

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.

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
NKG
SCALE: 1" = 2000'

VII

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

"A"

WATER ANALYSIS REPORT

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

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

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

PROBABLE MINERAL COMPOSITION

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

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
D. SWEATT

"A"

WATER ANALYSIS REPORT

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

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

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

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	= mg/L
+-----+	+-----+			
36 *Ca <-----	*HCO3 4	Ca(HCO3)2	81.0 4.0	324
----- /----->	-----	CaSO4	68.1 6.8	461
0 *Mg ----->	*SO4 7	CaCl2	55.5 25.2	1396
----- <-----/	-----	Mg(HCO3)2	73.2	
.1 *Na ----->	*Cl 26	MgSO4	60.2	
+-----+	+-----+	MgCl2	47.6 0.0	2
Saturation Values Dist. Water 20 C		NaHCO3	84.0	
CaCO3	13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4 0.7	40
BaSO4	2.4 mg/L			

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
D. SWEATT

VIII Geologic Data

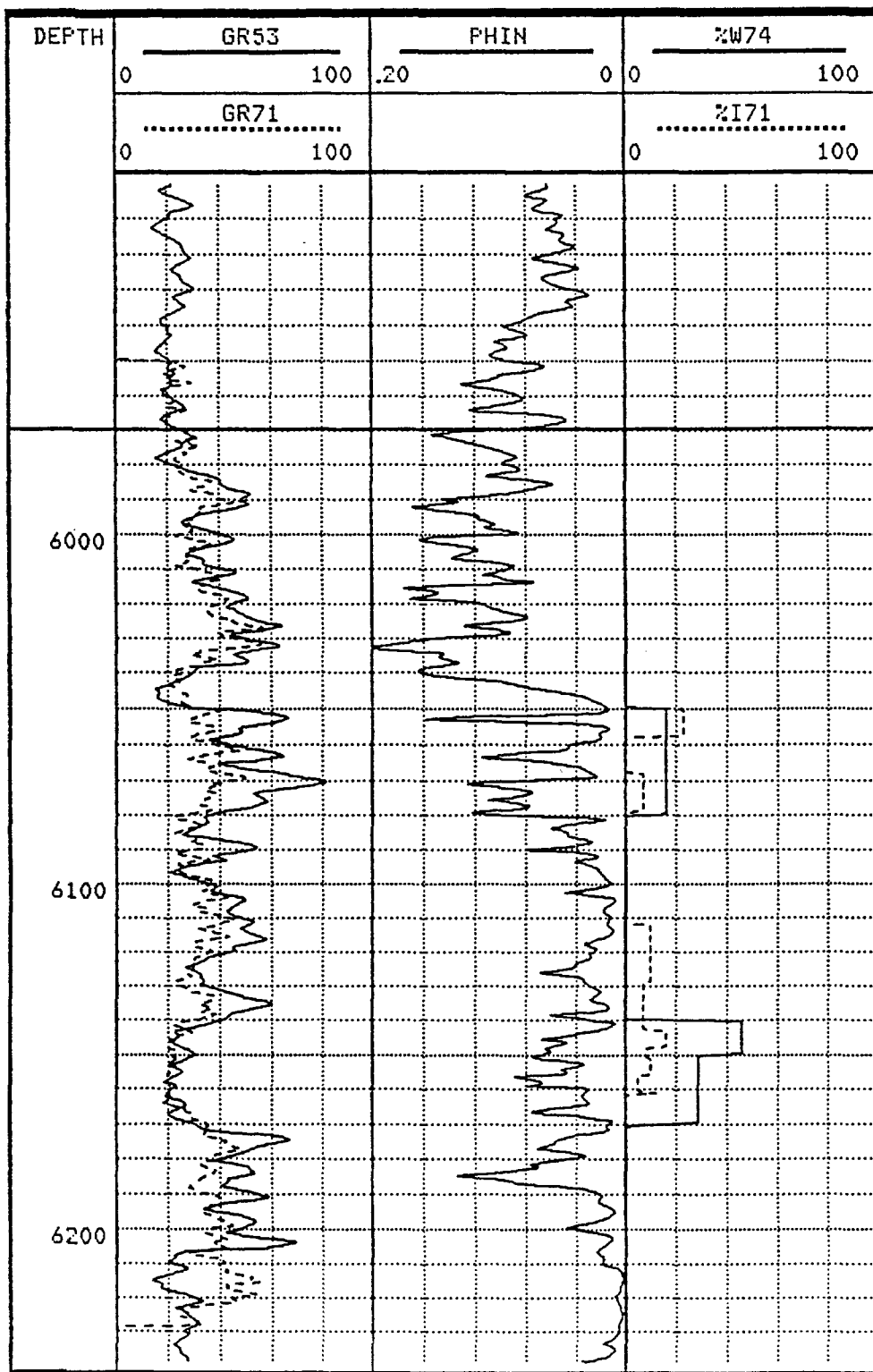
The zone of interest for this application to inject is the Paddock interval of the Glorieta Formation. In the area of the Lovington Field Paddock Unit, the Paddock interval is found at an average depth of 6150' and consists of light brown, finely crystalline dolomite, with thin lenticular fine-grained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

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

WELL NAME - SKELLY STATE OH#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

IX

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

1. MIRU PU w/reverse unit. Check and report pressure on casing strings. Inspect wellhead connections for condition and pressure rating. Insure all casing valves are at least 2000 psig W. P. Pull and lay down rods and pump.
2. Rig up and pressure test BOP to 3000 psig for 5 min. Pull tubing and TAC. Lay down TAC.
3. PU bit, casing scraper and collars and TIH to 200' above casing shoe. Scrape casing to 10 ft. above shoe. Do not go below casing shoe with scraper. POOH and lay down scraper. TIH to 10 ft. above casing shoe and circulate hole clean with clean water. Rotate and clean out bottom of open-hole interval below casing shoe.
4. Spot enough 20% NEFE HCL acid to cover the open-hole interval. Slowly pull bit above top of acid and POOH.
5. Rig up perforating contractor. String shoot water flood intervals w/400 grains per foot primacord. TIH with bit and tubing and circulate open hole interval clean to TD w/water. POOH laying down workstring.
6. PU new 2 3/8" IPC tubing string w/new water flood packer and TIH to 20' above casing shoe. Circulate inhibited fresh water into tubing-casing annulus and set packer. Pressure test annulus to 500 psig for 5 min. Release pressure. RD BOP and install waterflood and wellhead.
7. Pressure test annulus per NMOC requirements. Release rig.
8. Rig up acid contractor and treat below packer with 15 tons CO₂ and 3000 gal. 20% NEFE HCL acid using diverter in 3 stages. Flow well back to recover load and clean-up formation. SI well.
9. Install wellhead filter cartridge housing and filter. Hook up new water injection line.
10. Put well on injection. When rate and pressure stabilize, run water injection survey.

By Waylan C. Martin, M.A.

.. 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. 98943
SAMPLE RECEIVED 9-1-89
RESULTS REPORTED 9-8-89

COMPANY Greenhill Petroleum Corporation LEASE Lovington Paddock/San Andres Unit
FIELD OR POOL Lovington

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

No. 1 Raw water - taken from water supply well #1. 9-1-89 048 51 T175 R 36 E

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

NO. 3;

NO. 4

REMARKS:

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

Results Reported As Milligrams Per Liter

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

Form No. 3

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

By Wavlan 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

% Water "A"	100	80	44	40	20	0
% Water "B"	0	20	56	60	80	100
Components:						
CATIONS						
Calcium, Ca	138.50	646.18	1560.00	1661.54	2169.21	2676.89
Magnesium, Mg	15.50	122.82	316.00	337.46	444.79	552.11
Iron, Fe	1.09	1.74	2.90	3.03	3.68	4.32
Barium, Ba	0.00	0.00	0.00	0.00	0.00	0.00
Sodium, Na	150.00	1931.43	5138.00	5494.29	7275.71	9057.14
ANIONS						
Chloride, Cl	323.00	3555.86	9375.00	10021.57	13254.43	16487.29
Sulfate, SO ₄	99.50	655.04	1655.00	1766.11	2321.64	2877.18
Carbonate, CO ₃	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate, HCO ₃	223.00	766.57	1745.00	1853.71	2397.29	2940.86
Tot. Dissolved Solids	950.59	7679.63	19791.90	21137.71	27866.75	34595.79
Measured pH Values	7.00		6.70			
1/H ⁺ = 10 ^{-pH}	10000000		5011872.34			
H ⁺ = 1/10 ^{-pH}	.0000001	.0000001355	.0000001995	.000000207	.000000242	.000000278
1/H ⁺ = 10 ^{-pH}		7377619.17		4839445.40	4129154.49	3600678.77
Calculated pH Values		6.87		6.68	6.62	6.56

Calcium Carbonate Solubility Calculation.

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

	Conv. Factor						
Ca	.00005	.006925	.032309	.078000	.083077	.108461	.133845
Mg	.000082	.001271	.010071	.025912	.027672	.036472	.045273
Ba	.000015	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Na	.000022	.003300	.042491	.113036	.120874	.160066	.199257
Cl	.000014	.004522	.049782	.131250	.140302	.185562	.230822
SO ₄	.000021	.002090	.013756	.034755	.037088	.048754	.060421
CO ₃	.000033	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
HCO ₃	.000008	.001784	.006133	.013960	.014830	.019178	.023527
u =		.02	.15	.40	.42	.56	.69

Calcium Carbonate Stability Index (Cont.)

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

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

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

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

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

Look Up K:

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

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

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

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

(K + pCa + pAlk)

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

CaCO₃ SI =

At 80F =	<u>.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.

CO₂ Is Across SYSTEM

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

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

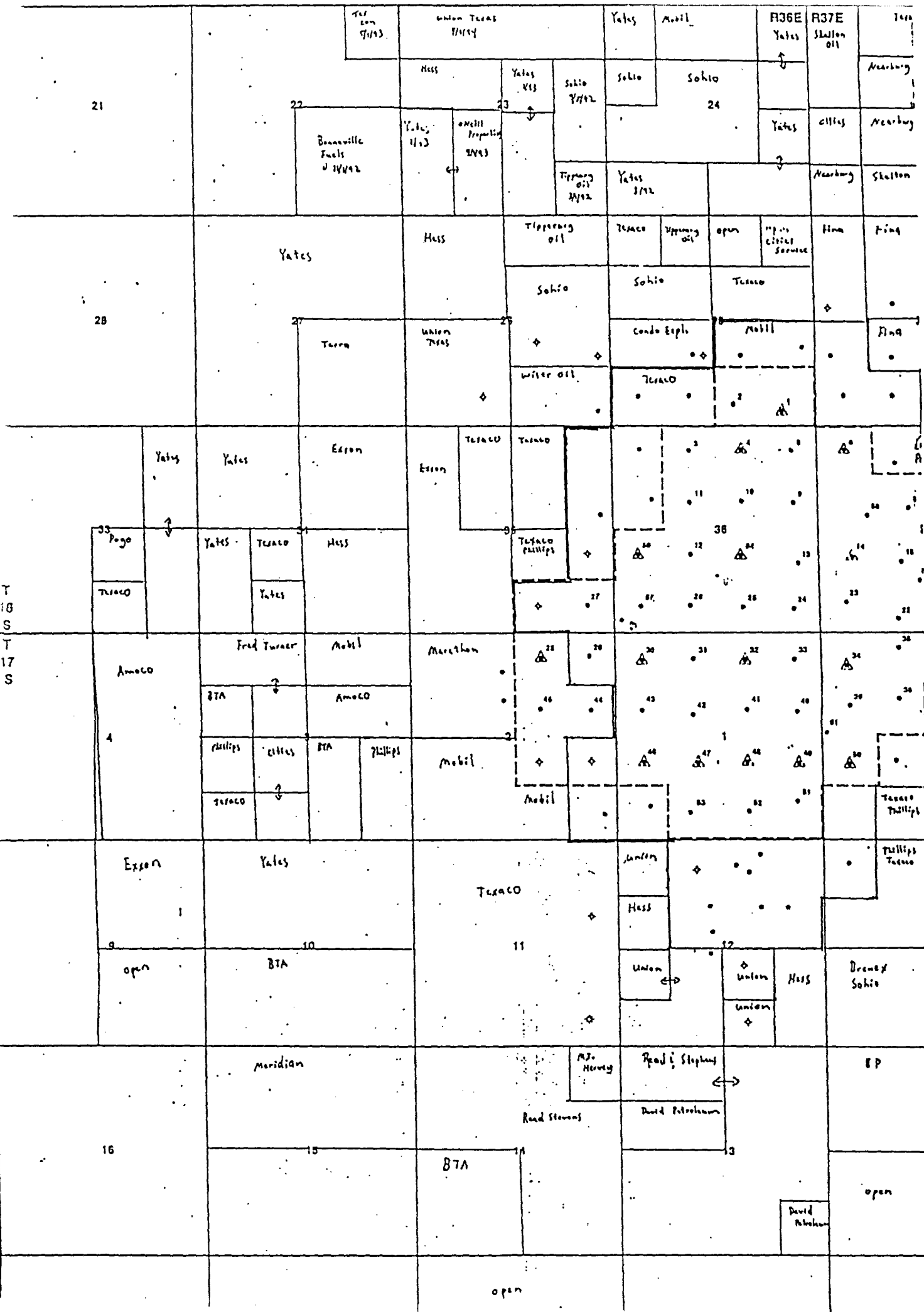
$$Is = D + (1.549 \times 10^{-2} \times T) - (4.26 \times 10^{-6} \times T^2) \\ - (7.44 \times 10^{-5} \times P) + 0.919u - 2.52(u)^{0.5} + 5.89$$

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

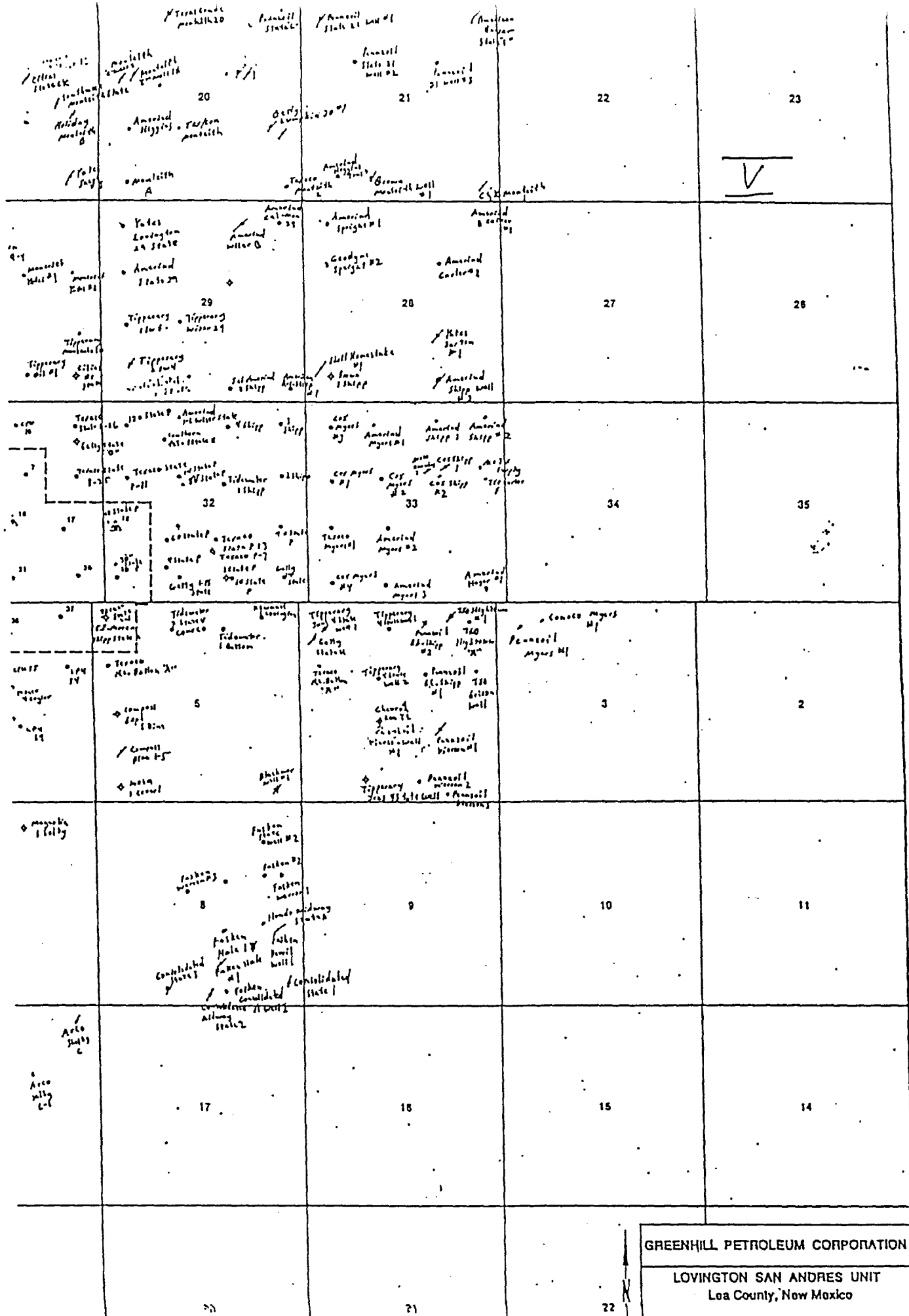
C = Ca(mg/l)/40100 = .066755
Alk = (HCO₃ + CO₃(mg/l))/61000 = .0482108
D = log(((C)(Alk)²/(P)(X))) = -5.80922

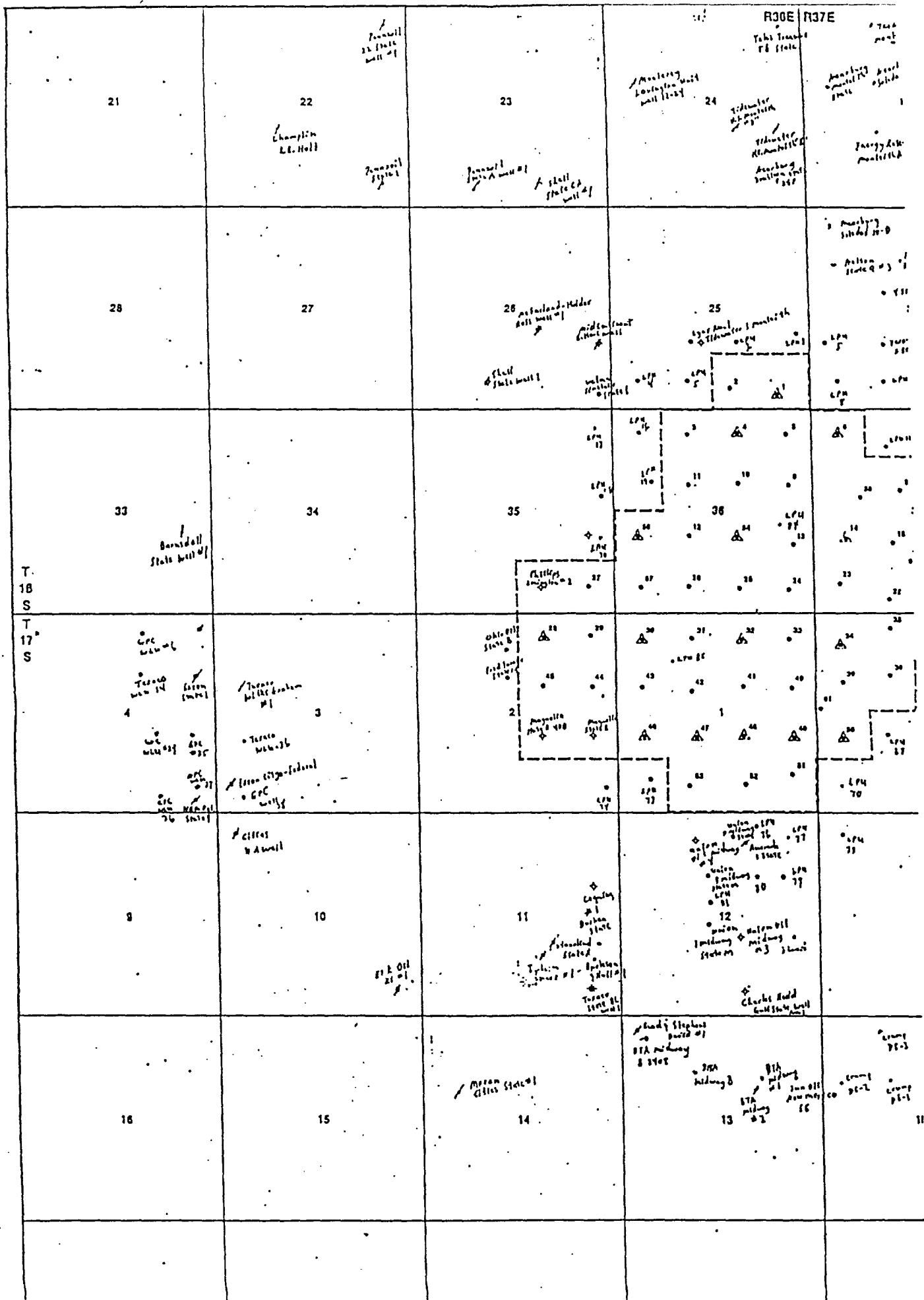
Variable	Value	x Constant	=	Product
D	-5.80922	1.00	=	-5.81
T	120.00	.01549	=	1.86
(T)(T)	14400.00	-.000004	=	-.06
P	2000.00	-.000074	=	-.15
u	.69	.919	=	.63
(u) ^{0.5}	.8306624	-2.52	=	-2.09
				5.89

Sum = Is = .27



T
16
S
T
17
S





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'

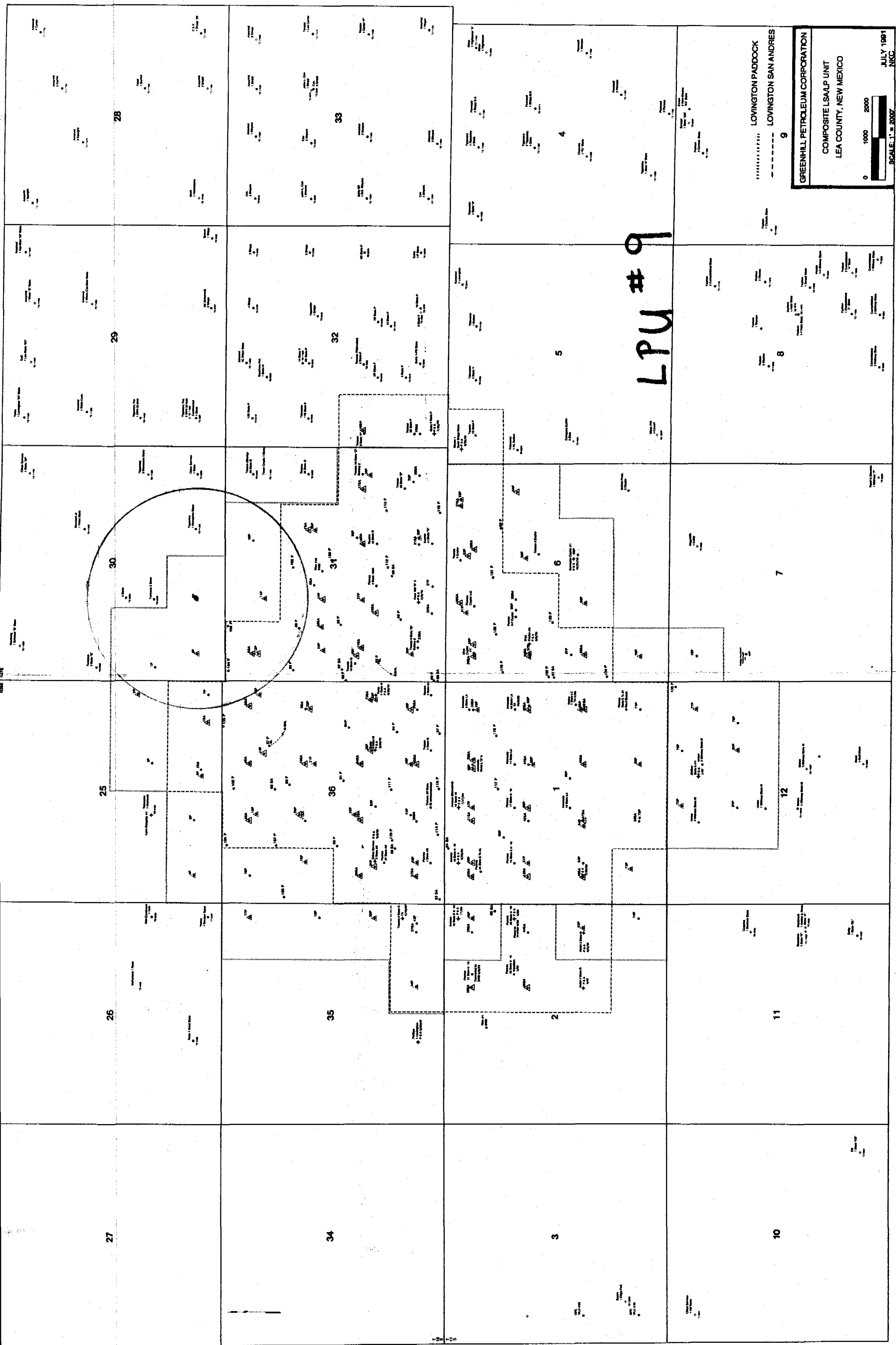
Injection Interval

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

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

0 1000 2000
SCALE: 1" = 2000'

JULY 1991
NKC

LPU #9

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

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole Size: 11"

Long String

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

TOC: 4010 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 6260'

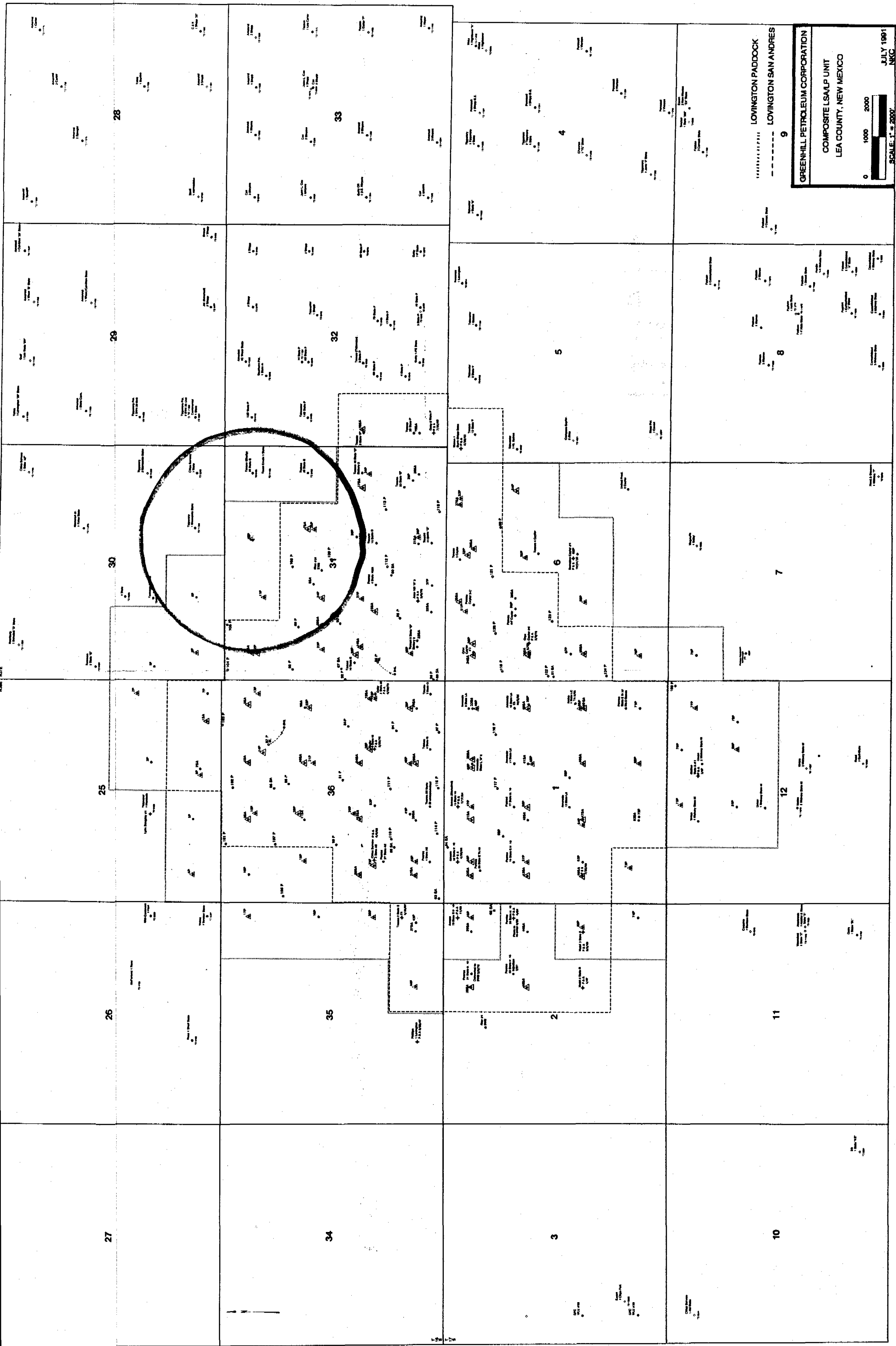
Injection Interval

- 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



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)

8 5/8"
2041'

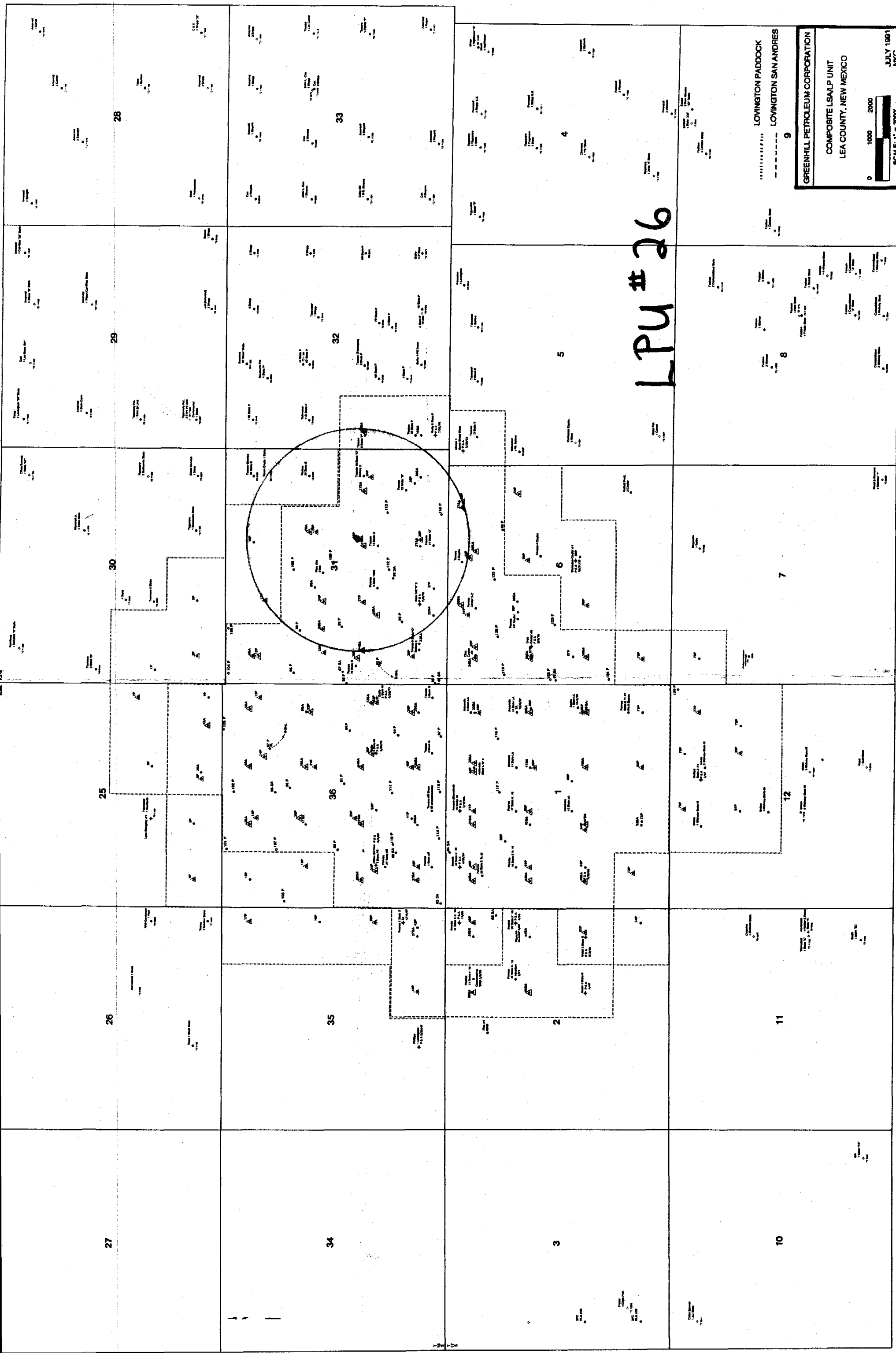
5 1/2"
6110'

TO 6252'

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

Other Data

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



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington 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

8 5/8" 2048'

5 1/2" 6078'

TD 6262'

Surface Casing

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

TOC: Surface feet determined by ^{Circ}calc

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3225 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6262'

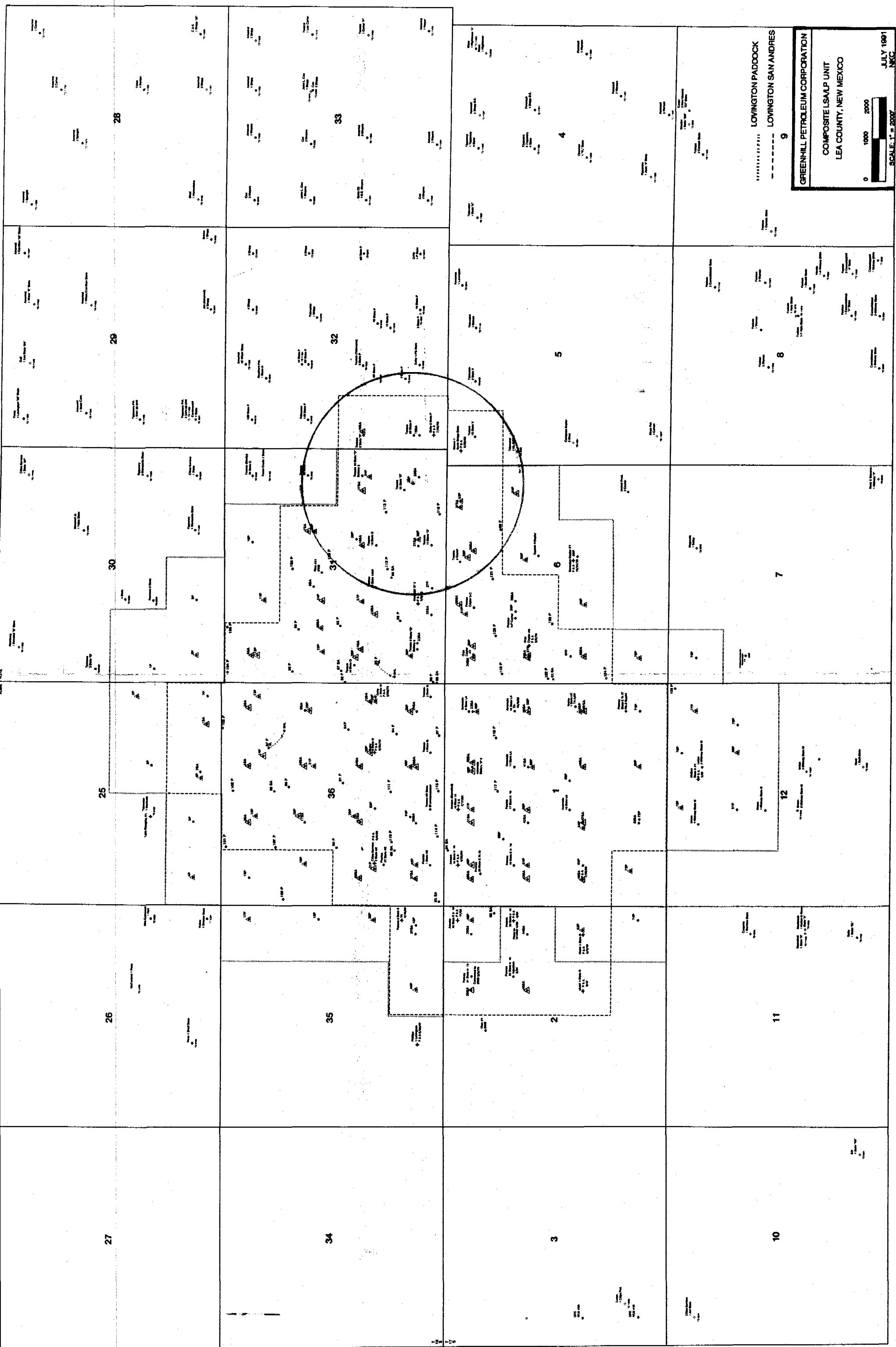
Injection Interval

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

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

Other Data

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

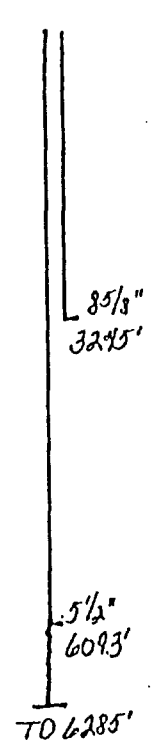


INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
4-29-54



Surface Casing

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

Intermediate Casing

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

Long String

Size: 5-1/2" Cemented with 485 SX
TOC: 3613 feet determined by temp survey
Hole size:

Total Depth: 6285'

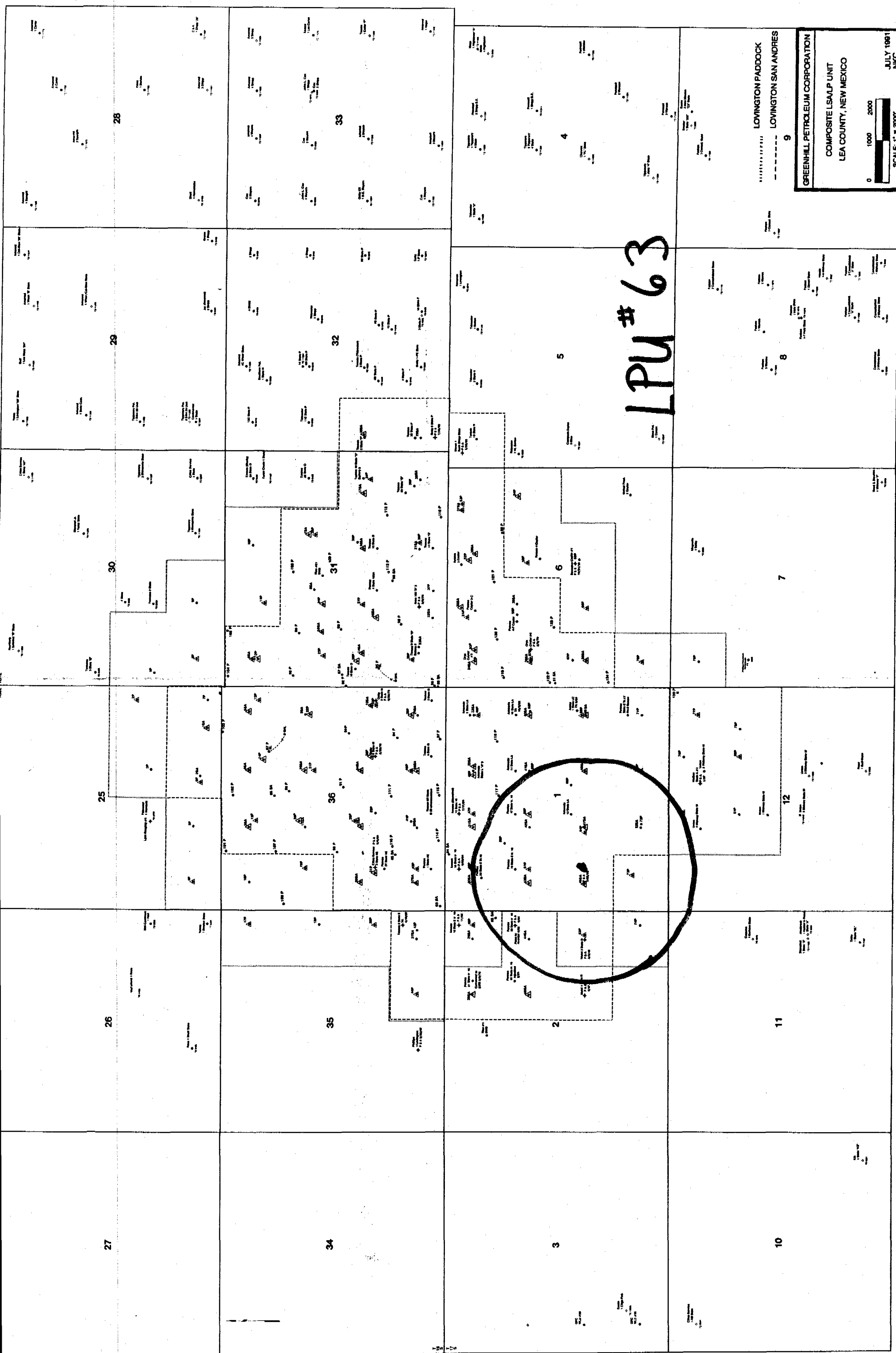
Injection Interval

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

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



LPU # 63

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

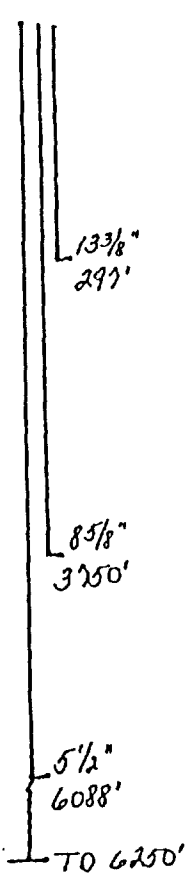
GREENHILL PETROLEUM CORPORATION
COMPOSITE LSA/LP UNIT
LEA COUNTY, NEW MEXICO
0 1000 2000
SCALE: 1" = 2000'
JULY 1981
NKC

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
5-19-53



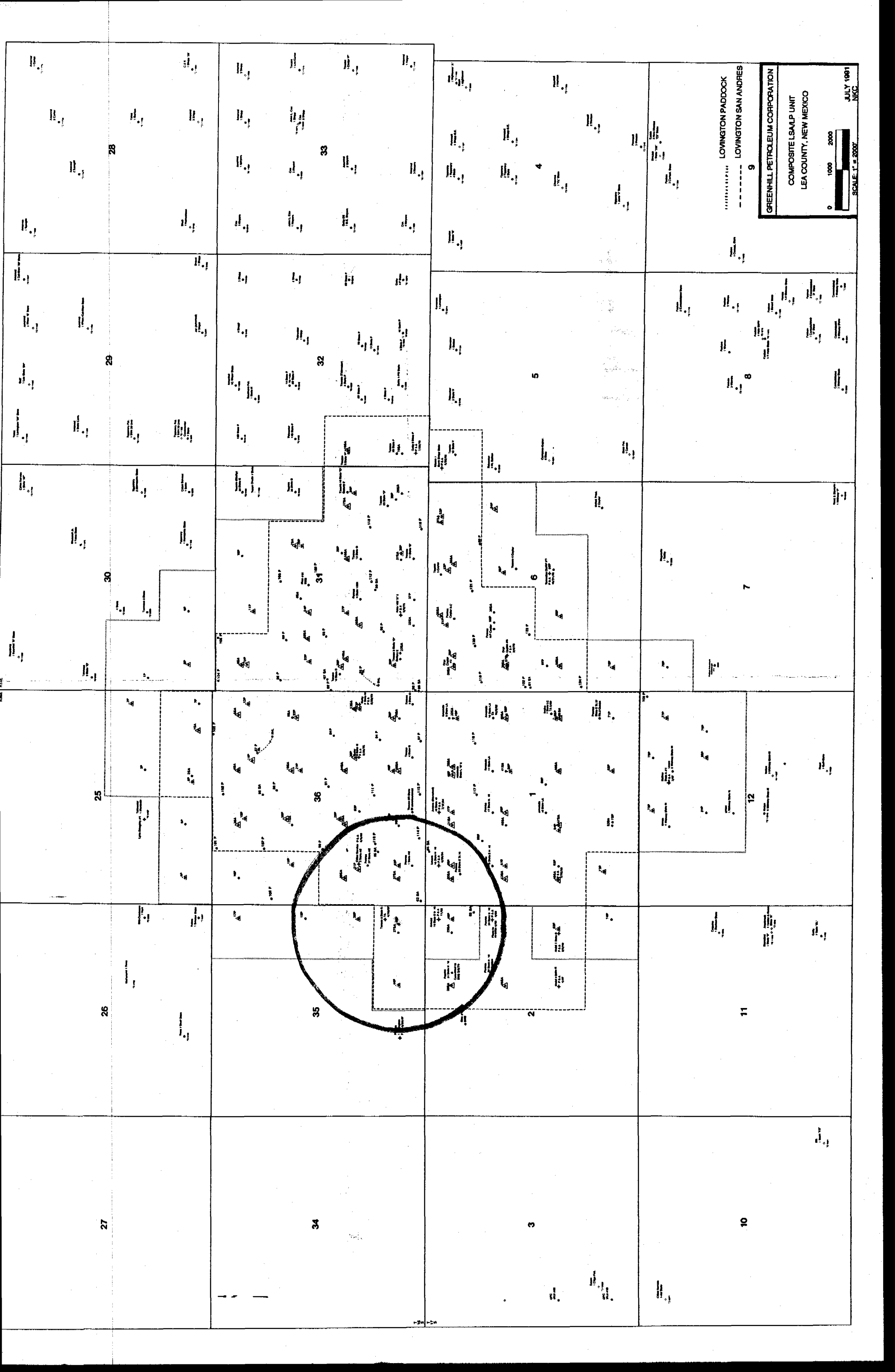
Surface Casing
Size: 13-3/8" Cemented with 300 SX
TOC: Surface feet determined by calc
Hole size: 17 1/2"
Intermediate Casing
Size: 8-5/8" Cemented with 1500 SX
TOC: 879 feet determined by temp survey
Hole size: 11"
Long String
Size: 5-1/2" Cemented with ~~500~~⁶⁰⁰ SX
TOC: ~~3364~~³⁷⁴³ feet determined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

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

Tubing size 2 3/8 lined with ILC set in a - packer
at 6025 feet. (Or describe any other casing-tubing seal).

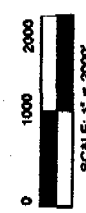
Other Data

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



LOVINGTON PADDOCK
LOVINGTON SAN ANDRES

GREENHILL PETROLEUM CORPORATION
COMPOSITE LSALP UNIT
LEA COUNTY, NEW MEXICO



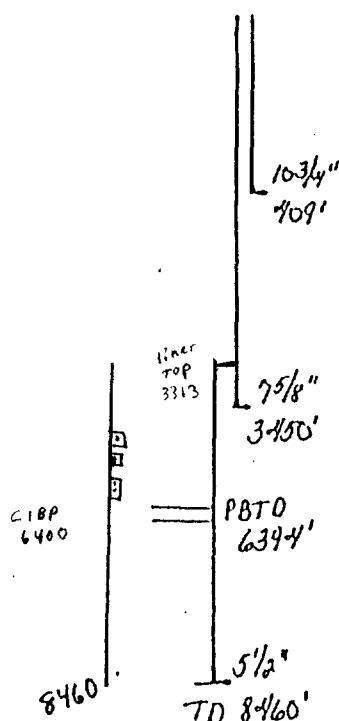
JULY 1981
NKG

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'

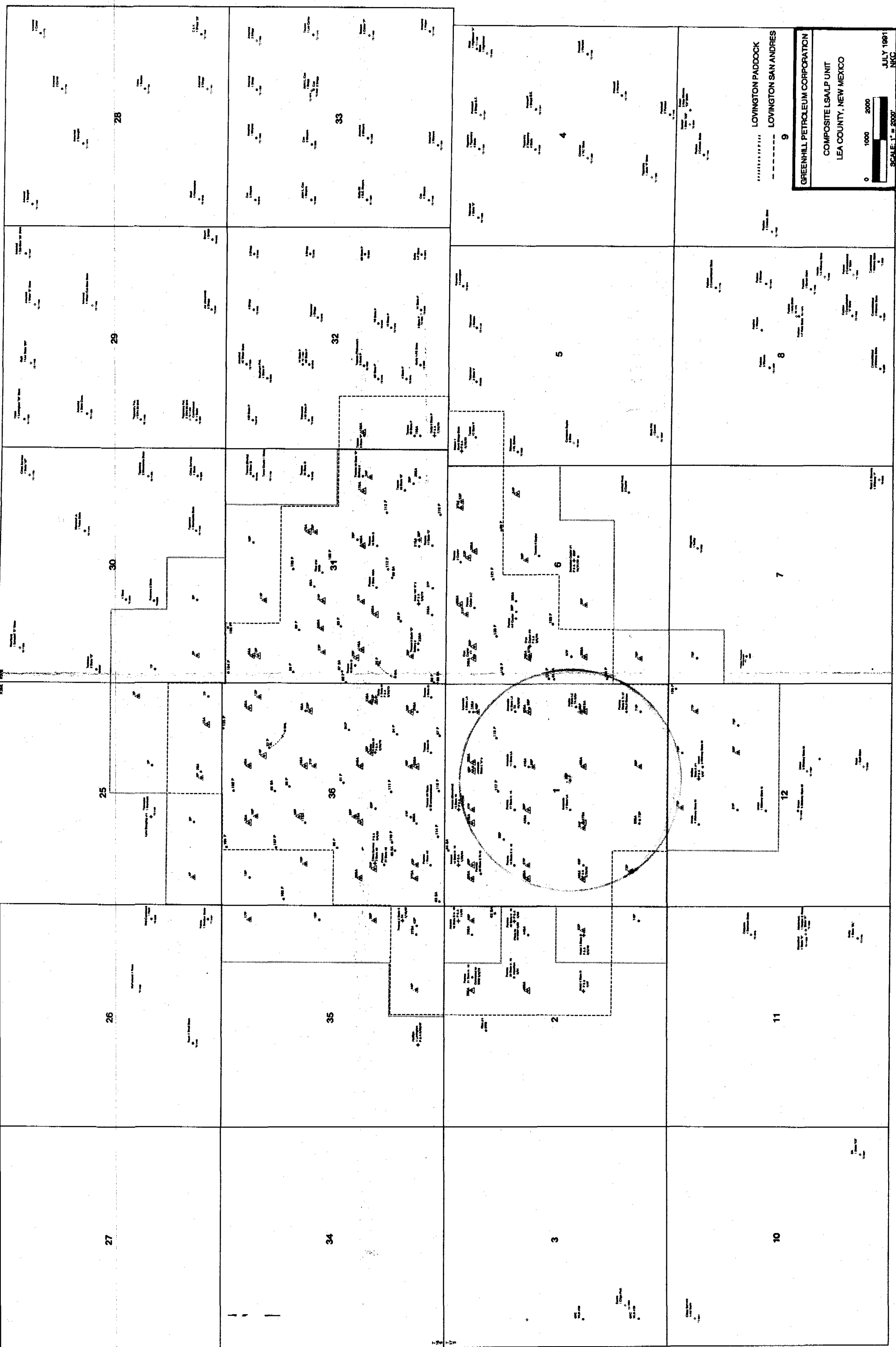
Injection Interval

- 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



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

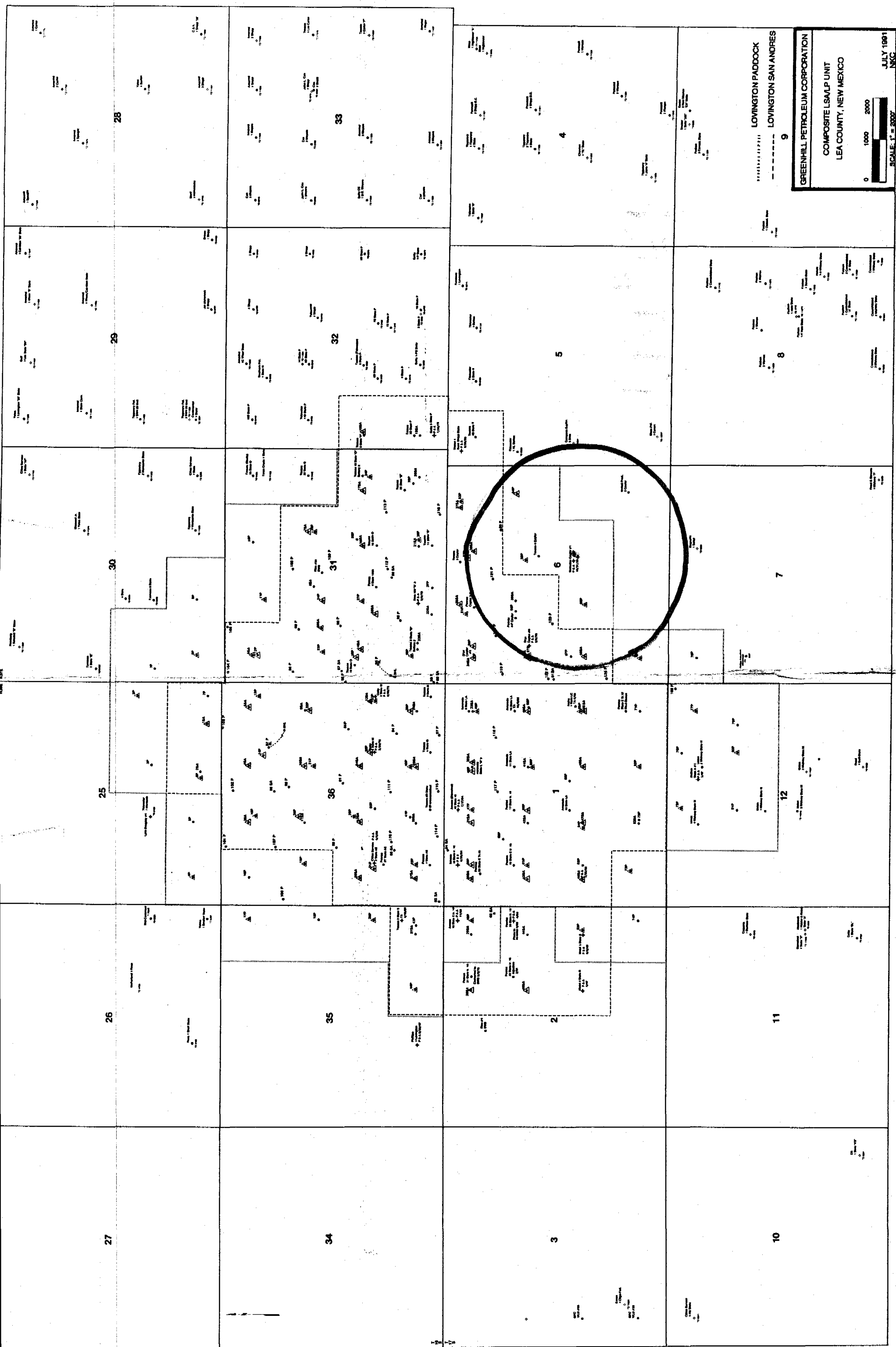
6104 feet to 6262 feet
(perforated or open-hole, indicate which)

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



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Completed
8-25-54

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 15"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole Size: 10-3/4"

Long String

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

TOC: 4080 feet determined by 70%

Hole Size: 7-7/8"

Total Depth: 6277'

Injection Interval

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

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

Other Data

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 ¹	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
10-31-53Surface 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 Interval5394 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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	<i>K-5</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

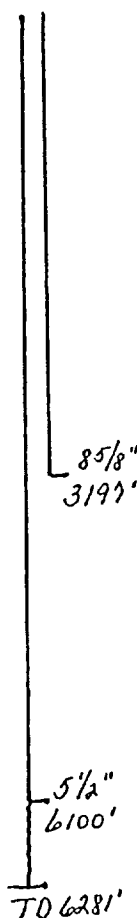
1. Name of the injection formation: -
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
9-24-54



Surface Casing

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

TOC: Surface feet determined by calc *Circ*

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by calc

Hole size:

Long String

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

TOC: 2876 feet determined by temp
survey

Hole size: 7-7/8"

Total Depth: 6281'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

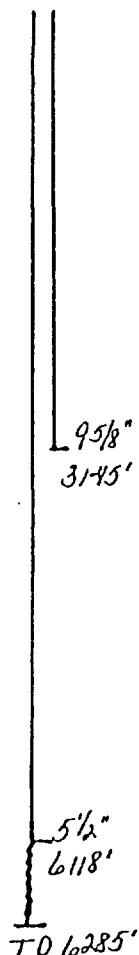
1. Name of the injection formation: -
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such
perforated intervals and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

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
3-11-54



Surface Casing

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

TOC: Surface feet determined by calc *CIRC*

Hole size: 12-3/4"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by calc

Hole size:

Long String

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

TOC: 3974 feet determined by temp survey

Hole size: 7-7/8"

Total Depth: 6285'

Injection Interval

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

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

Note 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

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

Date Completed
11/7/44

2104 4620

8 5/8
2104

5 1/2
4620

TD 4996

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 425 ⁴⁷⁵ SX

TOC: Surface feet determined by calc

Hole size: 11

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Long String

Size: 5 1/2 " Cemented with 425 ^{525 - 450} SX

TOC: 2313 feet determined by 80% calc

Hole Size: 7 7/8

Total Depth: 5060'

Injection Interval

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

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

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

<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 10px; margin-right: 10px;"> <div style="border-bottom: 1px solid black; height: 100px; margin-bottom: 10px;"></div> <div style="border-bottom: 1px solid black; height: 100px;"></div> </div> <div> <p>8 5/8" 2104'</p> <p>5 1/2" 6085'</p> <p>TD 6260'</p> </div> </div>	<u>Surface Casing</u>	
	Size: <u>8-5/8"</u> Cemented with <u>800</u> SX	
	TOG: <u>Surface</u> feet determined by <u>calc</u>	
	Hole size: <u>11"</u>	
	<u>Intermediate Casing</u>	
	Size: <u> </u> Cemented with <u> </u> SX	
	TOG: <u> </u> feet determined by <u>calc</u>	
	Hole Size: <u> </u>	
	<u>Long String</u>	
	Size: <u>5-1/2"</u> Cemented with <u>225</u> SX	
TOG: <u>4859</u> feet determined by <u>80%</u>		
Hole Size: <u>7-7/8"</u>		
Total Depth: <u>6260'</u>		

Injection Interval

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

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

Other Data

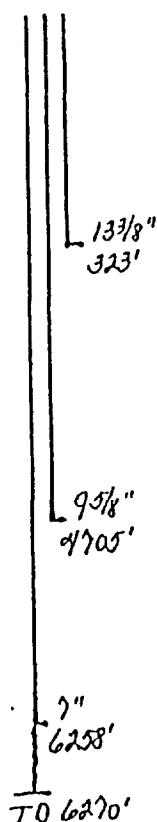
- Name of the injection formation
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging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

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
6-20-53



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size: 12-1/4"

Long String

Size: 7" Cemented with 450 SX

TOC: 4113 feet determined by 70% calc

Hole size: 8-3/4"

Total Depth: 6270'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
7-5-45

Deepened
7/87

Surface Casing

Size: _____" Cemented with _____ SX

TOC: _____ feet determined by _____

Hole size: _____

Intermediate Casing

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

TOC: 2080' Surface feet determined by calc circ sale

Hole Size: 11"

Long String

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

TOC: 4580' 3255' feet determined by TS calc 80%

Hole Size: 7-7/8"

Total Depth: 5055'

Injection Interval

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

Tubing size 2 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

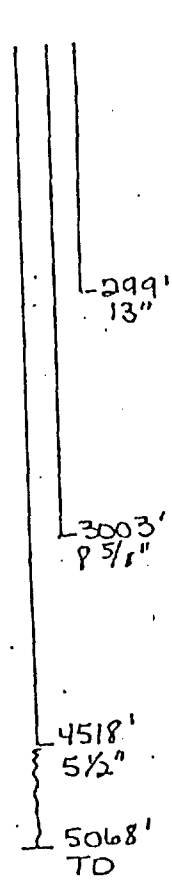
- Name of the injection formation San Andres
- Name of Field or Pool (If applicable) Lovington San Andres
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated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

Completed
12-16-39



Surface Casing

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

Intermediate Casing

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

Long String

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

Total Depth: 5068

Injection Interval

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

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

INJECTION WELL DATA SHEET

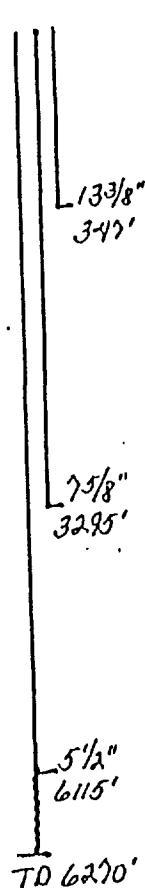
16

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

Tubular Data

Spud Date
9-01-53

Converted to
Injection
12/66



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Long String

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

TOC: 4208 feet determined by 70% calc

Hole size: 7-7/8"

Total Depth: 6270'

Injection Interval

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

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		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)

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

OPERATOR

LEASE

12

781' FNL & 660' FWL

31

16S

37E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Surface Casing

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

Intermediate Casing

Size: 9 5/8 " Cemented with 2600 SXTOC: Surface feet determined by calc.Hole Size: 12 1/4

Long String

Size: 7 " Cemented with 450 SXTOC: 2675 feet determined by 70%Hole Size: 8 1/4Total 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 (material)
 packer at 6100 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

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

Spud Date
4-5-53

13 3/8 "
324'

9 5/8 "
4699'

7"
TD 6250'

I

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

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

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: 8 3/8 + 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

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

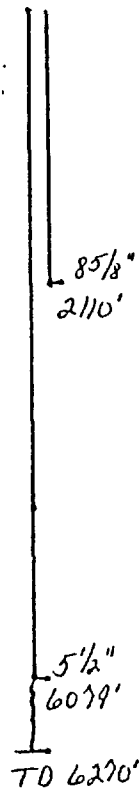
INJECTION WELL DATA SHEET

20

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	<i>990</i>	LEASE		
#14	<i>940' FNL & 1741' FEL</i>	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

INJECTION WELL DATA SHEET

21

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

13"
293'

9 5/8"
3071'

7"
4634'

TD 5012

I

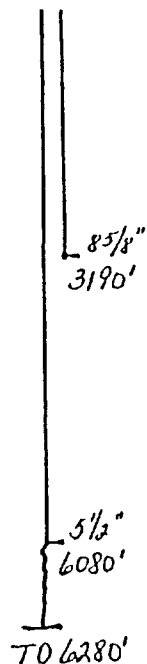
22

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

INJECTION WELL DATA SHEET

23

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

Tubular Data

Spud Date
8-08-54

Surface Casing

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

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

8 5/8"
3110'
5 1/2"
6025'
TD 6280'

Injection Interval

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

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

Other Data

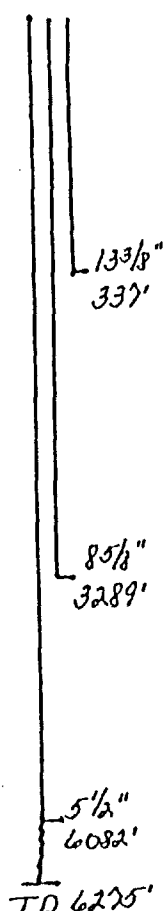
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#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

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

27

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
- 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 SXTOC: Surface feet determined by calcHole size: 15

Intermediate Casing

Size: 8 5/8 " Cemented with 500 SXTOC: 555 feet determined by 50% calcHole Size: 10 1/4

Long String

Size: 5 1/2 " Cemented with 200 SXTOC: 649 feet determined by 80% calcHole 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

25'
13"

9 5/8"
2087'

5 1/2"
4575'

4996 TD

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

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

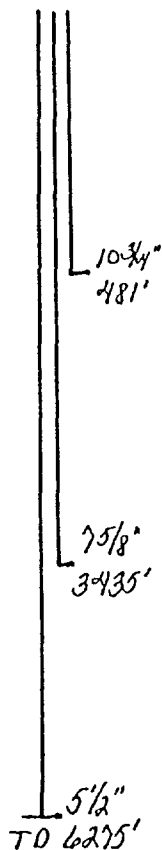
TOC: 3638 feet determined by temp
survey

Hole size: 6 7/8

Total Depth: 6275'

Injection Interval

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



5 1/2" liner
3312-6275
w/ 1480 SX
Spud to F w/ 50 SX

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#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 Circ. 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' ~~5087~~

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

302'
330'
13"

2990'
3080'
95'

4515'
4645'
7"

5100'

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

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 760 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

5 1/2 liner
3273-6350

195' L
plug back from 8603
110 SX 5603-8117
60 SX 6533-6464
45 SX 6464-6303
Drill out to 6350

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

I

32

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

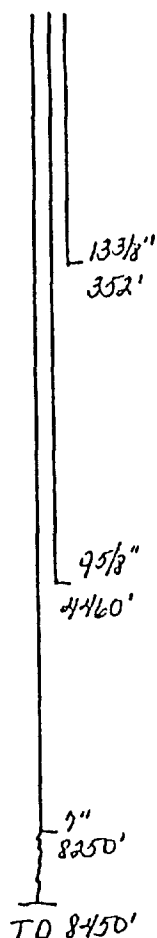
Spud Date
3-29-52

Converted
to Injection
2/73

CIBP 6310'

Cmt. to 6300'

17" / 14" r
4171-8250

Surface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size:

Long String

Size: 7" Cemented with 500 SX

TOC: 2250 feet determined by temp survey ?

Hole size:

Total Depth: 8450'

Injection Interval

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

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

Other Data

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		
24	2310' FNL & 1968" FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface Casing

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

TOC: Surface feet determined by calc.

Hole size: //

Intermediate Casing

Size: " Cemented with SX

TOC: Surface feet determined by calc.

Hole Size:

Long String

Size: 5 1/2 " Cemented with 400 SX

TOC: 4077 feet determined by temp survey

Hole Size: 7 7/8

Total Depth: 6257'

Injection Interval

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

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

Other Data

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

Spud Date
 9-12-53
 Deepen to 6280

8 5/8 "
 2072'
 5 1/2 "
 6133'
 TD 6257'

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation			Lovington San Andres		
OPERATOR			LEASE		
8	2150' FNL & 366' FEL		31	16S	37E
WELL NO.	FOOTAGE LOCATION		SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
7-24-44

Surface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 1886 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4978'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

(Above) Grayburg

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
1-18-53

Converted to
SWD (Inject
thru 9730-10260)

Surface Casing

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

TOC: Surface feet determined by ^{circ}calc

Hole size: 18"

Intermediate Casing

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

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

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 1982 SX ^{682 at shoe}
^{1200 thru out tool}
at 8988

TOC: ²⁴⁷~~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)

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

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

Other Data

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

Abo (Above)

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#25	2130' FNL & 1980' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
11-16-54

Converted
to Inj.
12/54

Surface Casing

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

TOC: Surface feet determined by ^{circ}cale

Hole size: 11

Intermediate Casing

8 5/8"
3215'

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 4160 feet determined by temp
survey

Hole size: 7 7/8

TD 6270'

Total Depth: 6270'

Injection Interval

6107 feet to 6270 feet
(perforated or open-hole, indicate which)

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

Other Data

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

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INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation
OPERATOR

Lovington San Andres Unit
LEASE

#43
WELL NO.

1980 FNL & 660 FWL
FOOTAGE LOCATION

1
SEC.

T17S
TOWNSHIP

R36E
RANGE

Tubular Data

Surface Casing

Size: 13" Cemented with 200 SX

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

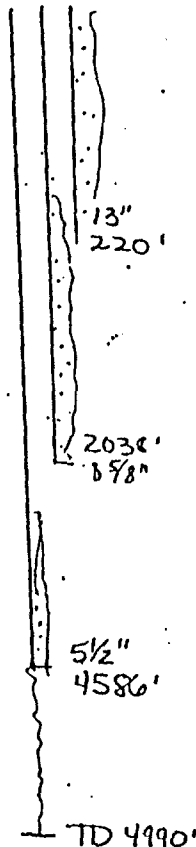
4546 feet to 5030 feet
(perforated or open-hole, indicate which)

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

Completed
6/19/41
Reopen to 5030'



INJECTION WELL DATA SHEET

Texaco Producing Inc.
~~Tidewater Oil Company~~

State "P"

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

Tubular Data

Completed
3-22-65

Surface Casing

Size: 8-5/8" Cemented with 1450 SX

TOC: Surface feet determined by ^{Calc} calc

Hole size: 12-1/4"

Intermediate Casing

8 5/8"
2099'

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

5 1/2"
6399'
TO 6400'

TOC: Surface feet determined by ^{Calc} 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).

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

Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
15	1650' FSL & 1650' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-1-39

Deepened
7-23-86

Surface Casing

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

Intermediate Casing

Size: 9-5/8 " Cemented with ⁵⁰⁰~~400~~ SX
TOC: 1818 feet determined by calc
Hole Size: 12"

Long String

Size: 7 " Cemented with ³⁰⁰~~200~~ SX
TOC: 3840 feet determined by calc
Hole Size: 8-3/4"

Total Depth: 5110'

Injection Interval

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

Tubing size 2-3/8" lined with IPC set in a
(material)
Waterflood tension packer at 4510' feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

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

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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

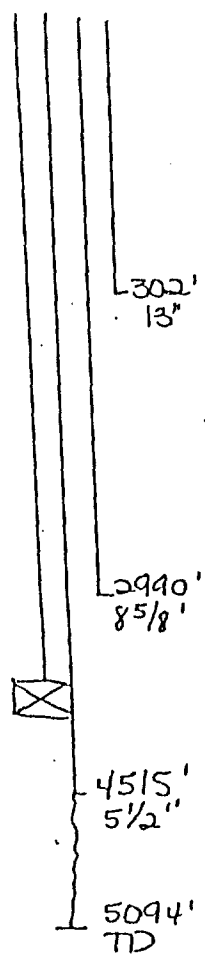
41

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

Other Data

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

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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 DataCompleted
12-22-39Deepened
6-20-87Surface CasingSize: 13 " Cemented with 200 SXTOC: Surface feet determined by circHole size: 17-1/4"291'
13"Intermediate CasingSize: 8-5/8 " Cemented with 500 SXTOC: 2021 feet determined by calcHole Size: 11"3109'
8 3/8"Long StringSize: 5-1/2 " Cemented with 325 SXTOC: 2890 feet determined by calc 80%Hole Size: 7-7/8"4541'
5 1/2"Total Depth: 51254460'
TDInjection Interval4541 feet to 5125 feet
(perforated or open-hole; indicate which)5125'
TD

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

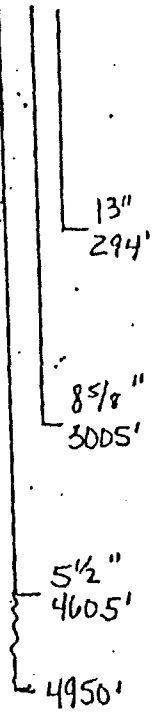
4605 feet to 4950 feet
(perforated or open-hole, indicate which)

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

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

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



INJECTION WELL DATA SHEET

Texaco
OPERATORState "O"
LEASE12
WELL NO.1650' ESL & 2310' FEL
FOOTAGE LOCATION31
SEC.16S
TOWNSHIP37E
RANGE

Tubular Data

Completed
8-08-52

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 18"

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole Size: 12-1/4"

Long String

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

TOC: 3984 feet determined by 80% calc

Hole Size: 7-7/8"

Total Depth: 8444'

Injection Interval

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

Tubing size lined with (material) set in a

(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

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

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"
 13 3/8" 299'
Intermediate Casing
 Size: 9-5/8" Cemented with 1200 SX
 TOC: Surface feet determined by calc
 Hole size: 12"
 9 5/8" 3360'
Long String
 Size: 7" Cemented with 404 SX
 TOC: 3798 feet determined by 80% calc
 Hole size: 8"
 7" 8460' TO
 Total Depth: 8460'

Injection Interval

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

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

Other Data

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

Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular Data

Surface Casing

Completion
6-16-53Converted to
Injection
6/67

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

TOC: Surface: feet determined by calc

1 1/2"
303 Hole size: 17-1/4"

Intermediate Casing

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

TOC: 656 feet determined by 50% calc

8 5/8"
3414 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"

5 1/2"
6054

Total Depth: 6275'

TD

6275

Injection Interval

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

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

Other Data

- 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)

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
5-02-53

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 12 1/4

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3869 feet determined by 70% calc

Hole size: 7 1/2

Total Depth: 6252'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

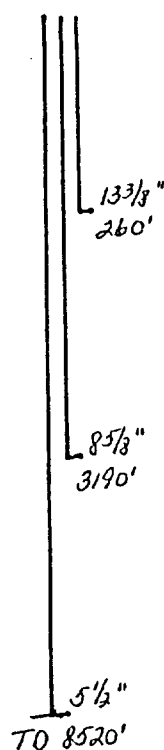
- Name of the injection formation:
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging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

INJECTION WELL DATA SHEET

Texaco		State "0"		
OPERATOR		LEASE		
10	440' FWL & 3080' FNL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
4-13-52

Surface Casing

Size: 13-3/8" Cemented with ²⁷⁵225 SX

TOC: Surface feet determined by calc^{CIRC}

Hole size: 18"

Intermediate Casing

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

TOC: 1046 feet determined by ^{surface}50% calc^{CIRC}

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 775 SX

TOC: 4298 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8520'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

(Above) Drinkard

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

Surface Casing

Size: ~~8-5/8"~~ *10 3/4"* Cemented with 250 SX

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

Hole size: *13 3/8*

Intermediate Casing

Size: *10 3/4"* 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

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

55

P?

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

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 500 SXTOC: Surface feet determined by calcHole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1200 SXTOC: Surface feet determined by 50% calcHole Size: 11

Long String

Size: 5 1/2 " Cemented with 1040 SXTOC: 788 feet determined by 80% calcHole Size: 7 7/8Total Depth: 6470

Injection Interval

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

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

Other Data

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

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

comp. - 4/5/90

13 3/8
350

8 5/8
3019

5 1/2
6454
70
6470

I

57

INJECTION WELL DATA SHEET

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

Tubular Data

Spud 1-7-63

May 89
r.p. 4 1/2 csc
1-2 1/2 at
846, 1546 & 1608
1110 51'

7 5/8" 352'	<u>Surface Casing</u>
	Size: <u>7-5/8</u> " Cemented with <u>240</u> SX
	TOC: <u>Surface</u> feet determined by <u>calc</u> Circ
	Hole size: <u>9-7/8</u> "
4 1/2" 5070' TO 5110'	<u>Intermediate Casing</u>
	Size: _____ " Cemented with _____ SX
	TOC: _____ feet determined by _____
	Hole Size: _____
	<u>Long String</u>
	Size: <u>4-1/2</u> " Cemented with <u>235</u> SX
	TOC: <u>2314</u> feet determined by <u>Temp survey</u>
	Hole Size: <u>6-3/4</u> "
	Total Depth: <u>5110'</u>
	<u>Injection Interval</u>
	<u>4662</u> feet to <u>5037</u> feet (perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a
(material)
? packer at 4579 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

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

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp.
OPERATOR

LEASE

State "R" Lovington Packer Unit

83 2310 FWL c 1650 FSL Sec 36 T14S-R36E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 245 SXTOC: surface feet determined by calcHole size: 18

Intermediate Casing

Size: 8 5/8 " Cemented with 1200 SXTOC: surface feet determined by 50% calcHole Size: 11

Long String

Size: 5 1/2 " Cemented with 900 SXTOC: 3551 feet determined by 80% calcHole Size: 7 7/8Total Depth: 8454

Injection Interval

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

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

Other Data

1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) 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
10/31/52CIBP
Set 6400
New PBD 6370 1/20/8613 3/8
2488 5/8
1290

PBD 6370

5 1/2

TD

8454

INJECTION WELL DATA SHEET

59

P

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

Tubular Data

Completed
10-11-53

Converted to
Injection 10/75

Surface Casing

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

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

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: ⁵²⁰⁵~~4574~~ feet determined by ^{Temp. Survey}~~80% gate~~

Hole size: 7-7/8"

Total Depth: 6256'

Injection Interval

6072 feet to 6256 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 5992 feet. (Or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

<div style="border-left: 2px solid black; height: 100px; position: relative;"> <div style="position: absolute; left: -20px; top: 20px;">13 3/8"</div> <div style="position: absolute; left: -20px; top: 40px;">303'</div> <div style="position: absolute; left: -20px; top: 60px;">8 5/8"</div> <div style="position: absolute; left: -20px; top: 80px;">3328'</div> <div style="position: absolute; left: -20px; top: 100px;">5 1/2"</div> <div style="position: absolute; left: -20px; top: 120px;">TD 8510'</div> </div>	<p><u>Surface Casing</u></p> <p>Size: 13-3/8" Cemented with 350 SX</p> <p>TOC: Surface feet determined by ^{circ.}calc</p> <p>Hole size: 17-1/2"</p> <p><u>Intermediate Casing</u></p> <p>Size: 8-5/8" Cemented with 1800 SX</p> <p>TOC: Surface feet determined by calc</p> <p>Hole size: 12-1/4"</p> <p><u>Long String</u></p> <p>Size: 5-1/2" Cemented with 1330 SX</p> <p>TOC: ³⁶⁰⁵1265 feet determined by ^{temp. survey}80% calc</p> <p>Hole size: 7-7/8"</p> <p>Total Depth: 8510'</p> <p><u>Injection Interval</u></p> <p style="text-align: center;">- feet to - feet (perforated or open-hole, indicate which)</p>
---	---

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

Other Data

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

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

(Above) Drinkard

INJECTION WELL DATA SHEET

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

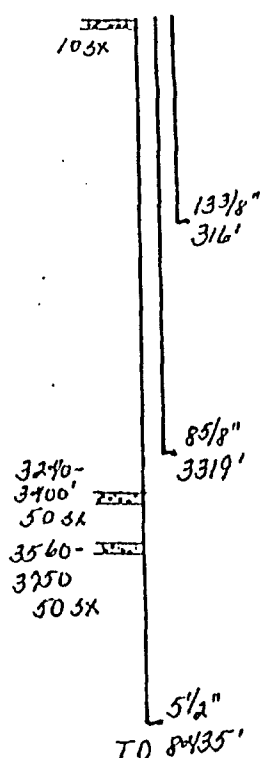
Tubular Data

Completed
1-09-53

P&A 6-6-69

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

Cmt. ret. at 3988
w 555 SX below

Surface Casing

Size: 13-3/8" Cemented with 325 SX

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: 8-5/8" Cemented with 2164 SX

TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 650 SX

TOC: 5600 feet determined by temp
survey

Hole size: 7-7/8"

Total Depth: 8435'

Injection Interval

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

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

Other Data

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

(Above) Drinkard

INJECTION WELL DATA SHEET

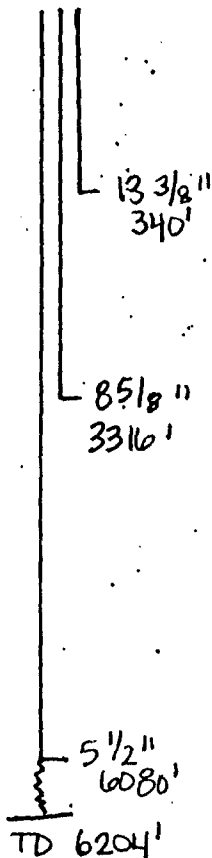
Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular DataSpud Date
12-16-53

Deepen to 6295

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

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

Other Data

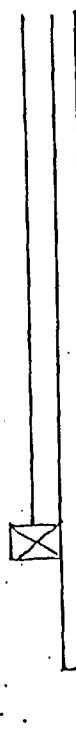
- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No Production
 If no, for what purpose was the well originally drilled? _____
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals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

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: 8 5/8 " Cemented with 825 SX

TOC: Surface feet determined by circ

Hole Size: 11"

Long String

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

TOC: 3581 feet determined by Temp survey

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

13 3/8"
339'

Hole size:

Intermediate Casing

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

TOC: Surface feet determined by calc

8 5/8"
3369'

Hole size:

Long String

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

TOC: 4200 feet determined by temp
survey

Hole size: 7-7/8"

5 1/2"
6087'

Total Depth: 8760'

6270
6270'

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
- 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)

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		
#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 SXTOC: Surface feet determined by calcHole size: 9 1/4"

Intermediate Casing

Size: " Cemented with SXTOC: feet determined by Hole Size:

Long String

Size: 5 1/2 " Cemented with 300 SXTOC: 273 feet determined by 80% calcHole Size: 6 1/2"Total Depth: 5000'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

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

13 3/8"
240'

8 5/8"
3291'

5 1/2"
TO 8471'

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

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

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

		<u>Surface Casing</u>
		Size: 13-3/8" Cemented with 300 SX
		TOC: Surface feet determined by calc
	13 3/8"	Hole size: 17 1/4
	326'	<u>Intermediate Casing</u>
		Size: 8-5/8" Cemented with 2000 SX
	8 5/8"	TOC: Surface feet determined by calc circ
		Hole size: 11-1/4"
		<u>Long String</u>
	5 1/2"	Size: 5-1/2" Cemented with 400 SX
		TOC: 3883 feet determined by 80% calc
		Hole size: 7-7/8"
	6062'	Total Depth: 6250'
TD 6250'		<u>Injection Interval</u>
		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

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

Tubular Data

Completed
11-1-52

13 3/8 31 1/4 8 5/8 3350 5 1/2 708430	Surface Casing
	Size: 13-3/8 " Cemented with 350 SX
	TOC: Surface feet determined by calc
	Hole size: 17-1/4"
	Intermediate Casing
	Size: 8-5/8 " Cemented with 1900 SX
	TOC: Surface feet determined by calc
	Hole Size: 11"
	Long String
	Size: 5-1/2 " Cemented with 400 SX
TOC: 6251 feet determined by 80% calc	
Hole Size: 7-7/8"	
Total Depth: 8430'	

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#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

13"
296'

8 5/8"
3010'

5 1/2"
4520'

TD 5128'

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

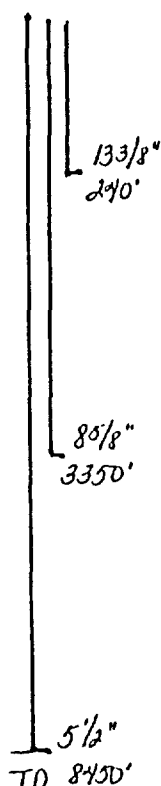
1. Name of the injection formation:
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such
perforated intervals and give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

SI
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 DataCompleted
6-30-52Surface 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

INJECTION WELL DATA SHEET

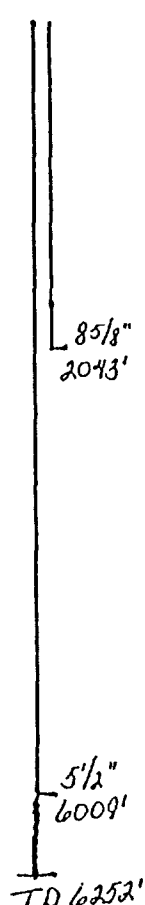
75

P

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

Tubular Data

Completed
10-07-53



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 4565 feet determined by 80% calc

Hole size: 7 7/8

Total Depth: 6252'

Injection Interval

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

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

Other Data

- 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

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

 $8\frac{5}{8}"$
 $3343'$

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

Surface Casing

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

TOC: Surface feet determined by ^{Circ}calc

Hole size: 18"

Intermediate Casing

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

TOC: ^{Surface}~~798~~ feet determined by ^{Circ}50% calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: 4077 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8435'

Injection Interval

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

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

Other Data

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

(Above) Drinkard

INJECTION WELL DATA SHEET

77

P

Greenhill Petroleum Corporation

Lovington Paddock

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

Tubular DataSurface Casing

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

TOC: Surface feet determined by calc *Circ*

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 4632 feet determined by temp survey

Hole size: 7 7/8

Total Depth: 6229'

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#24	660' FEL & 660' FSL	36	16S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
9-8-39

322'
13"

2940'
8 5/8"

4515'
5 1/2"

5075'
TD

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

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

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

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

Injection Interval

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

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

Other Data

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

I

80

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
6-28-53

Converted to
Injection 1-71

Surface Casing

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

TOC: Surface feet determined by ^{CIRC}calc

Hole size: 12-1/4"

Intermediate Casing

Size: 9 5/8" Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

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

Hole size: 7-7/8"

Total Depth: 6252'

To 6252'

Injection Interval

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

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

Other Data

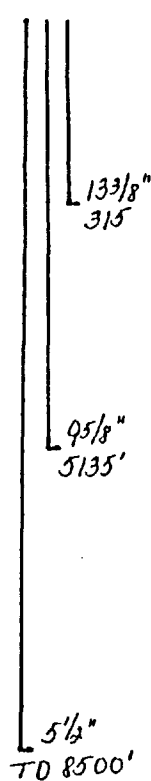
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

INJECTION WELL DATA SHEET

Texaco		State "0" Battery 2		
OPERATOR		LEASE		
9	660' FSL & 815' FWL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-8-51

Surface Casing

Size: 13-3/8" Cemented with 300 650 SX

TOC: Surface feet determined by ^{Circ}calc

Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with 4500 SX

TOC: Surface feet determined by ^{Circ}calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 650 SX

TOC: 4959 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8500'

Injection Interval

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

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

Other Data

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

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

(Above) Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#23	660 FSL & 900 FWL	31	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SXTOC: 1773 feet determined by 50% calcHole Size: 11 1/4

Long String

Size: 7 " Cemented with 200 SXTOC: 2735 feet determined by 80% calcHole Size: 8 1/4Total Depth: 5081'

Injection Interval

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

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

Other Data

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
 6/2/39

13"
 277'

 9 5/8"
 3013'

 7"
 4551'
 TD 5081'

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 SXTOC: Surface feet determined by calcHole size: 15 1/2

Intermediate Casing

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

Long String

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

Injection Interval

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

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

Other Data

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

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

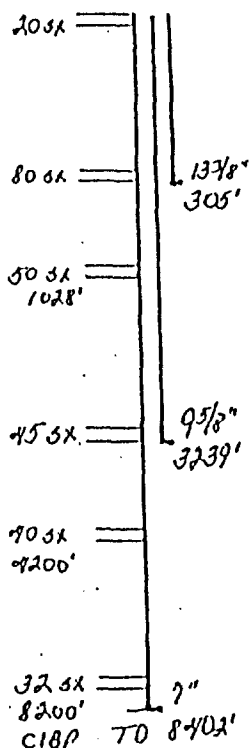
Tubular Data

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.

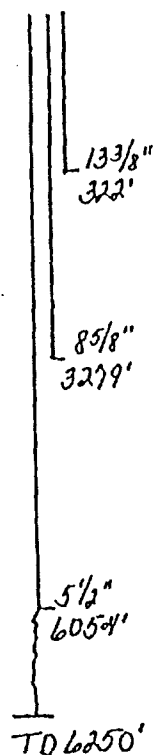
(Above) Drinkard

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 ^{circ}~~calc~~

Hole size: 17 1/2

Intermediate Casing

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

TOC: 1235 feet determined by temp
survey

Hole size: 11

Long String

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

TOC: 4290 feet determined by temp
survey

Hole size: 7 7/8

Total Depth: 6250'

Injection Interval6054 feet to 6250 feet
(perforated or open-hole, indicate which)

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

Other Data

- 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 DataSurface Casing

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

TOC: Surface feet determined by calc

13 3/8"
240'

Hole size: 18"

Intermediate Casing

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

TOC: 899 feet determined by 50% calc

8 5/8"
3350'

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with 850 SX

TOC: 3809 feet determined by 80% calc

5 1/2"
TO 8440'

Hole size: 7-7/8"

Total Depth: 8440'

Injection Interval

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

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

Other Data

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

(Above) Drinkard

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 13 " Cemented with ²⁰⁰~~175~~ SXTOC: Surface feet determined by ^{circ.}~~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

Completed
9/20/39

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#36	660' FSL & 2160' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-3/53

Converted to
Injection 1/71

Surface Casing

Size: 8-5/8" Cemented with 1475 SX

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

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 4077 feet determined by temp
survey

Hole size: 7-7/8"

Total Depth: 6245'

Injection Interval

6050 feet to 6245 feet
(perforated or open-hole, indicate which)

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

Other Data

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

INJECTION WELL DATA SHEET

Texaco		State "0"		
OPERATOR		LEASE		
23	990' FSL & 660' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
11-6-54

8 5/8"
3162'

5 1/2"
TO 8440'

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'

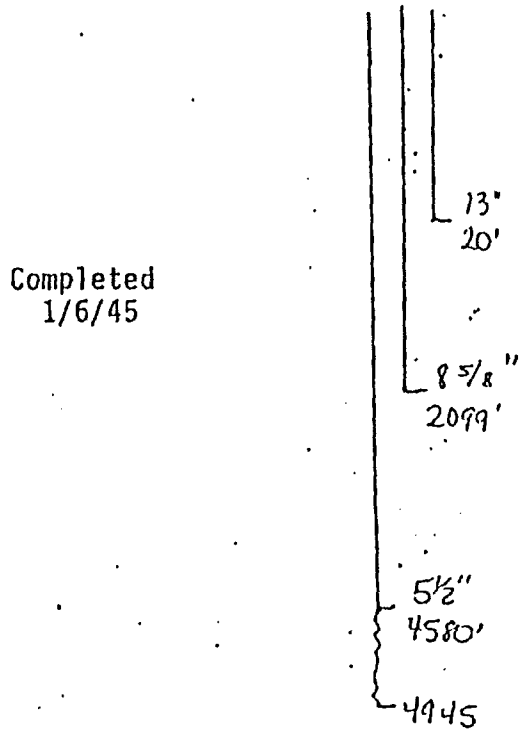
Injection Interval

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

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

Surface Casing

Size: 13 " Cemented with 200 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 1644 feet determined by calc

Hole Size: 12"

Long String

Size: 7 " Cemented with 200 300 SX

TOC: 1789 feet determined by calc

Hole Size: 8-3/4"

Total Depth: 4942'

Injection Interval

4570 - feet to 5040 feet
(perforated or open-hole, indicate which)

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

Other Data

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

Underlying-Grayburg

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation	Lovington San Andres Unit			
OPERATOR	LEASE			
#19	1980 FNL & 2310 FEL	32	T16S	R37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 3/8 " Cemented with 200 SXTOC: Surface feet determined by calcHole size: 17 1/4

Intermediate Casing

Size: 8 5/8 " Cemented with 300 SXTOC: 1193 feet determined by 50% calcHole Size: 11

Long String

Size: 5 1/2 " Cemented with 300 SXTOC: 2982 feet determined by 80% calcHole Size: 7 7/8Total Depth: 4946'

Injection Interval

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

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

Other Data

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

Underlying - Grayburg

Completed
1/5/46

319'
8 5/8"
2 1/3'
5 1/2"
4617'
4946' TD

INJECTION WELL DATA SHEET

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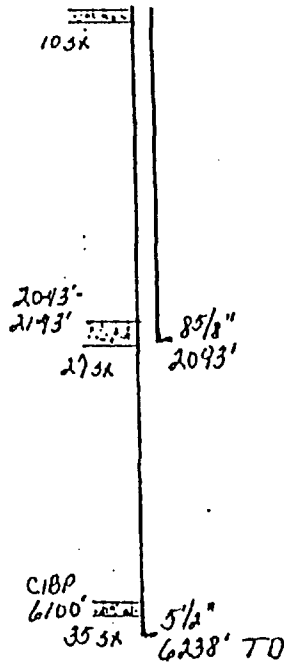
Texaco		State "P"		
OPERATOR		LEASE		
5	330' FSL & 330' FWL	32	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
1-18-52

P&A'd 7-26-76

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



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 520 SX

TOC: 3405 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6238'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

- 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

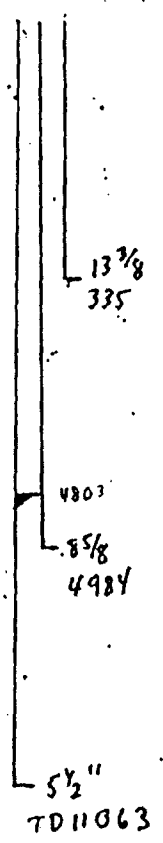
Texaco		State "V"		
OPERATOR		LEASE		
1	660' FWL & 660' FNL	5	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-20-52

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

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



Surface Casing

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

Intermediate Casing

Size: 8-5/8" Cemented with 3167 ~~3000~~ SX
TOC: Surface feet determined by calc
Hole Size: 11"

Long String

Size: 5-1/2" Cemented with 732 SX
liner behind intermediate
TOC: feet determined by
Hole Size: 7-7/8"

Total Depth: 11,063'

Injection Interval

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

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

Other Data

1. Name of the injection formation
2. Name of Field or Pool (If applicable) East Lovington (Penn)
3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever 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 Abo

INJECTION WELL DATA SHEET

E. F. Moran Inc.		Shipp State "A"		
OPERATOR		LEASE		
1	330' FNL & 330' FWL	5	17S	37E
WELL NO..	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 10-3/4" Cemented with 175 SX
 TOC: Surface feet determined by ^{calc.}~~calc.~~
 Hole size: 13-3/4"

Intermediate Casing

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

Long String

Size: 5-1/2" Cemented with 400 SX
 TOC: 2485 feet determined by 80% calc
 Hole size: 7-7/8"
 Total Depth: 4934'

Injection Interval

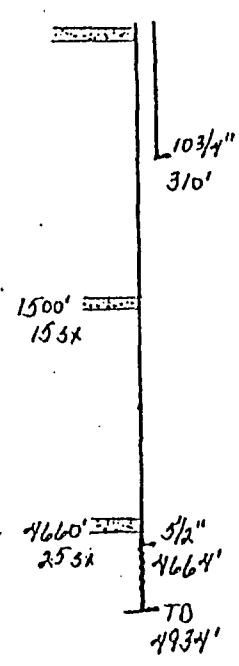
- feet to - feet
 (perforated or open-hole, indicate which)

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

Other Data

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

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



INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#53	330' FNL & 840' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date
10-52

Surface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: 8-5/8" Cemented with 2100 SX

TOC: 808 feet determined by temp
survey

Hole size:

Long String

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

TOC: 4116 feet determined by temp
survey

Hole size:

Total Depth: 14,153'

Injection Interval

6144 feet to 6194 feet
(perforated or open-hole, indicate which)

13 3/8"
258'
8 5/8"
500'
P8TD
6231'
Set 15 plugs
TD 14,153

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

Tubular Data

Surface Casing

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

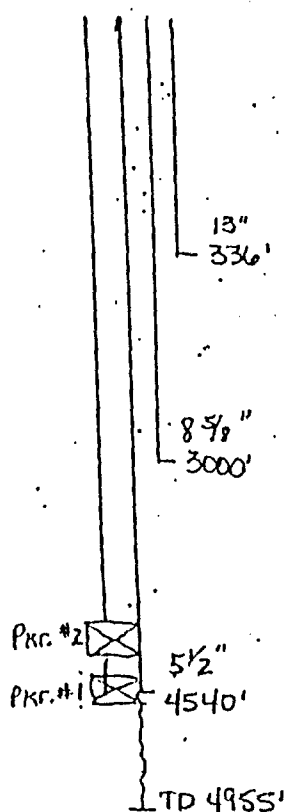
Intermediate Casing

Size: 8 5/8" Cemented with 500 SXTOC: 1774 feet determined by 50% calcHole Size: 10 1/4

Long String

Size: 5 1/2" Cemented with 200 SXTOC: 3127 feet determined by 80% calcHole Size: 6 3/4"Total Depth: 4955'

Injection Interval

4540 feet to 4955 feet
(perforated or open-hole, indicate which)Completed
9/12/39Pkr. #1
3/22/63Pkr. #2
1/25/79

Pkr. #1
Tubing size 2 3/8 lined with IPC set in a
(material)
Baker "A" Pension packer at 4466 feet.
(brand & model)
(or describe any other casing-tubing seal). Pkr. #2 Howco R-3 set @ 4435'.

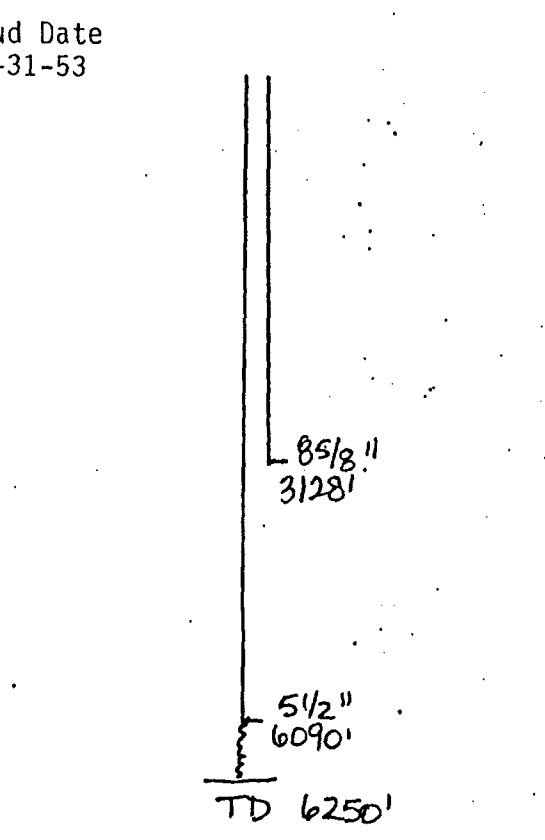
Other Data

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

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 (material) 6000 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

100

Texaco		C. S. Caylor		
OPERATOR		LEASE		
3	330' FNL & 2310' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataCompleted
6-17-52Surface Casing

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

TOC: Surface feet determined by calc

13 3/8"
240'

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"

8 5/8"
3356'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'

5 1/2"
TD 8435'Injection Interval- feet to - feet
(perforated or open-hole, indicate which)

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

Other Data

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

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

(Above) Drinkard

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
5-18-52

13 3/8"

236'

8 5/8"

3300'

5 1/2"

TD 8440'

Surface Casing

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

TOC: Surface feet determined by ^{CIRC} 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

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

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INJECTION WELL DATA SHEET

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

Tubular Data

Completion

9-23-53

Converted to
Injection 12/66Surface Casing

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

TOC: Surface feet determined by ^{Circ}calc

Hole size: 11

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 4050 feet determined by 70% calc

Hole size: 7 7/8

Total Depth: 6245'

Injection Interval6080 feet to 6245 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a - packer
at 5981 feet. (Or describe any other casing-tubing seal).

Other Data

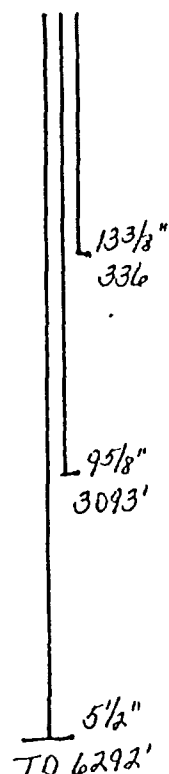
1. Name of the injection formation: Paddock
2. Name of Field or Pool (If applicable) Paddock
3. Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
7-31-53

Surface Casing

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

TOC: Surface feet determined by catc

Hole size: 17 1/4

Intermediate Casing

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

TOC: Surface feet determined by ^{Circ}gate

Hole size: 12 1/2

Long String

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

TOC: ⁴¹⁵⁰~~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
- 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 SXTOC: Surface feet determined by circulationHole size: 17 1/4 15

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SXTOC: 1956 feet determined by 50% calcHole Size: 12"

Long String

Size: 7 " Cemented with 200 SXTOC: 3264 feet determined by 80% calcHole Size: 8 3/4"Total Depth: 4950'

Injection Interval

4521 feet to 4950 feet
(perforated or open-hole, indicate which)

Packer #1
Tubing size 2" lined with IPC set in a
(material)
Baker "A" Pension packer at 4498 feet,
(brand & model)

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

Other Data

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

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

<div style="border-left: 2px solid black; padding-left: 5px;"> <div style="margin-bottom: 10px;">13 3/8 280</div> <div style="margin-bottom: 10px;">8 5/8 3198</div> <div style="margin-bottom: 10px;">5 1/2 8342</div> <div>TD 8430</div> </div>	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 225 SX
	TOC: Surface feet determined by calc
	Hole size: 17-1/2"
	<u>Intermediate Casing</u>
	Size: 8-5/8" Cemented with 1000 SX
	TOC: 1497 3063 feet determined by TS 50% calc
	Hole Size: 11"
	<u>Long String</u>
	Size: 5-1/2" Cemented with 600 SX
TOC: 4975 feet determined by temp survey	
Hole Size: 7-7/8"	
Total Depth: 8430'	

Injection Interval

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

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

Other Data

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

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

INJECTION WELL DATA SHEET

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"

85% "

078
31041

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"

4591

TD 1195

Total Depth: 4900'

Infection Interval

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

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

(material)

packer at _____ feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

Underlying-Grayburg

I

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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

	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 300 SX
	TOC: Surface feet determined by calc ^{Circ}
	Hole size: 17-1/2"
13 3/8" 297'	<u>Intermediate Casing</u>
	Size: 8-5/8" Cemented with 1500 SX
	TOC: ³⁹⁰ Surface feet determined by calc ^{TS}
	Hole size: 11"
8 5/8" 3723'	<u>Long String</u>
	Size: 5-1/2" Cemented with 550 SX
	TOC: ³⁷²⁴ 3019 feet determined by ^{TS} 80%-calc
	Hole size: 7-7/8"
5 1/2" 6015'	Total Depth: 6240'
TD 6240'	<u>Injection Interval</u>
	6015 feet to 6140 feet (perforated or open-hole, indicate which)

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

Other Data

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

INJECTION WELL DATA SHEET

Amerada Hess		State L "A"		
OPERATOR		LEASE		
9	660' FNL & 1880' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: 1295 Surface feet determined by 75 calc

Hole Size: 11"

Long String

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

TOC: 5597 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 8440'

Injection Interval

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

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

Other Data

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

Completed
6-24-52

13 3/8"
215'
11 1/8"
3748'
5 1/2"
9335'
8440'
TD

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#32	660 FNL & 1980 FEL	1	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 10 3/4" Cemented with 180 SXTOC: Surface feet determined by circulationHole size: 13 3/4"

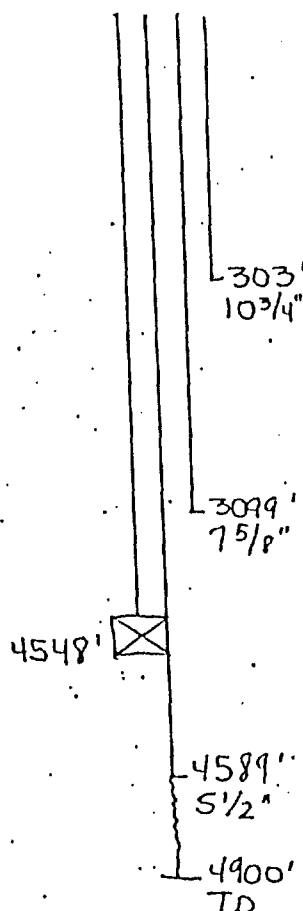
Intermediate Casing

Size: 7 5/8" Cemented with 265 SXTOC: 2200' feet determined by 50% calcHole Size: 9 7/8"

Long String

Size: 5 1/2" Cemented with 200 SXTOC: 2326' feet determined by 80% calcHole Size: 6 3/4"Total Depth: 4900'

Injection Interval

4589 feet to 4900 feet
(perforated or open-hole, indicate which)Completed
1/1/40Tubing size 2 3/8" lined with IPC set in aBaker "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'

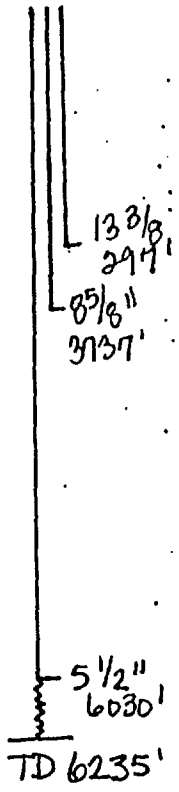
Injection Interval

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

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



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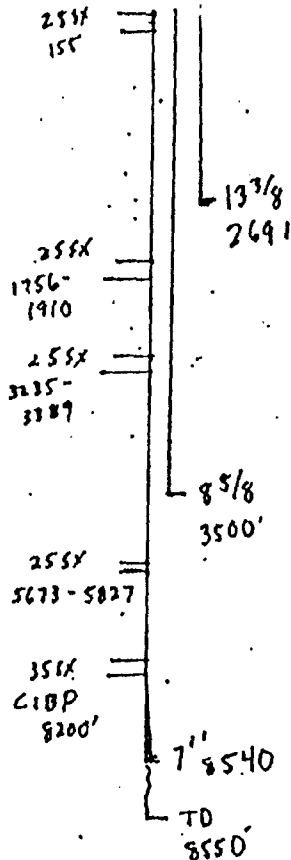
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
12-4-52

P&A'd
7-17-84



Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: 223 feet determined by 50% calc

Hole Size: 12-1/4"

Long String

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

4910 original by temp survey

TOC: 1855 feet determined by temp survey
sidetrack

Hole Size: 8-3/4"

Total Depth: 8550'

Injection Interval

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

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

- packer at - feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation -

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

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

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

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

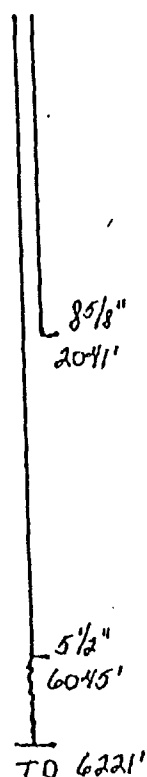
Above Drinkard

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#47	1930' FWL & 660' FNL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
9-04-54

Surface Casing

Size: 8-5/8" Cemented with ¹²⁰⁰~~1000~~ SX

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

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with ³⁰⁰~~102~~ SX

TOC: ⁴¹⁴⁷~~5055~~ feet determined by ^{TS}~~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

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

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
2-25-53

P&A'd
4-26-84

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

Surface Casing

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

TOC: Surface feet determined by circ. calc

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

Intermediate Casing

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

TOC: 1536
2050 feet determined by TS
50% calc

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

Long String

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

TOC: 4550 feet determined by temp survey

7"
10 8517 Hole Size: 8-3/4"

Total Depth: 8517'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

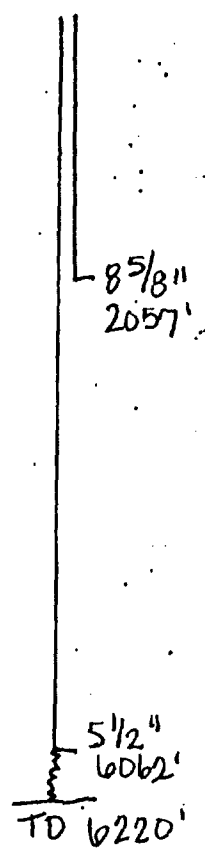
Lovington Paddock

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

Tubular Data

Spud Date
11-20-54

Deepen to 6300'



Surface Casing

Size: 8 5/8" Cemented with 1250 SX

TOC: Surface feet determined by calc

Hole size: 12 1/4"

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Long String

Size: 5 1/2" Cemented with 350 SX

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

Hole Size: 7 7/8"

Total Depth: 6220'

Injection Interval

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

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

Other Data

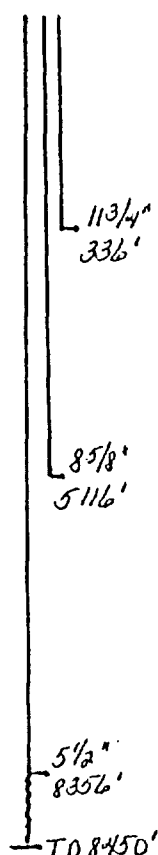
- Name of the injection formation Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give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

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 SKTOC: Surface feet determined by circulationHole size: 17 1/4

Intermediate Casing

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

Long String

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

Injection Interval

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

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

Other Data

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

Completed
12/2/39

INJECTION WELL DATA SHEET

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

13 3/8
 259
 1958
 9 5/8
 3226
 4818
 4978
 5650
 6098
 769
 TD
 8530

Surface Casing

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

TOC: Surface feet determined by circ. calc

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
4975 perlite

TOC: 553 feet determined by 80% calc
TS

Hole Size: 8-5/8"

Total Depth: 8530'

Injection Interval

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

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

Other Data

- Name of the injection formation _____
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No 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

	<u>Surface Casing</u>
	Size: 8-5/8" Cemented with 1350 SX
	TOC: Surface feet determined by ^{circ} calc
	Hole size: 12 1/2
	<u>Intermediate Casing</u>
	Size: Cemented with SX
	TOC: feet determined by
	Hole size:
	<u>Long String</u>
	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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Above Glorieta

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres Unit		
OPERATOR		LEASE		
#29	660 FNL & 660 FEL	2	T17S	R36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

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

Intermediate Casing

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

Long String

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

Total Depth: 4980'

Injection Interval

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

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

Other Data

- Name of the injection formation
- Name of Field or Pool (IF applicable) 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
1/21/42

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	<div>1 1/8" 269'</div> <div>9 5/8" 3300'</div> <div>7" 8391'</div> <div>TD 8470'</div> <div>TD 8987'</div>	Surface Casing
Converted to SWD 3-9-79		Size: 13-3/8" Cemented with 275 SX
Deepened to 8987' 3-9-79		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. spnd w/
600sx at 4722
TOC 3375 by TS

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

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

Intermediate Casing

Size: 9 5/8 " Cemented with 500 SX
 TOC: 1506 feet determined by 50% calc
 Hole Size: 12"

Long String

Size: 7 " Cemented with 200 SX
 TOC: 3265 feet determined by 80% calc
 Hole Size: 8 3/4"

Total Depth: 4945'

Injection Interval

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

Tubing size 2 3/8 lined with IPC set in a
 (material)
 packer at 4570 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

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

Completed
 10/28/39

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 DataSurface CasingCompleted
2-8-54Rice Engrg.
Deepened to
8858' &
Converted to
a SWD Well

13 3/8"
396'

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

TOC: Surface feet determined by ^{Circ} 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"

9 5/8"
3348'

Long String

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

TOC: 3484 feet determined by 80% calc

Hole size: 8-3/4"

5 1/2"
8530'
TO 8534'
TO 8858'
SWD

Total Depth: 8534'

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?
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 details (sacks of cement or bridge plug(s) used).
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

INJECTION WELL DATA SHEET

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

Tubular Data

<div style="display: flex; align-items: center;"><div style="border-left: 1px solid black; border-right: 1px solid black; width: 2px; height: 100%; margin-right: 5px;"></div><div style="display: flex; flex-direction: column; justify-content: space-around; align-items: center;"><div>13 7/8</div><div>349</div><div>8 5/8</div><div>2451</div><div>5 1/2</div><div>6363</div><div>70</div><div>6400</div></div></div>	<u>Surface Casing</u>
	Size: <u>13 7/8</u> " Cemented with <u>500</u> SX
	TOC: <u>Surface</u> feet determined by <u>calc</u>
	Hole size: <u>17 1/2</u>
	<u>Intermediate Casing</u>
	Size: <u>8 5/8</u> " Cemented with <u>900</u> SX
	TOC: <u>201</u> feet determined by <u>50% calc</u>
	Hole Size: <u>11</u>
	<u>Long String</u>
	Size: <u>5 1/2</u> " Cemented with <u>1230</u> SX
TOC: <u>Surface</u> feet determined by <u>80% calc</u>	
Hole Size: <u>7 7/8</u>	
Total Depth: <u>6400</u>	

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

Surface Casing

Size: 13 " Cemented with 200 SKTOC: Surface feet determined by circulationHole size: 17"

Intermediate Casing

Size: 9 5/8 " Cemented with 200 SKTOC: 1509 feet determined by 70% calcHole Size: 12 1/4 "

Long String

Size: 7 " Cemented with 250 SKTOC: 3266 feet determined by 70% calcHole Size: 8 3/4"Total Depth: 5144'

Injection Interval

4640 feet to 5144 feet
(perforated or open-hole, indicate which)Completed
8/25/39Deepened
5144'
11/86

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

Other Data

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

Lovington San Andres

LEASE

36E

RANGE

Completed
8-31-41

251' 13"

2050' 8 5/8"

4558' 5 1/2"

4990' TD

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

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

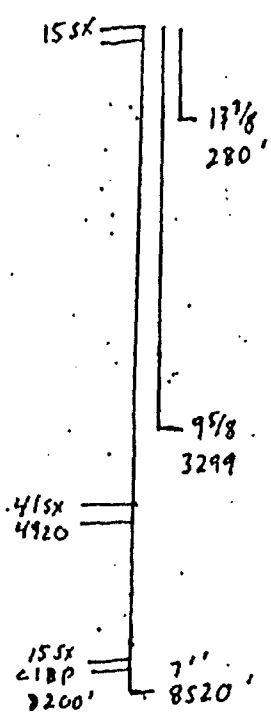
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
9-24-53

P&A'd
4-9-84



Surface Casing
Size: 13-3/8 " Cemented with 265 SX
TOC: Surface feet determined by 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 per lift
TOC: 2138 feet determined by calc
Hole Size: 8-3/4"
Total Depth: 8525'

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

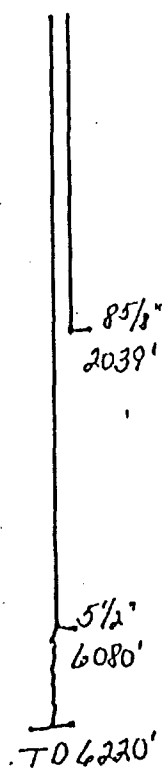
Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#61	990' FWL & 2310' FNL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 220 SX

TOC: 3847 feet determined by ^{temp survey} 80% calc

Hole size: 7-7/8"

Total Depth: 6220'

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

Tubing size 2-3/8" lined with IPC set in a - packer
at 6045 feet. (Or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

Penrge

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 SKTOC: Surface feet determined by calc

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

Intermediate Casing

Size: 9-5/8 " Cemented with 300 SKTOC: 1537
1937 feet determined by 75
50% calc

9 5/8
3298 Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with 225 SKTOC: 6775 feet determined by temp survey

7"
8530 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
 (material)

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

Other Data

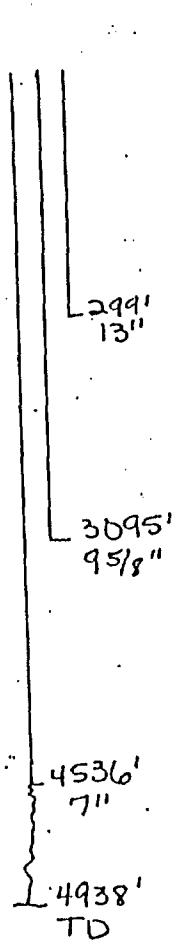
- Name of the injection formation -
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington San Andres		
OPERATOR		LEASE		
#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

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

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

Tubular Data

Surface Casing

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

TOC: Surface feet detormined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: $\frac{1550}{2316}$ feet determined by $\frac{TS}{507}$ calc

Hole Size: 12-1/4"

Long String

Size: 7 " Cemented with 500 ^{+ 500 per lite} SX

TOC: 5175 feet determined by Temp Survey

Hole Size: 8-3/4"

Total Depth: 8506'

Infection 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.

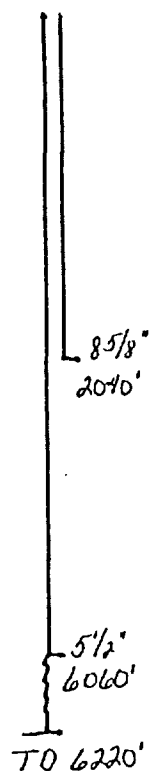
Above Drinkard

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 ^{CIRC} calc

Hole size: 12 1/4

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3841 feet determined by temp ^{file} survey

Hole size: 7 1/8

Total Depth: 6220'

Injection Interval

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

Tubing size - lined with IPC set in a - packer

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

ompleted
1-4-53

13 3/8
298'

8 5/8
3750

5 1/2
8300

7D
8440

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: 1361 Surface feet determined by TS calc

Hole Size: 11"

Long String

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

TOC: 4908 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 8440'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington, San Andres		
OPERATOR		LEASE		
#41	1980' FNL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular DataSurface Casing

Size: 13 ~ Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 2332 feet determined by calc

Hole Size: 11"

Long String

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

TOC: 3501 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 4903

Injection Interval

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

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

Other Data

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

Completed
9-22-39

314'
13"
3100'
9 7/8"
4592'
5 1/2"
4903'
TD

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

	<u>Surface Casing</u>
	Size: 13-3/8" Cemented with 300 SX
	TOC: Surface feet determined by calc
13 3/8"	Hole size: 17 1/2"
297'	<u>Intermediate Casing</u>
	Size: 8-5/8" Cemented with 1500 SX
	TOC: ¹⁰²⁸ Surface feet determined by ^{TS} calc
	Hole size: 11"
8 5/8"	<u>Long String</u>
3235'	Size: 5-1/2" Cemented with 550 SX
	TOC: ³⁶¹⁸ 3054 feet determined by ^{TS} 80% calc
	Hole size: 7-7/8"
5 1/2"	Total Depth: 6235
6050'	<u>Injection Interval</u>
TO 6235'	6050 feet to 6235 feet (perforated or open-hole, indicate which)

Tubing size 3" lined with IPC set in a - packer
at 5991 feet. (Or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
10-53

Surface Casing
 Size: 13-3/8" Cemented with 300 SX
 TOC: Surface feet determined by ^{circ} ~~calc~~
 13 3/8" Hole size: 17 1/2"
 297'
Intermediate Casing
 Size: 8-5/8" Cemented with 1500 SX
 TOC: 588 feet determined by temp survey
 8 5/8" Hole size: 11"
 374'
Long String
 Size: 5-1/2" Cemented with ⁵⁵⁰ ~~500~~ SX
 TOC: 3795 feet determined by temp survey
 5 1/2" Hole size: 7 7/8"
 6065'
 TO 6235'
Injection Interval
 - feet to - feet
 (perforated or open-hole, indicate which)

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
# 57	1980' & 695' FEL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
6-13-52

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17 1/2

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole Size: 11

Long String

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

TOC: 5454 4820 feet determined by TS

Hole Size: 7 3/4

Total Depth: 8450

Injection Interval

6028
6028 ~~5020~~ feet to 6187 feet
(perforated or open-hole, indicate which)

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

Other Data

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

INJECTION WELL DATA SHEET

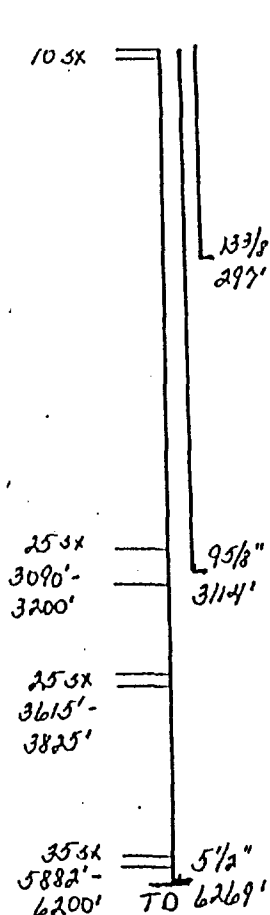
Sun Oil Company		M. Caylor		
OPERATOR		LEASE		
6	902' FWL & 1980' FNL	6	17S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
10-15-53

P&A'd 3-9-70

5 1/2 shot and
pulled 3795

Surface Casing

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

TOC: Surface feet determined by ^{circ}calc

Hole size: 18"

Intermediate Casing

Size: 9-5/8" Cemented with ¹⁵⁵⁰1200 SX

TOC: Surface feet determined by ^{circ}calc

Hole size: 12-1/4"

Long String

Size: 5-1/2" Cemented with ⁵⁰⁰450 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).

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

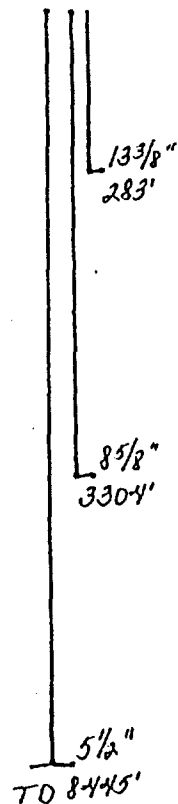
(Above) Glorieta

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 DataSpud Date
10-7-53Surface 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 San Andres		
OPERATOR		LEASE		
38	1650' FNL & 1980' FWL	6	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
9-16-39

Surface Casing

Size: 13 " Cemented with 250 SX

TOC: Surface feet determined by circ

Hole size: 17 1/4" 15

Intermediate Casing

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

TOC: 1804 feet determined by calc

Hole Size: 12" 10 3/4

Long String

Size: 7 " Cemented with 300 SX

TOC: 2707 feet determined by calc

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

Total Depth: 4945'

Injection Interval

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

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

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Spud Date
2-6-54

8 5/8"
3185'

5 1/2"
6135'
TD 6250'

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

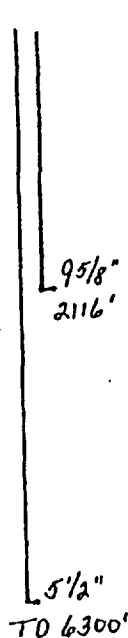
INJECTION WELL DATA SHEET

Tidewater Oil Company		H. L. Batton "A"		
OPERATOR	LEASE			
1	5	17S	37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
5-2-57

Cased Hole



Surface Casing

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

TOC: Surface feet determined by ^{circ}calc

Hole size: 12-1/4"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 800 SX

TOC: ³³⁸⁰~~1940~~ feet determined by ^{TS}~~80%~~ calc

Hole size: 7-7/8"

Total Depth: 6300'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

INJECTION WELL DATA SHEET

Samedan Oil Corp.
OPERATORCaylor
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

Surface Casing

Size: 13" Cemented with 250 SXTOC: Surface feet determined by circulationHole 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 SXTOC: 2814 feet determined by 80% calcHole Size: 7Total Depth: 5005

Injection Interval

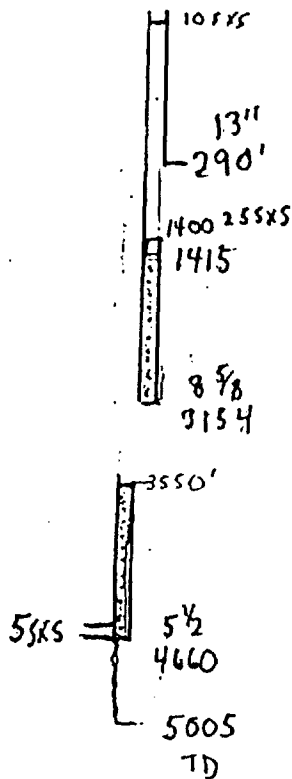
_____ feet to _____ feet
(perforated or open-hole, indicate which)

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

Other Data

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. _____

P: A
10/25/39



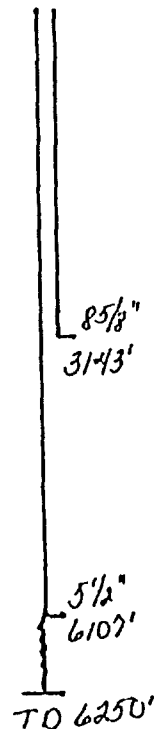
INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR		LEASE		
#68	1980' FSL & 1890' FWL	6	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed
12-23-53

Converted to
Injection 12-66



Surface Casing

Size: 8-5/8" Cemented with 1475 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

TOC: 3928 feet determined by 80% calc

Hole size: 7-5/8"

Total Depth: 6250'

Injection Interval

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

Tubing size 2-3/8" lined with IPC set in a packer
at 6039 feet. (Or describe any other casing-tubing seal).

Other Data

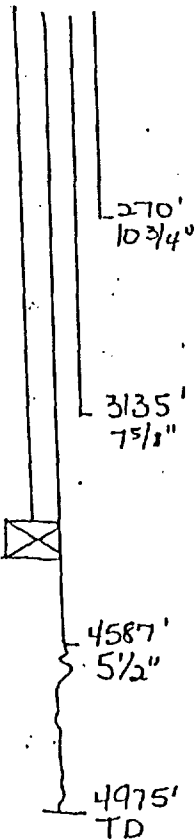
- Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) Paddock
- Is this a new well drilled for Injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
10-2-39

Surface CasingSize: 10-3/4 ~ Cemented with 200 SXTOC: Surface feet determined by circHole size: 13-3/4"Intermediate CasingSize: 7-5/8 ~ Cemented with 400 SXTOC: 1026 feet determined by calcHole Size: 9-7/8"Long StringSize: 5-1/2 ~ Cemented with 175 SXTOC: 2611 feet determined by calcHole Size: 6-3/4"Total Depth: 4975'Injection Interval

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

Tubing size 2-3/8" lined with IPC set in a
(material)
R-3 Tension packer at 4460 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

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

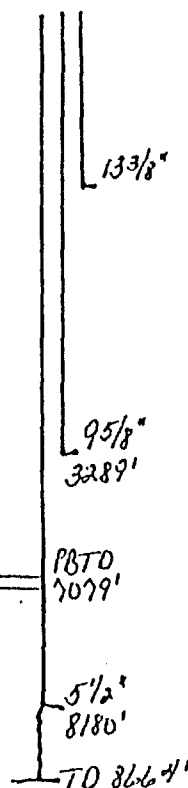
INJECTION WELL DATA SHEET

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

Tubular 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

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

Intermediate Casing

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

TOC: 2497 feet determined by 70% calc

9 5/8" Hole size: 12 1/2"

3289'

Long String

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

TOC: feet determined by temp survey

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

8180'

Total Depth: 8664'

TO 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

365'
13 3/8"

1969'
8 5/8"

5380'
5 1/2"

5400'
TD

Surface CasingSize: 13-3/8 " Cemented with 450 SXTOC: Surface feet determined by circ.Hole size: 17-1/2"Intermediate CasingSize: 8-5/8 " Cemented with 800 SXTOC: Surface feet determined by calcHole Size: 12-1/4"Long StringSize: 5-1/2 " Cemented with 940 SXTOC: 262 feet determined by calcHole 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

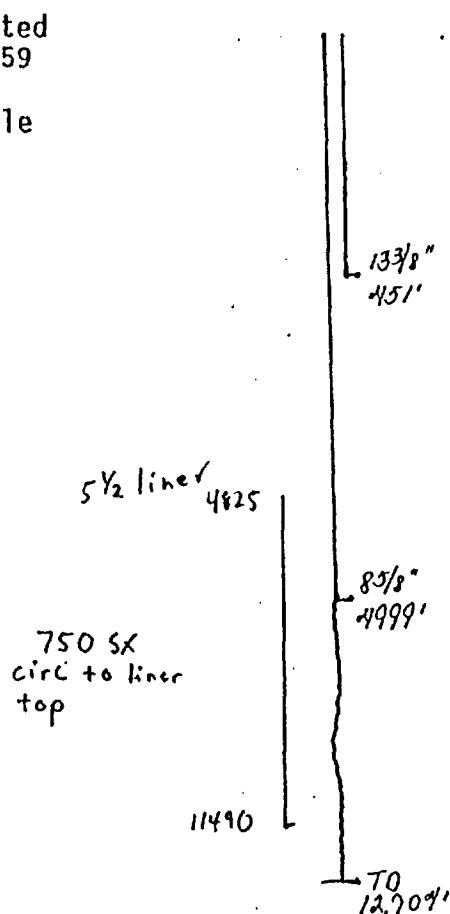
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
11-26-59

Dry Hole
TA

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

Size: Cemented with SX

TOC: feet determined by

Hole size:

Long String

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

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

Hole size: 11"

Total Depth: 12,704

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

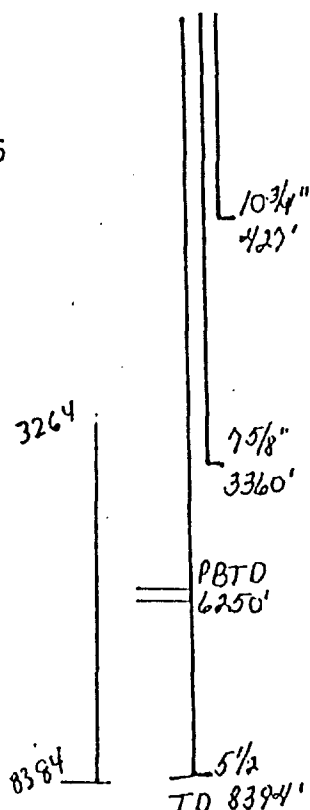
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
4-16-53

Converted to
Injection 12/66

Surface Casing

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

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

Hole size: 15

Intermediate Casing

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

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

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington San Andres

OPERATOR

LEASE

#49

1980' FSL & 660' FEL

1

17S

36E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SXTOC: Surface feet determined by circ.Hole size: ?

Intermediate Casing

Size: 9-5/8" Cemented with 250 SXTOC: 2350 feet determined by calcHole Size: ?

Long String

Size: 7 " Cemented with 259' SXTOC: 3090 feet determined by calcHole 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

(material)

packer at

4417

feet.

(brand & model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres2. Name of Field or Pool (If applicable) Lovington San Andres3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production4. Has the well ever be 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		
#48	1980' FSL & 1980' FEL	1	17S	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing

Size: 13 " Cemented with 250 SXTOC: Surface feet determined by calcHole size: 17-1/4"

Intermediate Casing

Size: 9-5/8 " Cemented with 250 SXTOC: 2251 feet determined by calcHole Size: 12"

Long String

Size: 7 " Cemented with 225 SXTOC: 3119 feet determined by calcHole Size: 8-3/4"Total Depth: 4960'

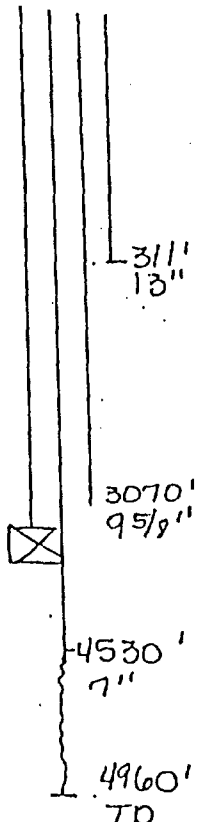
Injection Interval

4530 feet to 4960 feet
(perforated or open-hole, indicate which)Tubing size 2-7/8" lined with IPC set in a
(material)Baker Model 'A' packer at 4526 feet.
(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

Completed
5-21-39

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
2-23-53

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 17-1/2"

Intermediate Casing

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

TOC: 1039 ~~Surface~~ feet determined by TS ~~calc~~

Hole Size: 11"

Long String

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

TOC: 5614 feet determined by temp survey

Hole Size: 7-7/8"

Total Depth: 8440'

Injection Interval

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

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

(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

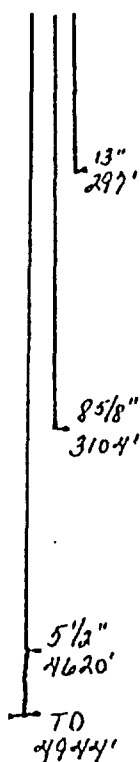
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
7-6-39

Converted
to Injection
8-6-69

Surface Casing

Size: 13" Cemented with 250 SX

TOC: Surface feet determined by calc

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 1572 feet determined by 50% calc

Hole size: 11"

Long String

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

TOC: 3367 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4944'

Injection Interval

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

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

Other Data

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

(Above) Grayburg

INJECTION WELL DATA SHEET

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

Tubular Data

Completed
12-18-53

Converted to
Injection 12/66

Surface Casing

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

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

Hole size: 17 1/2"

Intermediate Casing

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

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

Hole size: //

Long String

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

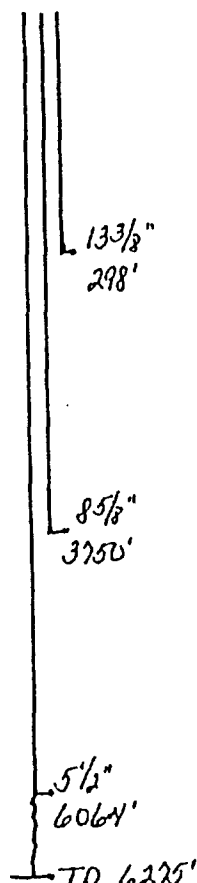
TOC: ³⁸³⁴~~3068~~ feet determined by ^{TS}~~calc~~

Hole size: 7-7/8"

Total Depth: 6275'

Injection Interval

6064 feet to 6275 feet
(perforated or open-hole, indicate which)



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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation

Lovington San Andres

OPERATOR

LEASE

#46

660' FWL & 1980' FSL

1

17S

36E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular DataSurface CasingSize: 10-3/4" Cemented with 175 SXTOC: Surface feet determined by calcHole size: 15"Intermediate CasingSize: 7-5/8" Cemented with 300 SXTOC: 1510 feet determined by calcHole Size: 9-7/8"Long StringSize: 5-1/2" Cemented with 300 SXTOC: 1235 feet determined by calcHole Size: 6-3/4"Total Depth: 4946'Injection Interval4624 feet to 4946 feet
(perforated or open-hole, indicate which)

Tubing size 2" lined with IPC set in a
(material)
Baker Model 'A' packer at 4574 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
OPERATORLovington San Andres
LEASE

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

Tubular DataSurface CasingSize: 13 " Cemented with 180 SXTOC: Surface feet determined by circHole size: 17-1/4"Intermediate CasingSize: 8-5/8 " Cemented with 400 SXTOC: 860 feet determined by calcHole Size: 11"Long StringSize: 5-1/2 " Cemented with 200 SXTOC: 3479 feet determined by calcHole Size: 7-7/8"Total Depth: 4990'Injection Interval4570 feet to 5070 feet
(perforated or open-hole, indicate which).

Tubing size 2- 7/8 lined with IPC set in a
(material)
packer at 4550 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

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

Lovington San Andres

LEASE

T17S-R36E

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
(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.

overlying Grayburg

INJECTION WELL DATA SHEET

Lovington Paddock

OPERATOR

LEASE

72

660 FSL & 2080 FWL

1

T17S-R36E

WELL NO.

FOOTAGE LOCATION

SEC.

TOWNSHIP

RANGE

Tubular Data

Completed
5/14/53

Surface Casing

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

TOC: Surface feet determined by circ.

Hole size: 17 1/2

Intermediate Casing

Size: 8 5/8 " Cemented with 1500 SX

TOC: Surface feet determined by calc.

Hole Size: 11

Long String

Size: 5 1/2" Cemented with 500 SX

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

Hole Size: 7 7/8

Total Depth: 6242

Infection Interval

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

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

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

Other Data

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

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

164

INJECTION WELL DATA SHEET

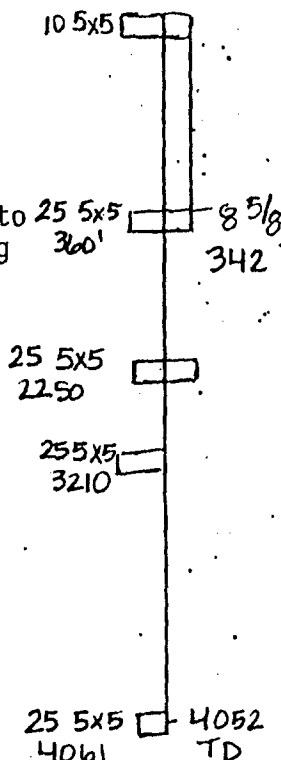
Compass Exploration, Inc.

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

Other Data

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

INJECTION WELL DATA SHEET

Greenhill Petroleum Corp. Lovington Paddock
OPERATOR LEASE

71 660 ESL & 660 FEL 1 T17S - R36E
WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE

Tubular Data

nd 5/6/56

Surface Casing
Size: 13 7/8 " Cemented with 350 1950 SX
TOC: Surface feet determined by circulation
Hole size: 17 1/2

Intermediate Casing
Size: 8 5/8 " Cemented with 1450 SX
TOC: 175 Surface feet determined by File
Hole Size: _____

Long String
Size: 5 1/2 " Cemented with 560 SX
TOC: 5000 5019 feet determined by 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

INJECTION WELL DATA SHEET

<u>Texaco</u> OPERATOR	<u>C. S. Caylor</u> LEASE
<u>4</u> WELL NO.	<u>2179' ENL. & 2173' FEL</u> FOOTAGE LOCATION
<u>6</u> SEC.	<u>17S</u> TOWNSHIP
<u>37E</u> 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
504 1/2 w/100 SY
Y 38 SY
Mo 80
Sg 2 5 1/2 from 5010 to
4995 w/50 SY

13 3/8 244'	<u>Surface Casing</u>
	Size: <u>13-3/8</u> " Cemented with <u>250</u> SX
	TOC: <u>Surface</u> feet determined by <u>CIRC calc</u>
	Hole size: <u>17-1/4"</u>
8 5/8 3253'	<u>Intermediate Casing</u>
	Size: <u>8-5/8</u> " Cemented with <u>1800</u> SX
	TOC: <u>Surface</u> feet determined by <u>CIRC calc</u>
	Hole Size: <u>12-1/4"</u>
5 1/2 3253'	<u>Long String</u>
	Size: <u>5-1/2</u> " Cemented with <u>600</u> SX
	TOC: <u>4377</u> feet determined by <u>80% calc</u>
	Hole Size: <u>7-7/8"</u>
	Total Depth: <u>8665'</u>
5 1/2 8200' TD 8665'	<u>Injection Interval</u>
	<u> </u> feet to <u> </u> 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

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

Tubular Data

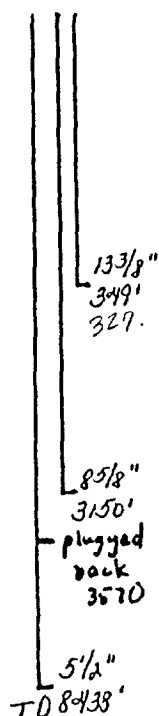
Completed
3-19-52

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" r.t. at 5297'
30 SX b.t. 170' above
TOC 3570'

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 1200 SX
TOC: Surface feet determined by calc

Hole size: 11"

Long String

Size: 5-1/2" Cemented with 410 SX
TOC: 3117 feet determined by temp survey
+ 80% calc provided by Oryx

Hole size: 7-3/4"

Total Depth: 8438'

Injection Interval

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

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

Other Data

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

(Above) Drinkard

INJECTION WELL DATA SHEET

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

Schematic

 $4\frac{1}{2}$ $8\frac{5}{8}$ $13\frac{3}{8}$

Tabular Data

Surface Casing

Size 13 $\frac{3}{8}$ " Cemented with 405 sx.TOC Surface feet determined by CircHole size 17 $\frac{1}{2}$

Intermediate Casing

Size 8 $\frac{5}{8}$ " Cemented with 1575 sx.TOC Surface feet determined by CircHole size 11

Long string

Size 4 $\frac{1}{2}$ " Cemented with 1450 sx.TOC 4350 feet determined by fileHole size 7 $\frac{7}{8}$ Total depth 11350

Injection interval

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

8826

FD 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 DataSurface CasingSize: 8 5/8 " Cemented with 485 SXTOC: Surface feet determined by calc.Hole size: 10 1/4Intermediate CasingSize: " Cemented with SXTOC: feet determined by Hole Size: Long StringSize: 5 1/2 " Cemented with 375 SXTOC: 1711 feet determined by 80% calc.Hole Size: 7 1/4Total Depth: 4955'Injection Interval4620 feet to 4990 feet
(perforated or open-hole, indicate which)Completed
1/5/49deepen to 4990
49908 5/8"
2043'5 1/2"
4620'

TD 4955'

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 DataSurface CasingSize: 13 " Cemented with 200 SXTOC: Surface feet determined by calcHole size: 17-1/4"Intermediate CasingSize: 9-5/8 " Cemented with 400 SXTOC: 1818 feet determined by calcHole Size: 12"Long StringSize: 7 " Cemented with 200 SXTOC: 3840 feet determined by calcHole Size: 8-3/4"Total Depth: 5110'Injection Interval4531 feet to 5110 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with IPC set in a
(material)
waterflood tension packer at 4510' feet.
(brand & model)

(or describe any other casing-tubing seal).

Other Data

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

INJECTION WELL DATA SHEET

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

Tubular Data

Surface Casing

Size: 8 5/8 " Cemented with 450 SX

TOC: Surface feet determined by calc

Hole size: 10 1/4

Intermediate Casing

Size: " Cemented with SX

TOC: feet determined by

Hole Size:

Long String

Size: 5 1/2 " Cemented with 400 SX

TOC: 1832 feet determined by 80% calc

Hole Size: 7 1/4

Total Depth: 4935'

Injection Interval

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

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"

291'
13"

Intermediate Casing

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

TOC: 2021 feet determined by calc

3109'
8 5/8"

Hole Size: 11"

Long String

Size: 5-1/2 " Cemented with 325 SX

TOC: 2890 feet determined by calc 80%

4541'
5 1/2"

Hole Size: 7-7/8"

4960'
TD

Total Depth: 5125

Injection Interval

5125'
TD

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

Deepen to 5030

	<u>Surface Casing</u>
	Size: <u>13</u> " Cemented with <u>20</u> SX
	TOC: <u>Surface</u> feet determined by <u>circ</u>
	Hole size: <u>15</u> "
	<u>Intermediate Casing</u>
	Size: <u>7-5/8</u> " Cemented with <u>500</u> SX
	TOC: <u>Surface</u> feet determined by <u>calc</u>
	Hole Size: <u>9-3/4</u> "
	<u>Long String</u>
	Size: <u>5-1/2</u> " Cemented with <u>290</u> SX
TOC: <u>Surface</u> feet determined by <u>calc</u>	
Hole Size: <u>6-1/4</u> "	
Total Depth: <u>4943'</u>	
<u>Injection Interval</u>	
<u>4560</u> — feet to <u>5030</u> — 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)

Tubing size 2 3/8 lined with IPC set in a
 (material)
 packer at 4519 feet.
 (brand & model)
 (or describe any other casing-tubing seal).

Other Data

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

Completed
12/4/39

INJECTION WELL DATA SHEET

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)

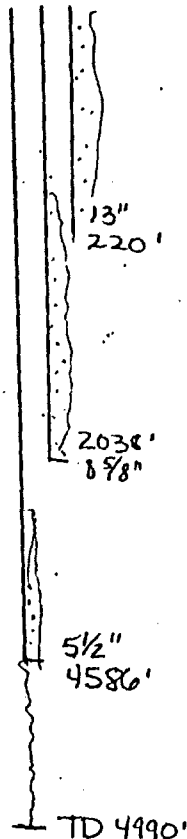
Tubing size 2 3/8 lined with IPC set in a
(material)
packer at 4536 feet.
(brand & model)
(or describe any other casing-tubing seal).

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
6/19/41
Deepen to 5030'



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

Surface Casing

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

Intermediate Casing

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

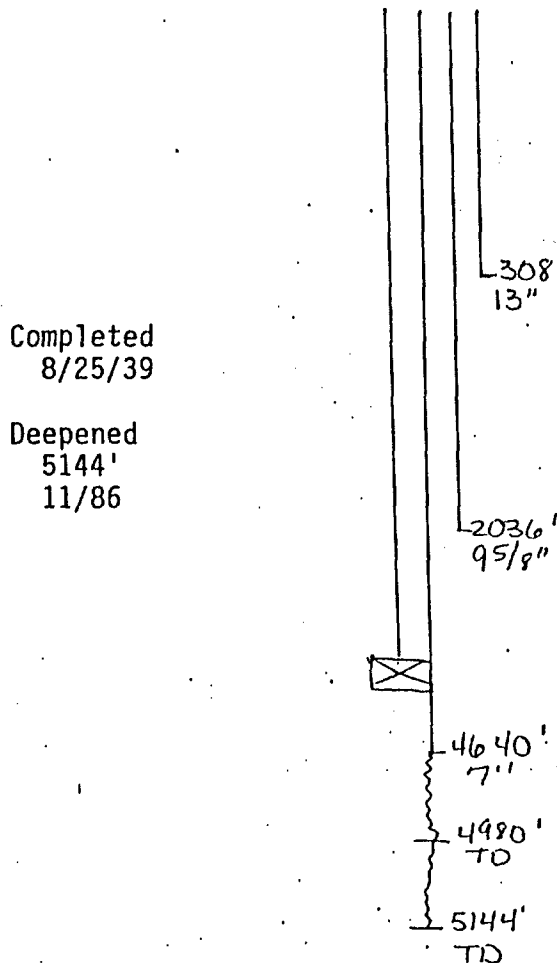
Long String

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

Total Depth: 5144 "

Injection Interval

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



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

Other Data

- 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

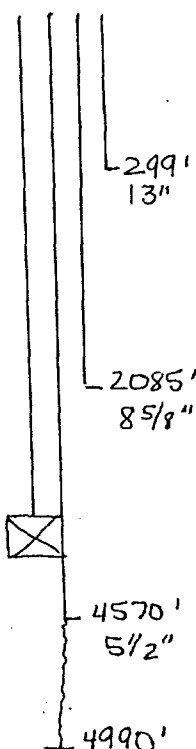
INJECTION WELL DATA SHEET

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

Tubular Data

Completed
5-15-41

deepen to 5070



Surface Casing

Size: 13 " Cemented with 180 SX

TOC: Surface feet determined by circ

Hole size: 17-1/4"

Intermediate Casing

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

TOC: 860 feet determined by calc

Hole Size: 11"

Long String

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

TOC: 3479 feet determined by calc

Hole Size: 7-7/8"

Total Depth: 4990'

Injection Interval

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

Tubing size 2- 7/8 lined with IPC set in a
(material)
packer at 4550 feet.
(brand & model)
(or describe any other casing-tubing seal).

Other Data

- 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

514' - 55' SX
500' - 4324' (60% calc.)
 _____ 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

- 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		
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

- 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		
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)
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

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)

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

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) 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		
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

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
(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		
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
(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	SEC.	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

INJECTION WELL DATA SHEET

GREENHILL PETROLEUM CORPORATION

Lovington Paddock

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

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

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

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) 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		
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

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

Other Data

- Name of the injection formation
- Name of Field or Pool (If applicable) 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		
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

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 (material) set in a

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

packer at feet.

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		
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

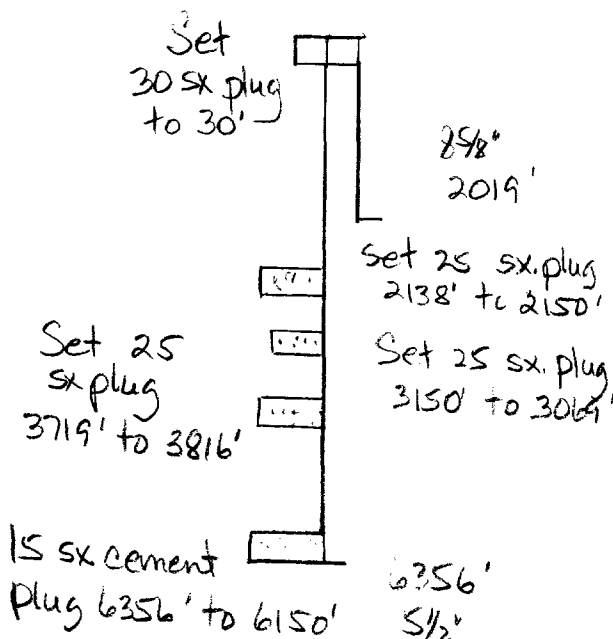
- Name of the injection formation -----
- Name of Field or Pool (If applicable) Lovington Abo
- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Production
- Has the well ever be perforated in any other zone(s)? List all such perforated intervals and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

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

- 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

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.



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

Paula Quinn

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):

1. ☐ Addressee's Address
2. ☐ 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)

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):

1. ☐ Addressee's Address
2. ☐ 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)

6. Signature (Agent)

PS Form 3811, October 1990

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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):

1. ☐ Addressee's Address
2. ☐ 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

<p>SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.</p> <p>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.</p> <p>1. <input type="checkbox"/> Show to whom delivered, date, and addressee's address. (Extra charge) 2. <input type="checkbox"/> Restricted Delivery (Extra charge)</p>	
<p>3. Article Addressed to:</p> <p>Mr. James Lynn Walker 2900 Dal Paso Hobbs, New Mexico 88240</p>	<p>4. Article Number P-375-330-333</p> <p>Type of Service:</p> <p><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</p> <p>Always obtain signature of addressee or agent and DATE DELIVERED.</p>
<p>5. Signature — Addressee X <i>Louise Walker</i></p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature — Agent X <i>gn</i></p>	
<p>7. Date of Delivery <i>4-3-92</i></p>	

PS Form 3811, Apr. 1989

*U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT