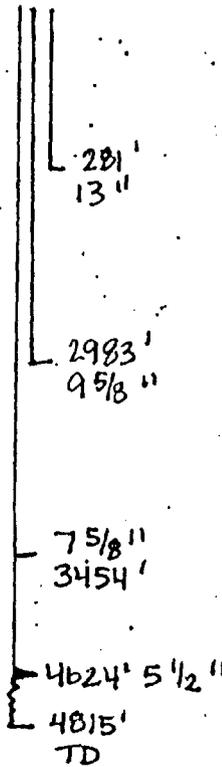
(or describe any other casing-tubing seal).

Other Data

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

overlying Grayburg

Completed 1/39





164

INJECTION WELL DATA SHEET

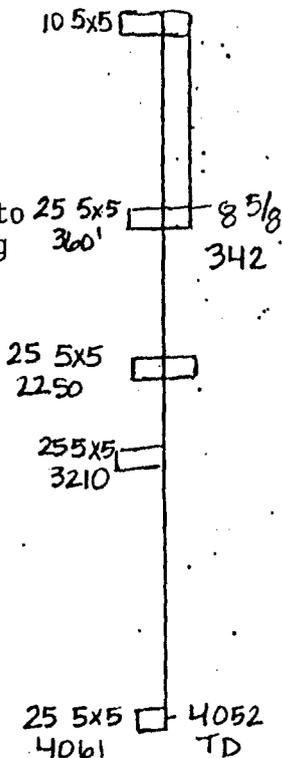
Compass Exploration, Inc.

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

Tubular Data

Completed 12/61  
P&A 12/61

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



Surface Casing

Size: 8 5/8" Cemented with 175 SX

TOC: Surface: feet determined by circ.

Hole size: 10 3/4

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Long String

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Total Depth: 4052

Injection Interval

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

Tubing size lined with set in a packer at feet. (material)

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp.  
OPERATOR

Louington Paddock  
LEASE

71  
WELL NO.

660 ESL & 660 FEL  
FOOTAGE LOCATION

1  
SEC.

T17S - R36E  
TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 13 7/8" Cemented with 350 1950 SX

TOG: surface feet determined by circulation

Hole size: 17 1/2"

Intermediate Casing

Size: 8 5/8" Cemented with 1950 SX

TOG: 175 surface feet determined by calc. file

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 560 SX

TOG: 5000 5019 feet determined by 80% calc. file

Hole Size: \_\_\_\_\_

Total Depth: 6300

Injection Interval

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

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

Other Data

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

nd 5/6/56

13 7/8  
358

Top of  
liner  
3269  
8 5/8"  
3390'

5 1/2"  
TD 6300  
560 SX  
235 bottom  
325 top

INJECTION WELL DATA SHEET

Texaco OPERATOR C. 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

PBTD 7915 Perf 4600-4784'

Dec 27 Sg 2 5 1/2 at 4981 E 5042 w/1905' Y02 38 57 M01 80 Sg 2 5 1/2 from 5010 to 4995 w/505'

13 3/8 244' 5 1/8 3253 7915 PBTD 5 1/2 8200 7D 8665

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole Size: 12-1/4"

Long String

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

TOC: 4377 feet determined by 80% calc

Hole Size: 7-7/8"

Total Depth: 8665'

Injection Interval

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

Tubing size lined with set in a 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

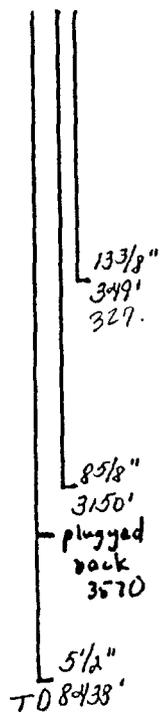
Tubular Data

Completed  
3-19-52

Sidetrack  
6-28-90

Well Plugged  
Back to 3570'  
Wellbore has  
8-5/8" csg.  
set @ 3150' &  
cmtd. w/1200  
SXS  
sidetracked

5 1/2" set at 5297'  
30 SX below 170 above  
TOC 3570



Surface Casing

Size: 13-3/8" Cemented with 300 SX  
TOC: Surface feet determined by calc <sup>CIRC</sup>

Hole size: 17-1/4"

Intermediate Casing

Size: 8-5/8" Cemented with 1200 SX  
TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 410 SX  
TOC: <sup>3117</sup> ~~6057~~ feet determined by <sup>temp survey</sup> ~~calc~~ <sub>provided by Oryx</sub>

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).

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

OPERATOR Tipperary Oil & Gas Corp LEASE Mansanto 30 ST  
 WELL NO. 1 FOOTAGE LOCATION 6605 1980 C SECTION 30 TOWNSHIP 16S RANGE 37E

Schematic

4 1/2 8 5/8 13 7/8

Tabular Data

Surface Casing  
 Size 13 7/8 " Cemented with 405 sx.  
 TOC Surface feet determined by Circ  
 Hole size 17/2

Intermediate Casing  
 Size 8 5/8 " Cemented with 1575 sx.  
 TOC Surface feet determined by Circ  
 Hole size 11

Long string  
 Size 4 1/2 " Cemented with 1450 sx.  
 TOC 4350 feet determined by file  
 Hole size 7 7/8  
 Total depth 11350

Injection interval  
 \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 (perforated or open-hole, indicate which)

405  
 4215  
 8826  
 TD 11350

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

Other Data

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

INJECTION WELL DATA SHEET

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

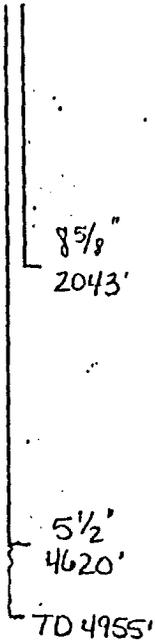
Total Depth: 4955'

Injection Interval

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

Completed  
1/5/49

deepen to 4990'  
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		
OPERATOR		LEASE		
15	1650' FSL & 1650' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed  
6-1-39

Deepened  
7-23-86

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 400 SX

TOC: 1818 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX

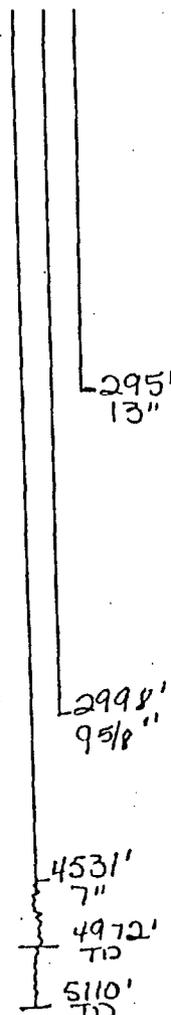
TOC: 3840 feet determined by calc

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

- 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		
#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)

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

Completed  
9/17/46  
deepen to  
5090

8 5/8"  
2050'

4623'  
5 1/2"

TD 4935'

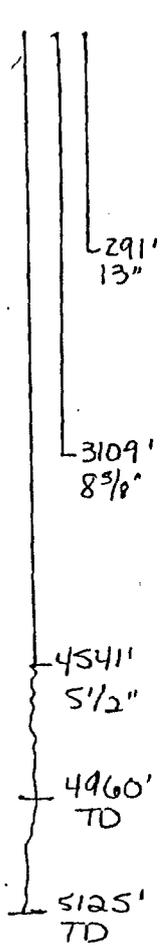
INJECTION WELL DATA SHEET

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

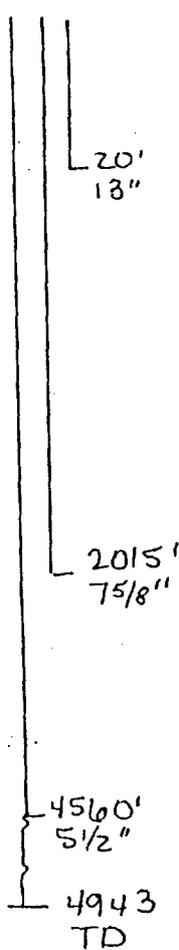
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No  
 If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated 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 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 3/8 — 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		
#40	1980 FNL & 660 FEL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 100 SX

TOG: Surface feet determined by circulation

Hole size: 17 1/4"

Intermediate Casing

Size: 8 5/8" Cemented with 600 SX

TOG: 1050 feet determined by calc 50%

Hole Size: 11"

Long String

Size: 5 1/2" Cemented with 300 SX

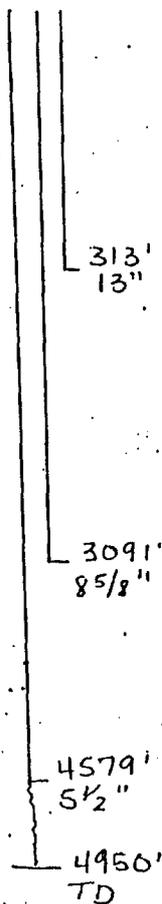
TOG: 3680 feet determined by calc 80%

Hole Size: 7 7/8"

Total Depth: 4950'

Injection Interval

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



Completed  
12/4/39

Tubing size 2 3/8 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) 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  
SEG.

T17S  
TOWNSHIP

R36E  
RANGE

Tubular Data

Surface Casing

Size: 13" Cemented with 200 SX

TOC: Surface feet determined by circulation

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8" Cemented with 600 SX

TOC: 199 feet determined by 50% calc

Hole Size: 11"

Long String

Size: 5 1/2" Cemented with 350 SX

TOC: 2679 feet determined by 80% calc

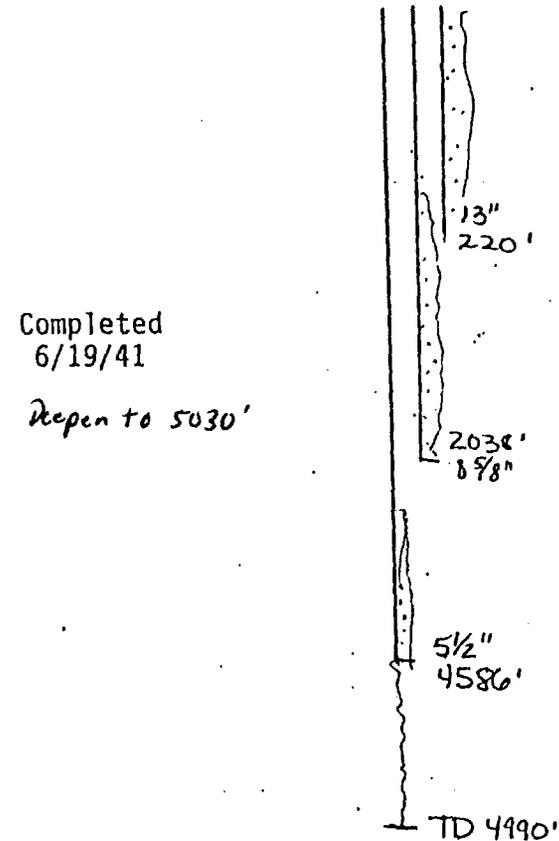
Hole Size: 7 7/8"

Total Depth: 4990'

Injection Interval

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

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).



Completed  
6/19/41  
Deepen to 5030'

TD 4990'

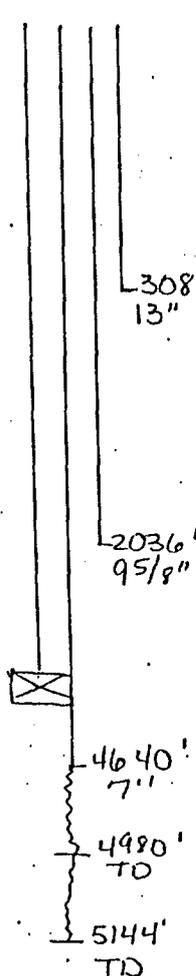
Other Data

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

<u>Greenhill Petroleum Corporation</u>	<u>Lovington San Andres Unit</u>		
OPERATOR	LEASE		
<u>#57</u>	<u>660 FSL &amp; 660 FWL</u>	<u>36</u>	<u>T16S R36E</u>
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"

Intermediate Casing  
 Size: 9 5/8 " Cemented with 200 SX  
 TOC: 1509 feet determined by 70% calc  
 Hole Size: 12 1/4 "

Long String  
 Size: 7 " Cemented with 250 SX  
 TOC: 3266 feet determined by 70% calc  
 Hole Size: 8 3/4 "

Total Depth: 5144'

Injection Interval  
4640 feet to 5144 feet  
 (perforated or open-hole, indicate which)

Completed  
8/25/39

Deepened  
5144'  
11/86

Tubing size 2 3/8 lined with \_\_\_\_\_ IPC set in a  
 \_\_\_\_\_ (material)  
Waterflood tension packer at 4620 feet.  
 (brand & model)  
 (or describe any other casing-tubing seal).

Other Data

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

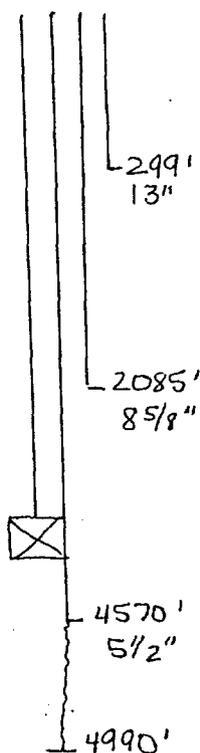
**INJECTION WELL DATA SHEET**

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

Tubular Data

Completed  
5-15-41

deepen to 5070



Surface Casing

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

Intermediate Casing

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

Long String

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

Injection Interval

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

Tubing size 2- /8 lined with IPC set in a  
 (material)  
packer at 4550 feet.  
 (brand & model)  
 (or describe any other casing-tubing seal).

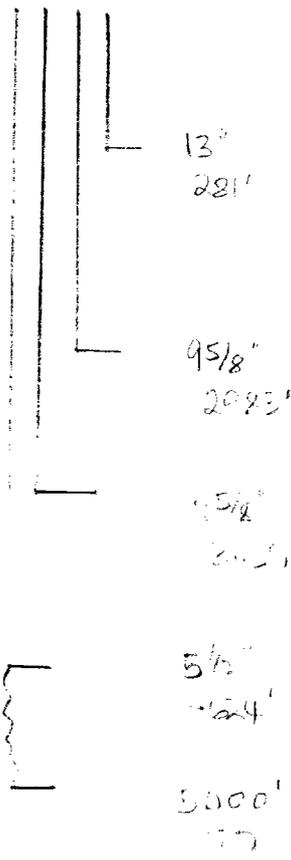
Other Data

- 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		
53	660 FSL & 1980 FWL	1	T17S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Surface Casing

Size: 13" Cemented with 300 SX

TOG: surface feet determined by calc.

Hole size: 17 1/2"

Intermediate Casing

Size: 9 5/8" Cemented with 500 SX

TOG: 1743 feet determined by 60% calc.

Hole Size: 12 1/4"

Long String

Size: 7 5/8" Cemented with 50 SX

TOG: 3147 feet determined by 60% calc.

Hole Size: 8 3/4"

Total Depth: 5000'

Injection Interval

2914 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 Grayburg San Andres
- Is this a new well drilled for injection? No  
 If no, for what purpose was the well originally drilled? prod.
- Has the well ever 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

62 1185 FNL & 152 FEL

2

T 17S- R 36E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 8 5/8" " Cemented with 275 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" " Cemented with 2050 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5120'

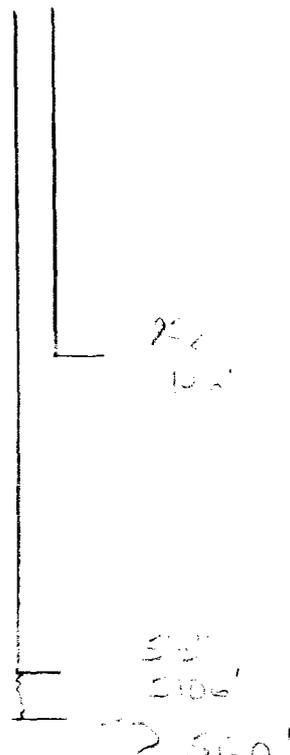
Injection Interval

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

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

Other Data

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



**INJECTION WELL DATA SHEET**

GREENHILL PETROLEUM CORPORATION

Lovington San Andres

OPERATOR		LEASE		
63	100 FSL & 115 FWL	.36	T 16S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 275 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1379 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5120'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		Lovington San Andres		
OPERATOR		LEASE		
64	80 FNL & 1330 FWL	1	T 17S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 275 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1250 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5113'

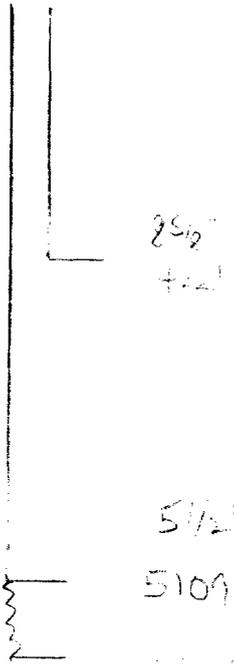
Injection Interval

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

Tubing size \_\_\_\_\_ lined with \_\_\_\_\_ set in a  
\_\_\_\_\_ (material) \_\_\_\_\_ 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 Grayburg San Andres
- Is this a new well drilled for injection? no  
If no, for what purpose was the well originally drilled? production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used). \_\_\_\_\_
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
Underlying Grayburg



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		Lovington San Andres		
OPERATOR		LEASE		
65	1168 FSL & 1330 FWL	36	T16S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" " Cemented with 325 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size:          " Cemented with          SX

TOC:          feet determined by         

Hole Size:         

Long String

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

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5112'

Injection Interval

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

Tubing size          lined with          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 Grayburg San Andres
- Is this a new well drilled for injection? no  
If no, for what purpose was the well originally drilled? production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
Underlying Grayburg

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		Lovington San Andres		
OPERATOR		LEASE		
71	1362 FSL & 1425 FEL	31	T 16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 550 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1150 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5075'

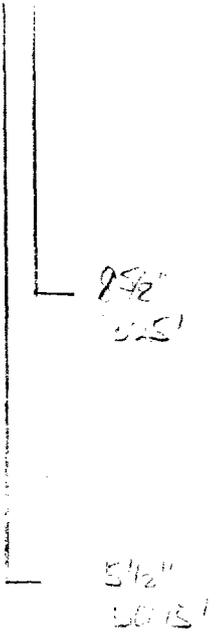
Injection Interval

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



**INJECTION WELL DATA SHEET**

GREENHILL PETROLEUM CORPORATION

Lovington San Andres

OPERATOR		LEASE		
73	1210 FNL & 1170 FEL	1	T 17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" " Cemented with 1300 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5054'

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

778  
406'  
5054'

**INJECTION WELL DATA SHEET**

GREENHILL PETROLEUM CORPORATION		Lovington San Andres		
OPERATOR		LEASE		
74	2520FNL & 1310 FEL	1	T 17S	R 36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" " Cemented with 1550 SX

TOC: surface feet determined by circ.

Hole Size: 7 7/8"

Total Depth: 5130'

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

7517  
405'  
  
515  
530'

INJECTION WELL DATA SHEET

R. J. Nelson		State Q		
OPERATOR		LEASE		
2	1650FSL & 1950 FWL	30	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 425 SX

TOC: 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 690 SX

TOC: 4078 feet determined by 60% calc.

Hole Size: 7 7/8

Total Depth: 6500'

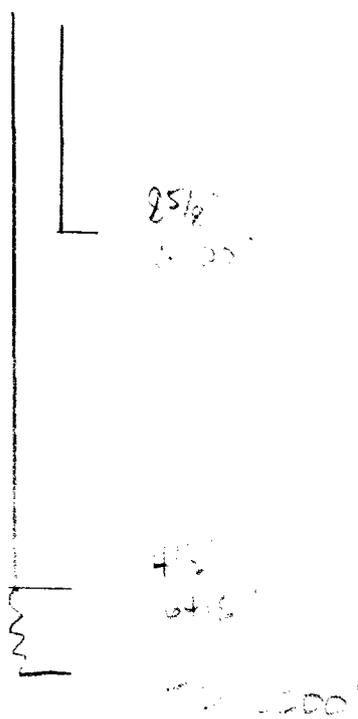
Injection Interval

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

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

Other Data

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

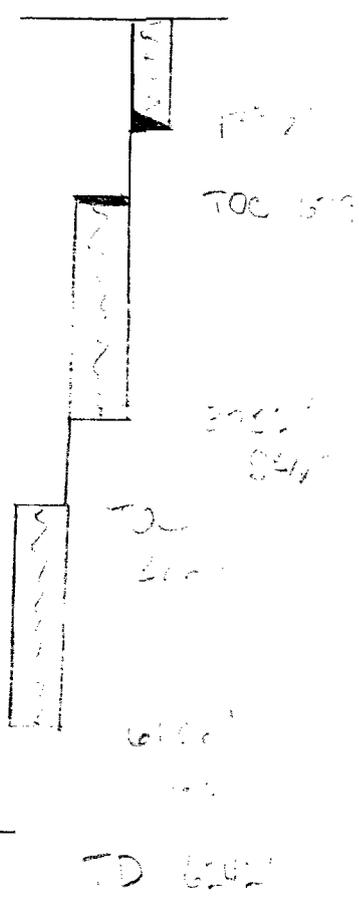
----- feet to ----- feet  
(perforated or open-hole, indicate which)

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

Other Data

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

OPERATOR		LEASE		
74	660 FSL & 330 FEL	2	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 10 3/4" Cemented with 400 SX

TOC: surface feet determined by circ.

Hole size: 13 3/4"

Intermediate Casing

Size: 7 5/8" Cemented with 1740 SX

TOC: 365 feet determined by temp. survey

Hole Size: 9 7/8"

Long String

Size: 5 1/2" Cemented with 800 SX

TOC: 3350 feet determined by temp. survey

Hole Size: 6 3/4"

Total Depth: 8801'

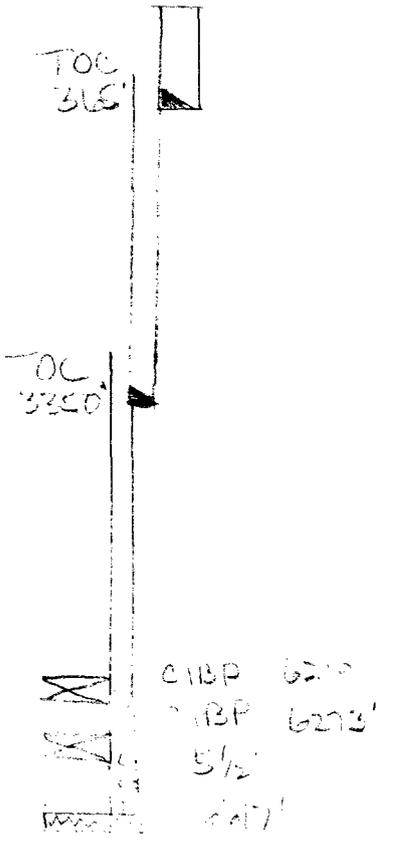
Injection Interval

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

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

Other Data

- Name of the injection formation -----
- Name of Field or Pool (If applicable) Lovington Paddock
- Is this a new well drilled for injection? no  
If no, for what purpose was the well originally drilled? production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
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 Unit		
OPERATOR		LEASE		
82	660 FSL & 1980 FEL	1	T17S-36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13" ~ Cemented with 200 SX  
 TOC: surface feet determined by calc.  
 Hole size: 17

Intermediate Casing

Size: 9 5/8" ~ Cemented with 550 SX  
 TOC: 1058 feet determined by calc.  
 Hole Size: 12"

Long String

Size: 7" ~ Cemented with 300 SX  
 TOC: 2500' feet determined by calc.  
 Hole Size: 8 3/4 "

Total Depth: 6204' →

*5" liner  
 set 6120' 150 SX  
 TOC 4404'*

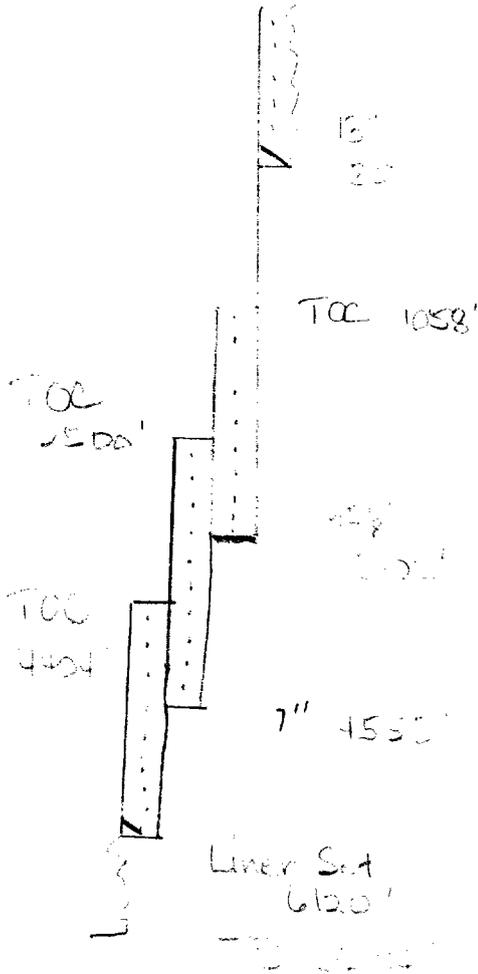
Injection Interval

6120 feet to 6204 feet  
 (perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with IPC set in a  
 (material)  
 packer at 6038 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) Lovington Paddock
- Is this a new well drilled for injection? No  
 If no, for what purpose was the well originally drilled? prod.
- Has the well ever 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		
99	1540 FEL & 1270FNL	6	T17S-R37E	
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 1200 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1750 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

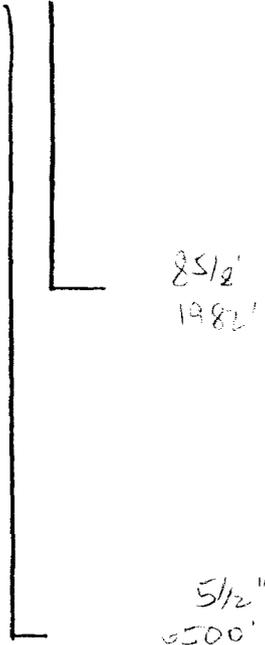
Injection Interval

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

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

Other Data

- 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? prod.
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
above-Glorietta



**INJECTION WELL DATA SHEET**

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
104	240 FWL & 75 FNL	31	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" " Cemented with 750 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" " Cemented with 1600 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6425'

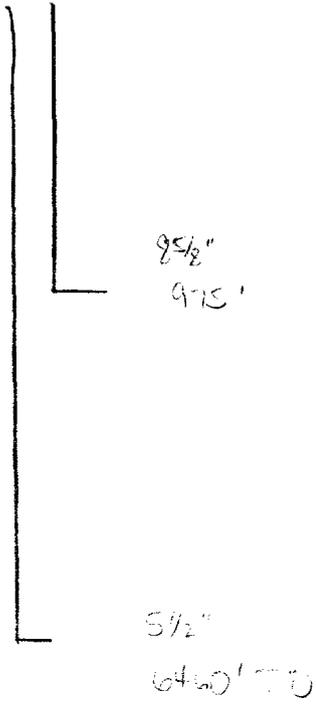
Injection Interval

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

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

Other Data

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



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
105	69 FNL & 1324 FWL	31	T 16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" ~ Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ ~ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" ~ Cemented with 1360 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6450'

Injection Interval

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

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

Other Data

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

8 5/8'  
1860'  
  
5 1/2'  
4150'

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
108	1615 FNL & 2715 FWL	31	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1520 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

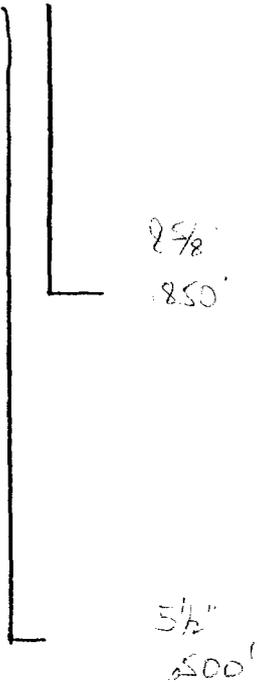
Injection Interval

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

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

Other Data

- 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? prod.
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
above-Glorietta



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR			LEASE		
109	2540 FNL & 2855FWL		31	T16S-R37E	
WELL NO.	FOOTAGE	LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" ~ Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ ~ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" ~ Cemented with 1585 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6450'

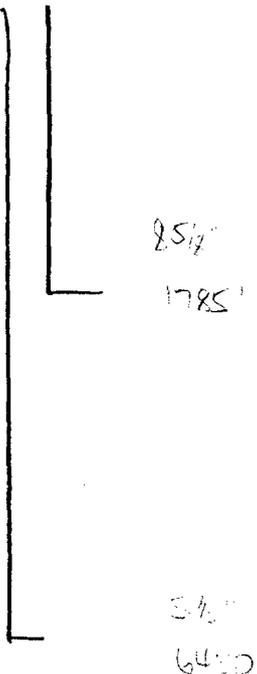
Injection Interval

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

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

Other Data

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



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR	LEASE			
110 1220 FSL & 1530 FWL	36	T16S-R36E		
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" " Cemented with 550 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ " Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

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

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6450'

Injection Interval

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

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

Other Data

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

9 5/8"  
1315'  
5'  
6-20'

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR	LEASE		
112	1370FSL & 2720 FWL	31	T16S-R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 600 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1400 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

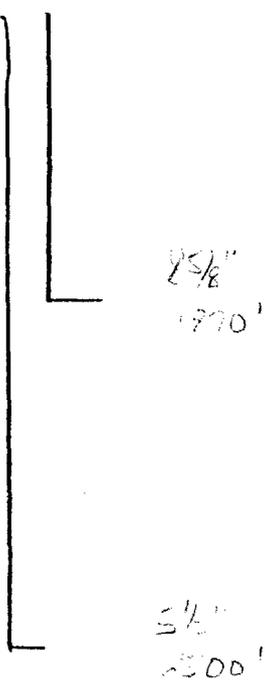
Injection Interval

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

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

Other Data

- 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? prod.
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
above-Glorietta



**INJECTION WELL DATA SHEET**

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR			LEASE		
113	1417 FSL & 1508 FEL		31	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEG.	TOWNSHIP	RANGE	

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 825 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1550 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

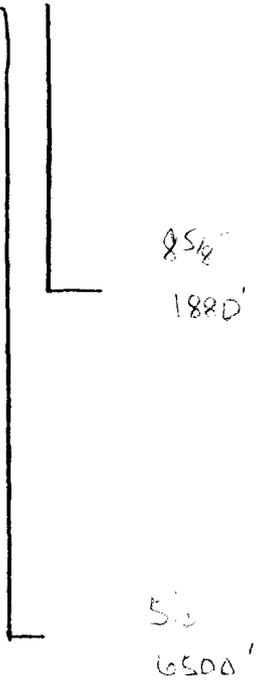
Injection Interval

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

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

Other Data

- 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? prod.
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
above-Glorietta



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
114	150 FSL & 1650FWL	36	T16S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1475 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6425'

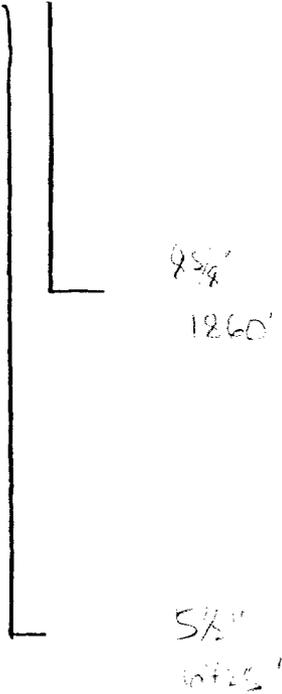
Injection Interval

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

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

Other Data

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



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
116	155 FSL & 1550 FEL	31	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1400 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

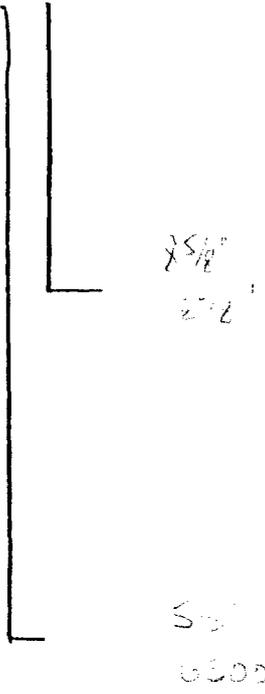
Injection Interval

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

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

Other Data

- 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? prod.
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
above-Glorietta



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		Lovington Paddock		
OPERATOR	LEASE			
117	1265 FNL & 2560 FEL	1	T17S-R36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1450 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

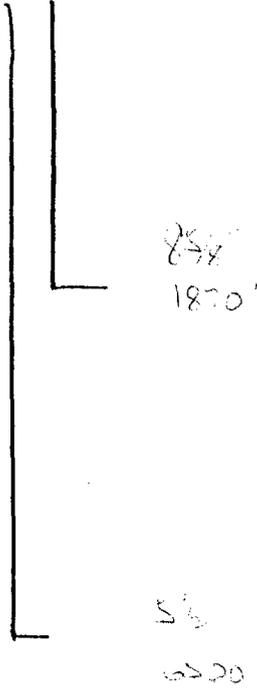
Injection Interval

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

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

Other Data

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



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR	LEASE		TOWNSHIP RANGE	
118	1210 FNL & 1280 FEL	1	T 17S-	R 36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 800 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1450 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6800'

Injection Interval

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

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

Other Data

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

Handwritten notes on the left side of the page:

- 2-6
- 2-0
- 58
- 700'

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
121	1100 FWL & 2500 FWL	6	T17S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" ~ Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ ~ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" ~ Cemented with 1300 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6450'

Injection Interval

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

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

Other Data

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

954  
1908'  
54  
6450'

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION		Lovington Paddock		
OPERATOR		LEASE		
122	2440 FNL & 117 FWL	6	T17S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1350 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6450'

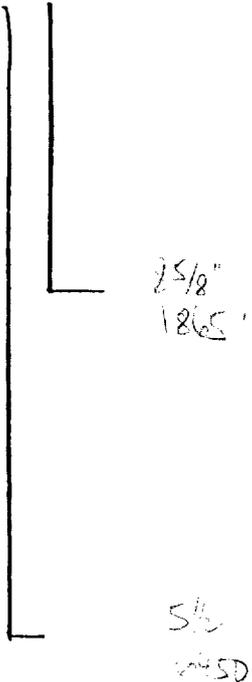
Injection Interval

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

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

Other Data

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



INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR	LEASE			
123	2525 FNL & 1420 FWL			
WELL NO.	FOOTAGE LOCATION			
	6			
	T17S-R37E			
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 700 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1550 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6500'

Injection Interval

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

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

Other Data

- 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? prod.
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).  
no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
above-Glorietta

above-Glorietta

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

OPERATOR		LEASE		
124	1450 FSL & 120 FWL	6	T17S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 8 5/8" Cemented with 950 SX

TOC: surface feet determined by circ.

Hole size: 12 1/4"

Intermediate Casing

Size: \_\_\_\_\_ Cemented with \_\_\_\_\_ SX

TOC: \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole Size: \_\_\_\_\_

Long String

Size: 5 1/2" Cemented with 1600 SX

TOC: surface feet determined by circulation

Hole Size: 7 7/8"

Total Depth: 6600'

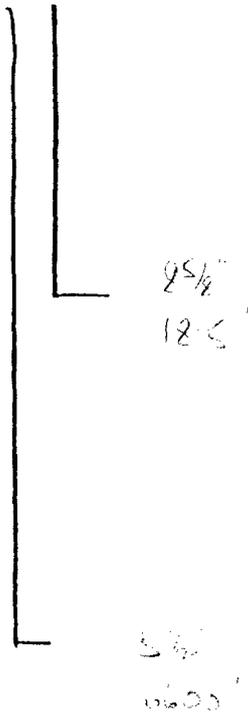
Injection Interval

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

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

Other Data

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



**INJECTION WELL DATA SHEET**

TEXACO		State P		
OPERATOR		LEASE		
4	1650 FWL & 990 FSL	32	T 16S R 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 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: 4550' feet determined by C-103  
 Hole Size: 7 5/8"  
 Total Depth: 8415'

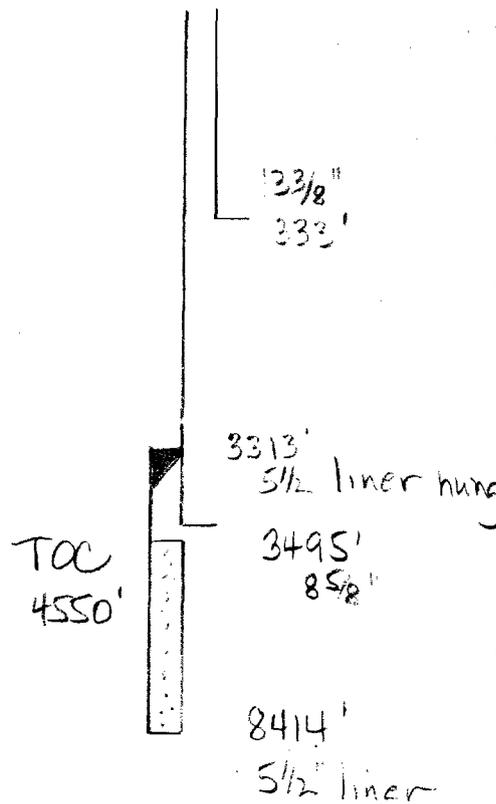
Injection Interval

----- 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.



**INJECTION WELL DATA SHEET**

CITIES SERVICE OIL COMPANY		STATE CG		
OPERATOR		LEASE		
1	660 FSL & 660 FEL	30	T16S-R37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

TOC: surface feet determined by 60% calc.

Hole size: 11 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: 4592 feet determined by 60% calc.

Hole Size: 7 7/8"

Total Depth: 6356'

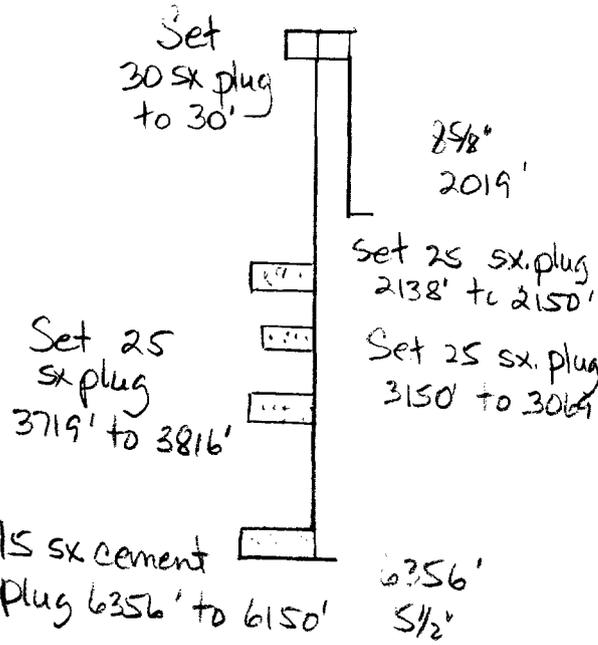
Injection Interval

\_\_\_\_\_ 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.  
\_\_\_\_\_



P<sub>1</sub> A  
1-29-66

**INJECTION WELL DATA SHEET**

UNITED PRODUCING CO., INC.		C. S. Caylor	
OPERATOR		LEASE	
2	4290 FNL and 660 FEL	6	T17S-R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Surface Casing



310'  
13"

2950'  
9 5/8"

4590'  
7"

Size: 13" Cemented with 250 SX

TOC: surface feet determined by circ.

Hole size: 15

Intermediate Casing

Size: 9 5/8" Cemented with 350 SX

TOC: 1117 feet determined by 60% calc.

Hole Size: 10 3/4"

Long String

Size: 7" Cemented with 300 SX

TOC: 3039 feet determined by 60% calc.

Hole Size: 8 1/4"

Total Depth: \_\_\_\_\_

Injection Interval

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

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

Other Data

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

**INJECTION WELL DATA SHEET**

TENNECO OIL COMPANY		State Q	
OPERATOR		LEASE	
4	2310 FNL & 1983 FWL	30	T16S-R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 8 5/8" " Cemented with 600 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 770 SX

TOC: 2900 feet determined by T.S.

Hole Size: 7 7/8"

Total Depth: 6505'

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.  
\_\_\_\_\_

2115'  
8 5/8"

6505'  
4 1/2"



# GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200  
HOUSTON, TEXAS 77077-6841  
TELEPHONE (713) 589-8484  
FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

April 20, 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. David Catanach

RE: Proof of Publication  
Lovington Paddock Area  
Lea County, New Mexico

Gentlemen:

Enclosed please find the proof of publication and return receipts from the offset operators covering the following conversion wells in the Lovington Paddock Area:

Lovington Paddock Wells  
#9, #10, #26, #35, #43, #63, #65, & #69

Please inform me if you need additional information.

Very truly yours,

Michael J. Newport  
Land Manager/Permian Basin

MJN/jem  
92.278

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

Feb. 25, 1992

and ending with the issue dated

Feb. 25, 1992

Kathi Bearden  
General Manager

Sworn and subscribed to before

me this 26 day of

February, 1992

Paul [Signature]

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**  
February 25, 1992  
Greenhill Petroleum Corporation, 11490 Westheimer, Suite 200, Houston, TX 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 Paddock 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 Wells Nos. within Sections 31 T16S-R37E, 35 T16S-R36E, 1 T17S-R36E and 6 T17S-R37E, Lea County, NM, Well Nos. 9, 10, 26, 35, 43, 63, 65, 69. The injection intervals are approximately between the depths of 6010' and 6838' in the Paddock formation. The maximum injection rates are 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, NM 87501, within fifteen (15) days.

**SENDER:**

- Complete items and/or 2 for additional services.
- Complete items and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. R. J. Nelson  
P. O. Box 755  
Hobbs, New Mexico 88240

4a. Article Number

P 672 741 737

4b. Service Type

- Registered  Insured  
 Certified  COD  
 Express Mail  Return Receipt for Merchandise

7. Date of Delivery

3-26-92

5. Signature (Addressee)

*[Handwritten Signature]*

6. Signature (Agent)

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

PS Form 3811, October 1990

☆U.S. GPO: 1990-273-861

**DOMESTIC RETURN RECEIPT**

**SENDER:**

- Complete item and/or 2 for additional services.
- Complete item and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Tipperary Corporation  
633 17th Street, Suite 1550  
Denver, Co. 80202

4a. Article Number

P 375 330 382

4b. Service Type

- Registered  Insured  
 Certified  COD  
 Express Mail  Return Receipt for Merchandise

7. Date of Delivery

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

5. Signature (Addressee)

*[Handwritten Signature]*

6. Signature (Agent)

PS Form 3811, October 1990

☆U.S. GPO: 1990-273-861

**DOMESTIC RETURN RECEIPT**

**SENDER:**

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- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Oxy, USA  
P. O. Box 50250  
Midland, Texas 79710

4a. Article Number

P 375 330 324

4b. Service Type

- Registered  Insured  
 Certified  COD  
 Express Mail  Return Receipt for Merchandise

7. Date of Delivery

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3811, October 1990

☆U.S. GPO: 1990-273-861

**DOMESTIC RETURN RECEIPT**

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

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

3. Article Addressed to:  Mr. James Lynn Walker 2900 Dal Paso Hobbs, New Mexico 88240	4. Article Number P-375-330-333
5. Signature - Addressee X <i>Louise Walker</i>	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X <i>gn</i>	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery <i>4-3-92</i>	8. Addressee's Address (ONLY if requested and fee paid)