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GREENHILL PETROLEUM CORPORATIONS

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incorporated in Delaware, U.S.A.

March 16, 1992

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

Re: Lovington San Andres

Lea County, New Mexico

Attention: Mr. David Catanach

Dear Mr. Catanach:

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

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

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

Very truly yours,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 92.206

Enclosures

of the earlier submittal.

OIL CONSERVATION DIVISION

FORM C-108 Revised 7-1-81

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

| APPLICA | TION FOR AUTHORIZATION TO INJECT | |
|---------|---|--|
| I. | Purpose: XX Secondary Recovery Pres Application qualifies for administrativ | sure Maintenance Disnosal Storage e approval? Dyes Dno |
| II. | Operator: GREENHILL PETROLEUM COR | PORATION |
| | Address: 11490 Westheimer, Suite | 200, Houston, Texas 77077 |
| | Contact party:Mike Newport | Phone: (713) 589-8484 |
| III. | | the reverse side of this form for each well ional sheets may be attached if necessary. |
| IV. | Is this an expansion of an existing project If yes, give the Division order number aut | t? XX yes |
| ٧. | Attach a map that identifies all wells and injection well with a one-half mile radius well. This circle identifies the well's a | circle drawn around each proposed injection |
| • VI. | | f public record within the area of review which ch data shall include a description of each ocation, depth, record of completion, and ng all plugging detail. |
| VII. | Attach data on the proposed operation, inc | luding: |
| | Whether the system is open or clos Proposed average and maximum injection Sources and an appropriate analysis the receiving formation if other If injection is for disposal purposat or within one mile of the pro- | tion pressure; s of injection fluid and compatibility with than reinjected produced water; and ses into a zone not productive of oil or gas posed well, attach a chemical analysis of r (may be measured or inferred from existing |
| *VIII. | detail, geological name, thickness, and de bottom of all underground sources of drink | injection zone including appropriate lithologic pth. Give the geologic name, and depth to ing water (aquifers containing waters with 0,000 mg/l or less) overlying the proposed known to be immediately underlying the |
| IX. | Describe the proposed stimulation program, | if any. |
| * X. | Attach appropriate logging and test data of with the Division they need not be resubmi | n the well. (If well logs have been filed tted.) |
| * XI. | Attach a chemical analysis of fresh water available and producing) within one mile olocation of wells and dates samples were t | f any injection or disposal well showing |
| XII. | Applicants for disposal wells must make ar examined available geologic and engineering or any other hydrologic connection between source of drinking water. | g data and find no evidence of open faults |
| XIII. | Applicants must complete the "Proof of Not | ice" section on the reverse side of this form. |
| XIV. | Certification | |
| | to the best of my knowledge and belief. | title Land Manager-Permian Basin |
| | Signature: | Date: 3-2-94 |
| | he information required under Sections VI, \ | |
| subm | itted, it need not be duplicated and resubmi | tted. Please show the date and circumstance |

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.

- 8. 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.

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

BEFORE EXAMINER CATANACH OIL CONSERVATION DIVISION

GREENHILL EXPERTION 7

0435 NO. 10154

VIII GEOLOGIC DATA

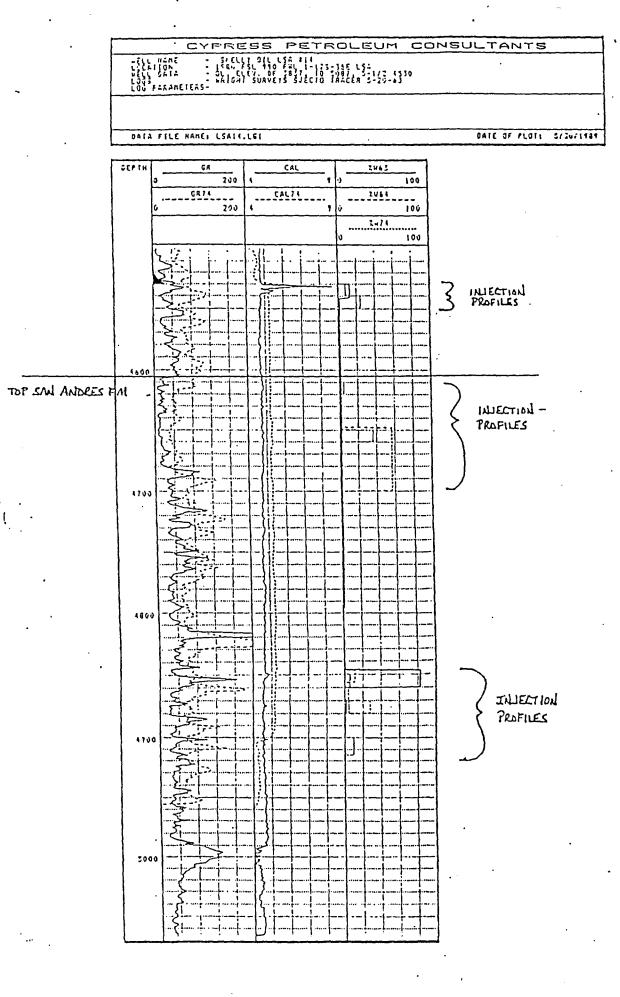
The zone of interest for this application to inject is the San Andres Formation. In the area of the Lovington San Andres Field, the San Andres formation is approximately 1350' of dolomite; however, only the upper 400' - 500' is productive. The top of the San Andres formation occurs between 4580' and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

The only known underground source of drinking water in the Lovington San Andres Field area is the Ogalalla Formation. The approximate base of the formation is 200'. No source is known to be immediately underlying the proposed injection interval.

BEFORE EXAMINER CATANACH OIL CONSERVATION DIVISION

GREEDHIU EXHEITHO. 8

CASE NO. 10154



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

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

BEFORE EXAMINED CATANACH
OIL CONSERVATION DIVISION

GREENHILL EMENT NO. 9

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Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

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

| | | LABORATORY NO | 1189311 | |
|---|---------------------|------------------|---------------|--|
| Mr. Dan Westover | | | | |
| To: Mr. Dan Westover 12777 Jones Road, Suite 375, Housto | n. TX | SAMPLE RECEIVED | 12-4-89 | |
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| SOURCE OF SAMPLE AND DATE TAKEN: | • . • | ••• | | |
| No. 1 Produced water - taken from i | njection po | ump discharge. | 11-27-89 | |
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| pH When Sampled | 6.8 | | | |
| pH When Received | 6.90 | | ļ | <u> </u> |
| Bicarbonate as HCO3 | 1,464 | | ļ | <u> </u> |
| Superseturation as CaCO3 | 70 | | ļ | ļ |
| . Undersaturation as CaCO3 | | | | |
| Total Hardness as CaCO3 | 5,700 | | | ļ |
| Calcium as Ca | 1,540 | | | <u> </u> |
| Magnesium as Mg | 450 | | | ٠, |
| Sodium and/or Potassium | 5,369 | | | |
| Sulfate as SO4 | 2,358 | | | |
| Chloride as Cl | 9,730 | | | • |
| Iron as Fe | 0.32 | | | |
| Barlum as Ba | 0 | | | |
| Turbidity, Electric | 72 | | | |
| Color as Pt | 56 | | | |
| Total Solids, Calculated | 20,910 | | | |
| Temperature °F. | 67 | | | |
| Carbon Dioxide, Calculated | 381 | | | |
| Dissolved Oxygen chemets | 0.000 | 1 | | |
| Hydrogen Suifide | 480 | | | |
| Resistivity, ohms/m at 77° F. | | | | |
| Suspended Oil | 0.420 | | | |
| | 15 | | | |
| Filtrable Solids as mg/i | 22.9 | | | |
| Volume Filtered, ml | 850 | | | |
| | | | <u> </u> | |
| | ļ | | | |
| B lee |) | | | L |
| L | Reported As Milligr | | d-ddroot | and donne of |
| | | show no direct | | |
| air contamination in this study, th | | | | |
| condition is being accomplished. O | | | | |
| them to be essentially all a very f | | | | |
| significance to the higher quantity | | | | |
| We have identified no evidence of a | | velopment of c | oncern and t | nerelore see |
| no need to make any changes at this | time. | | | |

Form No. 3

MATTERLES

| H. 943-3234 OR 563-1040 | LT OF WATER A | NALYSES | | THONE BILL 4321 |
|--|------------------------|----------------|-----------------|-----------------|
| | | | 3023 | • |
| To: <u>Mr. Dan Westover</u> 12777 Jones Road, Suite 375, Housto | | upi e peceivei | 9-1-39 | |
| 17777 Jones Road, Suite 375, Houston | n, TX BE | SUL TS REPORT | 9-8-89 | |
| | | | A | |
| COMPANY Greenhill Petroleum Corporat | ion LEASE L | ovington Pac | idock/San And | res Unit |
| FIELD OR POOL | Lovington | | 3 | • . • • |
| SECTION BLOCK SURVEY | COUNTY | Lea | STATE NM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | | | 3.7.12 | |
| No. 1 Raw water - taken from water | supply:well # | 1. 9-1-89 | ULB SI TI | 75 R4E |
| No. 1 Raw water = taken from water | supply well | 2. 9-1-89 | VIC SI TI | 7 7 7 21 5 |
| NO. 2 Raw water - taken from water | <u> </u> | | <i>V S T T</i> | <u> </u> |
| , но. 3 : | | | | |
| NO. 4 | | | | |
| REMARKS | | | | |
| We test to NAME OF CHEMICAL A | ND PHYSICAL P | ROPERTIES | | |
| The Control of the State of the | · · · 1 NO. 1 · · · | . HO. Z | L ON . | 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 HCO3 | 229 | 249 | . : | |
| 2 Supersaturation as CaCO3 | 8 | 4 1144 | 1 14 23 h + 1 4 | |
| Undersaturation as CaCO3 | | | • | |
| Total Hardness as CaCO3 | ·**370:-** : : · | · 164 | | · |
| Calcium as Ca | 120 | 51 | | |
| Magnesium as Mg agree 1945 19 1 2 222 | 17:20 | 9 10 1 | State Comment | |
| Sodium and/or Potassium | 171 | 130 | | |
| Sulfate as 504 · : | 99 | 89 | • | |
| Chloride as CI | 320 | 107 | | |
| Iron as Fa., | 0.48 | 0.64 | 1 | |
| Barlum as Ba | 0 | 0 | | |
| Turbidity, Electric toward (1997) | 3 | 5 | . e | |
| Color as Pt | 7 | 3 | | |
| Total Solids, Calculated | at 956" take | | 1883 January | |
| Temperature *F. | 65 | 66 | <u> </u> | - |
| Carbon.Dloxide, Calculated | ∴ 25 | | 20 C La 14 D | |
| Dissolved Oxygen Winter - Chemets | 4.7 | 3.0 | | |
| Hydrogen Sulfide | 0.0 | 0.0 | · : | ļ |
| Resistivity, ohms/m at 77* F. | 6.75 | 12,25 | <u> </u> | <u> </u> |
| Suspended OII | | | | <u> </u> |
| Filtrable Solids as mg/j | | · ::::-3;2·: | 1 | |
| Volume Filtered, ml | 10.000 | 1.000 | 1 45 1 11 | : 2ms Ar . |
| A Company of the second of the | • | | | <u> </u> |
| | | | | |
| | | <u> </u> | | <u> </u> |
| | leported As Milligrams | | | . h h |
| Additional Determinations And Remarks The prime | | | | |
| well #1 is that we again identified | | | | |
| solids. This generally confirms th | | | | |
| on laboratory #789270 that the previdentified no significant sand in t | | | | |
| eral, we find the current chemical | | | | |
| satisfactory thereby indicating no | | | | |

Form No. 3

cc: Mr. Bryant Bradley, Ozark Training

& Consulting, Austin Mr. Cy Jones, Hobbs

Wayian C. Martin, M.A.

Calcium Carbonate Scale Prediction Lovington San Andres Unit Paragon Engineering Services

Water "A": 50% Lovington WSW.1.+50% WSW, H2, 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/1

| % Water "A" % Water "B" | 100 0 | . 80 20 | 744 756 | 40 60 | 20 80 | 0 100 |
|-------------------------|----------|-------------|------------|------------|------------|------------|
| Components: CATIONS | | | • | | | ~ |
| Calcium, Ca | 138.50 | 646.18 | 1560.00 | 1661.54 | 2169.21 | 2676.89 |
| Magnesium, Mg | 15.50 | 122.82 | 316.00 | | | 552.11 |
| Iron, Fe | 1.09 | 1.74 | 2.90 | 3.03 | 3.68 | 4:32 |
| Barlum, Ba | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sodlum, Na | 150.00 | | | | | 9057.14 |
| ANIONS | | • | • | | • | |
| Chloride, Cl | 323.00 | 3555.86 | 9375.00 | 10021.57 | 13254.43 | 16487.29 |
| Sulfate, SO4 | 99.50 | 655.04 | 1655.00 | 1766.11 | 2321.64 | 2877.18 |
| Carbonate, CO3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bicarbonate, HCO3 | 223.00 | | | 1853.71 | | |
| Tot. Dsol'd Solids | 950.59 | 7679.63 | 19791.90 | 21137.71 | . 27866.75 | 34595.79 |
| Measured pH Values | 7.00 | | 6.70 | | | |
| • | 10000000 | | 5011872.34 | | | • |
| $H+ = 1/10^{\circ} pH$ | | .0000001355 | | .000000207 | .000000242 | .000000278 |
| $1/H+ = 10^{\circ}pH$ | | 7377619.17 | | | | 3600678.77 |
| Calculated pH Values | | ა.87 | | 6.68 | | |

Calcium Carbonate Solubility Calculation.

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

| | | Canv. | | | | | | |
|------|-----|---------|----------|----------|----------|----------|----------|----------|
| • | | 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 |
| C1 | | .000014 | .004522 | .049782 | .131250 | .140302 | .185562 | .230822 |
| 504 | | .000021 | .002090 | .013756 | .034755 | .037088 | .048754 | .060421 |
| C03 | • | .000033 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| HC03 | | .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 | ٥٥ | 80 | 100 |

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

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

| Temperature: | • | (26.7C) (49C) | | | • | |
|-----------------------------------|------|------------------|--------------|--------------|--------------|--------------|
| Look Up K: K for 80F K for 120F | 2.06 | 2.60 2.16 | 3.07 2.56 | 3.08 2.58 | 3.21 2.70 | 3.29 2.78 |
| Calculated pCa Calculated pAlk | 2.46 | 1.79 | 1.41 | 1.38 1.52 | 1.27 1.41 | 1.18 |

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

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

| (K + pCa | + pAlk) At 80F = At 120F = | 6.96 6.58 | 6.29 5.85 | 6.02 5.51 | 5.98 5.48 | 5.88 5.37 | 5.78 5.27 |
|----------|----------------------------|--------------|--------------|--------------|--------------|-----------------|--------------|
| CaCO3 SI | = At 80F = At 120F = | 704 42 | .57 1.01 | .68 J | .70 1.20 | .73 1.24 ; | 1.28 |

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

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

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: Reservoirs

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

> P = 2000.00 psla X = .05 Mole Fraction CO2 Ca = .066755 Moles/1 Alk = .048211 D = -5.80922 log[(C)(Alk)*2/(P)(X)] T = 120.00 Temp, F u = .69 Molar lonic Strength

C = Ca(mg/1)/40100 = .066755 A1k = (HCO3 + CO3(mg/1))/61000 = .0482108 $D = log(((C)(A1k)^2/((P)(X))) = -5.80922$

| Variable | Value x Constant | t = | Product |
|----------|------------------|-----|---------|
| D | -5.80922 1.00 | = | -5.81 |
| T | 120.00 .01549 | = | 1.86 |
| (T)(T) | 14400.00000004 | = | 06 |
| Р | 2000.00 ~.000074 | = | 15 |
| u | .69 .919 | = | .63 |
| (u)10.5 | .8306624 -2.52 | = | -2.09 |
| | • | | 5.89 |
| | | | |

Sum = Is = ...27

WATER ANALYSIS REPORT

: 8-22-90 : GREENHILL PETROLEUM Date . Company : LOVINGTON, NM : SENE SEC 2 TI7S R36E : S. A. #44 Date Sampled: 8-22-90 Analysis No.: 1 Address

Lease

Well Sample Pt. : WINDMILL

| | ANALYSIS | • | | mg/L | | * meg/L |
|-----|-----------------------|----------|-------|---------|------|---------|
| 1, | рН | 7.5 | | • | | |
| 2. | H26 | 0 | | • | | |
| 3. | Specific Gravity | 1.001 | | | | |
| 4. | Total Dissolved Solid | .8 | | 2222.8 | • | |
| 5. | Suspended Solids | | | NR ' | | |
| 6. | Dissolved Oxygen | | | NR | | |
| 7. | Dissolved CO2 | • | | NR | | |
| 8. | Oil In Water | • | • | · NR | · | • |
| 9. | Phenolphthalein Alkal | inity (C | aCO3) | • | • | ÷ |
| 10. | Methyl Orange Alkalin | | | • | | |
| 11. | Bicarbonate | | HC03 | 244.0 | HCQ3 | 4.0 |
| 12. | Chloride | | C1 | 917.6 | C1 | 25.9 |
| 13. | Sulfate | | 504 | . 325,0 | S04 | 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 (CaCO) |) . | | 1800.0 | | |

PROBABLE MINERAL COMPOSITION

| ر بينية فينو ولك ولدن الدنة والكو للدنة | | | - · | | |
|--|----|--|------------------------------|--------------------|--------------------|
| *milli equivalents per Liter | • | Compound | Equiv wt | X med/r | = mg/L |
| 36 *Ca < *HCO3 / /> | 7 | Ca (HCO3) 2 CaSO4 CaC12 Mg (HCO3) 2 | 81.0 68.1 55.5 73.2 | 4.0 6.8 25.2 | 324 461 1396 |
| daturation Values Dist. Water | | MgSO4 MgCl2 NaHCO3 | 60.2 47.6 84.0 | ดงก | 2 |
| CaCO3 13 mg, CaSO4 * 2H2O 2O90 mg, BaSO4 2.4 mg, | /L | Na2SO4 NaCl | 71.0 58.4 | 0.7 | 40 |

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted, D. SWEATT

WATER ANALYSIS REPORT

: 8-22-90 : GREENHILL PETROLEUM Date Company : LOVINGTON, NM : SENE SECZE TIES R36E : PAD 18 Date Sampled: 8-22-90 Analysis No.: 2 Address

Lease

Well Sample Pt. : WINDMILL

| | ANALYSIS | ٠, | | mg/L | | * meg/L |
|-----|-----------------------|-----------|--------|--------|------|---------|
| ı. | Нф | 7.6 | | | • | |
| 2. | H2S | 0 | | | | |
| з. | Specific Gravity | 1,001 | | | | • |
| 4. | Total Dissolved Solid | lg . | | 2086.2 | • • | • |
| 5. | Suspended Solids | | : | NR . | • | |
| 6. | Dissolved Oxygen | • | | NR " | | |
| 7, | Dissolved CO2 | • | | NR | * | |
| 8. | Oil In Water | | | NR. | • • | |
| 9. | Phenolphthalein Alkal | inity (c | CaCO3) | • | | • • |
| 10. | Methyl Orange Alkalin | ilty (Cac | 203) | • | | |
| 11. | Bicarbonate | - , | HC03 | 244.0 | HC03 | 4.0 |
| 12. | Chloride | | C1 | 1035.2 | Cl | 29.2 |
| 13. | Dulfale | • | 504 | 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 (CaCO: | 3) | | 1800.0 | • | |
| | • | • | • | | • | |

PROBABLE MINERAL COMPOSITION

| ا بيت الله فنه عبد بيا | | | | | |
|------------------------------|--------------|-------------------------------|------------|---------|------|
| *milli equivalents per Lite | r · | Compound E | Equiv wt X | med/r = | mg/L |
| A====+ | ++ | | | | |
| 17 *Ca < *HCO3 | 41 | · Ca (HCO3) 2 | 81.0 | 4 - 0 | 324 |
| /> | | CaSO4 | 68.1 | 4.2 | 283 |
| 19 *Mg> *504 | 4 | CaC12 | 55,5 | 9.3 | 516 |
| | | Mg (HCO3) 2 | 73.2 | • | |
| 1 *Na> *Cl | 4. 29 | MgSO4 | 60.2 | | |
| f | | MgCl2· | 47.6 | 18.5 | 881 |
| Saturation Values Dist. Wate | er 20 C . | NaHCO3 | 84.0 | | |
| CaCO3 13 m | g/L | Na2S04 | 71.0 | • | |
| CaSO4 * 2H2O 2090 m | g/L | NaCl | 58.4 | 1.4 | 82 |
| BaSO4 2.4 mg | g/L | | | | |

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted, D. SWEATT

| | Greenhill Pe | etroleum Corp | poration , , | Lovingtor | n San Andres | 5 | |
|---|--------------|------------------------|--------------|-----------|--------------|-------|---|
| | OPERATOR | 2130 | 1980 | LEASE | | | • |
| | 8 · | 2 150' F NI | 8 366' EEL | 31 | 168 | 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

2048"

5½° 4610

TD

4918'

Hole size:

Intermediate Casing

Size: Cemented with

TOC: feet determined by

Hole size:

Long String

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

TOC: 1886 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 4978'

Injection Interval

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

Tubing size 23/8 lined with JAc set in a

packer

SX

at 4560 feet. (Or describe any other casing-tubing seal).

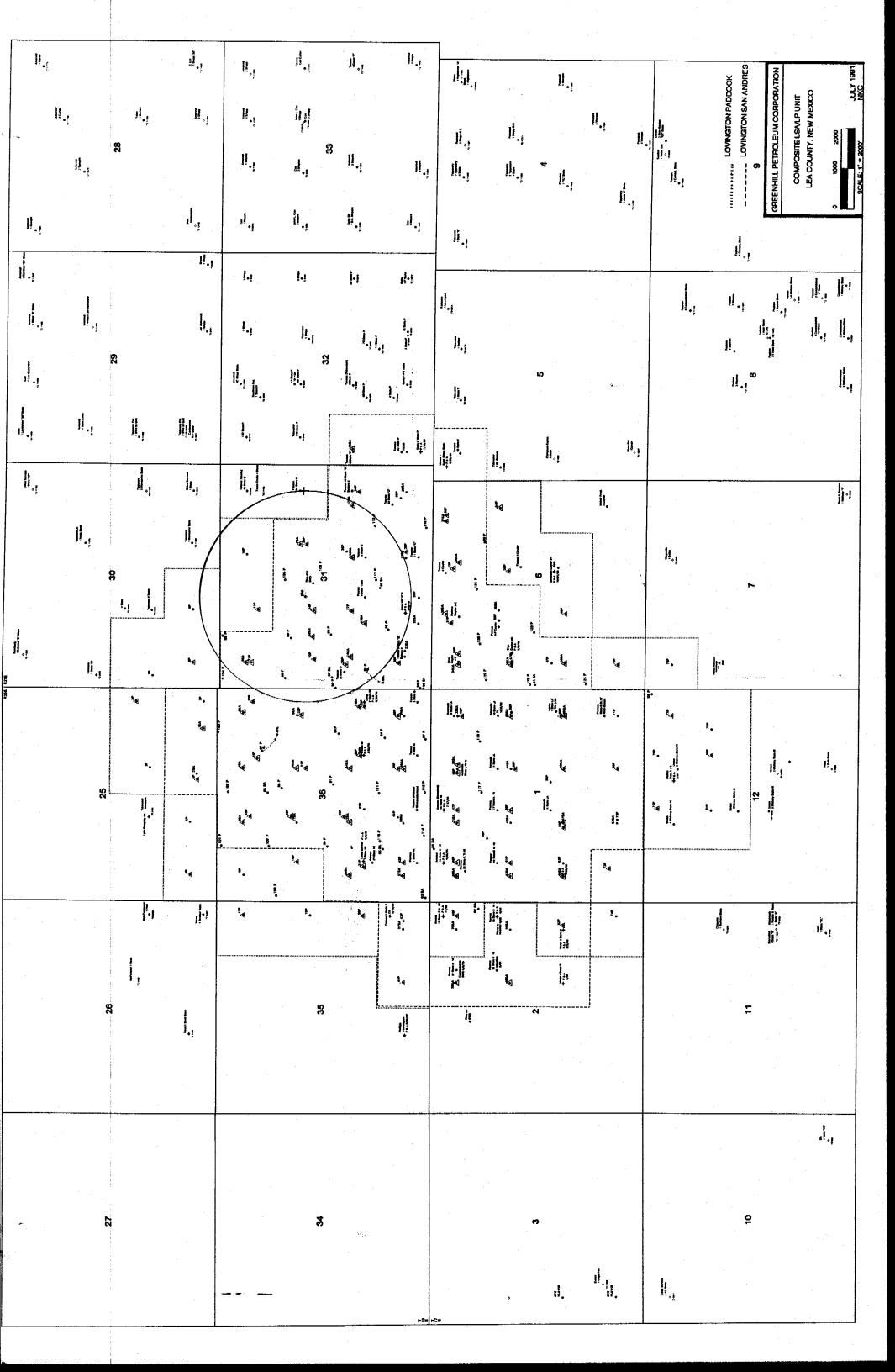
Other Data

1. Name of the injection formation:

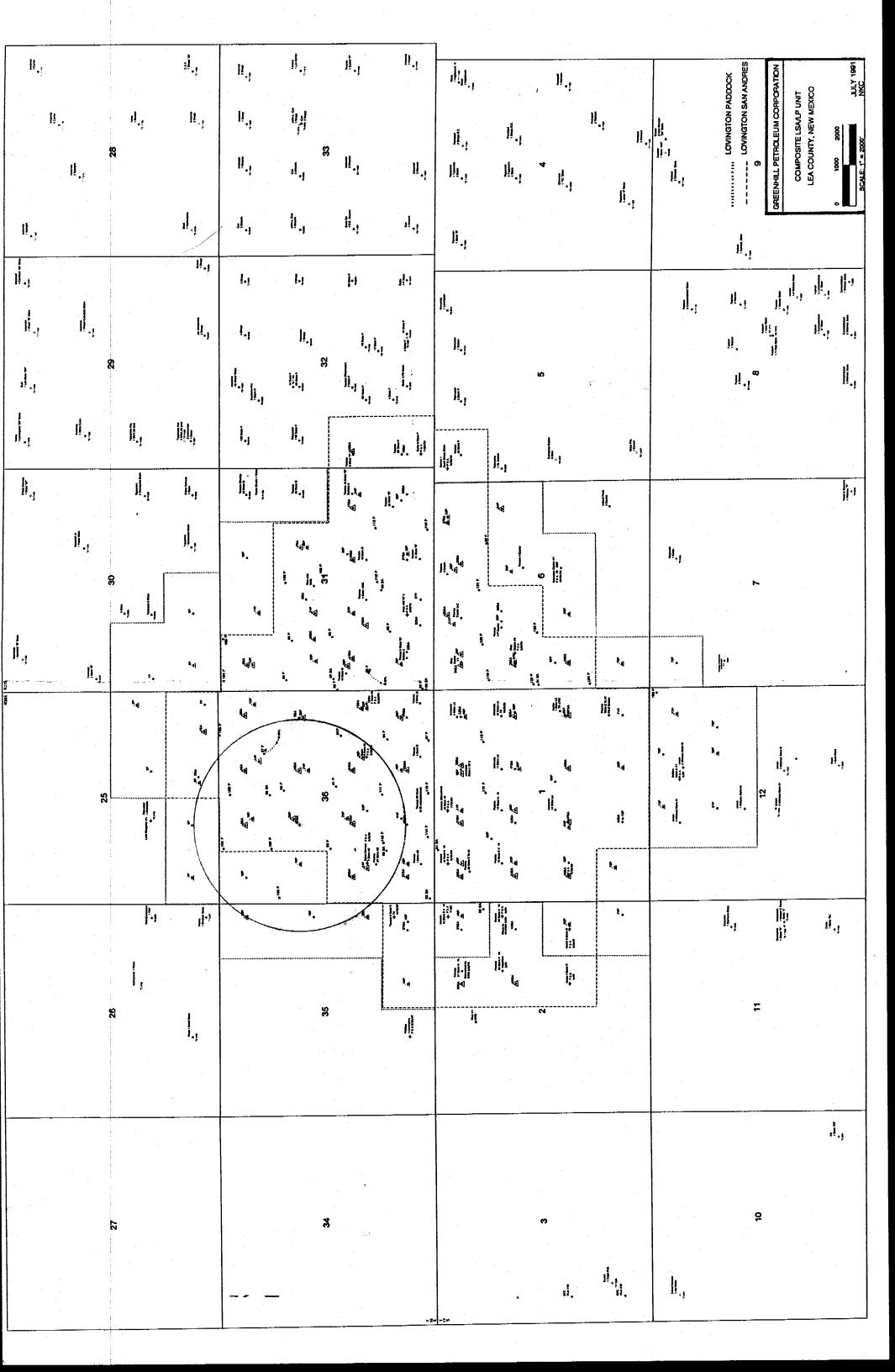
San Andres

- 2. Name of Field or Pool (If applicable) Lovington San Andres
- 3. Is this a new well drilled for Injection? No
 If no, for what purpose was the well originally drilled? Production
- 4. Has the well ever 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.

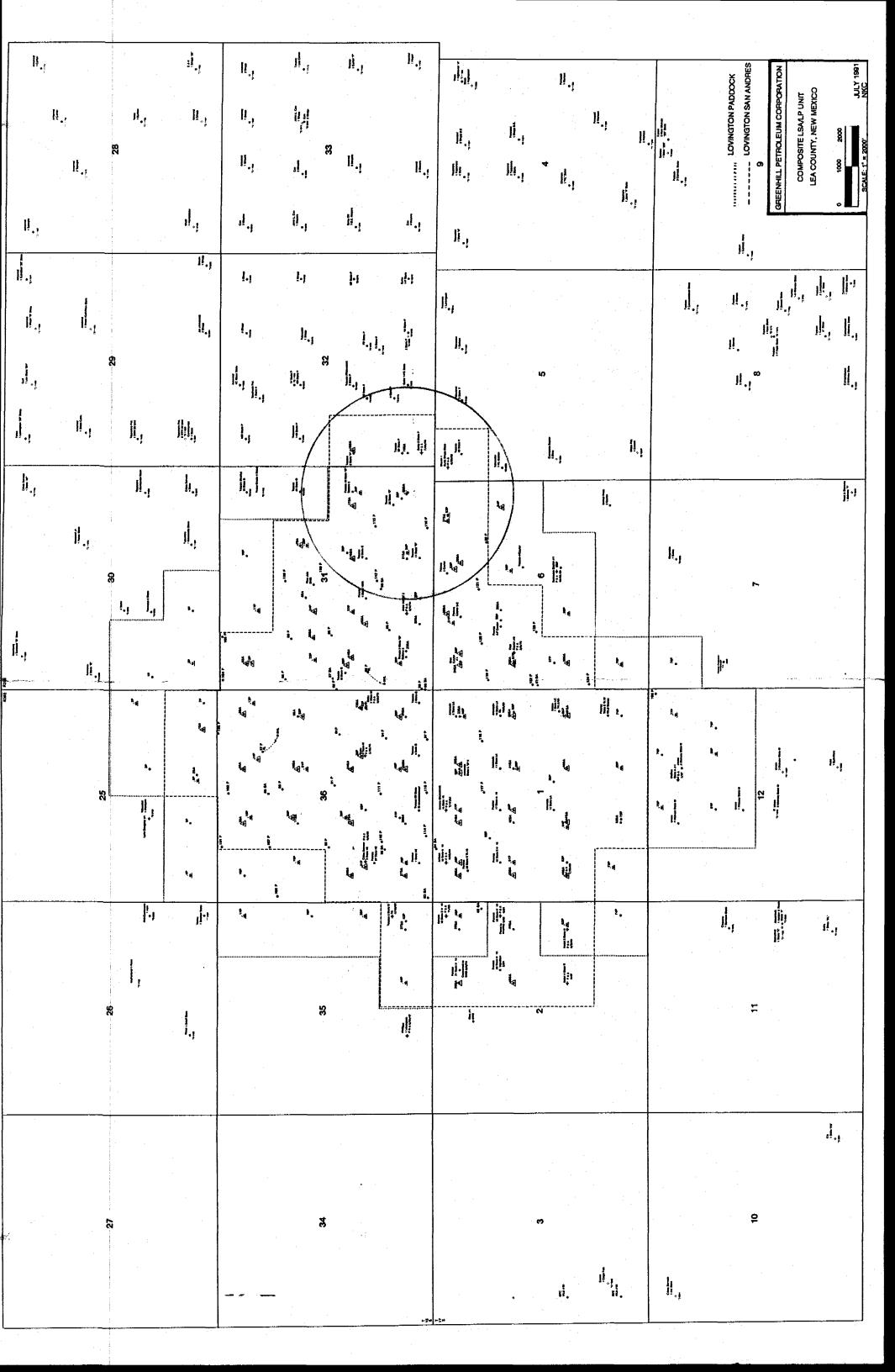
(Above) Grayburg



| | troleum Corporatio | in · | | ton San Andr | es Unit | | |
|--------------------------------------|---|-------------|------------------|------------------|---------------------------------------|---|-------------|
| OPERATOR | | | LEASE | | | | |
| #11 WELL NO. | 1980 FNL & 19 FOOTAGE LOCA | | · 36 | T16S TOWNSHIP | R36E RANGE | *************************************** | |
| | | | | ····· | | | |
| · | | | Tul | bular Data | , | | • |
| | | Surface | Casing ' | | | | |
| | | Sizo: | <u>13 · "</u> ". | Cemented v | · vith | 25 | sx |
| | 25" | TOC: | Surface | feet d | stermined | by <u>c</u> | alc. |
| | | llole si | .ze: | 15 | · . | | |
| | | Interme | dinte Cas | ing | • | | |
| Completed | 95/1" | Size: | 8 5/8 " | Cemented | with | _500 | sx |
| 1/40 | 20,7 | TOC: _ | 555 | feet d | stermined | by <u>50%</u> | calc |
| | 1 | llole Si | ze: | 10 1/4 · | | | |
| | 51/2" | Long St | ring | | | | |
| | { . | Size:_ | 5 1/2 ~ | Cemented | with | 200 | sx |
| | L 4996 TD | TOC: _ | 649 · | feet d | etermined | by <u>80%</u> | calç |
| | • | Hole Si | | 6 1/4" | | • | |
| • | | | Depth: | •. | • | | |
| | | | on Interv | | • | | • |
| | | (perfor | | feet to | | | oet . |
| Tubing size 23/8 | lined with | · | · | IPC | • | sot | in a |
| | - | packer at | • | rial) ' | fee | t. | • |
| (brand & model (or describe any o |) | | | | | • | |
| | choz caszne caszn | 5 doar, | | • | | | |
| Other Data | | | · | | | • | |
| 1. Name of the in | jection formation | | San | Andres | · · · · · · · · · · · · · · · · · · · | | |
| 2. Name of Field | or Pool (If appli | cable) _ | Lovi | ngton San A | ndres | · | |
| | well drilled for : t purpose was the | | | | Produc | tion | |
| | ver be perforated give plugging det | | | | | | ted |
| 5. Give the depth (pools) in thi | to and name of a | ny overly | ying and/o | r underlyin | g oil or | gas zon | les |
| | erlying - Gravburg | a | | • | | | |

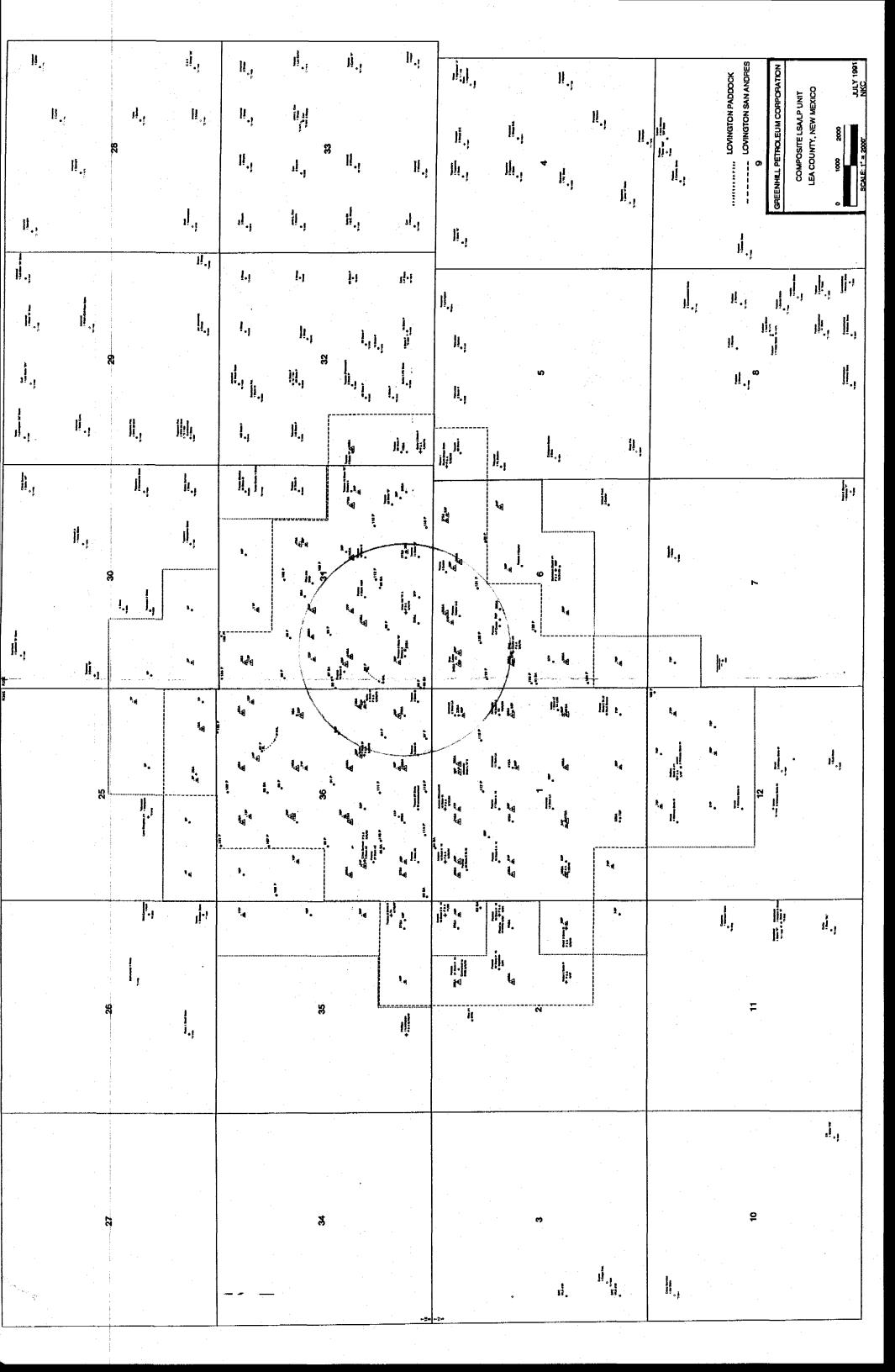


| Greenhill Pet | roleum Corporation | Lovington San Andres Unit |
|--------------------------------------|---------------------------|---|
| | 440 FOL 1 440 FU | |
| #20 WELL NO. | 660 FSL & 660 FI | |
| | | |
| | | Tubular Data |
| | <u>S</u> 1 | urfaco Casing |
| • | si | izo: 13 ". Comontod with 20 sx |
| | To | OG: Surface foot determined by calc |
| | 1 no | ole size: 15 |
| • | . 13* 11 | ntermediate Casing |
| Completed | 20' | ize: 85/8 " Cemented with 475 SX |
| 1/6/45 | TO | OC: 784 feet determined by 50% calc |
| | 2079' | ole Size: 10 ½ |
| • | . 1 | one String |
| | | ize: 5 1/2 " Cemented withSX |
| | | OC: 1340 foot determined by 80% calc |
| • | 1580' | |
| , · | \ -4945 | Iole Size: 7 |
| | 1145 | Total Dopth: 4945' |
| | ı. | injection Interval |
| | | 80 feet to 4945 feet |
| 2/4 | · | (perforated or open-hole, indicate which) |
| Tubing size 23/9 | lined with | TPC sot in a |
| | pac | (material) cker at <u>4530</u> feet, |
| (brand & model) (or describe any of |) ther casing-tubing s | ooal). |
| Other Data | | |
| | laation formation | . , |
| | • | San Andres |
| 2. Name of Field | or Pool (If applicat | Loyington San Andres |
| | | jection? No Production Production |
| intervals and pused. | | n any other zone(s)? List all such perforated 1 (sacks of cement or bridge plug(s) |
| | | |
| 5. Give the depth (pools) in this | s area. | overlying and/or underlying oil or gas zones |
| <u></u> u | nderlying - Grayburg | g |



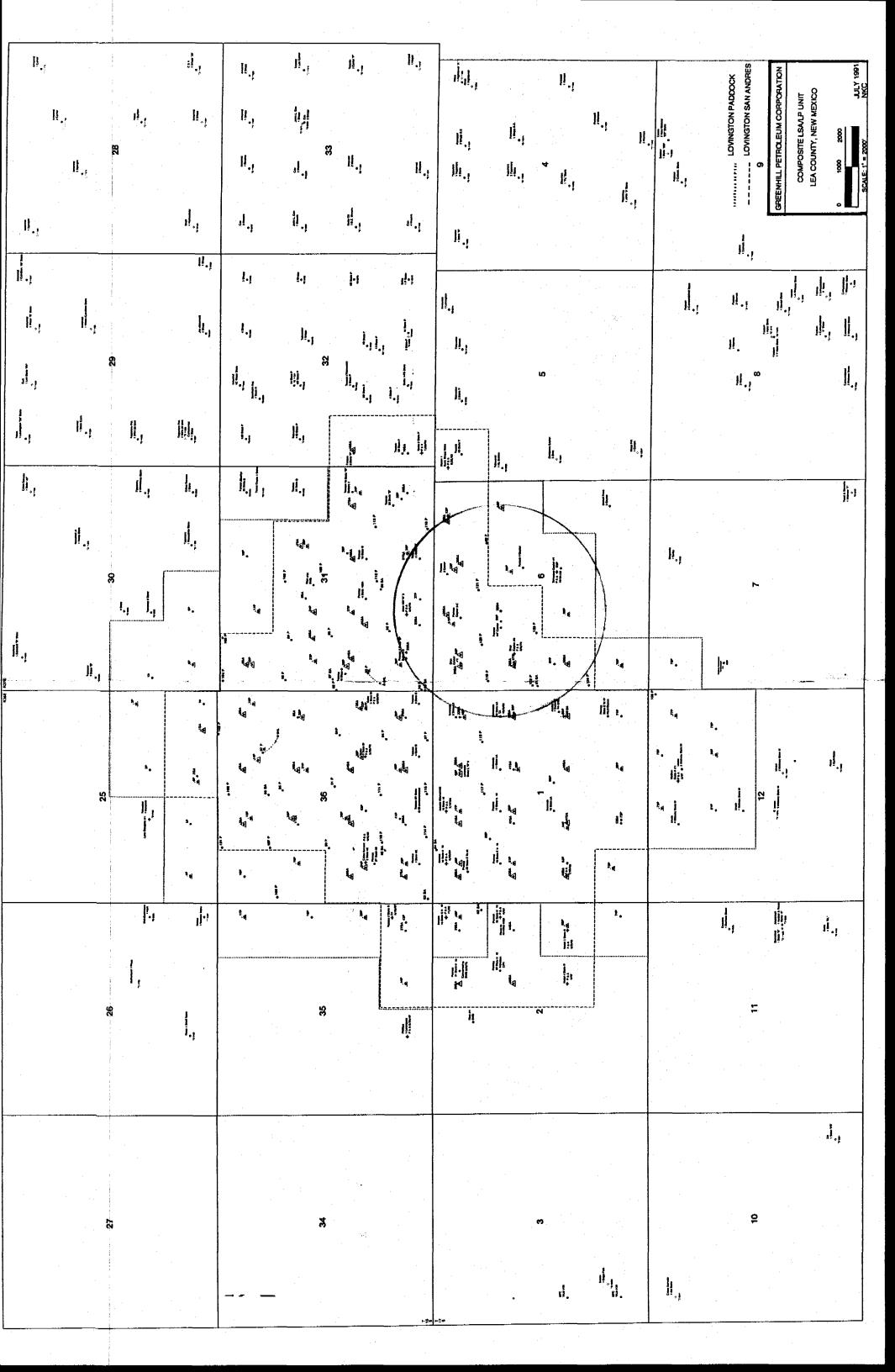
| #23 660 FSL & 900 FWL 31 T16S R37E WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE Tubular Data Surface Casing Size: 13 " Comented with 200 sx Circ. TOC: Surface feet determined by ealt Intermediate Casing 95/8" Size: 95/8" Comented with 500 sx 2013' TOC: 1773 feet determined by 50% call Hole Size: 11 1/4 Long String 4551' Size: 7 " Cemented with 200 SX | Greenhill Petr | roleum Corporation | Lovington San Andres Unit |
|--|----------------------|----------------------|---|
| Tubular Range Tubular Range Tubular Range Surface Casing Size: 13 | | | |
| Tubular Bata Surface Casing | | | |
| Surface Casing Size: 13 " Comented with 200 SN TOG: Surface feet determined by Gair 15" Hole size: 14 Intermediate Casing 9"%" Size: 9 5/8 " Comented with 500 SN 100: 1773 feet determined by 50% cal Hole Size: 11 1/4 Value String Size: 7 " Comented with 200 SN 101: Size: 7 " Comented with 200 SN 102: 2735 feet determined by 80% cal Hole Size: 1 1 1/4 Total Depth: 5081' Injection Interval 4550 feet to 528/ Feet (perforated or open-hole, indicate which) Tubing size 3 lined with 200 set in a (material) packer at 4850 feet. (brand 6 model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation San Andres 3. Is this a new well drilled for injection? No 1f 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. | WELL NO. | FOOTAGE LOCATI | on sec. Township range |
| Completed 6/2/39 TOC: 1773 feet determined by 50% cal | | | Size: 13 " Comented with 200 sx CIC: Surface feet determined by calc |
| Completed 6/2/39 Toc: 1773 feet determined by 50% cal liole Size: 11 1/4 Long String Size: 7 " Cemented with 200 Size: 11 1/4 Long String Size: 7 " Cemented with 200 Size: 10 50% cal liole Size: 8 1/4 Toc: 2735 feet determined by 80% cal liole Size: 8 1/4 Total Depth: 5081' Linjection Interval 4520 feet to 50% feet to (perforated or open-hole, indicate which) Tubing size 3 lined with packer at (material) 4980 feet. (brand & model) (or describe any other casing-tubing seal). Other Data 1. Hame of the injection formation San Andres 2. Name of Field or Fool (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. | | | Intermediate Casing |
| Size: 7 " Cemented with | | 95/8" | Size: 9 5/8 " Comented with 500 SX IOC: 1773 feet determined by 50% calc |
| Size: 7 | | 1 | Hole Size: 11 1/4 |
| Size: 7 " Cemented with 200 Size: 7 TOG: 2735 feet determined by 80% cal library 100 Size: 8 1/4 Total Depth: 5081' Injection Interval 4550 feet to 508/ feet (perforated or open-hole, indicate which) Tubing size 3 lined with (material) packer at 4480 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 Fool (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 | | | Long String |
| Itole Size: 8 1/4 Total Depth: 5081' Injection Interval 4530 feet to 5081 feet (perforated or open-hole, indicate which) Tubing size 1 lined with (material) packer at 4480 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 Fool (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. Ilas the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. No | | | Size: 7 " Cemented with 200 SX |
| Injection Interval 10 | | TD 508/ | roc: 2735 feet determined by 80% calc |
| Injection Interval 4530 feet to 5081 feet | • | 1 | Nole Size: 8 1/4 |
| Tubing size | | | Total Depth: 5081' |
| (perforated or open-hole, indicate which) Tubing size | • • | | Injection Interval |
| (brand & model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation San Andres 2. Name of Field or Fool (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. Ilas the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used No | | | (perforated or open-hole, indicate which) |
| (brand & model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation San Andres 2. Name of Field or Fool (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. Ilas the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used No | Tubing size | lined with | 7PC set in a |
| (brand & model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation | | | (material) |
| Other Data 1. Name of the injection formation San Andres 2. Name of Field or Fool (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 | (brand & model) | pa | cker at 4486 feet, |
| 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 | (or describe any otl | nor casing-tubing | soal). |
| 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 | Other Data | | · |
| 3. Is 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 | 1. Name of the inje | ection formation _ | San Andres |
| 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 | 2. Name of Field or | Pool (If application | ble) Lovington San Andres |
| 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 was zeros | intervals and gi | ive plugging detai | l (sacks of cement or bridge plug(s) |
| DE DESCRIPTION OF THE OF THE MARKET WE SHARE STREET STREET STREET, STR | 5. Give the doubt t | to and name of any | overlying and/or underlying oil or see sour- |

·Underlying - Grayburg



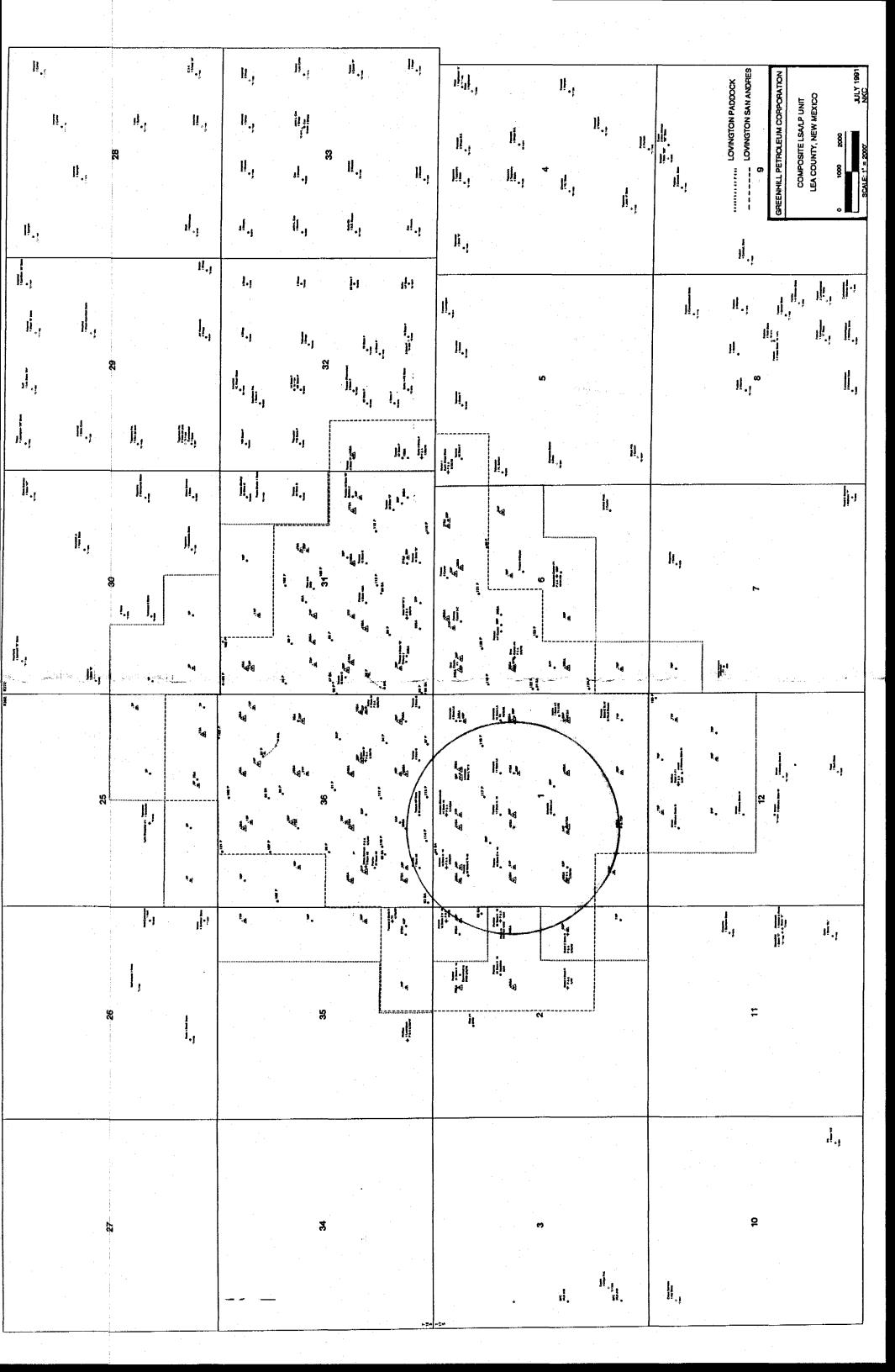
| 38 WELL NO. | 1650' FNL & 1980 FOOTAGE LOCAT | |
|----------------------------------|---|---|
| | | |
| , | | TION SEC. TOWNSHIP RANGE |
| | | <u>Tubular Data</u> |
| pleted | | Surface Casing |
| 16-39 | 111 | Size: 13 " Comented with 250 s |
| | | TOC: Surface feet determined by circ |
| | | Hole size: 17-1/4" 15 |
| | | Intermediate Casing |
| | -310' | Size: 9-5/8 " Cemented with 350 |
| | 13" : | TOC: 1804 feet determined by calc |
| | | Hole Size: 12" 10 3/4 |
| | | Long String |
| | 2950' | Size: 7 |
| | 12" | TOG: 2707 feet determined by calc |
| | | Hole Size: 8:3/4" 874 |
| | i dean' | Total Depth: 4945' |
| | 4590' | Injection Interval |
| | 1945' | |
| | TD | (perforated or open-hole, indicate which) |
| Tubing size | 2% lined with | TPC set in (material) |
| | | (material) packer at |
| (brand & mode or describe any | el) other casing-tubing | g seal). |
| Other Data | · | • |
| | niaction formation | San Andres |
| • | | cable) Lovington San Andres |
| | • | |
| | v well drilled for nat purpose was the | well originally drilled? Production |
| | | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |

Underlying-Grayburg



| Greenhill Petr OPERATOR | roleum Corporation · | lovington San Andres LEASE |
|----------------------------|--------------------------------------|--|
| #42 | 1980' FNL & 1980 | O' FWL 1 17S 36E |
| WELL NO. | FOOTAGE LOCA | ATION SEC. TOWNSHIP RANGE |
| • | | Tubular Data |
| | | Surface Casing |
| mpleted -1-39 | 111 | Size: 13 " Comented with 200 SX |
| | | TOC: Surface feet determined by calc |
| | | Nole size: |
| | 1 2991 | Intermediate Casing |
| | 13" | Size: 9-5/8 " Comented with 535 S |
| | | TOC: 1517 feet determined by calc |
| | | Nole Size: 12" |
| | 30951 | Long String |
| | 1978 | Size: 7 " Cemented with 300 S. |
| | | TOC: 2887 feet determined by calc |
| • | | Nole Size: 8-3/4" |
| | . 'L4536' 7". | Total Depth: 4938' |
| | } | Injection Interval |
| | 14938' TD | 4536 feet to 4438 feet |
| | • | (perforated or open-hole, indicate which) |
| Tubing size | 23/2 lined with | (material) set in a |
| (brand & model | | packer at 4480 feet. |
| (or describe any o | | g seal). |
| Other Data | | |
| 1. Name of the in | jection formation | San Andres |
| 2. Name of Field | or Pool (If appli | cable) <u>Lovington San Andres</u> |
| | well drilled for the purpose was the | injection? No well originally drilled? Production |
| | | in any other zone(s)? List all such perforated tail (sacks of cement or bridge plug(s) |

Underlying-Grayburg



| TOC: Surface feet determined by calc Hole size: 17-1/4" Intermediate Casing Size: 9-5/8 " Comented with 535 TOC: 1517 feet determined by calc Hole Size: 12" JOGS' Long String | Greenhill Pet OPERATOR | roleum Corporation | | Lovingt LEASE | on San Andre | S | |
|--|-------------------------------------|---------------------|---|------------------|------------------------------|-----------------|----------|
| Surface Casing Size: 13 | | | | | | | |
| Surface Casing Size: 13 | | | , | | | | |
| Size: 13 " Comented with 200 TOC: Surface | • | | | Tu | <u>ıbular Data</u> | | |
| Size: 13 "Cemented with 200 TOC: Surface | mnleted | | Surface (| Casing | ٠. | | |
| Note size: 17-1/4" Intermediate Casing Size: 9-5/8 " Comented with 535 TOC: 1517 feet determined by calc Note Size: 12" Stys" Long String Size: 7 " Cemented with 300 TOC: 2887 feet determined by calc Note Size: 8-3/4" Total Depth: 4938' Injection Interval To | | | Size: 1 | 3 " | Cemented w | 1th 200 | sx |
| Intermediate Casing Size: 9-5/8 " Gemented with 535 TOC: 1517 | | | TOC:S | urface | feet de | termined by | calc |
| Size: 9-5/8 " Comented with 535 TOC: 1517 | | | Hole siz | e: <u>1</u> | 7-1/4" | | |
| Size: 9-5/8 " Comented with 535 TOC: 1517 feet determined by calc | · | | Intermed | late Cas | sing | | |
| Hole Size: 12" Long String Size: 7 | | 13" | Size:9 | 1-5/8 ' | " Comented y | with <u>535</u> | S) |
| Sign Long String Size: 7 | | | тос:1 | 517 | feet de | etermined by | calc |
| Size: 7 | | | Hole Siz | e: <u>1</u> | 2" | | |
| Size: 7 " Cemented with 300 TOC: 2887 | | | Long Str | ing | | | |
| Ilole Size: 8-3/4" | | | Size:7 | 7 | " Cemented | with <u>300</u> | s: |
| Total Depth: 4938' 1938' | • • | | TOC: _ 2 | 2887 | feet d | etermined by | calc |
| Total Depth: 4938' Injection Interval 1938 feet to 4938 fee (perforated or open-hole, indicate which) Tubing size 2% lined with 1pc (material) packer at 4938 feet to 4938 feet to 4938 feet to 6928 | • | | Hole Siz | :e: <u>8</u> | 3-3/4" | | • |
| Tubing size 2 1 lined with | | . (- ' | Total De | epth: _ | 4938' | | |
| Tubing size 2 % lined with | | } | Injection | n Inter | val. | | |
| (brand & model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation | | | | 4536 | feet to | | |
| packer at | Tubing size | 23/2 lined with | | | I/ |) <u>C</u> | set in a |
| (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 perforate | | | | | | Ofeet. | , · |
| Name of the injection formation | • | , | g seal). | | | • | |
| Name of Field or Pool (If applicable) <u>Lovington San Andres</u> Is this a new well drilled for injection? <u>No</u> If no, for what purpose was the well originally drilled? <u>Production</u> Has the well ever be perforated in any other zone(s)? List all such perforate | Other Data | • | | | | | |
| Name of Field or Pool (If applicable) <u>Lovington San Andres</u> Is this a new well drilled for injection? <u>No</u> If no, for what purpose was the well originally drilled? <u>Production</u> Has the well ever be perforated in any other zone(s)? List all such perforate | • | injection formation | · <u>· · · · · · · · · · · · · · · · · · </u> | 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 perforate | | | | | | | |
| 4. Has the well ever be perforated in any other zone(s)? List all such perforate | . 3. Is this a new | well drilled for | injection | 7 <u>No</u> | | | |
| used. NO | 4. Has the well intervals and used. | ever be perforated | in any o | ther zon | ne(s)? List ment or bridg | all such per | Eorated |

Underlying-Grayburg

| GREENHILL PETROLEUM CORPORATION OPERATOR | Lovington Paddock Unit LEASE | |
|---|--|--------------|
| 69 2173 FSL & 2173 FEL WELL NO. FOOTAGE LOC | | |
| | Tubular Data | |
| | Surface Casing | |
| | Size: 13 3/8" Cemented with 350 | sx |
| 1 | TOC: surface feet determined by ci | .rc. |
| 292' | Nole size: 17 1/2" | |
| 133/8" | Intermediate Casing | |
| | Size: 8 5/8" Cemented with 1150 | sx |
| | TOC: 820 feet determined by T | 'S |
| | Hole Size: 11 | |
| | Long String | |
| 3386' | Size: 5 1/2" " Cemented with 600 | sx |
| | TOC: 1500 feet determined by T | 'S |
| | Hole Size: 7 7/8" | |
| 6269' | Total Depth: 6270 | |
| 5%" | Injection Interval | |
| | 6104 | eet |
| | (perforated or open-hole, indicate which) | |
| Tubing size 2 3/8" lined with | IPC set (material) | in a |
| | packer at 6050 feet. | |
| (or describe any other casing-tubin | ng seal). | |
| Other Data | | |
| 1. Name of the injection formation | n Paddock | |
| 2. Name of Field or Pool (If appli | icable) Lovington Paddock | |
| 3. Is this a new well drilled for If no, for what purpose was the | injection? NO production production | |
| intervals and give plugging detused. | d in any other zone(s)? List all such perfora tail (sacks of cement or bridge plug(s) | ted |
| 5. Give the depth to and name of a (pools) in this area. | any overlying and/or underlying oil or gas zon | les |

Above Glorietta

| | | ud. | · wid - | | | | | | |
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| [†] [| . i. i. i. | • | | | | | | | |
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| i· fl | | 11. | r. r. ft | ı. İİ | 1- jr | 1.71 | | | i. il |
| LOVINGTON PADDOCK LOVINGTON SAN ANDRES GREENHILL PETROLEUM CORPORATION COMPOSITE LSA/LP UNIT | | 1-1J1 1-1J1 | ¹⁻ п 1-п | ا. ا | i- _{il} | | | · [] | |
| LOVINGTON PADDOCK LOVINGTON SAN ANDRES HILL PETROLEUM CORPORATION COMPOSITE LSAALP UNIT | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | i. ^{ll} i.ll | | اراً ا اراراً | i• [[| i*11 |)- _{[1} | | ĭĮ |
| ADDOCK AN ANDRES | ¹ ·11 | r-frije | ₁ .11 ₁ .11 | ines Interes | i° į | i-j: | | | · il |

| TEXACO | | | State P | Linit |
|-----------------------------------|--|-----------|-------------------|--|
| OPERATOR | | | LEASE | |
| 6-D | 1650 FWL & 1 | | 32 | T16S=R37E |
| WELL NO. | FOOTAGE LOCA | TION | SEC. | TOWNSHIP RANGE |
| | | | Tub | oular Data |
| | | Surface | Casing | |
| | | Size: | 13 3/8" ~ | Cemented with 350 SX |
| | | | • | feet determined bycirc |
| | 133/8" | | | 17 3/4" |
| | <u> 2</u> 97 ' | Intermed | <u>iiate Casi</u> | ing |
| | | Size: | 8 5/8" " | Cemented with 1200 SX |
| | | TOC: | 1120 | feet determined byC-104 |
| | 85/8" | Hole Si: | ze: <u>1</u> | 1 |
| | 3499' | Long Sti | ring | |
| | | Size: | 5 1/2" ~ | Cemented withSX |
| 一 二 (1) | 6400' | тос: | 4080 | feet determined by C-104 |
| | PBTD 6392' | Hole Si: | ze: | 7 7/8" |
| L | 1010 6342 | Total Do | epth: | 8420' |
| · | 51/2" | Injection | on Interva | <u>ıl</u> |
| | 8420' | (perfora | ated or op | feet to feet pen-hole, indicate which) |
| Tubing size | lined with _ | | · | set in a |
| | | | (mater | rial) feet. |
| (brand & model) | • | | | |
| • | nor casting capting | , scar,. | | |
| Other Data | | | | |
| 1. Name of the inj | | | | |
| 2. Name of Field o | r Pool (If applic | able) _ | Paddock | |
| | ell drilled for i purpose was the | | | rilled? production |
| | | | | (s)? List all such perforated at or bridge plug(s) |
| 5. Give the depth (pools) in this | The state of the s | y overly | ing and/or | underlying oil or gas zones |

| TEXACO | | State "P" Unit |
|-----------------------------|----------------------------------|--|
| OPERATOR | | LEASE |
| WELL NO. | FOOTAGE LOCATI | |
| | | Tubular Data |
| | <u> </u> | Surface Casing |
| 11 | 2 | Size: 13 3/8" Cemented with 350 S |
| \$ | | COC: surface feet determined by circ. |
| | ŀ | iole size: 17 3/4" |
| 3 | 333′ | Intermediate Casing |
| } | | Size: 8 5/8" Cemented with 1250 S |
| } | 2 | roc: surface feet determined by 60% car |
| $\{ \}$ | I | Hole Size: 11 |
| \$ | <u> 1</u> | Long String |
| 2. | \$ | Size: 5 1/2" Cemented with 532 S |
| iner 3495' | | roc: 6090 feet determined by 60% ca |
| | | dole Size: 7 5/8" |
| | 7 | Total Depth: 8414 |
| |] | Injection Interval |
| | 8414' | feet to feet to feet (perforated or open-hole, indicate which) |
| Subing size | lined with | set in a |
| | pac | (material) cker atfeet. |
| (brand & modor describe any | el) other casing-tubing s | seal). |
| her Data | | |
| | injection formation | |
| | d or Pool (If applicat | |
| | | |
| | w well drilled for injust the we | ell originally drilled? |
| | | n any other zone(s)? List all such perforated l (sacks of cement or bridge plug(s) |
| . Give the dep (pools) in t | | overlying and/or underlying oil or gas zones |

| TOC 679' 3752' 85/8" TOC 2264' | |
|---|---|
| WELL NO. FOOTAGE LOCAT 33/8" TOC 679' | Tubular Data Surface Casing Size: 13 7/8 Cemented with 300 SX |
| 3752' 85/8" TOC 2864' | Tubular Data Surface Casing Size: 13 7/8 ~ Cemented with 300 sx |
| TOC 679' 3752' 85/8" TOC 2264' | Surface Casing Size: 13 7/8 Cemented with 300 SX |
| TOC 679' 3752' 85/8" TOC 2864' | Size: 13 7/8" Cemented with 300 sx |
| TOC 679' 3752' 85/8" TOC 2864' | Size: 13 7/8" Cemented with 300 SX |
| TOC 679' 3752' 85/8" TOC 2264' | TOC: surface feet determined by circ. |
| 3752' 85/8" TOC 2864' | |
| 3752' 85/8" TOC 2864' | Nole size: 17 1/2 |
| 3752' 85/8" \{\bar{2}\\2\\4\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Intermediate Casing |
| 3752' 85/8" \{\bar{2}264'} | Size: 8 5/8 " Cemented with 1500 SX |
| 3752' 85/8" \{\bar{2}264'} | TOC: 679 feet determined by temp. surv |
| 85/8" TOC 2864' | Hole Size: 11" |
| 171 3864' | Long String |
| 1 2864 | Size: 5 1/2 " Cemented with 500 SX |
| [] | TOC: 3864 feet determined by temp. sur |
| | Hole Size: 7 7/8 |
| | Total Depth: 6242' |
| 5'h" | Injection Interval |
| TD 6242' | feet to feet |
| | (perforated or open-hole, indicate which) |
| ubing sizelined with | (material) set in a |
| pa | acker atfeet. |
| (brand & model) r describe any other casing-tubing | seal). |
| | , |
| ther Data | |
| Name of the injection formation _ | |
| Name of Field or Pool (If applica | able) Lovington Paddock |
| Is this a new well drilled for in If no, for what purpose was the w | njection? No vell originally drilled? production |
| | n any other zone(s)? List all such perforated l (sacks of cement or bridge plug(s) |
| Give the depth to and name of any (pools) in this area. | |

| Greenhill Petro OPERATOR | leum Corporatio | n | Loving LEASE | ton San Andr | res Unit | ·************************************* |
|---|-----------------|------------|-----------------|------------------|-----------------------------|--|
| | | | | T1.00 | Dace | |
| #3 WELL NO. | FOOTAGE LOCA | | SEC. | T16S TOWNSHIP | R36E RANGE | |
| | | | Tu | bular Data | | |
| , | | Surface | Casing | | y | , |
| | 11 | Size: | 8 5/8 " | Cemented w | rith 450 | sx |
| | | TOC: | Surface | feet do | stermined by | <u>calc.</u> |
| · | | Hole si | .ze: | 11 | • | |
| | | Interme | diate Cas | ing | | |
| Completed | 2082 | Size: | | Cemented v | with | sx |
| 11/19/45 | 7.0 | TOC: | | feet de | stermined by | |
| eepen to 5090 | | · llole Si | .ze: | | | |
| | , | Long St | ring | | | |
| | -4618 | Size: | 5 1/2 | Cemented | with 375 | SX |
| | 1625 TD | TOC: | 2575 | feet d | etermined by | 80% cal |
| • | 7625 (1) | llole Si | ze: | 7 7/8 | | • |
| • | | | | 4625' | | · |
| | • | | on Inter | | | |
| | | | | | <u>5090</u> ndicate whic | |
| Tubing size 23/8" | lined with | IF | <u>'C</u> | | | set in a |
| waterflood tension page | ker | packer at | | erial) 4598 | feet. | • |
| (brand & model) or describe any othe | • | | | | | ٠ |
| ther Data | | - | | • | • | |
| Name of the injec | tion formation | - | San An | dres | | |
| . Name of Field or | Pool (If appli | cable) | Loving | ton San Andr | es | |
| . Is this a new wel If no, for what p | | | | drilled? | Production | |
| . Ilas the well ever intervals and giv used. No | | | | | | forated |
| Give the depth to (pools) in this a | | ny overly | ing and/o | or underlyin | g oil or gas | zones |
| المنافعة المراجعة ا | a Cunuhina | | | • | ~ | |

| | roleum Corporatio | n | | ton San And | res Unit | : |
|-----------------------------------|---------------------------------------|-------------|--------------|---------------------------------------|-------------|---------------------|
| OPERATOR | | | LEASE | | | • |
| #7 | 1980 FNL & 198 | 30 FEL | · 31 | T16S | R37E | |
| WELL NO. | FOOTAGE LOCA | | SEC. | TOWNSHIP | RANGE | |
| | | | | | | |
| | • | | | | | |
| | • | | Tu | bular Data | | |
| , | 11 | Surface | Casing | • | | |
| | | Size: | 8 5/8 " | . Cemented's | vith | 485 sx |
| • | | TOC: _ | Surface | feet de | etermined | by <u>calc.</u> |
| | | liole si | .zo: | 10 1/4 | • | |
| | 2043' | Interme | diate Cas | ing | | |
| Completed | 2045 | Size: | | Cemented | vith | SX |
| 1/5/49 | | | | feet d | | |
| deepen to gosse | • | | lze: | | | , |
| | 5½' | Long St | | | | |
| | 4620' | | | Cemented 1 | 11th | 375 SX |
| | L TD 4955' | | / | | | by <u>80% calc.</u> |
| • | • | | | 711/4 | | , |
| | | | • | • | | , |
| | | | opth: | | | , |
| | | Inject | lon Interv | al | • | |
| | . • | | 120 | | 7.15 | |
| • | | (perfor | cated or o | pen-hole, i | ndicate wh | ich) |
| Tubing size2* | 1 lined with | | IPC | · · · · · · · · · · · · · · · · · · · | | _ set in a |
| | | acker at | | rial) ' | feet | • |
| (brand & model) | <u> </u> | ACKEL A | 4000 | , | reac | • |
| (or describe any other | her casing-tubing | g seal). | • | | | |
| 0.1 D | . • | | | • | • | |
| Other Data | | | | | | |
| 1. Name of the inje | ection formation | | San Andı | res | | · |
| 2. Name of Field or | c Pool (If applic | cable) | Lovingto | on San Andre | s | |
| | ell drilled for i purpose was the | | | rilled? P | roduction | |
| | er be perforated ive plugging deta | | | | | erforated |
| E Olive Also desett of | to and same of | | ·4mm ====1/= | | | • |
| 5. Give the depth (pools) in this | to and name of an area. | y overly | ring and/o | r underlyin | g oll or g | as zones |

<u> Underlying - Grayburg</u>

| | on Lovington San Andres Unit |
|---|--|
| OPERATOR | LEASE |
| #10 1980' FNL & 1980' F WELL NO. FOOTAGE LO | |
| WELL NO. FOOTAGE LA | JUNION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| | Surface Casing |
| Completed | Size: 13 " Cemented with 250 SX |
| 4-4-39 | TOC: Surface feet determined by Circulation |
| | Hole size: 17-1/4" |
| | Intermediate Casing |
| Lass | Size: 9-5/8 Cemented with 250 SX |
| | TOC: 2246 feet determined by Calc |
| | Hole Size: 12" |
| | Long String |
| L306 95/9 | Size: 7 Cemented with 225 SX |
| | TOC: 3189 feet determined by Calc |
| | Hole Size: 8-3/4" |
| 4600 | Total Depth: 5110' |
| 7" | Injection Interval |
| 1 5110 TP | / 4600 feet to 5/10 feet (perforated or open-hole, indicate which) |
| Tubing size 2-3/8" lined with | h IPC set in a (material) |
| waterflood-tension packer | |
| (brand & model) (or describe any other casing-tub. | ing seal). |
| Other Data | |
| 1. Name of the injection formation | onSan Andres |
| 2. Name of Field or Pool (If app | licable) Lovington San Andres |
| 3. Is this a new well drilled for If no, for what purpose was the | r injection? No he well originally drilled? Production |
| | ed in any other zone(s)? List all such perforated etail (sacks of cement or bridge plug(s) |
| 5. Give the depth to and name of (pools) in this area. | any overlying and/or underlying oil or gas zones |
| Underlying-Grayburg | |

| OPERATOR | etroleum Corporation | LEASE Lovington San Andres Unit |
|-------------------------------|---|--|
| #12 WELL NO. | 1980' FSL & 1980' FOOTAGE LOCA | |
| | | Tubular Data |
| pleted | 1.1 | Surface Casing |
| -5-45 | | Size: Cemented withSX |
| pened /87 | | TOC: feet determined by |
| 707 | | Hole size: |
| | | Intermediate Casing |
| | | Size: 8-5/8 " Cemented with 500 SX |
| | | TOC: Surface feet determined by calc = |
| | 2080' | Hole Size: 11" |
| | · | Long String |
| | | Size: 5-1/2 " Cemented with 450 Si |
| | 1500 | TOC: 2435 feet determined by calc 80 |
| | 51/2" | Hole Size: 7-7/8" |
| | 1490' | Total Depth: 5055' |
| | \ TD | Injection Interval |
| | 上5055' TD | 4580 feet to 5055 feet |
| _ | | (perforated or open-hole, indicate which) |
| Tubing size $\frac{2^{3}}{}$ | lined with _ | TPC set in a (material) |
| waterflood-to | insion packer P | acker at 4560 feet. |
| (brand & mode or describe any | other casing-tubing | seal). |
| ther Data | | |
| . Name of the 1 | njection formation | San Andres |
| | | able) Lovington San Andres |
| . Is this a new | well drilled for i | |
| | | in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s) |

Underlying-Grayburg

| Greenhi | 11 Petroleu | m Corporatio | n | Lovingto | on San Andre | es . | |
|----------------------|--|------------------------------|-------------------|-----------------------|---------------|---------------------------------------|----------|
| OPERAT | OR | | | LEASE | | | |
| #13 | 1760 | FSL & 440' | FEL | 36 | 168 | 36E | |
| WELL NO | 0. | FOOTAGE LOC | ATION | SEC. | TOWNSHIP | RANGE | |
| | | | · | Tul | oular Data | | |
| | | | Surfac | ce Casing | | | |
| ompleted 12-16-39 | | | | _ | Cemented w | 1th 225 | SX |
| | | | • | | | termined by | |
| • | | | • | size: ? | | , | |
| | | -299' | | mediate Cas | | | |
| | | 13" | | | - | .1.1. 250 | av |
| | | | | • | | ith 250 | |
| | | | - | | | termined by | calc |
| | | 7-031 | Hole : | Size: 11" | | | |
| | | L3003' | Long | String | | | |
| | | | Size: | 5-1/2 | Cemented w | ith 150 | sx |
| | | | TOC: | 2818 | feet de | termined by | calc |
| | | _4518' { 51/2" | Hole : | Size: <u>6-</u> | 3/4" | | • |
| | | { | Total | Depth: 50 | 68 | | |
| | • | 1 5068' TO | Iniec | tion Interv | al | | |
| | • | · | | 18 | feet to | 5068 | feet |
| | • | | | | - | dicate which | |
| Tubing size | 2-3/8" | lined with | <u> </u> | ··· | IPC | | set in a |
| • | waterf | lood tension | packer | (mate at | rial) 4445 | feet. | |
| (brand & | model) | | | | | | |
| • | any other | casing-cubin | ig sear) | • | | | |
| Other Data | | | | San Ar | dae | | |
| 1. Name of | the injecti | on formation | · | | | · · · · · · · · · · · · · · · · · · · | ···· |
| 2. Name of | Field or Po | ol (If appli | cable) | | San Andres | ····· | · |
| 3. Is this If no, f | a new well or what pur | drilled for pose was the | injecti well o | on? No riginally d | rilled? Pr | oduction | |
| | | e perforated plugging det | | | | | forated |
| | | | | | | | •••• |
| (pools) | depth to a in this are Underlying- | | iny over | lying and/o | r underlying | g oil or gas | zones |

| OPERATO | R | or por a c ron | LEASE LEASE |
|---------------------------------------|--------------------------------|--------------------------|--|
| 15 WELL NO | | ' FSL & 16 OTAGE LOCA | |
| | | | Tubular Data |
| | 1 | | Surface Casing |
| ompleted 5-1-39 | | | Size: 13 |
| eepened | | | TOC: Surface feet determined by calc |
| 7-23-86 | | | Nole size: 17-1/4" |
| · | | | Intermediate Casing |
| | | | Size: 9-5/8 " Cemented with 400 SX |
| | | L2951 | TOC: 1818 feet determined by calc |
| | | | Hole Size: 12" |
| | | | |
| | | | Long String |
| | | | Size: 7 |
| | | 2998 | TOC: 3840 feet determined by calc |
| | ٠. | 95/8" | Hole Size: 8-3/4" |
| | | | Total Depth: 5110' |
| | | 4531' 7" | Injection Interval |
| | _ | 1972' | 4531 feet to 5110 feet (perforated or open-hole, indicate which) |
| Tubing size | 2-3/8" 13 | ed with | IPC set in a |
| inding Size | | | (material) |
| (brand & | model) | | |
| • | any other cas | ing-tubing | ; seal). |
| Other Data | ** | | |
| 1. Name of t | he injection | formation | San Andres |
| 2. Name of F | ield or Pool | (If applic | able) Lovington San Andres |
| | new well dri or what purpos | | njection? No well originally drilled? Production |
| | and give plu | | in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s) |
| | depth to and n this area, | name of an | y overlying and/or underlying oil or gas zones |
| · · · · · · · · · · · · · · · · · · · | nderlying-Gra | vbura - | |

| OPERATOR | oreum corporatio | LE/ | ASE | es unit | |
|---|-------------------------------|---------------------------|--|--------------|---------|
| #17 WELL NO. | 660 FNL & 330 FOOTAGE LOCA | | T-165 TOWNSHIP | | |
| | | | Tubular Data | | |
| | | , | Comented in the contract of th | | |
| | 85%" 2050' | Hole size: | Casing | | |
| Completed 9/17/46 | | | Cemented | | |
| deepen to 5090 | | Hole Size: Long String | Cemented | 400 | SX |
| | 4623' 51/2" | | 2 feet de | | |
| • • • • • • • • • • • • • • • • • • • | TO 4935 | Total Depth: Injection In | terval feet to | | _ feet |
| Tubing size | lined with | ". | or open-hole, in I <i>P</i> C | • | et in a |
| (brand & model) (or describe any other | packer 1 | oacker at | naterial) | feet. | ٠ |
| Other Data | . · . | | • | • | |
| 1. Name of the inje | ction formation | | San Andres | | |
| 2. Name of Field or | Pool (If applie | cable) | Lovington Sa | ın Andres | · |
| 3. Is this a new we If no, for what | | | | Produc | tion |
| 4. Has the well eve intervals and giused. | ve plugging deta | | | | orated |
| 5. Give the depth t (pools) in this | o and name of ar | ny overlying a | nd/or underlyin | g oil or gas | zones |
| Ur | nderlying - Gray | burq | • | | |

| | roleum Corporation | Lovington San Andres | | |
|--------------------------------------|---------------------------------|---|--|--|
| OPERATOR | | LEASE | | |
| #25 WELL NO. | 1980' FEL & 660 FOOTAGE LOCA | | | |
| | , | Tubular Data | | |
| | | Surface Casing | | |
| | | Size: 13 " Cemented with 200 SX | | |
| Completed 10-18-39 | | TOC: Surface feet determined by circ | | |
| | | Hole size: 17-1/4" | | |
| | | | | |
| | 13" | Size: 8-5/8 " Cemented with 400 SX | | |
| | | TOC: 1765 feet determined by calc | | |
| | | Hole Size: 11" | | |
| | | | | |
| | 2990' | Long String | | |
| | 85/8' | Size: 5-1/2 " Cemented with 200 SX | | |
| | | TOC: 3424 feet determined by calc | | |
| | J515' | Hole Size: <u>7-7/8"</u> | | |
| | 14515' 51/2' | Total Depth: 5094' | | |
| | } | Injection Interval | | |
| | 15094' TD | 4515 feet to 5090 feet (perforated or open-hole, indicate which) | | |
| Tubing size 2-/ | 1 lined with | IPC set in a | | |
| | | (material) packer at <u>4495</u> feet. | | |
| (brand & model (or describe any o | l) other casing-tubing | g seal). | | |
| Other Data | • | | | |
| 1. Name of the in | jection formation | San Andres | | |
| 2. Name of Field | or Pool (If applie | cable) Lovington San Andres | | |
| | well drilled for i | Injection? No well originally drilled? Production | | |
| | | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) | | |
| 5. Give the depth (pools) in thi | | ny overlying and/or underlying oil or gas zones | | |
| Unde | rlying-Grayburg | | | |

| Greenhill Poperator | etroleum Corporation Lovington San Andres LEASE |
|--------------------------------|---|
| #31 | 660' FNL & 1980' FWL 1 17S 36E |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| Completed 12-22-39 | Surface Casing |
| | Size: 13 " Cemented with 200 sx |
| Deepened 6-20-87 | TOC: Surface feet determined by circ |
| | llole size: 17-1/4" |
| | Lzql' 13" |
| | Size: 8-5/8 " Cemented with 500 SX |
| | TOC: 2021 feet determined by calc |
| | -3109' Hole Size: 11" |
| | Long String |
| | Size: 5-1/2 " Cemented with 325 SX |
| | 4541 TOC: 2890 feet determined by calc 509 |
| | \{ \frac{5'/2''}{2''} \text{Hole Size: \frac{7-7/8''}{2}} |
| | |
| | 14460' Total Depth: 5125 |
| | Injection Interval |
| | TD 4541 feet to 5125 feet (perforated or open-hole, indicate which) |
| Tubing size 2- | -3/8" lined with IPC set in a (material) |
| | tension packer at 4499 feet. |
| (brand & mode (or describe any | other casing-tubing seal). |
| Other Data | |
| 1. Name of the i | njection formation San Andres |
| 2. Name of Field | or Pool (If applicable) Lovington San Andres |
| | well drilled for injection? No nat purpose was the well originally drilled? Production |
| | ever be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| 5. Give the dept (pools) in th | th to and name of any overlying and/or underlying oil or gas zones is area. |
| Unde | rlying-Grayburg |

| OPERATOR | etroleum Corporation | LEASE LEASE |
|------------------------------|---|---|
| | 2201 FM 0 10001 F | , |
| #35 WELL NO. | 339' FNL & 1890' F FOOTAGE LOCA | |
| | | . : |
| | | The best of the second |
| | | <u>Tubular Data</u> |
| Completed 5-4-39 | 1.1.1 | Surface Casing |
| | | Size: 13 " Cemented with 200 SX |
| | | TOC: Surface feet determined by circ |
| | 323 | Hole size: 17-1/4" |
| Deepen to 5040 | 13" | Intermediate Casing |
| | | Size: 9-5/8" " Cemented with 400 SX |
| | | TOC: 1644 feet determined by calc |
| | | Hole Size: 12" |
| | 1_2950' 95/8'' | Long String |
| | | Size: 7 " Cemented with 300 SX |
| | i | TOC: 1789 feet determined by calc |
| | | Hole Size: 8-3/4" |
| | [4570' 7" | Total Depth: 4942' |
| | <i>\</i> | |
| | 14942' TD | Injection Interval |
| · | | (perforated or open-hole, indicate which) |
| Tubing size $\hat{\imath}$ | γ ₈ " - lined with | set in a (material) |
| | | (material) packer at 4520 feet. |
| (brand & mod | el) | |
| (or describe any | other casing-tubing | g seal). |
| Other Data | | |
| 1. Name of the | injection formation | - SanAndres |
| 2. Name of Fiel | d or Pool (If appli | cable) Lovington San Andres |
| 3. Is this a ne If no, for w | w well drilled for : hat purpose was the | injection? No well originally drilled? Production |
| | - | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |
| 5. Give the dep (pools) in t | | ny overlying and/or underlying oil or gas zones |
| llm d a | wlużna Cuaukum. | |

| | Greenhill | Petroleu | ım Corporat | ion | Lovingt | on San Andr | es | |
|-----|----------------------------|----------|--------------|-----------|-----------------------------|--------------|--------------------------|-------------|
| | OPERATOR | | | | LEASE | | | |
| | #37 | 330' | FNL & 990' | FEL | 6 | 175 | 37E | |
| | WELL NO. | | FOOTAGE LO | CATION | SEC. | TOWNSHIP | RANGE | |
| | | | | | Tul | oular Data | | |
| | pleted | | 111 | Surfa | ce Casing | | | |
| /- | ·24-46 | | | Size | | Cemented v | vith <u>20</u> | sx |
| | | | 20' | TOC: | Surface | feet de | etermined by | circ |
| | | | 13" | Hole | size: 1 | 5" | - | |
| | | | | Inter | mediate Casi | lng | | |
| | | | | Size | 7-5/8 " | Cemented v | vith 500 | sx |
| De | epento 5030 | | | TOC: | Surface | feet de | etermined by | calc |
| | | | | llole | Size: 9 | -3/4" | - | |
| | | | | Long | String | | | |
| | | | 2015 | | 5-1/2 | Cemented v | vith <u>290</u> | sx |
| • | | | | TOC: | Surface | feet de | etermined by | calc |
| | • | | | Hole | Size: 6 | -1/4" | · | • |
| | | | 4560' | Total | Depth: 4 | 943' | | |
| | | | 51/2" | Injec | tion Interv | <u>al</u> | | |
| | | | 1 4943 TD | (peri | forated or or | en-hole, in | 5030 — | |
| Tul | bing size <u>2</u> | 7/4 - | lined with | 1 | | - IPC | s | et in a |
| | | | | naakar | (mate) | rial) | feet. | |
| | (brand & mod | | | | | · | reet. | |
| (or | describe any | y other | casing-tubi | ing seal) |). | | | |
| | er Data | | | | 1 | | | |
| | Name of the | | | • | | | | <u></u> |
| 2. | Name of Fie | ld or Po | ol (If appl | Licable) | Lovington | San Andres | | |
| 3. | Is this a no If no, for | | | | on? No originally di | rilled? Pr | oduction | |
| 4. | | | | | other zone acks of cemen | | all such perf plug(s) | orated |
| 5. | Give the dep | • | | any over | :lying and/or | c underlying | g oil or gas | zones |
| | Und | erlvina- | Gravburg | | | | | |

| Greenhill OPERATOR | Petroleum Corporation | on Lovington San Andres LEASE | Unit |
|-----------------------|---|---|--------------------------|
| OFERMION | | | |
| #39 WELL NO. | 1985 FNL & 6 | | R37E ANGE |
| WELL NO. | FOOTAGE LOC | ATION SEC. TOWNSHIP R | ANIGE : |
| | . • , | | |
| | | <u>Tubular Data</u> | • |
| | 111 | Surface Casing | |
| | | Size: 13 · " Cemented with | 200 sx |
| , | | TOC: Surface feet deter | mined by <u>circulat</u> |
| | | Hole size: 15" | |
| | 1 29 | 7. Intermediate Casing | • |
| ompleted | 18" | Size: 9 5/8 " Cemented with | sx 500 |
|)/28/39 | | TOC: 1506 feet deter | cmined by 50% calc |
| | | Hole Size: 12" | · |
| | L3139 95/s | | • |
| • | | Size: 7 " Cemented with | a <u>200</u> sx |
| | | TOC: 3245 feet dete | rmined by 80% calc |
| | 4522 7" | | · |
| t · | } | Total Depth: 4945' | |
| | <u></u> | Injection Interval | |
| | TD | (perforated or open-hole, indi | |
| ubing sizo | 23/8 lined with | IPC | set in a |
| | | (material) | |
| (brand & mo | odel) | packer at 4570 | feet, |
| r describe ar | y other casing-tubing | ng seal). | |
| her Data | • | | |
| | | San Andros | • |
| Name or the | injection formation | San Andres | |
| Name of Fie | ld or Pool (If appl. | icable) Lovington San Andı | <u>es</u> |
| | new well drilled for what purpose was the | | Production |
| | | d in any other zone(s)? List all tail (sacks of cement or bridge p | |
| intervals a used. | No . | | |

| Greenhill Petr | roleum Corporation | Lovington San Andr LEASE | es Unit |
|---------------------------------------|---|--------------------------------------|-------------------------|
| #43 WELL NO. | 1980 FNL & 660 FWL FOOTAGE LOCATION | 1 T17S SEC. TOWNSHIP | R36E RANGE |
| | | Tubular Data | |
| | Surfac | ce Casing | |
| | Size: | | 1th 200 sx |
| | TOC: | Surface feet de | termined by circulation |
| | | 17 ¹ /2 | • |
| | | nediate Casing | |
| | | 8 5/8 " Cemented w | |
| Completed 6/19/41 | 1 1.1 - | | |
| Repento 5030' | | 199 feet de | |
| mepen 10 3030 | 203¢ Hole S | Size: | matyrachine and |
| | | String | |
| | Size: | 5 1/2 " Cemented w | 1th 350 sx |
| • | 5½" TOC: _ | 2679 feet de | stermined by 80% calc |
| | A-+ | Size: 7 7/8" | • |
| | ` · | Depth: 4990' | , |
| | \ | tion Interval | |
| | | 4546 feet to prated or open-hole, in | 5030 feet |
| Tubing size | 23/8 lined with | IPC | set in a |
| | | (material) at - 453 6 | |
| (brand & model) | - | | 1880, |
| - | ior casing-tubing soal) | • | |
| ther Data | | | |
| . Name of the inje | ection formation | | |
| . Name of Field or | Pool (If applicable) | Lovington San A | ndres |
| | all drilled for injection purpose was the well or | | Production |
| | er be perforated in any lve plugging detail (sad | cks of cement or bridge | |
| . Give the depth t (pools) in this | co and name of any over | lying and/or underlying | ; oil or gas zones |
| ` | ng - Grayburg | • | |

| GREENHILL PETRO | LEUM CORPORATIO | N | Lovington San | Andres |
|---|-----------------|--|---------------------|----------------------|
| OPERATOR | | Lease | | |
| 53 660 F | SL & 1980 FWL | . 1 | T17S-R36E | |
| | FOOTAGE LOCA | | | NGE |
| ~ | | Tul | oular Data | |
| 1111 | | Surface Casing | | |
| | | Size: 13" " | Comented with | 300sx |
| | 13" | TOC: surface | feet determ | ined by <u>calc.</u> |
| | 281' | liole size: 17 | 1/2" | |
| | | Intermediate Cas: | Lng | |
| | 0.44 | Size: 9 5/8" " | Cemented with | sx |
| | 95/8" 2983' | TOC: 1743 | feet determ | ined by 60% ca |
| | € 185 | Hole Size: | 2 1/4" | |
| | 75/8" | Long String | | |
| | 3459' | Size: 7 5/8" " | Cemented with | SX |
| | 5%" | TOC: 3147 | feet determ | ined by60% calc |
| <u></u> | 11150 | Hole Size: | 8 3/4" | |
| | ⊢ ! | Total Depth: " 55 SX Injection Interval " 4324' 60% ([perforated or operated 5000' | |
| | TD \$5% | " 55 SX <u>Injection Interv</u> a | <u>.1</u> ~ | |
| | A TO | oc 4324, 90% (| feet to | feet |
| | £ 83/3 | (perforated or op | en-hole, indica | te which) |
| Tubing size | _ lined with | | _ | set in a |
| | po | mateı) - cker at | (1al) | feet. |
| (brand & model) or describe any other | | | | |
| h <u>er Data</u> | | · | • | |
| Name of the inject | lon formation | | | |
| Name of Field or Po | | | | res |
| | , | | oray bar g ban rina | |
| Is this a new well If no, for what pur | chose was the w | ell originally dr | illed? prod. | |
| lias the well ever the intervals and give used. No | | | | |
| Give the depth to a | | | | |

(pools) in this area.

underlying-Grayburg

| Greenhill P OPERATOR | etroleum Corporation Lovington San Andres LEASE |
|-------------------------|--|
| | |
| #58 WELL NO. | 2310' FNL & 1309' FWL 31 16S 37E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| Completed 5-15-41 | Surface Casing |
| | Size: 13 " Cemented with 180 SX |
| deepen to 5070 | TOC: Surface feet determined by circ |
| | L299' Hole size: 17-1/4" |
| | Intermediate Casing |
| | Size: 8-5/8 " Cemented with 400 SX |
| | ZO85' TOC: 860 feet determined by calc |
| | 85/9" Hole Size: 11" |
| | Long String |
| | Size: 5-1/2 " Cemented with 200 SX |
| | 4570' TOC: 3479 feet determined by calc |
| · | Hole Size: 7-7/8" |
| | 14990' Total Depth: 4990' |
| | Injection Interval |
| | 4570 feet to feet (perforated or open-hole, indicate which) |
| Tuhing aire | 2 (0 |
| Tubing size | (material) |
| • | packer at <u>4550</u> feet. del) y other casing-tubing seal). |
| Other Data | |
| 1. Name of the | injection formation San Andres |
| 2. Name of Field | ld or Pool (If applicable) Lovington San Andres |
| | ew well drilled for injection? No what purpose was the well originally drilled? Production |
| | l ever be perforated in any other zone(s)? List all such perforated nd give plugging detail (sacks of cement or bridge plug(s) |
| 5. Give the dep | pth to and name of any overlying and/or underlying oil or gas zones this area. |
| Unde | erlying-Grayburg |
| | |

| Greenhill Pet | roleum Corporation | Lovington | Paddock | |
|---------------|----------------------|-----------|----------|-------|
| OPERATOR | · | LEASE | | |
| # 5 | 660' FSL & 1980' FWL | 25 | 168 | 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

_85/8" 3197°

Hole size:

Long String

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

TOC: 2876 | feet determined by temp

survey

Hole size: 7-7/8"

5/2" 6100'

Total Depth: 6281'

Injection Interval

TO 6281

- 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.

| ··· | OPERATOR . | LEASE LEASE |
|-------|----------------------------------|---|
| | # 10 | 660' FNL & 2440' FEL . 31 16S 37E |
| | HELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | | |
| | | Tubular Data |
| | | Surface Casing |
| - | ud Date -11-54 | Sizo: 8-5/8 ". Comented with 1500 sx |
| v | 22 31 | TOC: Surface feet determined by calc |
| | • | Hole size: 11" |
| | | Intormediate Casing |
| | | |
| r | | Size: " Cemented with SX |
| | | 3912 TOC: feet determined by |
| •• | , | llole Size: |
| | | Long String |
| | • | Size: 5-1/2" " Comented with 300 SX |
| • | • • | TOC: 46/0 feet determined by temp sure |
| | | 6105 Hole Size: 7-7/8" |
| | | Total Depth: 6260' |
| | | to Laco' Injection Interval |
| | | - feet to - feet |
| • | | (perforated or open-hole, indicate which) |
| Tubi | ng sizo _2 3/ | 1 lined with set in a |
| , | | (material) packer at |
| | brand & model lescribe any o | .) ther casing-tubing seal). |
| Other | : Data | |
| , | | njection formation Paddock |
| | | |
| | , | or Pool (If applicable) Paddock |
| 3.] | ls this a new If no, for who | well drilled for injection? No Production Production |
| • | | over be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| | Give the depth (pools) in thi | n to and name of any overlying and/or underlying oil or gas zones |
| • | • | Glorieta |
| • | | |

| Greenhill Pet | roleum Corporation . | Lovington | Paddock | | |
|---------------|----------------------|-----------|----------|-------------|--|
| OPERATOR | | LEASE | | | |
| #11 | 940' FNL & 1980' FWL | 31 | 165 | 37E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

<u>Tubular Data</u>

Spud Date Surface Casing 9-01-53 Size: 13-3/8 " Cemented with 330 SX Converted to Injection TOC: Surface feet determined by calc 12/66 133/8" Hole size: 17-1/4" 347' <u>Intermediate Casing</u> Size: 7-5/8" Cemented with 2230 SX TOC: Surface feet determined by calc Hole size: 11" 25/8" 3295 Long String Size: 5-1/2" Cemented with 350 SX TOC: 4208 feet determined by 70% calc Hole size: 7-7/8" 5"x" 6115 Total Depth: 6270' Injection Interval TD 6270' feet to 6270

(perforated or open-hole, indicate which)

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

·lined with IPC set in a

Other Data

Tubing size

- 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.

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

| Greenhil OPERATOR | 1 Petroleum Corporation Lovington San Andres Unit LEASE |
|----------------------|---|
| | |
| #6 WELL NO. | 660 FNL & 660 FWL 31 T16S R37E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| | Surface Casing |
| | Size: '16 ". Comented with 100 SX |
| | TOC; Surface foot determined by calc. |
| | 257' llola siza: 18 |
| | Intermediate Casing |
| Complëted 6/15/45 | Size: 85/8 " Cemented with 150 SX |
| Converted to | R 5/8" TOC: 1271 feet determined by calc 50% |
| Injection 3/28/63 | liolo Size: 11 |
| | Long String |
| | 7" Size: 7 " Comonted with 200 SX |
| • | TOC: 2229 feet determined by 80% calc |
| | Hole Size: 8 |
| • | Total Depth: 5000' |
| | Injection Interval |
| | 4538 feet to 5000 feet (perferated or open-hole, indicate which) |
| Tubing aiza | 2 3/8 lined with IPC set in a |
| Audrig oxao | (material) |
| (brand & | |
| • | any other casing-tubing seal). |
| Other Data | |
| . Name of t | he injection formation San Andres |
| . Name of F | ield or Pool (If applicable) <u>Lovington San Andres</u> |
| | new well drilled for injection? No r what purpose was the well originally drilled? Production |
| intervals used. | ell ever be perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s) |
| | depth to and name of any overlying and/or underlying oil or gas zones n this area. |
| • | Inderlying - Grayburg |

| Greenhill Pe | etroleum Corporation | Lovington Paddock |
|---------------------------------|---|--|
| OPERATOR | | LEASE |
| 12 | 781' FNL & 660' | FWL 31 16S 37E |
| WELL NO. | FOOTAGE LOCAT | |
| | | |
| | | Tubular Data |
| , | | Surface Casing |
| Spud Date | | Size: 13 3/8 ". Comented with 350 . sx |
| 4-5-53 | | TOC: Surface feet determined by calc |
| · | 11 1021.11 | |
| | 324' | Hole size: /7 /4 |
| | | Intermediate Casing |
| | 11 ' | Size: 9 5/8 " Cemented with 2600 SX |
| | L95/8" | TOC: Surface feet determined by calc |
| | | Hole Size: 1374 |
| | | Long String |
| | | Size: 7 |
| • | | TOC: 2675 feet determined by 70% |
| | <u> </u> | Hole Size: 8 1/4 |
| T | D 6250' | Total Depth: 6250' |
| | | Injection Interval |
| | | C115 |
| | | 6115 feet to 6248 feet (perforated or open-hole, indicate which) |
| Tubing size 2 | 2 3/8 lined with | IPC set in a |
| AD 1 PC | | (material) |
| (brand & mod | el) pr | acker at 6100 feet. |
| (or describe any | other casing-tubing | seal). |
| Other Data | | • |
| 1. Name of the | injection formation | Paddock |
| 2. Name of Fiel | d or Pool (If applica | able) Paddock |
| 3. Is this a ne If no, for w | w well drilled for in that purpose was the t | njection? No well originally drilled? production |
| 4. Has the well | ever be perforated and give plugging details | in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s) |
| 5. Give the dep | th to and name of an | y overlying and/or underlying oil or gas zones |
| (pools) in t | his area. | |
| | Above Glorieta | |

| OPERATOR | 990 | | LEASE | | |
|--------------------------------|---|-----------------|----------------|--------------------|---------------------|
| #14 | -940' FNL & 174 | 1' FEL | . 36 | 16\$ | 36E |
| WELL NO. | FOOTAGE LOCATI | ON | SEC. | TOWNSHIP | RANGE |
| | | | <u>Tubular</u> | <u>Data</u> | |
| Spud Date | 11 | Surface C | asing | | |
| 10-27-53 | . | Size: 8- | 5/8 " Cem | ented with | 975 SX |
| | ` | TOC: Surf | ace feet | determined | by calc |
| | | Hole size | : // | | |
| | 85/8" | Intermedi | ate Casing | Ĺ | |
| | 2110' | Size: | Cemen | ited with | SX |
| | | TOC: | feet | determined | by |
| | | Hole size | : | | |
| | | Long Stri | ng | | |
| | , | Size: 5- | 1/2" Cemer | ited with 4 | 00 SX |
| | 51/1 | TOC: 391 | | etermined by | • |
| | 6079' | Hole size | : 7 % | | survey |
| · | TO 6270' | Total Dep | th: 6270' | | |
| | | Injection | Interval | | |
| 1 | | - (perforate | | , - hole, indic | feet cate which) |
| Tubing size - | lined with - | set in a | - | t | oacker |
| at - feet. | (Or describe any o | ther casin | g-tubing s | seal). | • |
| Other Data | | ÷ | | | |
| 1. Name of the i | injection formation | ı: | | | |
| 2. Name of Field | i or Pool (If appli | cable) <u>P</u> | <u>addock</u> | | |
| | v well drilled for nat purpose was the | | | illed? <u>Proc</u> | <u>duction</u> |
| perforated in bridge plug(s | ever been perforal ntervals and give p s) used. No | | | | |

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

Y.

INJECTION WELL DATA SHEET

| #4 | | • • |
|--------------------------------------|--------------------|--|
| η·+ | 660 FNL & 1980 | FEL '36 T16S R36E |
| WELL NO. | FOOTAGE LOCATI | ON SEC. TOWNSHIP RANGE |
| | | |
| | | Tubular Data |
| | | urface Casing |
| | 2 | ize: 13 " Cemented with 200 s |
| | | OC: Surface feet determined by calc |
| | | ole size: 14 3/4 |
| | 213 | |
| | 11 . | ntermediate Casing |
| Completed 1/3/39 | | ize: 9 5/8 " Cemented with 500 ! |
| Converted to | L95/8* 7 | OC: Surface feet determined by calc |
| Injection 3/28/63 | 1 | ole Size: 11 1/4 |
| 3/20/03 |] | ong String |
| • | | ize: 7 " Cemented with 300 |
| • | 7" 4634 | OG: 1910' feet determined by 80% ca |
| | . { | ole Size: 8 1/4 |
| | . | |
| | | otal Depth: 5012' |
| | | njection Interval |
| | | #634 feet to 50/2 feet perforated or open-hole, indicate which) |
| ubing size 2 3/8 | lined with | IPC set in |
| | pa | (material) ker at 4586 feet. |
| (brand & model) r describe any other | | |
| hor Data | | |
| | | |
| Name of the injec | ction formation _ | San Andres |
| Name of Field or | Pool (If applical | 1e) Lovington San Andres |
| | ll drilled for in | ection? No 11 originally drilled? Production |
| | ve plugging detail | any other zone(s)? List all such perforated (sacks of cement or bridge plug(s) |

·Underlying - Grayburg

| | Greenhill Pet | roleum Corporation | LEASE 50' FNL & 660' FWL 36 | ı Paddock | | |
|---|---------------|---------------------|--------------------------------|-----------|-------|--|
| | OPERATOR | | LEASE | | | |
| | #16 | 660' FNL & 660' FWL | 36 | 168 | 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 eate

Circ

Hole size: //

Intermediate Casing

Size:

Cemented with

SX

85/8" 3110'

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:

Total Depth: 6280'

TO 6280' Injection Interval

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

Tubing size lined with - set in a

packer

(Or describe any other casing-tubing seal). a t

Other Data

- Name of the injection formation:
- 2. Name of Field or Pool (If applicable)
- Is this a new well drilled for Injection? No 3. If no, for what purpose was the well originally drilled? Production
- Ilas the well ever 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.

| | Greenhill Pet | croleum Corporation | Lovington | Paddock | | • |
|---|---------------|----------------------|-----------|----------|-------|---|
| _ | OPERATOR | | LEASE | | | |
| | #18 | 2310' FNL & 330' FEL | 35 | 168 , | 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:

.13³/3" 33%

Intermediate Casing

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

TOC: Surface feet determined by calc

Hole size:

85%"

Long String

3289' Size:

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

TOC: 2650 feet determined by temp survey

Hole size:

51/2"

TD 6225'

Total Depth: 6275'

Injection Interval

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

Tubing size

lined with - set in a

packer

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

Other Data

- 1. Name of the injection formation:
- 2. Name of Field or Pool (If applicable) Paddock
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- Ilas the well ever 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.



| Greenhill Pe | troleum Corporation | Lovington | Paddock | |
|--------------|----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | • |
| #19 | 1980' FNL & 990' FWL | 36 | 168 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Spud Date Surface Casing 4-27-54 Size: 8-5/8" Cemented with 1800 SX Converted TOC: Surface feet determined by calc (/rc to Injection 3/74 Hole size: // Intermediate Casing Cemented with SX Size: 85/3" TOC: feet determined by 32471 Hole size: Long String Size: 5-1/2" Cemented with 585 SX TOC: 3964 feet determined by temp survey Hole size: 1// Total Depth: 6275' Injection Interval TO 6275'

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? <u>Production</u>
- 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.

| Greenhill Pet | Lovington | | | | |
|---------------|-----------------------|-------|----------|-------|---|
| OPERATOR | | LEASE | | | - |
| #20 | 1830' FNL & 2130' FWL | 36 | 165 | 36E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | - |

<u>Tubular Data</u>

Spud Date Surface Casing 3-24-54 8-5/8" Cemented with 1800 SX Converted to Injection TOC: Surface feet determined by calc 3/74 Hole size: // Intermediate Casing Size: Cemented with SX 85/8" 3190' 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 Total Depth: 6262' 6060' Injection Interval TO 6262'

(perforated or open-hole, indicate which)

Tubing size - lined with - set in a - packer

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

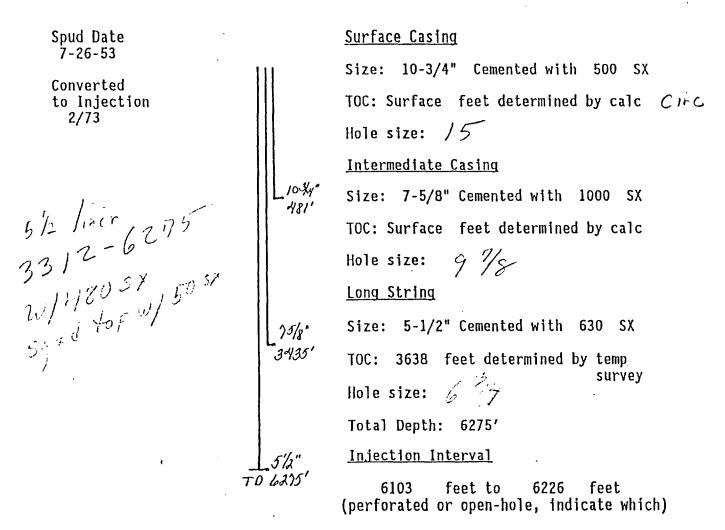
Other Data

- 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? <u>Production</u>
- Has the well ever 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.



| Greenhill Pe | troleum Corporation | Lovington Paddock | | | |
|--------------|-----------------------|-------------------|-------------|-------|--|
| OPERATOR | | LEASE | | | |
| #21 | 2190' FNL & 1980' FEL | 36 | 168 | 36E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |
| | | <u>Tubular</u> | <u>Data</u> | | |



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

. packer

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

Other Data

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

T

INJECTION WELL DATA SHEET

| | Greenhill Pet | Lovington Paddock | | | | |
|---|---------------|---------------------------------|-------|----------|-------|--|
| | OPERATOR | 2321,9 | LEASE | | | |
| | #23 | 2392' FNL & 750' FWL | 31 | 168 | 37E | |
| _ | WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data

| Spud Date 3-29-52 | 111 | Surface Casing |
|-----------------------------------|-----------|--|
| | | Size: 13-3/8" Cemented with 350 SX |
| Converted to Injection 2/73 | | TOC: Surface feet determined by calc |
| • | | Hole size: |
| CIBP 6310' | 133/3" | Intermediate Casing |
| Cmt. to 6300' | 302 | Size: 9-5/8" Cemented with 2250 SX |
| | | TOC: Surface feet determined by calc |
| | | Hole size: |
| | | Long String |
| 7 "/mir 4171-8250 | 4460' | Size: 7" Cemented with 500 SX |
| 4171-8250 | | TOC: 2250 feet determined by temp ? |
| | | Hole size: |
| | | Total Depth: 8450' |
| | 8250, | Injection Interval |
| | TO 8-150' | 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
- Has the well ever 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

No

| | | Corporation | Lovington Paddock |
|--------------------|--------------|---------------------------------------|--|
| OP | PERATOR | • | LEASE |
| 24 | | 2310' FNL & 1 | 968" FWL 31 16S 37E |
| WE | ELL NO. | FOOTAGE LOCA | |
| | | | |
| | • | | Tubular Data |
| and Date | _ | | Curface Caring |
| pud Date -12-53 | 9 | 1 | Surface Casing |
| | . (200 | | Size: 8 5/8 ". Comented with 950. sx |
| eepen to | . 0280 | | TOC: Surface feet determined by calc. |
| | | | liole size: // |
| | | | Intermediate Casing |
| | | | Size: Comented withSX |
| | <u>[</u> | 85/8" | TOC: Surface feet determined by calc. |
| | | 20721 | Hole Size: |
| | | • | Long String |
| | | | Size: 5 1/2 |
| • | Ì | • | TOC: 4077 feet determined by temp surve |
| | | _51/211 | Hole Size: 77/8 |
| | | 61331 | Total Depth: 6257' |
| | · 7D | 6257' | Injection Interval |
| | | | 6111 feet to 6280 feet |
| | | | (perforated or open-hole, indicate which) |
| Tubing | 2 3/8 | lined with | . IPC set in a |
| • | AD-1 PC | Tried with | (material) |
| | and & model | <u> </u> | packer atfeet. |
| | | ther casing-tubi | ng seal). |
| Other D | lata | | • |
| 1. Nam | e of the ir | ijection formation | n Paddock |
| 2. Nam | e of Field | or Pool (If appl | icable) Paddock |
| | | well drilled for at purpose was th | injection? No e well originally drilled? Production |
| | corvals and | give plugging de | d in any other zone(s)? List all such perforated tail (sacks of cement or bridge plug(s) |
| | ools) in thi | | any overlying and/or underlying oil or gas zones |
| | | | |

| Rice Engineerin | g | | | Abo | SWD (S | State "O") | | |
|---|-----------|------------------------|--------------|-----------------|--------------------|--------------------|-----------------------------|---------------|
| OPERATOR | | | | | LEASE | | | |
| 13 23 | 10' FNL & | 2626' | FWL | | 31 | 165 | 37E | |
| WELL NO. | FOOTAGE | LOCATI | ON | | SEC. | TOWNSHIP | RANGE | |
| | | | | <u>Tı</u> | <u>ıbular l</u> | <u>Data</u> | | |
| Completed 1-18-53 | | | <u>Surfa</u> | ce Casiı | ng | | | • |
| | | | Size: | 13-3/8 | B" Ceme | nted with | 246 SX | |
| Converted to SWD (Inject | | | TOC: | Surface | feet | determined | by calc | <u>.</u> |
| thru 9730-10260) | | 246 | Hole | size: | 18" | | | |
| | • | | <u>Inter</u> | <u>mediate</u> | Casing | | | |
| | | | Size: | 9-5/8" | Cemen | ted with 🗐 | 1200 1400 SX | · |
| · | | | TOC: | Surface -352 | feet de | termined by | zirc 1 50% ca | lc |
| | 95/8 | | Ho1e | size: | 12-1/4" | | | |
| | | <i>"3</i> 270' | Long | String | | | | 682 at shoe |
| cmt bond log 1964 | | | Size | • | " Cemen | ited with 19 | 982 SX | at 8988 |
| top good cont 3765 | | | TOC: | 247 | feet d | letermined l | by 80% c | alc |
| squed several interval above and below this | 5 | | Ho1e | size: | 7-7/8" | ı | | |
| point. | | | Tota | Depth: | 12,25 | 51 . | | |
| | | 51/2" | Inje | tion In | terval | | | |
| | | 11,044 T0 3,351' | .(perfo | | feet to r open- | o - -hole, indi | feet cate whi | ch) |

Other Data

Tubing size

- 1. Name of the injection formation:
- 2. Name of Field or Pool (If applicable) <u>East Lovington (Penn)</u>

lined with - set in a

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

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

Abo (Above)

| Greenhill Pet | troleum Corporation | Lovington | Paddock | | |
|---------------|-----------------------|-----------|----------|-------|---|
| OPERATOR | | LEASE | | | • |
| #25 | 2130' FNL & 1980' FWL | 31 | 168 | 37E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | - |

Tubular Data

Spud Date Surface Casing 11-16-54 Size: 8-5/8" Cemented with 1550 SX Converted TOC: Surface feet determined by cale to Inj. 12/54 Hole size: Intermediate Casing 3215 SX Cemented with Size: TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 450 SX 5%" TOC: 4160 feet determined by temp 6106' survey 77/8 Hole size: TD 6270' Total Depth: 6270'

<u>Injection Interval</u>

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

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

packer

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

Other Data

- 1. Name of the injection formation:
- <u>Paddock</u>
- 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? <u>Production</u>
- Ilas the well ever 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.

| Greenhill OPERATOR | Petroleum Corporation Lovington San Andres Unit LEASE |
|------------------------------------|--|
| #43 WELL NO. | 1980 FNL & 660 FWL 1 T17S R36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| , | Tubular Data |
| | Surface Casing |
| | Size: 13 Comented with 200 sx |
| | TOC: Surface feet determined by circulation |
| | liole size: |
| | Intermediate Casing |
| Completed | Size: 8 5/8 " Cemented with 600 SX |
| 6/19/41 | TOC: 199 feet determined by 50% calc |
| Depento 5030' | Zo3¢, liole Size: 11" |
| | Long String |
| | Size: 5 1/2 " Cemented with 350 SX |
| • | TOC: 2679 feet determined by 80% calc |
| • | 14 372 1586' Hole Size: 7 7/8" |
| • • | Total Depth: 4990' |
| | TD 4190' Injection Interval |
| | 4546 feet to 5030 feet (perforated or open-hole, indicate which) |
| Tubing size | $\frac{-2^{3}\%}{2^{3}}$ lined with $\frac{TPC}{2^{3}}$ set in a |
| | |
| (brand & mod (or describe any | ol) other casing-tubing seal). |
| Other Data | |
| 1. Nama of the | injection formation |
| 2. Name of Fiel | d or Pool (If applicable) Lovington San Andres |
| 3. Is this a no If no, for p | w well drilled for injection? No hat purpose was the well originally drilled? Production |
| 4. Has the well intervals as used. | . ever be perforated in any other zone(s)? List all such perforated id give plugging detail (sacks of cement or bridge plug(s) |
| | oth to and name of any overlying and/or underlying oil or gas zones |
| | rlying - Grayburg |
| | |

| Greenhil OPERATO | <u>l Petroleum Co</u> DR | orporation | Lovington San Andres LEASE |
|------------------------|-----------------------------------|---------------------------------------|---|
| WELL NO | | FSL & 16 | |
| | | | Tubular Data |
| . 9 . 1 1 | | | Surface Casing |
| ompleted 6-1-39 | | | Size: 13 " Cemented with 200 sx |
| eepened | | | TOC: Surface feet determined by calc |
| 7-23-86 | | | Hole size: 17-1/4" |
| | | | Intermediate Casing |
| | | | Size: 9-5/8 " Cemented with 400 SX |
| | | L2951 | TOC: 1818 feet determined by calc |
| | | | Hole Size: 12" |
| • | | | Long String |
| | • | | Size: 7 " Cemented with 200 SX |
| | • | | TOC: 3840 feet determined by calc |
| | | 2998' | • |
| | | 95/8" | Hole Size: 8-3/4" |
| , | | 11 | Total Depth: 5110' |
| | | _4531' "7" | Injection Interval |
| | • | 1 4972' | 4531 feet to 5110 feet (perforated or open-hole, indicate which) |
| Tubing size | 2-3/8" 1 | Lned with | IPC set in a |
| , | Waterflood | | (material) packer at 45/0 feet. |
| (brand & | | . • | |
| Other Data | u., 00.02.00. | , , , , , , , , , , , , , , , , , , , | 6 DOULY . |
| • | the Intesting | farmatian | San Andres |
| | the injection | !• | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| | Field or Pool | | |
| 3. Is this If no, f | a new well dr: for what purpo: | llled for se was the | injection? No well originally drilled? Production |
| 4. llas the interval | well ever be p | perforated | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |
| | depth to and in this area, | name of a | ny overlying and/or underlying oil or gas zones |
| · | Underlying-Gra | lyburg | |



| • | Greenhill Petroleum Corporation | | Lovington Paddock | | | |
|---|---------------------------------|----------------------|-------------------|----------|---------|--|
| | OPERATOR | | LEASE | | <u></u> | |
| | #15 | 810' FNL & 2130' FWL | 36 | 168 | 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: //

3190'

6080'

TO 6280'

Intermediate Casing

Size:

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

Long Stri

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

TOC: 3765 feet determined by temp

survey

Hole size: 7 %

Total Depth: 6280'

Injection Interval

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

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

packer

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

Other Data

1. Name of the injection formation:

Paddock

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

No

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

| Greenhill Petro | leum Corporation | Lovington San Andres Unit |
|---------------------------------------|--|--|
| | , , , , , , , , , , , , , , , , , , , | |
| #17 WELL NO. | · 660 FNL & 330 FI | |
| HEND NO. | | on beginning and |
| • | | |
| | | Tubular Data |
| | <u>S</u> : | urface Casing |
| | s | iza: 8 ⁵ /8 ". Comontad with 450 sx |
| | 1 1 | OC: Surface feet determined by calc- |
| | \.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ole size: 10 1/4 |
| · · · · · · · · · · · · · · · · · · · | 3 P | ntermediate Casing |
| | s | ize: Comented withSX |
| Completed 9/17/46 | | OC: feet determined by |
| leepen to | 11 | ole Size: |
| 5090 | 1 | ong String |
| | s | lize: 5 1/2 " Comented with 400 s |
| | 4623' | foc: 1832 feet determined by 80% calc |
| | $\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \end{array} \begin{array}{c} 5V_2" \\ \cdot \\ \end{array}$ | iole Size: 7 1/4 |
| | TO 4935 | Total Depth: 4935' |
| • | • | Injection Interval |
| | • | 4623 feet to 5090 feet (perforated or open-hole, indicate which) |
| Tubing size _ 2% | I food with | IPC set in a |
| • | • | (material) |
| : (brand & model) | packer pa | cker at 4603 feet. |
| (or describe any oth | or casing-tubing | soal). |
| Ither Data | • | |
| | action formation _ | San Andres |
| ! | • • • | ble) Lovington San Andres |
| . Hand or read or | . Look the applica | COVINGUO CONTINUES |
| | oll drilled for in | jection? No Production Production |
| intervals and gi | or be perforated i lve plugging detai | n any other zone(s)? List all such perforated 1 (sacks of cement or bridge plug(s) |
| 5. Give the depth 1 | to and name of any | overlying and/or underlying oil or gas zones |
| (pools) in this | area. | |
| | nderlying - Graybu | ırg |

| oleum Corporation | Lovington San Andres |
|-------------------------------------|--|
| • . | LEASE |
| 1980' FEL & 660 FOOTAGE LOCA | |
| | Tubular Data |
| 1111 | Surface Casing |
| | Size: 13 Cemented with 200 SX |
| | TOC: Surface feet determined by circ |
| | Hole size: 17-1/4" |
| L302' | Intermediate Casing |
| | Size: 8-5/8 " Cemented with 400 SX |
| | TOC: 1765 feet determined by calc |
| | Hole Size: 11" |
| \ \ \ \ | Long String |
| | Size: 5-1/2 " Cemented with 200 SX |
| | TOG: 3424 feet determined by calc |
| | Hole Size: 7-7/8" |
| 4515' | Total Depth: 5094' |
| `{ | Injection Interval |
| TD 5094' | 4515 feet to 5090 feet (perforated or open-hole, indicate which) |
| 8 lined with | |
| flood tension | (material) packer at <u>4495</u> feet. |
|) ther casing-tubin | |
| • | |
| njection formation | San Andres |
| or Pool (If applie | cable) Lovington San Andres |
| well drilled for at purpose was the | injection? No well originally drilled? Production |
| give plugging det | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |
| | ny overlying and/or underlying oil or gas zones |
| rlying-Grayburg | |
| | 1980' FEL & 660 FOOTAGE LOCA 1302' 13" 2940' 85/8' 5094' TD 8 lined with flood formation or Pool (If appliant purpose was the ever be perforated give plugging det at and name of a list area. |

| Greenhill OPERATOR | Petroleum Corpor | ation | Lovii Leas | igton San Andr | es | |
|-----------------------|--------------------------------------|--------------|---------------|------------------------------------|-----------------------------|-------------|
| | CCOL ENT P. | 10001 EM | 1 | 178 | 36E | |
| #31 WELL NO. | 660' FNL & | LOCATION | SEC. | | RANGE | |
| | | | | Tubular Data | | |
| Completed | | Surf | ace Casing | | | |
| 12-22-39 | 11 | 1 | | " Cemented v | with 200 | SX |
| Deepened 6-20-87. | | | | feet d | | |
| | . | | size: | | . • | |
| | | Lzqi | ermediate (| | | |
| | | | | ". Cemented | with 500 | SX |
| | . | | 2021 | | etermined by | |
| | | 3109 1 1101 | s Size: | 11" | | |
| | | 878 | g String | | apan mengangan pengangan di | |
| | | | • | | with 325 | SX |
| | 1., | • | : 2890 | | etermined by | |
| • . | , , | ミソッ ツ | e Size: | 7-7/8" | · · | |
| | } . | | | | | |
| | | TO | al Depth: | 5125 | | |
| |) | Inj | ection int | erval | rior | . |
| | | (be | rforated o | erval feet to r open-hole, i | ndicate whic | h) |
| Tubing size _ | 2-3/8" lined 1 | vith | I | PC | | set in a |
| water flo | od tension | packe | m at <u>4</u> | aterial) 499 | feet. | , |
| (prana a m | odel) · ny other casing- | | | | • | |
| Other Data | | | · | | | |
| 1. Name of th | e injection form | ation | Sa | n Andres | | |
| 2. Name of Fi | eld or Pool (If | applicable |) Lovin | gton San Andre | 25 | |
| 3. Is this a | new well drilled what purpose wa | for injec | tion? N | 0 | | |
| 4. Has the we | 11 ever be perfo and give pluggin | rated in a | ny other z | one(s)? List | all such per | forated: |
| | lepth to and name | of any ov | erlying ar | id/or underlyi | ng oil or gas | zones |
| | nderlying-Graybu | rq | | , | • | |

| Greenhill Pe | troleum Corporation | Lovington | Paddock | | |
|--------------|-----------------------|-----------|----------|-------|--|
| OPERATOR | | LEASE | | | |
| #26 | 2130' FSL & 2160' FEL | 31 | 168 | 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

2041'

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

urvey

5/2"

TO 6252

Hole size:

Total Depth: 6252'

Injection Interval

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

Tubing size $2^{3/8}$ lined with TPC set in a

packer

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

Other Data

1. Name of the injection formation:

No

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.

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

| | etroleum Corporation Lovington San Andres Unit LEASE |
|---------------------------------|---|
| OPERATOR | |
| #16 WELL NO. | 2310 FEL & 1980 FSL 31 T16S R37E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data Surface Casing Size: 13 " Comented with 200 sx TOC: feet determined by |
| Completed 12/6/39 | 13" Note size: 15 1/4 294' Intermediate Casing Size: 8 5/8 " Comented with 500 SX 85/8" TOC: feet determined by |
| Converted to Injection 3/16/63 | 10 1/4. 10 1/4. |
| | TOC: |
| | 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. |
| (or describe any | other casing-tubing seal). |
| Other Data | |
| 1. Name of the | injection formation <u>San Andres</u> |
| 2. Name of Fiel | d or Pool (If applicable) Lovington San Andres |
| | w well drilled for injection? No hat purpose was the well originally drilled? Production |
| | ever be perforated in any other zone(s)? List all such perforated d give plugging detail (sacks of cement or bridge plug(s) No |
| 5. Give the dep (pools) in t | th to and name of any overlying and/or underlying oil or gas zones |
| • | Underlying - Grayburg |

| Texaco ` · OPERATOR | State "O" LEASE |
|----------------------------------|---|
| HELL NO. | 1650' FSL & 2310' FEL 31 16S 37E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| • | Tubular Data |
| Completed 8-08-52 | Surface Casing Sizo: 13-3/8 " Comented with 245 SX TOC: Surface feet determined by calc llola sizo: 18" 13 3/8 236' Intermediate Casing Size: 8-5/8 " Comented with 1800 SX |
| | TOC: Surface foot determined by calc liole Size: 12-1/4" Si/e Long String Size: 5-1/2 " Comented with 700 SX |
| • | TOC: 3984 feet determined by 80% ca llole Size: 7-7/8" Total Depth: 8444' SY2 Injection Interval |
| Tubing size | feet to feet to feet to feet to feet to (perforated or open-hole, indicate which) lined with (material) |
| (brand & mod (or describe any | packer atfeet. el) other casing-tubing seal). |
| | injection formation |
| If no, for w | w well drilled for injection? hat purpose was the well originally drilled? Production ever be perforated in any other zone(s)? List all such perforated d give plugging detail (sacks of cement or bridge plug(s) |
| (pools) in t | th to and name of any overlying and/or underlying oil or gas zones this area. |

| | reenhill PERATOR | Petroleum Corporatio | n | Loying LEASE | ton San Andr | P.S. |
|----------|---------------------|--|---------|-----------------|---------------|-----------------------------|
| · | #60 | 1283' FSL & 2527' | FWL | 31 | 16S · | 37E |
| W | ELL NO. | FOOTAGE LOCA | | SEC. | TOWNSHIP | RANGE |
| | • | | | Ty | ıbular Data | |
| Complete | | • | Surfa | ce Casing | · | |
| 1-31-90 | 1 | | Size: | 13-3/8 ~ | Cemented w | 1th 450 sx |
| | | | TOC: | Surface | feet de | termined by circ |
| | | | llole | size: <u>1</u> | 17-1/2" | - |
| | _ | | Inter | mediate Cas | sing | |
| | • | , · | | | " Cemented w | rith 600 sx |
| | | 20531 | | | | stermined by <u>calc</u> |
| | | 15/8 | | Size: 11" | | • |
| • | | | | String | | |
| | | | | | " Cemented t | with 1450 sx |
| • | | 5340' | | | | etermined by <u>calc</u> |
| • | | \ 5\\\alpha" | | Size: 7 | | • |
| | |) | | <u></u> | | ng-min'ny sara-dia, sara-di |
| | | | | L Depth: | | |
| | | | Injec | ction Inter | | |
| | | | • • | • | open-hole, 1 | ndicate which) |
| Tubin | g size | lined with | | (mat | ·ortol) | set in a |
| | rand & mo | | packer | at | | foot. |
| | | y other casing-tubin | g seal |). | • | |
| Other | Data | | | | | |
| 1. Na | ma of the | injection formation | l | San | Andres | |
| 2. Na | me of Fie | ild or Pool (If appli | cable) | Lovingt | ton San Andre | \$ |
| | | new well drilled for what purpose was the | | | drilled? P | roduction |
| in | | .1 ever be perforated and give plugging det | cail (s | | ment or bridg | |
| | | opth to and name of a | | | | ng oil or gas zones |
| | | derlying-Grayburg | | | | |

| Penroc | | State 182 "A" | | |
|----------|-----------------------|---------------|----------|-------|
| OPERATOR | | LEASE | | |
| 4 | 1650' FSL.& 2289' FWL | 31 | 168 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Workover Aug Sept - 68, sqzd From 6400,5000,4600 with total 1200 sx 70c 4000 by TS

Surface Casing

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

TOC: Surface feet determined by calc

133/8" Hole size: 16"

299'

Intermediate Casing

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

TOC: Surface feet determined by calc

95/8" Hole size: 12"

J360' Long String

Size: 7" Cemented with 404 SX

TOC: 3798 feet determined by 80% calc

.?" Hole size: 8"

Total Depth: 8460'

Injection Interval

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

Tubing size - lined with - set in a

packer

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

Other Data

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

| Gréenhill | Petroleum Corporation Lovington Paddock |
|---------------------------|---|
| · OPERATOR | LEASE |
| # 27 | 1960' FWL & 1980' FSL 31 16S 37E |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | |
| • | The Land Care Dates |
| • | Tubular Data |
| | Surface Casing |
| Completion 6-16-53 | Size: 13-3/8 ". Comented with 350, sx |
| | TOC: Surface: foot determined by calc |
| Converted to Injection | |
| 6/67 | 15% liole size: 17-1/4" |
| | Intermediate Casing |
| | Size: 8-5/8 " Cemented with 900 SX |
| | |
| | TOC: 656 foot determined by 50% cale |
| . • | gra Hole Size: 11" |
| | July Long String |
| | |
| • | Size: 5-1/2 " Cemented with 250 SX |
| • | TOC: 4692 43/6 feet determined by 80% cale |
| | Nole Size: 7-7/8" |
| | 5 ⁴) 62751 |
| | cosy Total Depth: |
| | TD Injection Interval |
| | 6080 feet to 6275 feet |
| | (perforated or open-hole, indicate which) |
| Tubing pize 2-3/ | /8" lined with IPC set in a |
| | (material) |
| (brand & mode) | packer at 6000 feet. |
| | other casing-tubing seal). |
| Other Data | |
| . Name of the 1 | Paddock njection formation |
| t, trame or the r | Paddock |
| !: Name of Field | or Pool (If applicable) |
| | well drilled for injection? No at purpose was the well originally drilled? Production |
| intervals and used. | ever be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| 4 | h to and name of any overlying and/or underlying oil or gas zones |
| | Glorieta |
| | |

| Greenhill Petrol OPERATOR | eum Corporation | Lovington San Andres Unit | | | |
|---|---|--|-----------------------------------|--|--|
| #14 WELL NO. | 1980 FSL & 818 FWL FOOTAGE LOCATION | 31 T165 SEC. TOWNSHIP | R375 RANGE | | |
| Completed 8/7/39 Converted to Injection 3/15/63 | Size: TOC: 10 3/4" Hole s 314' Intern Size: 75/4" TOC: 5000' Hole s | Tubular Data to Casing 10 3/4 ". Comented a Surface foot de size: 12 1/4 mediate Casing 7 5/8 " Cemented a 363.7 foot de Size: 9 1/4 String 5 1/2 " Cemented a 604' foot de | with 500 SX stermined by 50% calc | | |
| Tubing size 2 3/8 | 5087 Total | Depth: 5087' tion Interval 4530 feet to orated or open-hole, i | 5087foot ndicate which) | | |
| (brand & model) (or describe any other | packer | (material) at 4468.11 | foot. | | |
| Other Data | . • | | • | | |
| 1. Name of the injec | tion formation | San Andres | | | |
| 2. Name of Field or | Pool (IE applicable) | Lovington San | Andres | | |
| | l drilled for injecti urpose was the well o | | Production | | |
| 4. Has the well ever intervals and giv used. | be perforated in any plugging detail (sa | other zone(s)? List cks of cement or bridg | all such perforated to plug(s) | | |
| 5. Give the depth to (pools) in this a | and name of any over | lying and/or underlying | ng oil or gas zones | | |
| Under | lying - Grayburg | | | | |

| | Greenhill Pe | Lovington | Paddock | | |
|---|--------------|----------------------|---------|----------|-------|
| _ | OPERATOR | | LEASE | | |
| | #28 | 2108' FSL & 624' FWL | 31 | 168 | 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 /4

Intermediate Casing

Size:

Cemented with

SX

_ 95/8" 2092'

TOC:

• feet

feet determined by

Hole size:

Long String

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

TOC: 3869 feet determined by 70% calc

51/2" TO 6252' 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

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

| Texaco | · | State "O" | | | | |
|--------------|----------------------|-----------|----------|-------|--|--|
| OPERATOR | | LEASE | | | | |
| 10 | 440' FWL & 3080' FNL | 31 | 168 | 37E | | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | | |

Tubular Data

Completed Surface Casing 4-13-52 275 Size: 13-3/8" Cemented with 225 SX TOC: Surface feet determined by calc-Hole size: 18" 133/8 260' Intermediate Casing Size: 8-5/8" Cemented with 700 SX surface CITC TOC: 1046 feet determined by 50% cale 85/8" Hole size: 11" 3190' Long String Size: 5-1/2" Cemented with 775 SX TOC: 4298 feet determined by 80% calc 7-7/8" Hole size: TO 8520' 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.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

(Above) Drinkard



| Greenhill Pet | troleum Corporation | Lovington | Paddock | |
|-----------------|--|-----------------|-------------|-------|
| OPERATOR #33 | <i>片30</i> 1650' FSL & 40 0' FEL | LEASE 36 | 168 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |
| | | <u> Tubular</u> | <u>Data</u> | |
| | | | 034 | |

Completion 2-2-53 Deepened for

Inj. 12/66 6150-6237'

Converted to Injection 12/66

Surface Casing

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

TOC: Surface feet determined by gate Circ

Hole size: 13 3/2

Intermediate Casing

۱۵۶۶ Size:

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

Size: 7" Cemented with 400 SX

TOC: 3636 feet determined by 80% calc

Hole size: 8-3/4"

TO 6237' 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

DV

packer

at 5972 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

<u>Paddock</u>

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? <u>Production</u>

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.

| Greenhill Po | etroleum Corporation | Lovington | Paddock | |
|--------------|-----------------------|-----------|----------|-------|
| OPERATOR | • | LEASE | | |
| #32 | 1750' FSL & 1650' FEL | 36 | 165 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Surface Casing Spud Date 3-19-53 8-5/8" Cemented with 1000 SX Size: TOC: Surface feet determined by cate Cルし Hole size: // Intermediate Casing Cemented with SX Size: ል09ጎ 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: 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.

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

| | troleum Corp. | Louington Paddock |
|-----------------------------------|-----------------------------|---|
| OPERATOR | | , LEASE |
| O./ | | 255 501 :21 THE 0216 |
| 84 WELL NO. | //oo FEL ¢ 2 FOOTAGE LOC | 285 FSL '36 T/(5-P36 E ATION SEC. TOWNSHIP RANGE |
| TOM MUAN | | MIXON DEG. TORNSHIE MINOE |
| | • • | |
| • | • • | Tubular Data |
| • | | · Tright Fuch |
| | • | Surface Casing |
| | 111 | • |
| | | Sizo: 13 1/8 . ". Comented with 500 SX |
| | | TOC: Suface foot determined by calc |
| • | | 100: Surface 1886 UBEBLINITION by Care |
| ~p4/5/90 | 131/8 | Holo size: 17½ |
| • | 350 | |
| | | Intermediate Casing |
| | | Size: 8 5/8 _ " Cemented with |
| | | |
| | . 65/8 . | TOC: Suface foot determined by 50% ca |
| • | 3019 | |
| • | | Nole Size: // |
| | | Long String |
| | · . | |
| • | | Size: 51/2 " Cemented with 1040 SX |
| | 5/2 | TOC: 788 foot determined by 80% co |
| • | <u> </u> | TOC: 788 feet determined by 80% co |
| • | 70 6470 | Hole Size: 778 |
| | | |
| | • | Total Dopth: 6470 |
| | | |
| | | Injection Interval |
| | | foot to foot |
| • | • | (perforated or open-hole, indicate which) |
| | | |
| Tubing size | lined with | (material) set in a |
| • | | packer atfeet. |
| (brand & mode | 31) | Product to |
| | other casing-tubi | ng soal). |
| u.t to | . • • • • | |
| ther Data | | |
| . Nama of the 1 | Injection formatio | n |
| | | |
| . Name of Field | i or Pool (If appl | icablo) Lovington Paddock |
| • | | |
| | | injection? <u>No</u> |
| If no, for wh | iat purpose was th | o well originally drilled? <u>prod</u> |
| ling the well | avar ha parforate | d in any other zone(s)? List all such perforated |
| | | tail (sacks of coment or bridge plug(s) |
| used. | 4 1 00 and | |
| | | |
| Olam Man dans | the transmit was a few | and available and the and the last of the second |
| i. Give the dept (pools) in th | | any overlying and/or underlying oil or gas zones |
| | | |
| • | (About) GI | orieta |
| | . \ | |

| Greenhill Petro | leum Corporation | ~ | Lovingt | ton San Andi | es | |
|------------------------------------|--|-----------------|----------------|--------------------------|-----------------------|------------|
| OPERATOR | | | LEASE | | | |
| #54 ! | 1980' FSL & 1980' | FEL | 36 | 168 | 36E | |
| WELL NO. | FOOTAGE LOCA | TION | SEC. | TOWNSHIP | RANGE | |
| | | | Tut | oular Data | | |
| ud 1-7-63 | | Surface | Casing | • | | |
| m. 29 | , | Size: | <u>7-5/8</u> " | Cemented t | with 240 | sx |
| H | /a C ? . | TOC: | • | | termined by | |
| rp" | 1/2 C5. T 6 6 1608 25/8" 352. | Hole si | ze: <u>9-7</u> | • | · . | |
| 1201 15 | 76 | <u>Interme</u> | diate Casi | Lng | | |
| 1100 | | Size: | " | Cemented | with | sx |
| , , | | TOC: | | feet d | etermined by | |
| | • . | Nole Si | ze: | | | |
| | | Long St | ring | | | |
| | 5070' | Size:_ | 4-1/2 " | Cemented | with <u>235</u> | sx |
| | | TOC: | 2314 | feet d | etermined by | Temp surve |
| | . , | Hole Si | .ze: | 6-3/4" | | • |
| | ·. | | | 5110' | · | |
| | | Injecti | on Interv | <u>al</u> | · | |
| | • | 4662 (perfor | ated or o | _ feet to pen-hole, i | 5037 ndicate which | feet |
| Tubing size2 | 2" lined with | · | IPC | | | set in a |
| ? | | packer at | (mate: 4579 | rial) | feet. | |
| (brand & mode or describe any | el) other casing-tubing | , | | | | |
| ther Data | | • | | | | |
| . Name of the i | Injection formation | | an Andres | • | | |
| | d or Pool (If applie | | | ÷ | | |
| | w well drilled for a | | | | _ | |
| | ever be perforated d give plugging deta | | | | | forated |
| i. Give the dept (pools) in the | th to and name of an | ny overly | lng and/o | r underlyin | g oil or gas | zones |

| Greenhill | Petroleum · Corp. | State "P" Lavine For Paddeck |
|---------------------------------|--------------------------------|--|
| OPERATOR | • | LEASE |
| 83 | ·2310 FWL c'165 | 50 FSL Sec 36 7165-R36E |
| WELL NO. | FOOTAGE LOCA | ATION SEC. TOWNSHIP RANGE |
| | | • |
| • | • | Tubular Data |
| • | • | |
| • | 111 | Surface Casing |
| | | Sizo: 13 1/8. ". Comented with 245 SX |
| | | TOC: feet determined by |
| mpleted | 133/9 | llole size: /8 |
| 10/11/52 | . -" | Intormediate Casing |
| 3 P | | |
| 6 400 40 TD 6276 | | Size: 87/8 " Comented with 1200 SX |
| ~ 9BTD 6370 1/20/1 | 3.60 II | TOC: feet determined by 5070 c. |
| • | 45/8 | Hole Size: // |
| | 1290 | Long String |
| | | Size: 5½ " Cemented with 900 SX |
| · | PBTD 6370 | TOC: 355/ feet determined by 80% cal |
| • | Lind | • |
| • | 8424 | Holo Size: 77/8 |
| • | | Total Depth: 8454 |
| | • | Injection Interval |
| • | • | |
| | | (perforated or open-hole, indicate which) |
| maliforn after | 71,000 | and to a |
| runing size | lined with | (material) set in a |
| (brand & mode | 1) | packer atfoot. |
| | other casing-tubi | ng seal). |
| Other Data | | |
| • | | |
| L. Name of the | injection formation | n |
| 2. Namo of Fial | d or Pool (If appl | icable) Louing ton 160 |
| | | injection? No production . |
| llas the well | ever be perforate | d in any other zone(s)? List all such perforated |
| intervals and used. | a give plugging de | tail (sacks of cement or bridge plug(s) |
| | | |
| 5. Give the dep (pools) in t | th to and name of his area. | any overlying and/or underlying oil or gas zones |
| | • | Glorieta |

| OPERATOR 2 3630' FNL & 330' FEL 36 16S 36F WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE Tubular Data Surface Casing Size: 13-3/8" Comented with 350 TOC: Surface feet determined by cal | . |
|--|----------------|
| Tubular Data Surface Casing Size: 13-3/8". Comented with | - . |
| Tubular Data Surface Casing Surface Casing Size: 13-3/8". Comented with | |
| Surface Casing Surface Casing Size: 13-3/8". Comented with | |
| Tubular Data Surface Casing Size: 13-3/8". Comented with | |
| Surface Casing Surface Casing Size: 13-3/8". Comented with | |
| Size: 13-3/8". Comented with | |
| Size: 13-3/8". Comented with | • |
| A 6-26-73 Size: 13-3/8". Comented with | |
| TOC: Surface feet determined by call | sХ |
| | • |
| | <u>c</u> |
| . liole mize: | |
| liner 4823 - 8459 | |
| w 400 sk. Intermediate Casing | |
| | ev. |
| reviewsly a Size: 9-5/8" " Comented with 3000 | οΛ |
| problem well TOC: Surface foot determined by cal | <u>c</u> |
| urforate Csy at | |
| 400' squeeze well lole Size: 12-1/4" | |
| with 50 to 60 sy . 4688- Long String | |
| · vnc | |
| Spot 16 Sx Surface 95/8 Size: 7 " Comonted with 400 | SX. |
| 11ng - 5/8/91 4971 | _ |
| TOC: 5820 feet determined by C 10 | <u> </u> |
| 6059 Ello 10 10 10 10 10 10 10 10 10 10 10 10 10 | • |
| 2011 | |
| 8148 - Total Depth: 8460' | |
| 8185 54 8459 | |
| TIX LTP Injection Interval | |
| 8460 — feet to — fee | ե. |
| (perforated or open-hole, indicate which) | ٠, |
| | |
| Tubing size lined with set in (material) | , a |
| packer atfeet. | |
| (brand & model) | |
| or describe any other casing-tubing seal). | |
| Other Data | |
| ocijer paca | |
| L. Name of the injection formation | |
| | |
| 2. Name of Field or Pool (If applicable) Lovington Abo | |
| To this a pay yell delled for intention? No | • |
| Is this a new well drilled for injection? RO Production Production | |
| TE TO FAT HEAD ANTHARD HAS CHO MATE ATTRIBUTED ATTRIBUTE | |
| 4. Ilas the well ever be perforated in any other zone(s)? List all such perforate | ad |
| intervals and give plugging detail (sacks of coment or bridge plug(s) | |
| used. | |
| | |
| 5. Give the depth to and name of any overlying and/or underlying oil or gas zone | S |
| (pools) in this area. | |
| . Λbove Drinkard | |

| Greenhill Pet | Greenhill Petroleum Corporation | | Lovington Paddock | |
|---------------|---------------------------------|-------|-------------------|-------|
| OPERATOR | | LEASE | | |
| #29 | 2130' FSL & 2130' FWL | 36 | 165 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completed Surface Casing 10-11-53 Size: 8-5/8" Cemented with 975 SX Converted to TOC: Surface feet determined by cate (110 Injection 10/75 Hole size: 11" Intermediate Casing 85/8" Cemented with SX Size: 2080' TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 275 SX TOC: 4574 feet determined by 80% calc 5/2" Hole size: 7-7/8" 6012' Total Depth: 6256' TO 6256' Injection Interval

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

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

packer

at 5992 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

- 2. Name of Field or Pool (If applicable) Paddock
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- 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

| Gities Ser | Gities Service Penroc | | /E | |
|-----------------------|-----------------------|-------|-------------|-------|
| OPERATOR | | LEASE | | |
| 2 Y | 1420' FSL & 990' FWL | 36 | 168 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Surface Casing Size: 13-3/8" Cemented with 350 SX TOC: Surface feet determined by calc-Hole size: 17-1/2" 133/8 303 Intermediate Casing Size: 8-5/8" Cemented with 1800 TOC: Surface feet determined by calc 85/8" 3328' Hole size: 12-1/4" Long String Size: 5-1/2" Cemented with 1330 SX TD 85/0' temp. survey feet determined by 80% calc Hole size: 7-7/8" Total Depth: 8510' Injection Interval

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

Tubing size - lined with - set in a - packer

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

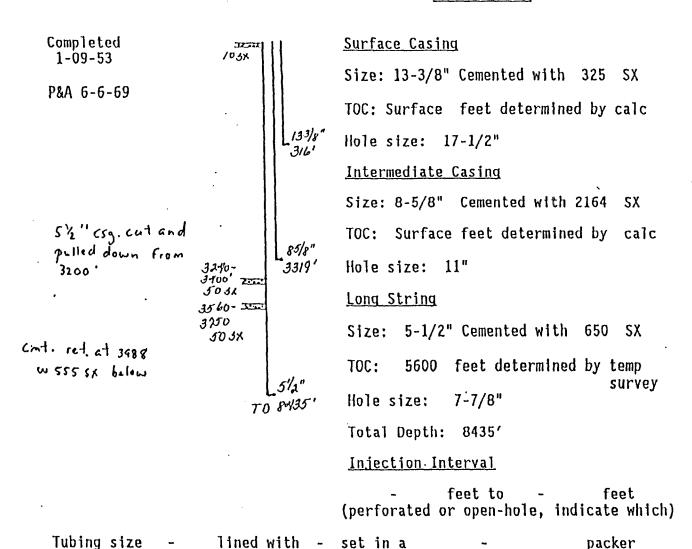
Other Data

- 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

| | Cities Serv | ice | State Al | 5 | | |
|---|-------------|-----------------------|----------|----------|-------|--|
| - | OPERATOR | | LEASE | | | |
| | 2 | 3630' FNL & 4290' FEL | 36 | 168 | 36E | |
| | WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data



Other Data

at

1. Name of the injection formation:

feet.

- 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.

(Or describe any other casing-tubing seal):

(Above) Drinkard

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

| | troleum Corporation Lovington Paddock |
|---------------------|---|
| OPERATOR | LEASE |
| | 1650' FSL & 890' FWL 36 16S 36E |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | |
| | Tubular Data |
| nud Dato | Surface Casing |
| pud Date 2-16-53 | Size: 13 3/8 " Comented with 350 sx |
| eepen to 6295 | TOC: Surface feet determined by calc |
| | |
| | 340' Intermediate Casing |
| | Size:8 5/8 " Cemented with 2300 SX |
| | TOC: Surface feet determined by calc |
| | 3316' Hole Size: |
| | Long String |
| | Size: 5 1/2" Cemented with 400 SX |
| • | TOC: 4350 feet determined by temp s |
| | Hole Size: 7 78 |
| | 5 1/2 11 Total Depth: 6204' |
| • • | Injection Interval |
| | TD 6204' 6080 feet to 6295 feet |
| | (perforated or open-hole, indicate which) |
| ubing size2 | 2 3/8 lined with set in a |
| Baker AD-1 P | (material) 6050 |
| (brand & mod | packer attest. |
| • | other casing-tubing seal). |
| her Data | |
| Name of the | injection formation Paddock |
| Name of Fiel | d or Pool (If applicable) Paddock . |
| | w well drilled for injection? hat purpose was the well originally drilled? |
| | ever be perforated in any other zone(s)? List all such perforated d give plugging detail (sacks of cement or bridge plug(s) |
| used. | No |
| | |

| | | etroleum Corporation | | | on San Andre | s | |
|-------------|---------------------------|--|-----------|-----------------|----------------|-----------------------|---|
| | OPERATOR | | | LEASE | | | • |
| | | 1980' FSL & 660' F | | | | 36E | |
| | WELL NO. | FOOTAGE LOCA | TION | SEC. | TOWNSHIP | RANGE . | |
| | | | | | | | |
| | • | | | Tu | bular Data | | |
| | leted | | Surface (| Casing | • • | | |
| 6-2 | | | Size: 8- | 5/8~ | Comented w | 1th <u>825</u> | sx · |
| | | | TOC: Su | rface | feet de | termined by | circ |
| | | | llole siz | e: | 11" | · | |
| | | | Intermed | <u>late Cas</u> | ing | | |
| | | | | | Cemented t | vith | sx |
| | | 898" | TOC: | | feet d | etermined by | * <u></u> |
| | | | Hole Siz | e: | | have the second | |
| | | | Long Str | ing | | | |
| | | | Size: 4 | -1/2 ' | Cemented | with <u>450</u> | sx |
| • | , | | TOC:3 | 581 | feet d | etermined by | -calc |
| | • | L5660' 472" | Hole Siz | e: | 7-7/8" | | |
| | | · · To | Total De | pth: | 5060 | | • |
| | | | Injection | n Inter | val | | |
| • | | | 466 | | feet to | 5034 ndicate which | feet h) |
| Tul | oing size | 2" lined with | | • | IPC | • | set in a |
| | alliburton R- | | packer at | • | erial) 4619 | | |
| (or | (brand & mod describe any | | _ | | | | |
| | er Data | · | | · | | | |
| | | injection formation | | San / | Andres | | |
| 2. | | d or Pool (If appli | | | | 5 | *************************************** |
| 3. | | w well drilled for | | 11 - | | | |
| •• | If no, for w | hat purpose was the | well orig | ginally | drilled? P | roduction | · |
| 4. | | . ever be perforated nd give plugging det | • | | • • | - | forated |
| 5. | Give the dep | oth to and name of a | ny overly | ing and/ | or underlyin | ng oil or gas | zones |

Underlying-Grayburg

| OPERATOR | . Lease |
|---|---|
| · | |
| 1 4950' FNL (| 4290' FEL 36 165 36F |
| | LOCATION SEC. TOWNSHIP RANGE |
| | |
| • • | |
| | Tubular Data |
| Completed | Surface Casing |
| 11-1-52 | Sizo: 13-3/8 ". Comented with 350 sx |
| • [] | |
| | TOC: Surface feet determined by calc |
| : [[] | 13 ³ /8 Hole size: 17-1/4" |
| | 314 |
| | Intermediate Casing |
| | Size: 8-5/8 " Comented with 1900 SX |
| | rog. Surface from deband by ' only |
| . | TOO: Surface foot determined by calc |
| • | Nole Size: 11" |
| | 350 Long String |
| <u> </u> | |
| | Size: 5-1/2 " Cemented with 400 SX |
| | TOC: 6251 foot determined by 80% ca |
| ! | Hole Size: 7-7/8" |
| 51/2 | 11 |
| | 430 Total Dopth: 8430' |
| | Injection Interval |
| | |
| | (perforated or open-hole, indicate which) |
| | |
| Tubing size lined | with sot in a |
| - | (material) packer at foot. |
| (brand & model) | |
| (or describe any other casing- | tubing seal). |
| Other Data | |
| 1. Name of the injection form | until an |
| I, hamo of the injection form | |
| 2. Name of Field or Pool (If | applicable) Lovington Abo |
| 3. Is this a new well drilled | for injection? |
| If no, for what purpose we | is the well originally drilled? Production |
| | |
| | rated in any other zone(s)? List all such perferated ig detail (sacks of coment 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 | |

| #26 | 660 FSL & 1980 FWL 36 T16S R36E |
|----------------|--|
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | |
| | Tubular Data |
| | Surface Casing |
| | Size: 13 " Comented with 200 s |
| | TOC: Surface feet determined by circ |
| | liole size: 15" |
| | 13" Intermediate Casing |
| Completed | Size: 85/8 " Cemented with 400 S |
| 12/3/39 | TOC: 390 feet determined by 70% cal |
| • | Nole Size: 9 7/8" |
| • | Long String |
| • | 8 1/2" Comented with 200 s |
| · | TOC: 3200' est. feet determined by calc |
| • | |
| | 5½" llole Size: 6 3/4" |
| | -14520' Total Depth: 5128' |
| | _ TD 5128' Injection Interval |
| • | (perforated or open-hole, indicate which) |
| white size | lined withset in |
| | (material) |
| (brand & model | |
| • | ther casing-tubing seal). |
| hor Data | |
| Name of the in | jection formation San Andres |
| Name of Field | or Pool (IE applicable) Lovington San Andres |
| | well drilled for injection? No t purpose was the well originally drilled? Production. |
| | ver be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| No | |

· Underlying - Grayburg

| Greenhill Pet | roleum Corporation | Lovington | Paddock | | |
|---------------|----------------------|-----------|----------|-------|--|
| OPERATOR | | LEASE | | | |
| #41 | 810' FSL & 2130' FWL | 36 | -165 | 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:

<u>Intermediate Casing</u>

85/8° 2048' Size:

Cemented with

SX

TOC:

C: feet determined by

llole size:

Long String

Hole size:

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

TOC: 4700 feet determined by temp

survey

5/2"

Total Depth: 6260'

TO 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:

No

- 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? <u>Production</u>
- Has the well ever 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.

| Texaco | | State | "R" | |
|----------|----------------------|-------|----------|-------|
| OPERATOR | | LEASE | | |
| 5 | 330' FSL & 2310' FWL | 36 | 168 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completed 6-30-52

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 18"

Intermediate Casing

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

TOC: 900 feet determined by 50% calc

Hole size: 12-1/4"

Long String

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

TOC: 4093 feet determined by 80% calc

Hole size: 7-7/8"

" note size: 1-1/o

Total Depth: 8450'

<u>Injection Interval</u>

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

packer

Tubing size - lined with - set in a -

TO 8450'

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

240

85/8"

3350'

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? <u>Production</u>
- 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

| Greenhill Pe | troleum Corporation | Lovington | Paddock | |
|--------------|----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | |
| #40 | 1980' FEL & 810' FSL | 36 | 165 | ' 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

_85/8" 2043'

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 /8

_5'/2" 6009'

D 6252'

Total Depth: 6252'

Injection Interval

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

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

packer

at 5881 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

<u>Paddock</u>

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? <u>Production</u>

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

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

| Texaco | | Skelly " | Q" State | |
|----------|----------------------|----------|----------|-------|
| OPERATOR | | LEASE | | |
| 4 | 330' FSL & 1650' FEL | 36 | 168 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

<u>Tubular Data</u>

| Completed 4-23-52 | 111 | Surface Casing |
|-------------------|-----------------|---|
| 4-23-32 | | Size: 13-3/8" Cemented with 265 SX |
| | | TOC: Surface feet determined by calc |
| · | 133/8" | Hole size: 18" |
| | | <u>Intermediate Casing</u> |
| | 85/8° 334/3' | Size: 8-5/8" Cemented with 800 SX |
| | 33431 | Size: 8-5/8" Cemented with 800 SX Surface Circ TOC: 798 feet determined by 50% calc |
| | | Hole size: 11" |
| | | Long String |
| | | Size: 5-1/2" Cemented with 800 SX |
| | 5'/2" | TOC: 4077 feet determined by 80% calc |
| | TO 8435' | Hole size: 7-7/8" |
| | | Total Depth: 8435' |
| | | <u>Injection Interval</u> |
| | | |

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

Tubing size lined with - set in a packer

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
- 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

| | Greenhill Pet | roleum Corporation | Lovington | Paddock | | |
|---|---------------|---------------------|-----------|----------|-------|--|
| | OPERATOR | | LEASE | | | |
| | #39 | 810' FSL & 660' FEL | 36 | 16\$ | 36E | |
| - | WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data

Surface Casing 8-5/8" Cemented with 900 SX Size: TOC: Surface feet determined by calc Circ Hole size: // Intermediate Casing 85/8" Cemented with SXSize: 2040' TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 275 SX TOC: 4632 feet determined by temp survey "ג'ל Hole size: 6017 Total Depth: 6229' TO 6229 Injection Interval

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

packer

Tubing size - lined with - set in a -

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

Other Data

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

| Green | ill Petroleum Corporation Lovington San Andres COR LEASE |
|---------------------|--|
| #24 WELL | 660' FEL & 660' FSL 36 16S 36F |
| | Tubular Data |
| Completed 9-8-39 | Surface Casing Size: 13 " Cemented with 250 SX |
| | TOC: Surface feet determined by circ Solution Surface Surfa |
| | TOC: 1458 feet determined by calc 2990' 85/9" Hole Size: 12-174" 7 // |
| | Long String Size: 5-1/2 " Cemented with 250 SX 45/5" TOC: 3145 feet determined by calc |
| <i>,</i> | Hole Size: 7=7/8" / /-/ 5075' TO Total Depth: 5075' |
| | Injection Interval feet to feet (perforated or open-hole, indicate which) |
| (brand | lined with set in a material) packer at feet. |
| Other Data | |
| 1. Name of | the injection formation |
| | Field or Pool (If applicable) Lovington San Andres |
| 3. Is this | a new well drilled for injection? No For what purpose was the well originally drilled? Production |
| | well ever be perforated in any other zone(s)? List all such perforated is and give plugging detail (sacks of cement or bridge plug(s) |
| | depth to and name of any overlying and/or underlying oil or gas zones in this area. Underlying-Grayburg |

| | Техасо | Skelly "Q" State |
|------|--|---|
| • | OPERATOR | LEASE |
| | 3 | 330' FSL & 330' FEL 36 16S 36E |
| | WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | • | • |
| | | Tubular Data |
| | | Surface Casing |
| | , ' | Sizo: 13 |
| | | TOC: Surface feet determined by calc |
| | | lole size; 18" |
| | | Intermediate Casing |
| | | Size: 8-5/8 " Cemented with 1750 SX |
| | | TOC: Surface feet determined by calc- |
| | | Nole Size: 12-1/4" |
| | • | Long String |
| | | Size: 5-1/2 " Comented with 739 SX |
| • | | TOC: 4037 feet determined by Haliburt |
| | • | liole Size: 7-7/8" |
| | | 5 V2 10844 7 Total Depth: 8442' |
| | • • • | Injection Interval |
| | | feet to feet |
| | | (perforated or open-hole, indicate which) |
| Tul | oing size | lined with set in a |
| | | (material) |
| • | (brand & model) | packer atfeet. |
| (or | describe any other | casing-tubing soal). |
| Othe | or Data | • • |
| 1. | Name of the inject | |
| 2. | Name of Field or P | ool (If applicable) Lovington Abo |
| 3. | Is this a new well If no, for what pu | drilled for injection? No Production rpose was the well originally drilled? |
| .4. | | be perforated in any other zone(s)? List all such perforated plugging detail (sacks of cement or bridge plug(s) |
| 5. | | and name of any overlying and/or underlying oil or gas zones |
| • | (pools) in this ar Above Drinka | |
| | ADO, TO DIAMA | |

| Greenhill Pet | roleum Corporation | Lovington | Paddock | |
|---------------|---------------------|-----------|----------|-------|
| OPERATOR | , | LEASE | | |
| . #38 | 810' FSL & 665' FWL | 31 | 165 | 37E |
| · WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completed 6-28-53

Converted to Injection 1-71 Surface Casing

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

CIrc

TOC: Surface feet determined by calc

Hole size: 12-1/4"

Intermediate Casing

95/8" 20901 Size:

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

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

TOC: 3316 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6252'

TO 6252

Injection Interval

6220 feet to (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

2. Name of Field or Pool (If applicable) <u>Paddock</u>

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

Ilas the well ever 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.

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

Tubular Data

Completed Surface Casing 12-8-51

3013 Size: 13-3/8" Cemented with 650 SX

TOC: Surface feet determined by calc

133/8"

Hole size: 18"

Intermediate Casing

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

TOC: Surface feet determined by

95/8" 5135

315

Hole size: 12-1/4"

Long String

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

4959 feet determined by 80% calc TOC:

51/4" TO 8500'

7-7/8" Hole size:

Total Depth: 8500

Injection Interval

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

lined with - set in a Tubing size

packer

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

Other Data

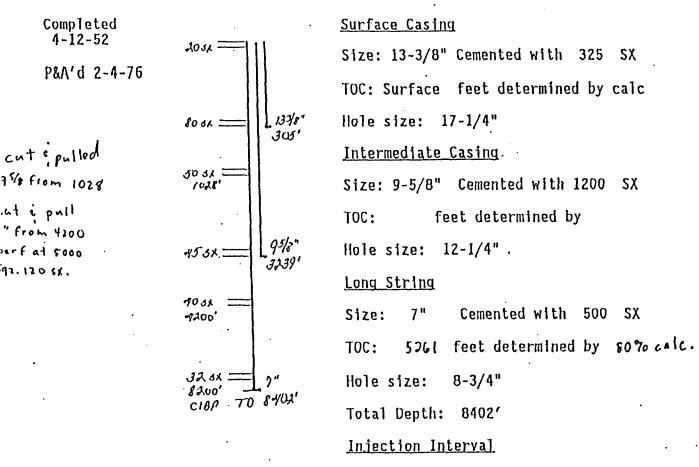
- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Abo 2.
- Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

(Above) Drinkard

| Greenhill Petr OPERATOR | oleum Corporation | Lovingt LEASE | on San Andr | es Unit | |
|---|--|------------------|----------------------------|----------------------------|--------------------------|
| #22 WELL NO. | 330 FSL & 1650 FWL FOOTAGE LOCATION | sec. | T16S TOWNSHIP | R73E RANGE | • |
| | | Tul | ular Data | | |
| | TOC: _ | Surface | , ., . | otti <u>200</u> | _ |
| Commission | Inter | nediato Cas | ing | with500 | sx |
| Completed 11/19/55 Deepened to 4917 6/8/66 | 95% TOC: | 1369 | | etermined by | |
| Deepened to 5086 2/4/86 | 4525' Size: | | | w1th | |
| • | deepened liole 4417 6-8-66 TO 5086 Total | Size: | 83/4 | etermined by 5086 | δην calc |
| Tubing size | (porf | . <u> </u> | feet to | ndicate which | foot h) . sot in a |
| (brand & model) (or describe any otl | packer ner casing-tubing seal) | at | rial) | feet. | • |
| Other Data | | | | · | |
| 1. Name of the inj | ection formation | San | Andres | | <u> </u> |
| 2. Name of Field of | r Pool (If applicable) | Lov | ington San / | Andres | |
| | ell drilled for injecti purpose was the well o | | | Productio | on |
| 4. Has the well evintervals and gused. | or be perferated in any ive plugging detail (se | other zone | o(s)? List ont or bridg | all such por 30 plug(s) | forated |
| | to and name of any over | :lying and/ | or underlyin | ng oil or gas | zones |
| | erlying - Grayburg | · | • | | |

| Arco | | State 182 "A" | | | | |
|------|----------|-------------------------|-------|----------|-------|--|
| | OPERATOR | | LEASE | | | |
| | 3 | 1959.54' FWL & 660' FSL | 31 | 165 | 37E | |
| _ | WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data



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

(Above) Drinkard

| Greenhill Pet | roleum Corporation | Lovington | Paddock | | |
|-------------------|----------------------|-----------|----------|-------|---|
| OPERATOR | | LEASE, | | | |
| #37 | 330' FSL & 2290' FWL | 31 | 16\$ | 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 calc

Hole size: 171/2

Intermediate Casing

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

TOC: 1235 feet determined by temp survey

Hole size: //

Long String

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

TOC: 4290 feet determined by temp

Hole size: 77/8

Total Depth: 6250'

Injection Interval

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

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

packer

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

133/8

3279'

51/2" 6054'

TO 6250

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? <u>Production</u>
- 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

No

| Texaco | | State "O" | | · |
|----------|----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | |
| 11 | 330' FSL & 2310' FEL | 31 | 168 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Surface Casing Size: 13-3/8" Cemented with 240 SX TOC: Surface feet determined by calc Hole size: 18" 133/2" 27/0' Intermediate Casing Size: 8-5/8" Cemented with 800 SX TOC: 899 feet determined by 50% calc 85/3" 3350 Hole size: 12-1/4" Long String 5-1/2" Cemented with 850 SX Size: TOC: 3809 feet determined by 80% calc 7-7/8" Hole size: TO 8440' 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? <u>Production</u>
- Has the well ever 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

| Greenhill Pet | troleum Corporation | <u>, , , , , , , , , , , , , , , , , , , </u> | Loving | ton San Andr | <u>es Unit</u> | |
|--------------------------------------|---|---|--|------------------|----------------|--------------------------|
| #21 WELL NO. | 2310 FEL & 660 FOOTAGE LOCA | | | T165 TOWNSHIP | R31E RANGE | |
| | | | rul | bular Data | · | |
| | | Surface | Casing | VIII NOCA | | , |
| | 1 1 1 | | | . Comented's | .' | 200 175 sx |
| , , | | | | feet d | | circ. |
| | 302 | llola #1 | ze: | · 15 | | |
| | . | Intorme | diate Cas | ing | | |
| Completed | | Size: | 8 5/8 ~ | Cemented. | with | - 500 - 400 - 5X |
| 9/20/39 | F 301D1 | TOC: | 1784 | feet d | otermined | by 50% calc |
| | | Role Si | ze: <u>10</u> | ¥ 9 7/8. | | |
| | | Long St | ring | | • | |
| | 4570' | Size: | 5 1/2 ~ | Comented | | 2,00. 150 sx |
| | } | TOC: | -1626 6 | 42 feet d | letermined | by 80% calc |
| • | 5032 | Nole Si | .zo: | 6 1/4 | - | , |
| | | Total D | epth: | 5032 ' | | |
| | • | | on Inter | | • | |
| | | (perfor | ated or | feet to | Indicate w | foot . |
| Tubing sizo | lined with | | | | • | set in a |
| <u> </u> | - . , | , packer at | (mate | erial) | fee | .: .t. |
| (brand & model (or describe any o | .) | •. | | | | |
| Other Data | · • • • • • • • • • • • • • • • • • • • | | | · | • | |
| 1. Name of the in | ijection formation | • | | • | | • |
| 2. Name of Field | or Pool (IE appli | cable) | · <u>· </u> | Lovington Sa | an Andres | |
| | well drilled for at purpose was the | | | No drilled? | Pro | oduction |
| | over be perforated give plugging det | | | | | |
| 5. Give the depth (pools) in thi | ı to and name of a | ny overly | ying and/ | or underlyi | ng oil or | gas zones |
| • | Underlying - Gray | burg . | | • | | |

| Greenhill I | Petroleum Corporation | Lovington | Paddock | |
|--------------|-----------------------|-----------|----------|-------|
| OPERATOR | | 1 LEASE | | |
| #36 | 660' FSL & 2160' FEL | 31 | 168 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completed Surface Casing 12-3/53 Size: 8-5/8" Cemented with 1475 SX Converted to Injection 1/71 TOC: Surface feet determined by calc Hole size: 11" Intermediate Casing Size: Cemented with SX 85/8" TOC: feet determined by 3/45' Hole size: Long String Cemented with 400 Size: 5-1/2" 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
- Ilas the well ever 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

| Texaco | | State "0 | | |
|--------------|---------------------|----------|----------|-------|
| OPERATOR | | LEASE | | |
| 23 | 990' FSL & 660' FEL | 31 | 165 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completed 11-6-54

Surface Casing

Size: 8-5/8" Cemented with 1575 SX

TOC: Surface feet determined by calc

Hole size: 11"

Intermediate Casing

Size:

Cemented with

SX

TOC:

feet determined by

85/8" 3162'

Hole size:

Long String

Size: 5-1/2" Cemented with 875 SX

TOC: 3673 feet determined by 80% calc

Hole size: 7-7/8"

15%"

TO 8440'

Total Depth: 8440'

Injection Interval

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

Tubing size - lined

lined with - set in a

packer

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

Other Data

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

(Above) Glorieta

| | Greenhill Petroleum Corporation | | | /ington | Paddock | | | |
|----|---------------------------------|---------------------|---|---------|----------|-------|--|--|
| 7, | OPERATOR | | | LEASE | | | | |
| | #35 | 810' FSL & 810' FEL | • | 31 | 165 | 37E | | |
| | WELL NO. | FOOTAGE LOCATION | | SEC. | TOWNSHIP | RANGE | | |

<u>Jubular Data</u>

Spud Date Surface Casing 3-20-54 Size: 8-5/8" Cemented with 975 SX CIrc TOC: Surface feet determined by calc Hole size: | 85/8" Intermediate Casing 2048 Size: Cemented with SX TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 585 SX 51/2" TOC: 3225 feet determined by temp 6078' survey Hole size: 7 1/2 TO 6262' Total Depth: 6262' Injection Interval

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

Tubing size $^{2}\%$ lined with $^2\%$ set in a

. packer

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

Other Data

1. Name of the injection formation:

Paddock

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

No

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

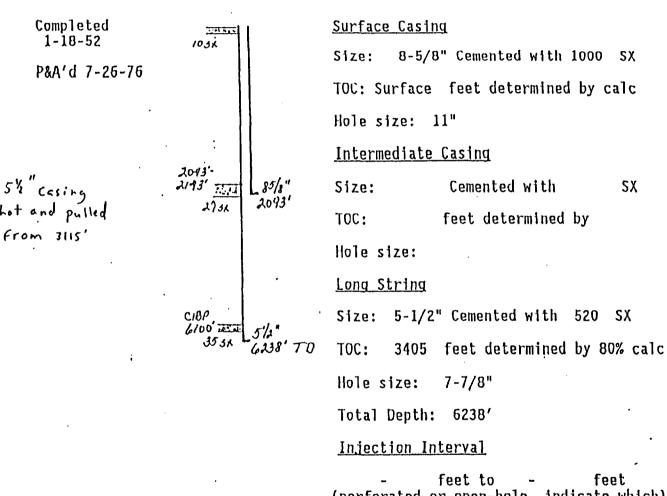
Above Glorieta

| Greenhill Pe | troleum Corporation | Loving | ton San Andres | | |
|--|--|--|-----------------------------------|--------------------------|-------------|
| OPERATOR | | LEASE | | , | |
| | 339' FNL & 1890' FM | | 175 | 37E | - |
| WELL NO. | FOOTAGE LOCA | rion sec. | TOWNSHIP. | RANGE | • . |
| | | | | | |
| | | 1 | Cubular Data | | |
| Completed 5-4-39 | 1 1 1 | Surface Casing | | ; i | |
| 5-4-59 . | | Size: 13 | _~ Comented w | Lth <u>200</u> | sx |
| | | TOC: Surface | feet de | termined by _ | circ |
| _ | 323' | Hole size: | 17-1/4" | | |
| Deepen to 5040 | 13" | Intermediate C | asing | | |
| | | Size: 9-5/8" | Cemented w. | ith 400 | sx |
| | | TOC: 1644 | feet de | termined by | calc |
| | _2450' | Hole Size: | 12" | · | |
| | 95/8" | Long String | | | |
| | | Size:7 | Cemented w | 1th <u>300-</u> | SX |
| • | • • | TOC: 1789 | feet de | termined by | calc |
| | y570' | Hole Size: | 8-3/4" | | • ,• |
| | \[\frac{1}{7}\] | Total Depth: | 4942' | | |
| | 4942 | Injection Inte | rval | • | |
| | To | 4570 - (perforated or | feet to | | feet |
| Tubing size $\hat{\imath}$ | % "- lined with | JPC_ | | | et in a |
| , | | • | terial): | • | |
| (brand & mode | el) | acker at | 43 20 | feet. | |
| (or describe any | other casing-tubing | g seal). | | • | |
| Other Data | • | • | | | • |
| 1. Name of the | injection formation | — Sar | Andres | | |
| 2. Name of Field | d or Pool (If applie | cable) Lovingt | ton San Andres | · | |
| | w well drilled for that purpose was the | | drilled? Pro | oduction | |
| 4. Has the well intervals an used. | ever be perforated d give plugging deta | in any other zo | one(s)? List a ement or bridge | ill such perf plug(s) | orated |
| 5. Give the dep (pools) in t | th to and name of an | ny overlying and | i/or underlying | ; oil or gas | zones |
| | rlying-Grayburg | | • | · | |
| 6 10 10 10 10 10 10 10 10 10 10 10 10 10 | | ······································ | | | |

| | <u>etroleum Corporatio</u> | on Lovington San Andres Unit LEASE |
|----------------------------------|--------------------------------|--|
| OPERATOR | | |
| #19 WELL NO. | 1980 FNL & 231 FOOTAGE LOCA | 10 FEL 32 T16S R37E ATION SEC. TOWNSHIP RANGE |
| | | Tubular Data |
| | | Surface Casing |
| | | • |
| | | 1, |
| • | 1. 219' | TOC: Surface feet determined by calc |
| | | Nole size: 17 1/4 |
| · | 85/3" | Intermediate Casing Size: 8 5/8 " Cemented with 300 SX |
| | 2// 3' | |
| Completed 1/5/46 | | TOC: 1193 feet determined by 50% calc |
| · | | Hole Size: 11 |
| | 51/4" | Long String |
| • | {- 4617' {. · | Size: 5 1/2 " Comented with 300 SX |
| • | 1996' 7D | TOC: 2982 feet determined by 80% calc |
| | | Hole Size: 7 7/8 |
| | | Total Depth: 4946' |
| . · · | | Injection Interval |
| | | feet to feet (perforated or open-hole, indicate which) |
| Tubing size | lined with | sot in a |
| | | (material) packer atfeet. |
| (brand & mode (or describe any | ol) other casing-tubin | ng soal). |
| Other Data | • • | · |
| 1. Name of the i | Injection formation | n San Andres |
| 2. Namo of Field | i or Pool (If appli | icable) <u>Lovington San Andres</u> |
| | | injection? No |
| | | e well originally drilled? Production |
| | d give plugging det | d in any other zone(s)? List all such perforated tail (sacks of cement or bridge plug(s) |
| 5. Give the depty (pools) in the | th to and name of a | any overlying and/or underlying oil or gas zones |
| | Underlying - Grayb | bura |

| Texaco | | , | | State "P | 11 | | |
|--------|---------|--------------|-----|----------|----------|-------|---|
| OPERA | ror | | | LEASE | | | |
| 5 | 330′ | FSL & 330' | FWL | 32 | 168 | 37E | |
| WELL I | 10. FOO | OTAGE LOCATI | ON | SEC. | TOWNSHIP | RANGE | • |

Tubular Data



(perforated or open-hole, indicate which)

lined with set in a packer

(Or describe any other casing-tubing seal).

Other Data

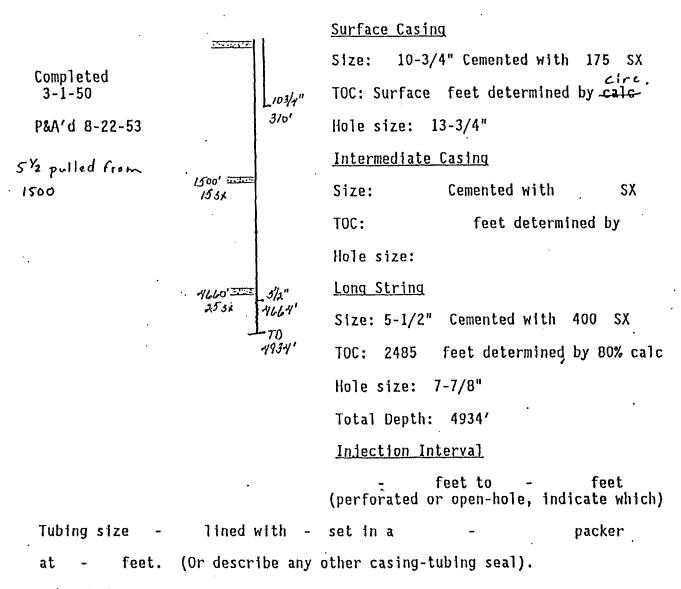
- Name of the injection formation:
- Name of Field or Pool (If applicable) Lovington Paddock 2.
- Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals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

| Texaco ` | State "V" |
|---|--|
| OPERATOR | LEASE |
| WELL NO. | 660' FWL & 660' FNL 5 17S 37E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| Completed | Purface Carlow |
| 6-20-52 | Surface Casing |
| . , | Sizo: 13-3/8 ". Comented with 350. SX |
| | TOC: Surface foot determined by calc |
| 5½" liner | .: |
| 4803-11063. | 13% Intermediate Casing |
| To C 7010 f; le | |
| 6-20-55 | TOC: Surface foot determined by calc |
| Sqz liner fro | M 2007 2007 2007 2007 |
| 6648 - 8620 m 2 | 80 Sx llolo Size: |
| TOC 5740 | Long String |
| • | 4984 Size: 5-1/2 " Comented with 732 SX |
| | TOC:foot determined by |
| | Hole Size: 7-7/8" |
| | 57," Total Depth: 11,063' |
| | TO 11063 Injection Interval |
| | |
| | (perforated or open-hole, indicate which) |
| Tubing size | lined with set in a |
| | (material) |
| (brand & model) | |
| (or describe any ot | her casing-tubing seal). |
| Other Data | |
| 1. Name of the inj | ection formation |
| 2. Name of Field o | r Pool (If applicable) East Lovington (Penn) |
| • | No |
| 3. Is this a new war. If no, for what | purpose was the well originally drilled? Production |
| 4. Ilas the well ev | er be perforated in any other zone(s)? List all such perforated ive plugging detail (sacks of coment or bridge plug(s) |
| *************************************** | |
| 5. Give the depth (pools) in this | to and name of any overlying and/or underlying oil or gas zones area. |
| . Ур | ove Λbo |

| E. F. Moran Inc. | | Shipp State "A" | | |
|------------------|---------------------|-----------------|----------|-------|
| OPERATOR | | LEASE | | |
| 1 | 330' FNL & 330' FWL | 5. | 175 | 37E |
| WELL NO | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

<u>Tubular Data</u>



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.

| Greenhill Po | etroleum Corporation | Lovington Paddock | |
|--------------|----------------------|-------------------|---------|
| OPERATOR | | LEASE | |
| #53 | 330' FNL & 840' FEL | 6 178 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. TOWNSIII | P RANGE |

Tubular Data

| Spud Date 10-52 | 111 | Surface Casing |
|--------------------|------------|--|
| 10-52 | | Size: 13-3/8" Cemented with 250 SX |
| | | TOC: Surface feet determined by calc |
| | 133/2" | liole size: |
| • • | 258' | Intermediate Casing |
| | · | Size: 8-5/8" Cemented with 2100 SX |
| | | TOC: 808 feet determined by temp |
| 1: | 85/8" | liole size: |
| | 2000 | Long String |
| | . PBTO | Size: 5-1/2" Cemented with 230 SX |
| | POTO 6231' | TOC: 4116 feet determined by temp survey |
| | 1 | Sui (C) |

To 14,153 6144 feet to 6194 feet (perforated or open-hole, indicate which)

Hole size:

Tubing size $2-3/8^{ii}$ lined with IPC set in a

packer

at 6094 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

<u>Paddock</u>

Total Depth: 14,153'

Injection Interval

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

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

Above Glorieta

| Greenhill OPERATOR | Petroleum Corporation ~ Lovington San Andres Unit LEASE |
|------------------------------|--|
| #36 WELL NO. | 660 FNL & 2040 FEL 6 T17S R37F FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| • | Surface Casing |
| | Size: 13 " Comouted with 200 sx |
| | TOC: Surface feet determined by circulation |
| • | liole size: 14 3/4" |
| | 15" - 336' Intermediate Casing |
| Completed 9/12/39 | Size: 8 5/8 " Cemented with 400 SX |
| | TOC: 1774 feet determined by 50% calc |
| Pkr. #1 3/22/63 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| Pkr. # 2 | Long String |
| 1/25/79 | Size: 5 1/2 " Cemented with 700 SX |
| • | PKC. "2 TOC: 3127 feet determined by 80% calc. |
| • | PKr.#1 4540' Hole Size: 6 3/4" |
| • | Total Depth: 4955' |
| ٠ | LTD 4955' Injection Interval |
| | 4540 feet to 4955 feet (perforated or open-hole, indicate which) |
| Pkr. #1 Tubing size _ | 2 3/8 lined with IPC set in a |
| Baker "A | (material) " Pension packer at 4466; feet. |
| (brand & m (or describe a | odel) ny other casing-tubing seal). Pkr. #2 Howco R-3 set @ 4435°. |
| Other Data | |
| 1. Name of th | e injection formation San Andres |
| 2. Name of Fi | old or Pool (If applicable) Lovington San Andres |
| | new well drilled for injection? No Production Production |
| intervals used. | 11 ever be perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s) No |
| | lepth to and name of any overlying and/or underlying oil or gas zones this area. |
| | Underlying - Grayburg |

| | Aleum Corporatio | on | Lovi Lease | ington Paddo | ck | |
|---------------|---|--------------|-------------------|-------------------------|--------------|---------------|
| OPERATOR | - E101 FW 4 01/ | | | | • | |
| WELL NO. | 510' FNL & 219 FOOTAG | E LOCATION | SEC. | | 37E RANGE | |
| • | | | Tu | bular Data | • | , |
| d Date | • | Surfa | ce Casing | • . | • | • |
| 31-53 | 11 | Sizo: | 8 5/8 - ~ | Comented | with | sx |
| | | TOC: | Surface: | feet d | etermined by | yc <u>alc</u> |
| | | . Nole | size: | 71 | • | |
| | | • | mediate Cas | • | | |
| | | • | | Cemented | with | sx |
| | | TOC: | | feet d | etermined b | у |
| , | 31281 | llole | Size: | | - | |
| | | Long. | String | | | |
| | | Size: | 5 1/2 | ' Cemented | with 400 | . sx |
| | | | | feet d | | |
| | 51/2". | | | 778 | | • |
| | TD 6250' | | | 6250' | | ı |
| • | 110 6250 | | | | | |
| | | | ction Inter | | care. | |
| | | | 090 Forsted or | feet to open-hole, i | | ch) |
| bing size | 2 3/8 lined | with | IPC . | • | | set in a |
| Baker AD- 1 i | • | packer | | erial) O | feet. | |
| (brand & mo | odel) ny other casing | | | | | |
| er Data | ., comoz oudzing | tubeng boar | , • | • | | |
| | injection for | mation | Paddock | • | | |
| | old or Pool (If | • | Paddo | ck | | |
| | . ' | , | No. | · · | ٠. | |
| | new well drille what purpose w | | LUIII | drilled? | Production | • |
| | ll ever be perf and give pluggi No | | | | | erforated |
| (pools) in | epth to and nam this area. Glorieta | e of any ove | rlying and/ | or underlyi | ng oil or ge | is zones |

| Texaco | <i>:</i> | C. S. Ca | ylor · | | |
|----------|----------------------|----------|----------|-------|--|
| OPERATOR | · | LEASE | | | |
| 3 . | 330' FNL & 2310' FEL | 6 | 175 | 37E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

<u>Iubular Data</u>

Completed 6-17-52

Surface Casing

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

TOC: Surface feet determined by calc

133/8"

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"

. 85/8" .335%'

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'

TO 8-435'

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
- llas the well ever 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

| Penroc | | C. S. Cay | ylor | |
|----------|--|-----------|----------|-------|
| OPERATOR | 1827 FUL | LEASE | | |
| 3 | <i>1887 Fット</i> 660' FNL & 3393 ' FEL | 6 | 175 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completed 5-18-52

Surface Casing

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

TOC: Surface feet determined by calc

13^{3/3}" Ho

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"

85/8" 3300' 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'

51/2" TO 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).

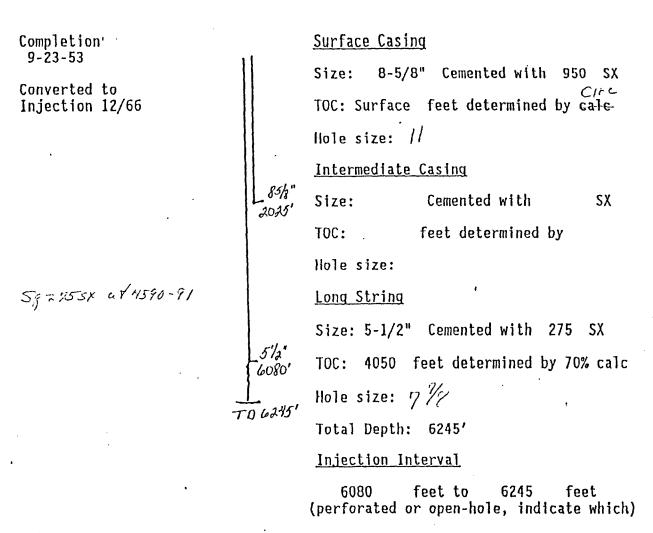
Other Data

- 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

| Greenhill P | etroleum Corporation | Lovington | Paddock | | |
|--------------|----------------------|-----------|----------|-------|--|
| OPERATOR | (1740 FWL) | LEASE | | | |
| #51 | 3540' FEL & 480' FNL | 6 | 175 | 37E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data



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

packer

at 5981 feet. (Or describe any other casing-tubing seal).

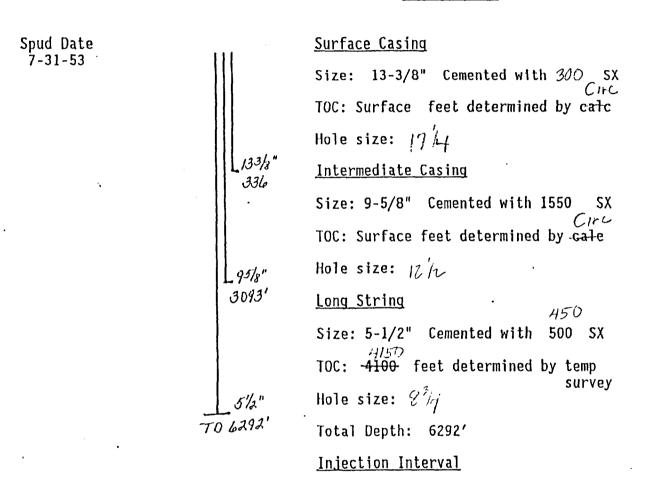
Other Data

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

Above Glorieta

| Greenhill | Petroleum | Corporation | Lovington | Paddock | | |
|--------------|-----------|----------------|-----------|----------|-------|---|
| OPERATOR | | | LEASE | | | |
| #50 | 660′ | FNL & 902' FWL | 6 | 178 | 37E | |
| WELL NO. | FO | OTAGE LOCATION | SEC. | TOWNSHIP | RANGE | • |

Tubular Data



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

packer

Tubing size - lined with IPC set in a -

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

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

Above Glorieta

| Greenhill OPERATOR | Petroleum Corporatio | n Lovinton San Andres Unit LEASE |
|---------------------------------|-------------------------------|---|
| #34 WELL NO. | 660 FNL & 615 FOOTAGE LOCA | |
| • | | Tubular Data |
| | 1111 | Surface Casing |
| · | | Size: 13 · " Cemented with 200 SX |
| | | TOC: Surface foot determined by circulation |
| | -514 | lole size: 17-14-15 |
| • | . 13" | Intermediate Casing |
| | . . | Size: 9 5/8 " Comented with 500 SX |
| Completed 1/27/53 | | TOC: 1956 feet determined by 50% calc |
| Pkr. 7/10/63 | | Nole Size: 12" |
| Pkr. 6/14/72 | L3110' | |
| | 0 | Size: 7 " Cemented with 200 SX |
| | PKr.# 2 | TOC: 3264 feet determined by 80% calc |
| ٠. | PKr. #-1 | Nole Size: 8 3/4" |
| • | -\521' | |
| , | ` | , Injection Interval |
| : | 1 4950 TO | 4521 foot to 4950 foot |
| Packer #1 | | (perforated or open-hole, indicate which) |
| Tubing size | 2" lined with | IPC set in a (material) |
| | | packor at 4498 foot. |
| (brand & mod (or describe an | | g moal). Packer $\#2 - 2^{3/8}$ plastic lined tbg. |
| Other Data | | set in a 7" Guiberson Packer @ 4470'. |
| 1. Name of the | injection formation | San Andres |
| 2. Name of Fie | ld or Pool (If appli | cable) Lovington San Andres |
| | | injection? No well originally drilled? Production |
| | nd give plugging det | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |
| 5. Give the de (pools) in | | my overlying and/or underlying oil or gas zones |
| Ur | nderlying - Grayburg | |

| Amerąda Hes | | State L "A" | |
|---------------------------------------|--|---------------------------|------------------|
| OPERATOR | | LEASE | |
| 8 | 560' FNL & 660' FEL | 1 17s | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. TOWNSHIP R | ANGE |
| | | | |
| • | | Tubular Data | |
| leted | | • | |
| -52 | Surface | Casing | , |
| | Sizo:_1 | 3-3/8 Comented with | |
| | TOC: St | rface feet deter | mined by calc |
| | . 111 | | , |
| | 240 | ze: <u>17-1/2"</u> | - |
| • | Interme | liate Casing | |
| | Size: | 8-5/8 " Cemented with | . <u>1000</u> 53 |
| | TOC | 1497 3063 feet deter | minad by For |
| | 11 - | | miliou by |
| • | 3198 Hole Si | ze: <u>11"</u> | |
| · | Long St | ring | • |
| | Siza: | 5-1/2 " Cemented with | 1 600 S |
| | • • | • | |
| | L 2' L | 4975 feet deter | thirtied bytemp |
| | 8142 Hole Si | ze: <u>7-7/8"</u> | · , |
| | L TO Total I | epth: 8430' | |
| | 7730 | • | • |
| | Yulecc | on Interval | |
| | (narfa) | ated or open-hole, indi- | rate which) |
| • • • • • • • • • • • • • • • • • • • | , | acou or open north, ringr | |
| Tubing size | lined with' | (material) | set in a |
| | packer a | | feet. |
| (brand & model) or describe any other | casing-tubing soal). | | |
| • | | , | • |
| ther Data | | | |
| . Name of the inject | ion formation | | · |
| . Name of Field or I | Pool (If applicable) | Lovington Abo | . |
| • | • | | ٠, |
| Is this a new well If no, for what p | drilled for injection in the section of the section | ginally drilled? Produ | iction . |
| . Has the well ever | be perforated in any | ther zone(s)? List all | such perforated |
| used. | hrnddrud decuit (asc | s of cement or bridge p | rug(s) |
| | | ing and/or underlying o | il or gas zones |
| (pools) in this as | rea. | • | |

| • | Greenhill Petrole OPERATOR | um Corporatio | n Lovington San Andres Unit LEASE |
|---|---|------------------------------|--|
| | #33 WELL NO. | 660 FNL & 66 FOOTAGE LOCA | |
| *************************************** | | | Tubular Data Surface Casing |
| | | 13" | Size: 13 ". Comented with 200 sx TOC: 94 feet determined by 70% calc Nole size: 17 1/4" Intermediate Casing |
| | mpleted D/15/39 | | Size: 8 5/8 " Cemented with 250 SX TOC: 2352 feet determined by 70% calc |
| | | 3/091 | Hole Size: 11" Long String |
| • | | 51/2" - 4591' | Size: 5 1/2 " Cemented with 200 SX TOC: 3702 feet determined by 70% calc Hole Size: 7 7/8" Total Depth: 4900' |
| | | 77100 | Injection Interval feet to feet (perforated or open-hole, indicate which) |
| * | (brand & model) describe any other | · I | (material) packer atfeet. |
| • | er Data Name of the inject | | |
| 2. | | • | cable) Lovington San Andres |
| 3. | | | injection? No Production well originally drilled? Production |
| 4, | | | in any other zone(s)? List all such perforated all (sacks of cement or bridge plug(s) |
| 5. | Give the depth to a (pools) in this are | | ny overlying and/or underlying oil or gas zones |
| | Underlyir | ng-Grayburg | |



| Greenhill | Petroleum Corporation | Lovington | Paddock | | |
|--------------|-----------------------|-----------|----------|-------|--|
| OPERATOR | | LEASE | | | |
| #49 | 760 FNL : 660 FEL | 1 | 175 | 36E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data

Completed Surface Casing 8-18-53 Size: 13-3/8" Cemented with Converted to TOC: Surface feet determined by calc Injection 12/66 Hole size: 17-1/2" 1378 Intermediate Casing 297 Size: 8-5/8" Cemented with 1500 TOC: Surface feet determined by cale Hole size: 11" 85/8" Long String 3723' Size: 5-1/2" Cemented with 550 SX 3019 feet determined by 80%-calc Hole size: 7-7/8" 4015 Total Depth: 6240' Injection Interval TD 6240'

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

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

packer

at 5921 feet. (Or describe any other casing-tubing seal).

Other Data

- 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

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

Above Glorieta

| Amerada Hess OPERATOR | State L "A" LEASE |
|---|--|
| _ | 6401 ENT 1 19901 EET 1 170 265 |
| 9 WELL NO. | 660' FNL & 1880' FEL 1 17S 36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | TOURISM MODIFICATION DATE TO THE TOURISM METERS AND THE TOURISM METE |
| | |
| | Tubular Data |
| • | |
| ted | Surface Casing |
| 52 | Size: 13-3/8 ". Comented with 225 SK |
| | |
| • | TOC: Surface foot determined by calc |
| | liole size: 17-1/2" |
| | 13% |
| | 215' Intermediate Casing |
| | Size: 8-5/8 " Cemented with 1500 SX |
| | |
| | TOC: Surface foot determined by eatc |
| | Nole Size: 11" |
| | 1 1 1/4 |
| | 3148' Long String |
| | Size: 5-1/2 " Comented with 600 SX |
| • | |
| • | TOC: 5597 feet determined by temp sur |
| | Hole Size:7-7/8" |
| | 57 |
| | 9335 Total Depth: 8440' |
| • • | 8440 Injection Interval |
| | TD INTEGRAL YALL |
| | feet to feet |
| • | (perforated or open-hole, indicate which) |
| Tubing size | lined withset in aset in a |
| | (material) |
| (brand & mode | packor atfeet. |
| | other casing-tubing seal). |
| · | |
| ther Data | |
| . Name of the | injection formation |
| • | T A1 |
| . Name of Fiel | a or toor (ir appricants) |
| . Is this a ne | w well drilled for injection? No |
| | hat purpose was the well originally drilled? Production |
| • | |
| | ever be perforated in any other zone(s)? List all such perforated d give plugging detail (sacks of cement or bridge plug(s) |
| used. | - Gara handdand morary lagers or compute or prints hinks |
| | |
| Give the dep | th to and name of any overlying and/or underlying oil or gas zones |
| (pools) in t | his area. |
| * | bove Drinkard |

| Greenhil OPERATOR | l Petroleum Corporation : Lovington San Andres Unit LEASE |
|----------------------|---|
| · #32 | 660 FNL & 1980 FEL 1 T17S R36E |
| WELL NO. | FOOTAGE LOCATION · SEC. TOWNSHIP RANGE |
| | |
| | Tubular Data |
| | · |
| | Surface Caving |
| | Size: 10 3/4 " Comented with 180 SX |
| • | TOC: Surface foot dotormined by circulati |
| | liola siza; |
| | 303 Intermediate Casing |
| · | 10 ³ /4". Size: 7 ⁵ /8 " Comented with 265 SX |
| Completed 1/1/40 | TOC: 2200' foot determined by 50% calc |
| , 2, 2, 10 | |
| • | lole Size: 9% |
| | 75/9" Long String |
| | Size: 5 1/2 " Comonted with 200 SX |
| | 4548' Too: 2326 feet determined by 80% calc |
| • | Nole Size: 6 3/4" |
| • | 4589' |
| 1 | S'/2" Total Depth: 4900' |
| | 1900' Injection Interval |
| | 4589 feet to 4900 feet (perforated or open-hole, indicate which) |
| m 1.1 | |
| | 2 3/8" lined with IPC set in a (material) |
| Baker "A | Pension packer at 4548 foot. |
| | my other casing-tubing seal). |
| Other Data | |
| 1. Name of th | is injection formation San Andres |
| • | |
| 2. Name of F | old or Pool (If applicable) Lovington San Andres |
| | now well drilled for injection? No Production Production |
| | all eyer be perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of coment or bridge plug(s) |
| 5. Give the | lepth to and name of any overlying and/or underlying oil or gas zones |
| | this area. |
| • | Underlying - Grayburg |

| eeni | niii Petrol | eum Corporation | | Lovi | ngton Paddo | ck | |
|------|-----------------------|--------------------------------------|---------------------------------------|---|-------------|---|--|
| | OPERATOR | | | LEASE | | | |
| 48 | | 660' FNL | & 2080' FEL: | · 1 | 175 | 36E | |
| | WELL NO. | ŁOÓLVCE | LOCATION | SEC. | TOWNSHIP | RANGE | |
| | | | | · | | | ***************** |
| | • | • | . • | Tu | bular Data | | |
| 0000 | to 6260 | | Surface | Casing | <u>.</u> , | • | • |
| epen | to 6260 | - | Sizo: 13 | 3 3/8 - " | Comented | with <u>300</u> . | , sx |
| | | | • | | •. | otermined by _ | |
| | • | | | | | | |
| | | 133/8 | • | .ze: | • | | |
| | | 2917 | <u>Interme</u> | diate Cas | ing | | |
| | | L85/811 3137' | Size: | 8 5/8 - | Cemented | with 1500 | sx |
| | | 3101 | TOC: _ | 602 | feet d | letermined by | temp_surv |
| | | | Nole S | lze: | 1.1 | • | |
| | | | Long S | tring | | 4 | |
| | | | Size:5 | 1/2 | " Cemented | with <u>550</u> | sx |
| | | | TOC: | 3712 | foet (| determined by | temp surve |
| · | | 5 1/2" | Hole S | | 71/8 | • | • |
| | | TD 6235' | | | 6235' | *************************************** | , |
| | | | Total | | | | |
| | | • | | ion Inter | yal | • | |
| | | | 60. | | 'feet to | | feet |
| | • | | | | obsu-nors, | indicate which |) |
| Tul | oing size _ | 2 3/8 11nod | with | PC (mat | erial) | · · · · · · · | et in a |
| | | · 1 PC | packer a | | | foot. | |
| (or | (brand & modescribe a | oder) ny other casing- | tubing seal). | | | | • |
| Oth | er Data | | • | , | | | |
| 1. | | e injection form | ation | Packe | er . | | • |
| _ | | | • | . • | , | * | ······································ |
| 2, | | eld or Pool (If | • | • | , | | |
| 3. | Is this a If no, for | new well drilled what purpose wa | l for injections the well or | n? No No No No No No No No No No No No No | drilled? | Production | |
| 4. | llas the we | 11 ever be perfo and give pluggir | rated in any | other zor | ne(s)? List | all such per | Eorated |
| 5. | | opth to and name | of any over | ying and, | or underly! | ing oil or gas | zones |
| • | Above Glor | | | • | • | ·. · . | _ |
| | | | · · · · · · · · · · · · · · · · · · · | | | | • |

| Vmoco , | State "E" TR 18 |
|--------------------------|--|
| · OPERATOR | LEASE |
| 15 | 220 EN 1 2210 EN 1 170 250 |
| WELL NO. | 330' FNL & 2310" FWL 1 17S 36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| HEAD NO. | TOURISE ECONETON SEC. TORNOMIL MANGE |
| | |
| , | Tubular Data |
| | · Invariat value |
| Completed 2-4-52 | Surface Casing |
| 2 4 52 | · · · · · · · · · · · · · · · · · · · |
| P&A'd | Sizo: 13-3/8 ". Comented with 275. SX |
| 7-17-84 | |
| • | TOC: Surface foot determined by calc |
| | 13 ³ / ₈ Hole size: 17-1/2" |
| | 2691 101e size: 17-1/2" |
| | 737A - Intermediate Carina |
| | 1156" |
| | 1910 Size: 8-5/8 " Cemented with 500 SX |
| | 2511 |
| | nust Too: 223 feet determined by 50% calc |
| | |
| • | liole Size: 12-1/4" |
| | l lang Chring |
| idetracked | 3500' Long String |
| o 1120 sack | 5613-5827 Size: 5-1/2 " Comented with 450 SX |
| 4715-4465 | · j 4410 original by tempsurvey |
| 6009-5900 | TOC: 1855 feet determined by temp sur |
| 8200 -7725 | Julia |
| V | 8200' NOIS 5128: 0-5/4 |
| | 7 5540 Total Dopth: 8550' |
| | TOTAL Depth. 0550 |
| | % Injection Interval |
| | |
| | foot to - foot |
| • | (perforated or open-hole, indicate which) |
| mala la mala ma | The state of the s |
| Tubing Bizo | lined withset in aset in a |
| • | packer atfeet. |
| (brand & mo | odel) |
| | ny other casing-tubing seal). |
| • | |
| Other Data | |
| | |
| 1. Name of the | injection formation |
| 0 Marin | eld or Pool (If applicable) Lovington Abo |
| 2. Name of Fi | old or Pool (If applicable) Lovington Abo |
| a Tothlan | new well drilled for injection? No |
| 3. Is this a t | what purpose was the well originally drilled? Production |
| THE RIOF HOLE | man harbase and che act AttRinger) arrays |
| 4. Ilas the we | 11 ever be perforated in any other zone(s)? List all such perforated |
| | and give plugging detail (sacks of coment or bridge plug(s) |
| used. | |
| | |
| , E (1) - 4) - 4 | anth to and name of any opertuing and/or undertuing all or and any |
| | |
| | |
| 5. Give the d (pools) in | epth to and name of any overlying and/or underlying oil or gas zones this area. |

| Greenhill Pe | troleum Corporation | Lovington | Paddock | | |
|----------------|------------------------|-----------|----------|-------|--|
| OPERATOR . | | LEASE | | • | |
| #47 | 1930' FWL & 660' FNL . | 1 | 175 | 36E . | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data

Completed Surface Casing 9-04-54 1200 Size: Cemented with 1000 TOC: Surface feet determined by calc Hole size: Intermediate Casing 85/8" SX Cemented with 2041' Size: feet determined by TOC: Hole size: Long String 300 Size: 5-1/2" Cemented with 182 SX 5/2" 4147 5053 feet determined by 80%-calc 6045' TOC: Hole size: 7-7/8" TO 6221' Total Depth: 6221' Injection Interval feet to 6221 (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? <u>Production</u>
- 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

No

| Ушос в , | State "E" TR 18 |
|------------------------------------|---|
| OPERATOR | LEASE |
| 1.0 | 330' FNL & 990' FWL 1 175 36E |
| 16 | |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | |
| • | |
| | Tubular Data |
| ompleted 2-25-53 | Surface Casing |
| L~L)~)} | |
| δΛ'd | Sizo: 13-3/8 ". Comented with 300 SX |
| -26-84 | |
| • | TOC: Surface feet determined by calc |
| IBP set | |
| 8103 ¹ umped 15 sx | 215 llole size: |
| et retainer | Intermediate Casing |
| 4261' | |
| Cumped 346 sx | Size: 9-5/8 " Comented with 300 SX |
| et retainer | 1576 TS |
| 13261 | TOC: 2050 feet determined by 50% raic |
| Sumped 900 sx | 95/8 |
| potted 15 sx ement surface | 3281 Hole Size: 12-1/4" |
| olug | Long String |
| | Size: 7 " Comented withSX |
| | |
| , | CIBP TOC: 4550 foot determined by temp surv |
| | 103' |
| | 70 8517 Hole Size: 8-3/4" |
| | Total Depth: 8517 |
| • • | Injection Interval |
| | |
| | (perforated or open-hole, indicate which) |
| • | (perforaced or open-note, indicate witch) |
| Tubing mize - | lined withset in a |
| * 20 King | (material) |
| , | packer atfeet. |
| (brand & model | .) |
| (or describe any e | ther casing-tubing soal). |
| Obline Duba | |
| Othor Data | |
| 1. Name of the ir | njection formation |
| 2. Name of Field | or Pool (If applicable) Lovington Abo |
| n ' na etcha a com | voll defiled for interpretable No. |
| 3. Is this a new If no, for who | well drilled for injection? No at purpose was the well originally drilled? Production |
| | ever be perforated in any other zono(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| • | |
| | n to and name of any overlying and/or underlying oil or gas zones |
| (pools) in the | to atea. |
| Above | Drinkard |

| Lovington Paddock |
|---|
| LEASE |
| 660' FNL & 990' FWL . 1 17S 36E |
| FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| Tubular Data |
| Surface Casing |
| Size: 8 5/8 ". Comented with 1250. sx |
| TOC: Surface feet determined by calc |
| Hole size: 12 14 |
| Intermediate Casing |
| L 8 5/8 11 2057'. Size: Cemented withSX |
| TOC: feet determined by |
| Hole Size: |
| Long String |
| Size: 5 1/2 " Cemented with 350 SX |
| TOC: 3077 3700 feet determined by temp surv |
| Hole Size: 7 7/8" |
| 5 1/2" Total Depth: 6220' |
| TD 10220' Injection Interval |
| 6034 feet to 6300 feet |
| (perforated or open-hole, indicate which) |
| 3/8 lined with IPC set in a |
| (material) packer at 6000 feet. |
| other casing-tubing seal). |
| |
| Injection formation Paddock |
| i or Pool (If applicable) Paddock |
| No |
| well drilled for injection?Production |
| ever be perforated in any other zone(s)? List all such perforated i give plugging detail (sacks of cement or bridge plug(s) |
| th to and name of any overlying and/or underlying oil or gas zones area. |
| Glorieta |
| |

| Penroc | | State " | E" TR 18 | | |
|--------------|---------------------|---------|----------|-------|---|
| OPERATOR | | LEASE | | | |
| 23 | 880' FNL & 790' FWL | 1 | 175 | 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"

113/4 336'

Intermediate Casing

Size: 8-5/8" Cemented with 2800 SX

TOC: Surface feet determined by calc

Hole size: 11" 85/8

5116'

Long String

Size: 5-1/2" Cemented with 1000 SX

2908 feet determined by 80% calc TOC:

7-7/8" Hole size:

5/2" 8356

Total Depth: 8450'

TD 8450'

Injection Interval

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

Tubing size

lined with - set in a

packer

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

Other Data

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

| | troleum Corporation Lovington San Andres |
|----------------------------------|--|
| OPERATOR | LEASE |
| #30 WELL NO. | 660 FNL & 660 FWL 1 T17S R36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| | Surface Caying |
| | Size: 13 ". Comonted with 200 sx |
| | TOC: Surface feet determined by circulation |
| | 265, Hole size: 17 1/4 |
| | 13" Intermediate Casing |
| | Size: 8 5/8" Cemented with 500 SX |
| Completed 12/2/39 | TOC: 1597 foot determined by 50% calc |
| 12/2/39 | |
| • | 3129, Hole Size: 12" |
| | 8 5/r" Long String |
| | Size: 5 1/2" Cemented with 300 SX |
| • | TOC: 2910 feet determined by 80% calc |
| | Hole Size: 7 7/8 " |
| | 4543' Total Depth: 4970' |
| | Injection Interval |
| | 14970' 4543 feet to 4970 feet TD (perforated or open-hole, indicate which) |
| Tubing size 2 | |
| Baker Model | (material) A packer at 4485 feet. |
| (brand & mode) | |
| Other Data | |
| | njection formation <u>San Andres</u> |
| ļ. | or Pool (If applicable) Lovington San Andres |
| | |
| | well drilled for injection? No representation No representation No representation representation No re |
| | ever be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| X | |
| 5. Give the depth (pools) in the | h to and name of any overlying and/or underlying oil or gas zones is area. |
| Under | lying - Grayburg |

| Атосо | State "E" TR 18 |
|-------------------|--|
| · OPERATOR | |
| | |
| 18 | 330' FNL & 330' FEL 2 17S 36E |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | |
| M | |
| | Tubular Data |
| , d | |
| Completed 6-12-53 | Surface Casing |
| 0-12-33 | |
| P&A'd 11-7-83 | Sizo: 13-3/8 ". Comented with 275. SX |
| ran a 11-7-83 | circ , |
| | Tog. Surface foot determined by cale |
| · | 1378 |
| | 259 liole size: 17-1/2" |
| | ent |
| | referer 1958 Intermediate Casing |
| | 2.50 |
| • | Size: 9-5/8 " Cemented with 300 SX |
| | 2216 |
| | 100: 2246 1600 foot determined by 50% calc |
| | 10.144 |
| • • | 4018 - Nole Size: 12-1/4" |
| | ile mer amortin |
| | Long String |
| | A 1 married 1 |
| | Size: 7 " Comented with 550+550 cu ft SX perlite |
| • | The state of the s |
| • | TOC: 553 feet determined by 80% calc |
| , | v(30) |
| | Nole Size: 8-5/8" |
| | Total Bankly 8530' |
| | Total Depth: 8530 |
| ' | Tude while w Tabanan 1 |
| | Injection Interval |
| | feet to feet |
| | (perforated or open-hole, indicate which) |
| • | . Therefore or open-note; indicate anichy |
| Tubing size | lined with set in a |
| | (material) |
| • | packer atfeet. |
| (brand & | |
| | any other casing-tubing seal). |
| • | |
| Other Data | |
| | • |
| 1. Name of t | the injection formation |
| | |
| 2. Name of F | Field or Pool (If applicable) Lovington Abo |
| | |
| 3. Is this a | new well drilled for injection? |
| If no. fo | or what purpose was the well originally drilled? |
| , | The state of the s |
| 4. lias the r | well ever be perforated in any other zone(s)? List all such perforated |
| | and give plugging detail (sacks of coment or bridge plug(s) |
| used. | |
| | |
| | |
| | depth to and name of any overlying and/or underlying oil or gas zones |
| | in this area. |
| • | Above Drinkard |
| | |

| Greenhill Petro | leum Corp. | Louington Paddeck |
|-------------------------------------|--------------------------------------|--|
| OPERATOR | | LEASE |
| 85 | 1590 FWL 1 14 | 17 FNL Sec. 1 TITS-ROLE |
| WELL NO. | FOOTAGE LOCA | TION SEC. TOWNSHIP RANGE |
| · | • • • | |
| • | • | Tubular Data |
| • • | • | Surface Casing |
| • | 111 | Sizo: /37/r |
| | | TOC: Surface foot determined by cale |
| • | 1378 | . liolo sizo: |
| | 349 | Intormediate Casing |
| • | | Size: 8 % " Comented with 900 . 5 |
| | | TOC: 201 feet determined by 50% co |
| • | 2951 | Nole Size: // |
| | 2437. | Long String |
| | . • | Size: 51/2 " Comented with 1230 S |
| • | 5 63 63. | TOC: Sufaci feet determined by 80% co |
| • | | liola Siza: 778 |
| | • • | |
| | • | Total Dopth: 6400 |
| | • | Injection Interval |
| | | (perferated or open-hole, indicate which) |
| Tubing size | | |
| | • | (material) packer atfeet. |
| \DABING G BIGGON, | / | |
| or describe any o | cher easing-cubi | ng meni). |
| Other Data | •• | |
| . Name of the In | jection formation | n |
| . Namo of Field | or Pool (If appl | icable) Louington Paddack |
| . Is this a new If no, for wha | well drilled for t purpose was th | injection? <u>No</u> o well originally drilled? <u>production</u> |
| . lias the well o | vor be perferate | d in any other zone(s)? List all such perforated tail (sacks of coment or bridge plug(s) |
| | | |
| i. Give the depth (pools) in thi | | any overlying and/or underlying oil or gas zones |
| • | (above) Glo, | ricta |

| Penròc · OPERATOR | | E TR 18 | |
|----------------------------------|--|---------------------------|-----------------------------|
| WELL NO. | 1650' FNI. & 330' FEL FOOTAGE LOCATION SE | 2 175 C. TOWNSHIP | 36E Range |
| | | Tubular Data | |
| npleted -2453 | 155% Surface Cast | ng | |
| \ ' d | | 8 Comented wi | |
| 9-84 | 280' TOC: Surface | e feet de | cormined by calc |
| | llole size: | 17-1/2" | • |
| | Intermediat | e Casing | • |
| | Size: 9-5/8 | 3" " Cemented w | 1th <u>300</u> sx |
| | TOC: | feet de | termined by |
| | 1299 Hole Size: | 12-1/4" | |
| | 41sx Long String | | • |
| | | | + 500 cc. 61 pc 1th50\$X |
| , | 15.5x TOC: 213 | g feet de | termined by calc |
| | 1200' - 8520' llole Size: | 8-3/4" | • . |
| | Total Depth | • | |
| • • | | | |
| | Injection) | • | |
| • | (perforated | feet to lor open-hole, in | |
| Tubing size | lined with | _ | sot in a |
| • • • | packer at | (material) | foot. |
| (brand & mod (or describe any | ol) other casing-tubing seal). | | |
| Othor Data | | • | • |
| | injection formation No | | |
| | • | -I 'D. J.Jl. | |
| 2. Name of Fiel | d or Pool (If applicable) Lov | Ington Paddock | |
| 3. Is this a ne If no, for w | w well drilled for injection? I hat purpose was the well origin | nlly drilled? P | roduction |
| 4. lias the well | ever be perforated in any other desired plugging detail (sacks o | r zone(s)? List | all such perforated |
| 5. Give the dep | th to and name of any overlying | and/or underlyin | g oil or gas zones |
| | Clorieta | | • • • |

| Greenhill Pe | troleum Corporation | Lovington | Paddock | |
|--------------|----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | |
| #61 | 990' FWL & 2310' FNL | 1 | 175 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

<u>Tubular Data</u>

Surface Casing 8-5/8" Size: Cemented with 1000 SX TOC: Surface feet determined by calc Hole size: Intermediate Casing Cemented with SX Size: 20391 TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 220 SX 5/1 6080 TOC: 3847 feet determined by 80% calc Hole size: 7-7/8" .TO 6220' Total Depth: 6220'

Injection Interval

6080 feet to 6220 feet (perforated or open-hole, indicate which)

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

backet.

at 6045 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

<u>Paddock</u>

- Name of Field or Pool (If applicable) <u>Paddock</u>
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- 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

| Penrqc | State "E" TR 18 |
|----------------------|---|
| · OPERATOR | LEASE |
| 19 | 1650' FNL & 990' FWL 1 17S 36E |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | Tubular Data |
| | Surface Casing |
| Completed 7-29-53 | Size: 13-3/8 ". Comented with 332 sx |
| | TOC: Surface foot dotorminod by calc |
| | 13 ³ /8 Hole size: 17-1/2" |
| | Intermediate Casing |
| | Size: 9-5/8 " Comented with 300 SX |
| | 1537 feet determined by 50% calc |
| ••• | 3298' Hole Size: 12-1/4" |
| | Long String |
| | Size: 7 " Cemented with 225 SX |
| , | TOC: 6775 feet determined by temp surv |
| | 7" , Hole Size: 8-3/4" |
| | Total Depth: 8530' |
| | Injection Interval |
| | |
| Tulifum of ma | |
| lubing size | 1 lined with set in a |
| (brand & mode | national management and the second |
| Other Data | other casing-tubing soal). |
| | ningtion formation |
| | njection formation Loyington Abo |
| | No. |
| | well drilled for injection?Production |
| | ever be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| 5. Give the dept | th to and name of any overlying and/or underlying oil or gas zones |
| • | |
| • | ove Drinkard |

| PENROC ' | State "E' TR 18 |
|---------------------------------------|---|
| OPERATOR 17 | LEASE 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 foot determined by calc |
| • | . Hole size: 17-1/2" |
| | Intermediate Casing |
| | 111,21/2 |
| | 1550 Size: 9-5/8 " Comented with 300 SX |
| | TOC: 2316- feet determined by 50% calc |
| . • | llole Size: 12-1/4" |
| | Long String |
| | + 500 Reslite |
| • | 3296 |
| • | TOC: 5175 feet determined by Temp Sur |
| | Hole Size: 8-3/4" |
| | 7" Total Depth: 8506' |
| | 150¢ |
| | Injection Interval |
| | feet tofeet |
| • | (perforated or open-hole, indicate which) |
| Tubing size | lined withset in a |
| · | (material) |
| (brand & mod | ol) other casing-tubing seal). |
| | Cond custing Boaty. |
| Other Data | |
| 1. Name of the | injection formation |
| 2. Name of Fiel | d or Pool (If applicable) Lovington Abo |
| | No. |
| 3. Is this a ne | what purpose was the well originally drilled? Production |
| • | |
| | l ever be perferated in any other zone(s)? List all such perferated in give plugging detail (sacks of cement or bridge plug(s) |
| used. | 2 - 00 0 min (min 2 min |
| • | |
| 5. Give the dep (pools) in t | oth to and name of any overlying and/or underlying oil or gas zones |
| i i i i i i i i i i i i i i i i i i i | Above Drinkard |
| · | • |

| | Greenhill | Petroleum | Corporation | Lovington | Paddock | | |
|---|-----------|-----------|-----------------|-----------|----------|-------|---|
| _ | OPERATOR | | | LEASE | | | - |
| | #60 | 1980′ | FNL & 2310' FWL | 1 | 175 | 36E | |
| • | WELL NO. | FOO | TAGE LOCATION | SEC. | TOWNSHIP | RANGE | _ |

Tubular Data

Spud Date Surface Casing 10-11-54 8-5/8" Cemented with 1200 SX CIFC TOC: Surface feet determined by cale Hole size: $12^{1/4}$ Intermediate Casing Cemented with SX Size: 25/8 TOC: feet determined by 2040' Hole size: Long String Size: 5-1/2" Cemented with 350 SX TOC: 3841 feet determined by temp survey 6060' Hole size: TO 6220'

Injection Interval

Total Depth: 6220'

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

Tubing size lined with IPC set in a packer

(Or describe any other casing-tubing seal).

Other Data

Name of the injection formation:

No

- 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.

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

Above Glorieta

| Amerada Hess | State L "A" |
|-------------------------------------|---|
| OPERATOR | LEASE |
| 11 | 1650' FNL & 1980' FEL 1 178 36E |
| WELL NO. | FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| | |
| ۰ | Tubular_Data |
| • | |
| | Surface Casing |
| eted | Size: 13-3/8 ". Comented with 250 . SH |
| 53 | TOC: Surface feet determined by calc |
| • | |
| | liole size: 17-1/2" |
| | 131/2 Intermediate Casing |
| | Size: 8-5/8 " Cemented with 1500 Si |
| | 1361 |
| | TOC: Surface feet determined by eale |
| .• | Nole Size: 11" |
| | Long String |
| | 3750 |
| • | Size: 5-1/2 " Cemented with 600 S |
| • | TOC: 4908 feet determined by temp su |
| | Nole Size: 7-7/8" |
| | |
| | 1 5½ Total Depth: 8440' |
| • • | 10 Injection Interval |
| | 8440 |
| | (perforated or open-hole, indicate which) |
| | |
| Tubing size | lined with set in a set in a |
| | packer atfoot. |
| (brand & model or describe any c | l) other casing-tubing seal). |
| • | |
| Other Data | |
| l. Name of the ir | njection formation |
| 2. Namo of Field | or Pool (If applicable) Lovington Abo |
| | |
| | well drilled for injection? No Production at purpose was the well originally drilled? |
| | ever be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| 5. Give the depti | h to and name of any overlying and/or underlying oil or gas zones |
| (pools) in th | is area. |
| , VI | bove Drinkard |

| | OPERATOR | troleum Corporatio | DN LOVINGTON, San Andres LEASE |
|-------------|----------------------------|--|--|
| | #41 | 1980'FNL & 19 | |
| | WELL NO. | FOOTAGE LO | |
| | , | | |
| | | | Tubular Data |
| | | • | Surface Casing |
| omp1e | eted | | Size: 13 |
| 9-22- | .39 | | TOC: Surface feet determined by calc |
| | | . | Hole size: 17-1/4" |
| | | | |
| | | -314 | |
| | | 18" | |
| | | | TOC: 2332 feet determined by calc |
| • | | | Nole Size: 11" |
| | | | Long String |
| | | L3100 .998" | Size: 5-1/2 " Cemented with 200 SX |
| | | | TOC: 3501 feet determined by calc |
| ٠. | | | Nole Size: 7-7/8" |
| | | 4590' 5/2" | • |
| | | . } | Injection Interval |
| • | | · 1903' | feet to feet |
| | | | (perforated or open-hole, indicate which) |
| Tul | ing size | lined with | |
| | - | <u>.</u> | (material) packer at feet. |
| | (brand & mode describe any | el) other casing-tub | ing seal) |
| | r Data | | , |
| • . • | | | San Andres |
| 1. | | injection formation | Louington Can Andrea |
| 2. | Name of Fiel | d or Pool (If app | • |
| 3. | | w well drilled fo hat purpose was t | r injection? No he well originally drilled? Production |
| 4. | | | ed in any other zone(s)? List all such perforated etail (sacks of cement or bridge plug(s) |
| | | • • | |
| 5. | Give the dep (pools) in t | | any overlying and/or underlying oil or gas zones |

| Greenhill | Petroleum (| Corporation | Lovington | Paddock | | |
|--------------|-------------|-----------------|-----------|----------|-------|---|
| OPERATOR | | | LEASE | | | - |
| #59 | 1650' | FNL & 1980' FEL | 1 | 175 | 36E | |
| WELL NO. | FOO | TAGE LOCATION | SFC. | TOWNSHIP | RANGE | _ |

Tubular Data

Completed Surface Casing 10-19-53 Size: 13-3/8" Cemented with 300 SX Converted to TOC: Surface feet determined by calc Injection 9-73 Hole size: 17/2 133/2" 2971 Intermediate Casing Size: 8-5/8" Cemented with 1500 SX TOC: Surface feet determined by calc Hole size: // 85/1" Long String 3235' Size: 5-1/2" Cemented with 550 SX TOC: 3054 feet determined by 80% calc Hole size: 7-7/8" 5/2" Total Depth: 6235 6050' Injection Interval, TO 6235' feet to 6235

Tubing size 3" lined with IPC set in a

packer

at 5991 feet. (Or describe any other casing-tubing seal).

Other Data

- 1. Name of the injection formation: Pa
- Paddock

(perforated or open-hole, indicate which)

- 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? <u>Production</u>
- 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

| Amerada lles | ss ' | State L"A | | | |
|---------------------------------|--|--------------------|---------------------------------------|---------------------------------------|-------------|
| OPERATOR | | LEASE | | | |
| 10 | 1650' FNL & 660' FEL | 1 | 178 | 36E | |
| WELL NO. | FOOTAGE LOCATION | SEC. TO | WNSILLY RAI | NGE | |
| | | | | | |
| , | . , | Tubulo | ır Data | | |
| | | | ehantelesely . | | • |
| pleted | Surface | Casing ' | | • | _ |
| -7-52 | Sizo: 1 | 13-3/8 ". Co | mented with | 225 , | SX |
| | TOC: S | Surface | feet determ | ined by | calc ' |
| • | | | | | |
| | 13% . Hole si | ze: <u>17-1/2"</u> | • | • | |
| | Interme | diate Casing | | | |
| | Size: | 8-5/8 " C | emented with | 1500 | . 53 |
| | | 1346 | _ feet detern | | T5 |
| | 1 45% | | _ reer decern | irued by | |
| • | 3749' Holo Si | .zo: 11" | • | - | |
| | Long St | ring | | • | |
| | 1. | _ | emented with | ຄຸກກໍ່ ' | SI |
| • | . 1 | | · · | | ° |
| • | TOC: | 4972 | _ feet determ | nined by 🔟 | temp s |
| | 5 ½ 8334 Nole Si | lze: 7-7/8" | • | , | |
| | - ouze . | • | 8435 | · · | • |
| | TO Total I | Depth: | 0.133 | | |
| | Inject | ion Interval | • | | |
| | • | | feet to | | foot |
| | (perfor | rated or oper | i-holo, indic | ate which) | •• |
| Lubing sizo | lined with | . – | | 80 | t in a |
| | | (materia | 11) | | |
| (brand & mode) | | t | | foot. | |
| r describe any c | other casing-tubing seal). | " | | • | |
| her Data | | • | • ; | • | |
| Name of the 1: | ulaskisu famakisa | ٠ | | | |
| Name of the r | njection formation | T | | | |
| Name of Field | or Pool (If applicable) | Lovington | Abo | · · · · · · · · · · · · · · · · · · · | |
| Is this a new | well drilled for injectio | n? v- | • | ٠, | |
| If no, for whi | at purpose was the well or | iginally dri | 11ed7 Prod | luction · | |
| ling the well o | ever be perforated in any | other vende |)? [[n+ n11 | munh name- | rn had |
| intorvals and | give plugging detail (sac | | | | LULBU. |
| used. | | | • | • | |
| • | | • | | • • . | · |
| Give the depth (pools) in th | h to and name of any overl is area. | ying and/or | underlying of | ll or gas 2 | tones |
| | | • | • • • • • • • • • • • • • • • • • • • | • | |
| | Move Drinkard | | | | • |

| Greenhill Po | etroleum Corporation | Lovington | Paddock | |
|--------------|----------------------|-----------|-------------|-------|
| OPERATOR | | LEASE | | |
| #58 | 1980' FNL & 560' FEL | 1 | 175 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSIIIP | RANGE |

<u>Tubular Data</u>

Spud Date 10-53

Surface Casing

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

TOC: Surface feet determined by cale-

133/8° Hole size: 1772 297'

Intermediate Casing

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

TOC: 588 feet determined by temp

Hole size: 11

11016 3126, 77

Long String

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

TOC: 3795 feet determined by temp

survey

المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع المائع

Total Depth: 6235

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).

6065

3742'

Other Data

1. Name of the injection formation:

No

- 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? <u>Production</u>
- Has the well ever 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

| OPERATOR IEASE # 57 1980' & 695' PEL 6 175 37E WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE Tubular Data Surface Casing Completed 6-13-52 Completed 6-13-52 Size: 13-3/8 " Comented with 300 . sx TOC: Surface feet determined by calc Hole size: 17 ½ Intermediate Casing Size: 8-5/8 " Comented with 1400 sx TOC: Surface feet determined by calc Hole Size: 11 Long String \$\frac{3\frac{1}{2}}{3\frac{1}{2}}\$\$ Size: 5-1/2" " Comented with 550 size \frac{1}{2}\frac{5\frac{1}{2}}{2}\$\$ Size: \frac{7}{2}\frac{1}{2}\$\$ Toc: 5454 4820 feet determined by \frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\f |
|---|
| Tubular Pata Surface Casing Completed 6-13-52 Size: 13-3/8 " Comented with 300 sx TOG: Surface feet determined by calc liole size: 17 1/2 Intermediate Casing Size: 8-5/8 " Comented with 1400 sx TOG: Surface feet determined by calc liole Size: 1/ Long String 35/8 Size: 5-1/2" " Comented with 550 sx TOG: 5454 4820 feet determined by TS liole Size: 7 3/4 Tog: 5454 4820 feet determined by TS liole Size: 7 3/4 Injection Interval |
| Tubular Data Surface Casing Completed 6-13-52 Size: 13-1/8 " Comented with 300 sx TOC: Surface feet determined by calc liole size: 17 1/2 Intermediate Casing TOC: Surface feet determined by calc liole Size: 8-5/8 " Comented with 1400 sx TOC: Surface feet determined by calc liole Size: 1/ Long String 31/4 Size: 5-1/2" " Comented with 550 size: 5454 4820 feet determined by 75calc liole Size: 7 3/4 TOC: 5454 4820 feet determined by 75calc liole Size: 7 3/4 Total Depth: 8450 Injection Interval |
| Completed 6-13-52 Size: 13-3/8 |
| Size: 13-3/8 Comented with 300 SX TOC: Surface feet determined by calc liole size: 17 1/2 Intermediate Casing Size: 8-5/8 Comented with 1400 SI TOC: Surface feet determined by calc liole Size: 1/ Long String Size: 5-1/2" Comented with 550 SI TOC: 5454 4820 feet determined by TS liole Size: 7 3/4 Total Depth: 8450 Injection Interval |
| TOC: Surface feet determined bycalc llole size: |
| Intermediate Casing Intermediate Casing Size: 8-5/8 " Comented with 1400 5) TOC: Surface feet determined by calc lole Size: // Long String Size: 5-1/2" " Comented with 550 5) TOC: 5454 4820 feet determined by TS llole Size: 7 3/4 Sy" Total Depth: 8450 Injection Interval |
| Intermediate Casing 13 Size: 8-5/8 |
| TOC: Surface feet determined by calc lible Size: // Long String Size: 5-1/2" " Comented with 550 Size: 5-1/2" " Comented by TS TOC: 5454 4820 feet determined by TS lible Size: 7 3/4 Total Depth: 8450 Injection Interval |
| TOC: Surface feet determined by calc Hole Size: // Long String Size: 5-1/2" " Comented with 550 51 TOC: 5454 4820 feet determined by TS Hole Size: 73/4 Total Depth: 8450 Injection Interval |
| TOC: Surface feet determined by calc Hole Size: // Long String Size: 5-1/2" " Comented with 550 51 TOC: 5454 4820 feet determined by TS Hole Size: 73/4 Total Depth: 8450 Injection Interval |
| TOC: Surface feet determined by calc Nole Size: // Long String Size: 5-1/2" " Commented with 550 Size: 5-1/2" " Commented with 550 Size: 5-1/2" " Total Depth: 8450 Injection Interval |
| Long String 85/8 Size: 5-1/2" Comented with 550 51 TOC: 5454 4820 feet determined by TS llole Size: 73/4 Sy" Total Depth: 8450 Injection Interval |
| Long String 85/8 Size: 5-1/2" Comented with 550 51 TOC: 5454 4820 feet determined by TS llole Size: 73/4 Sy" Total Depth: 8450 Injection Interval |
| 3124 TOC: 5454 4820 feet determined by TS lole Size: 73/4 Sy" Total Depth: 8450 Injection Interval |
| TOC: 5454 4820 feet determined by TS lole Size: 73/4 5454 4820 feet determined by TS coale 1016 Size: 73/4 1016 Size: 105/4 1016 Size: 10 |
| liole Size: 73/4 Sy" Total Depth: 8450 Injection Interval |
| llole Size: 73/4 5'2" Total Depth: 8450 Injection Interval |
| Joseph Total Depth: 8450 Injection Interval |
| Injection Interval |
| Injection Interval |
| THIS CLAN THE TAY |
| 6018 |
| 6028 #820 feet to 6187 feet |
| (perforated or open-hole, indicate which) |
| Tubing size 2-3/8" lined with IPC (material) |
| packer at 6018 feet. |
| (DEUTIO & MONDE) |
| (or describe any other casing-tubing seal). |
| Other Data |
| Paddock 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. |
| Λbove Glorieta |

| OPERATOR 6 WELL NO. | 902' FWL & 1980' | FNL | LEASE | | |
|-----------------------|------------------|-------------------|------------------|-------------|--------------------|
| | | FNL | | | |
| WELL NO. | | | 6 | 175 | 37E |
| | FOOTAGE LOCATIO | И | SEC. | TOWNSHIP | RANGE |
| | • | | <u>Tubular l</u> | Data | |
| completed .0-15-53 | /0.5x = 11 | <u>Surface Ca</u> | sing | | |
| | | Size: 13-3 | /8" Cemen | ted with 3 | 00 SX |
| P&A'd 3-9-70 | | TOC: Surfa | ice feet | determined | by calc |
| | 133/8" | Hole size: | 18" | | |
| | 297' | <u>Intermedia</u> | ite Casing | | |
| | | Size: 9-5/ | /8" Cemen | ted with 12 | |
| shot and lled 3795 | | TOC: Surfa | ace feet d | etermined b | y cal e |

Long String

Size: 5-1/2" Cemented with 450 S.

TOC: 3270 feet determined by temp survey

Hole size: 7-7/8"

Hole size: 12-1/4"

Total Depth: 6269'

3531 _______51/2" Injection Interval

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

Tubing size - lined with - set in a

253x

255X

3615'-

3825'

3090'-

J200'

packer

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

95/8"

3/14'

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

| Penroc | | C. S. Caylor |
|----------|-----------------------|---------------------|
| OPERATOR | | LEASE |
| 4F | 1653' FNL & 1558' FWL | 6 17S 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. TOWNSHIP RANGE |

<u>Jubular Data</u>

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).

283'

3304'

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
- Has the well ever 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

| Greenh111 | Petroleum Corporation | Lovington | Paddock | |
|-------------|-----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | |
| #5 6 | 1650' FNL & 1733' FWL | 6 | 175 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |
| • | | • | | |
| | | er tuet i | n 4 | |

Tubular Data

Spud Date 10-7-53

Surface Casing

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

TOC: Surface feet determined by calc

85/8" 2026 llole size: ||

Intermediate Casing

Size:

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

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

TO 6256'

6/00°

feet determined by temp TOC: 4139 survey

Hole size:

Total Depth: 6256'.

Injection Interval

feet to (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:

No

- Name of Field or Pool (If applicable) 2. <u>Paddock</u>
- Is this a new well drilled for Injection? No 3. If no, for what purpose was the well originally drilled? Production
- llas the well ever 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

| Greenhill P | etroleum Corporation | Lovington | Paddock | |
|-------------|-----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | |
| #55 | 1879' FNL & 2248' FEL | 6 | 178 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

Completion Surface Casing 6-20-53 8-5/8" Cemented with 1595 SX Size: Converted to TOC: Surface feet determined by calc Injection 1/71 Hole size: || 85/8" 1980' <u>Intermediate Casing</u> Size: Cemented with SX TOC: feet determined by llole size: Long String לל". Size: 5-1/2" Cemented with 400 SX 6120' TOC: 3971 feet determined by 80% calc TO 6250' Hole size: 778 Total Depth: 6250' Injection Interval

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

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

packer

at 6067 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Paddock

- 2. Name of Field or Pool (If applicable) Paddock
- 3. Is this a new well drilled for Injection? <u>No</u>
 If no, for what purpose was the well originally drilled? <u>Production</u>
- Has the well ever 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

| OPERATO | DR LEASE |
|-----------------------------|--|
| 54 | 1650' FNL & 660' FEL 6 17S 37E |
| WELL NO | D. FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| - <u></u> | Tubular Data |
| | |
| Spud Date 2-6-54 | Surface Casing |
| | Size: 8 5/8 " Comented with 1595 SX |
| | TOC: Surface feet determined by calc |
| | liole size: // |
| | Intermediate Casing |
| | Size: Comented withSX |
| | 3185 Too: feet determined by |
| | llole Size: |
| | Long String |
| | Size: 5 1/2 " Cemented with 435 SX |
| • | TOC: 3537 feet determined by temp surv |
| | 51/2". 10136! Hole Size: 77/8 |
| | TD 6250' |
| | Total Depth: 6250' |
| | Injection Interval |
| | 6135 feet to 6250 feet (perforated or open-hole, indicate which) |
| mulation of ma | 2 2/0 |
| Tubing size Baker AD - 1 | (motorial) |
| (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 |
| | a new well drilled for injection? No er what purpose was the well originally drilled? Production |
| | well ever be perforated in any other zone(s)? List all such perforated s and give plugging detail (sacks of cement or bridge plug(s) |
| | |
| | depth to and name of any overlying and/or underlying oil or gas zones in this area. |
| | Above Glorieta |

| Tidewater Oi | 1 Company | H. L. Batt | ton "A" | |
|--------------|----------------------------------|------------|----------|-------|
| OPERATOR | 1650 | LEASE | | |
| 1 | 1653 ' FNL & 330' FWL | 5 | 175 | 37E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |
| | • | Tubular | Data | |
| mpleted | Sunfag | e Casing | | |

5-2-57

Cased Hole

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

TOC: Surface feet determined by cale

Hole size: 12-1/4"

95/8 2116

Intermediate Casing

Cemented with

SX

TOC:

Size:

feet determined by

Hole size:

Long String

TO 6300

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

3380 TOC: -1940

feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6300'

Injection Interval

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

Tubing size lined with - set in a

(Or describe any other casing-tubing seal).

Other Data

- Name of the injection formation: 1.
- 2. 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

| Samedar | Oil | Corp. | Caylor LEASE |
|-------------------------------|---------------------------------------|------------------------------|---|
| OPERATOR | | | |
| WELL NO. | 330 | FeetSouth of FOOTAGE LOCA | North Line 330 Feet Fast of West Line of SE/Y Sec. 6, TI TION SEC. TOWNSHIP RANGE |
| | | | Tubular Data |
| | | HIOIK | Surface Casing |
| | | | Size: /3 " Cemented with 250 SX |
| ٠, | | 13" | TOC: Suface feet determined by circulate |
| i A /25/39 | | 1-290, | Hole size: /5 |
| [* 3 3] | | 1415 | Intermediate Casing |
| | | | Size: 18 8 % Cemented with 500 SX |
| | | 8 5/8 | TOC: feet determined by |
| | | जार भ | Hole Size: /O |
| | | 3550' | Long String |
| | • | | Size: 5½ " Cemented with 200 SX |
| | 5 (s = | 51/2 | |
| | , , , , , , , , , , , , , , , , , , , | 400 | TOC: feet determined by 80%cal |
| | | L. 5005 | Nole Size: 7 |
| | | עי | Total Depth: 5005 |
| | · | | Injection Interval |
| | | | feet to feet (perforated or open-hole, indicate which) |
| Tubing size _ | | _ lined with . | (material) set in a |
| | | | packer atfeet. |
| (brand & mo or describe ar | | casing-tubin | g seal). |
| ther Data | | | |
| Name of the | inject | ion formation | |
| | | | cable) |
| | | drilled for | |
|), IS CHIS A L | what pu | rpose was the | well originally drilled? |
| LL HO, LOT | | | in any other zone(s)? List all such perforated |

| Greenhill P | etroleum Corporation | Lovington Paddock |
|-------------|-----------------------|---------------------|
| OPERATOR | • | LEASE |
| #68 | 1980' FSL & 1890' FWI | . 6 17S 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. TOWNSHIP RANGE |

Tubular Data

Completed Surface Casing 12-23-53 8-5/8" Cemented with 1475 SX Size: Converted to Injection 12-66 TOC: Surface feet determined by calc Hole size: 11" Intermediate Casing Cemented with Size: SX 85/2" feet determined by TOC: 3143' Hole size: Long String Size: 5-1/2" Cemented with 400 SX 5/2" TOC: 3928 feet determined by 80% calc 6107' Hole size: 7-5/8" TO 6250' Total Depth: 6250' Injection Interval

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

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

packer

at 6039 feet. (Or describe any other casing-tubing seal).

Other Data

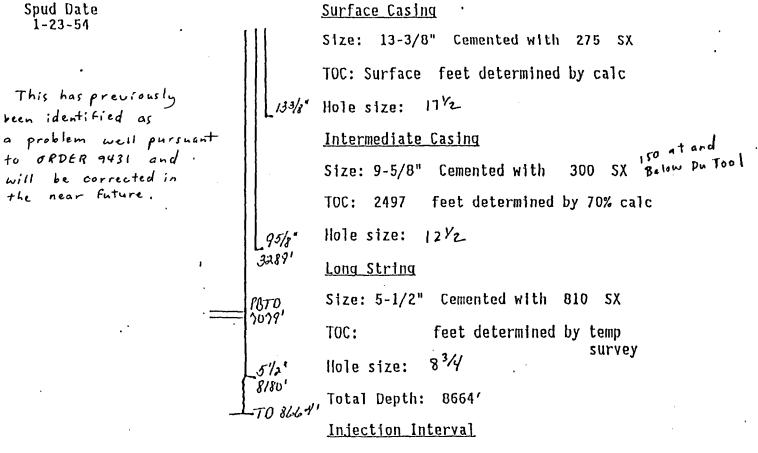
- 1. Name of the injection formation:
- Name of Field or Pool (If applicable) 'Paddock 2.
- Is this a new well drilled for Injection? No If no; for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

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

| OPERATOR #50 1980' FSL & 660' FWL 6 17S 37E WELL NO. FOOTAGE LOCATION SEC. TOWNSHIP RANGE Tubular Data Surface Casing Size: 10-3/4 " Cemented with 200 s TOC: Surface feet determined by circ Intermediate Casing Size: 7-5/8 " Cemented with 400 s Joseph Toc: 1026 feet determined by calc look Size: 9-7/8" Long String |
|--|
| Tubular Data Completed 10-2-39 Surface Casing Size: 10-3/4 |
| Surface Casing Size: 10-3/4 |
| Size: 10-3/4 " Cemented with 200 s TOC: Surface feet determined by circ Hole size: 13-3/4" Intermediate Casing Size: 7-5/8 " Cemented with 400 s Toc: 1026 feet determined by calc Toc: 1026 feet determined by calc Toc: 1026 feet determined by calc |
| Size: 10-3/4 " Cemented with 200 s TOC: Surface feet determined by circ Day Intermediate Casing Size: 7-5/8 " Cemented with 400 s 3 35 TOC: 1026 feet determined by calc Total Total Total Total To |
| Hole size: |
| Intermediate Casing Size: 7-5/8 " Cemented with 400 S 3135' TOC: 1026 feet determined by calc 1101e Size: 9-7/8" |
| Intermediate Casing Size: 7-5/8 " Comented with 400 S 3135' TOC: 1026 feet determined by calc 1101e Size: 9-7/8" |
| Size: 7-5/8 " Cemented with 400 s 3135' TOC: 1026 feet determined by calc 15/1" Nole Size: 9-7/8" |
| 3135' TOC: 1026 feet determined by calc lole Size: 9-7/8" |
| 75/1" Hole Size: 9-7/8" |
| |
| pong ourns |
| Size: 5-1/2 " Cemented with 175 S |
| 4587' Tog. 2611 Fact determined by calls |
| Hole Size: 6-3/4" |
| |
| |
| Injection Interval |
| 4587 feet to 4975 feet (perforated or open-hole, indicate which) |
| Tubing size 2-3/8" lined with IPC set in |
| R-3 Tension packer at 4460 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. |
| 5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. |
| Underlying-Grayburg |

| Greenh111 | Petroleum | Corpora | ation | • | Lovington | Paddock | |
|--------------|-----------|----------|-------|-----|-----------|----------|-------|
| OPERATOR | 2310 | | | | LEASE | | |
| #67 | | FSL & | 660' | FWL | 6 | 178 | 37E |
| WELL NO. | FOO | OTAGE LO | CATI | DN | SEC. | TOWNSHIP | RANGE |

Tubular Data



- 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:

No

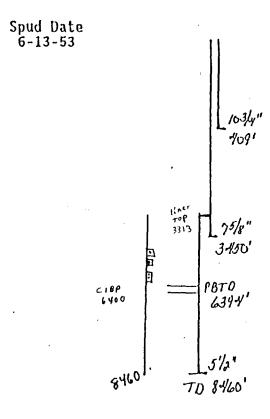
- 2. Name of Field or Pool (If applicable) Paddock
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- 4. Ilas the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks 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

| | roleum Corporation | Lovington San Andres |
|-----------------------------------|---------------------------------------|---|
| OPERATOR | | LEASE |
| #61 WELL NO. | FOOTAGE LOCAT | |
| · . | · | Tubular Data |
| Completed | | Surface Casing |
| 3-15-90 | | Size: 13-3/8 " Cemented with 450 SX |
| • | | TOC: Surface feet determined by circ. |
| | | Nole size: 17-1/2" |
| | | Intermediate Casing |
| | 13 3/8" | Size: 8-5/8 " Cemented with 800 SX |
| |], 13 ³ / ₉ " | TOC: Surface feet determined by calc |
| | | Nole Size: 12-1/4" |
| · | 1969' | Long String |
| | 8 5/9" | Size: 5-1/2 " Cemented with 940 sx |
| • | | TOC: 262 feet determined by calc |
| • | | Hole Size: 7-7/8" |
| | 5380' 51°2" | Total Depth: 5400' |
| | | Injection Interval |
| | TD | feet to feet |
| | | (perforated or open-hole, indicate which) |
| Tubing size | lined with _ | set in a |
| • | | (material)feet. |
| (brand & mode (or describe any | ol) other casing-tubing | |
| Other Data | | . · |
| 1. Name of the | injection formation | San Andres |
| 2. Name of Fiel | d or Pool (If applie | cable) Lovington San Andres . |
| 3. Is this a new | w well drilled for : | M. |
| 4. Has the well | ever be perforated | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |
| 5. Give the dep (pools) in t | | ny overlying and/or underlying oil or gas zones |
| | alustra Consulto | · |

| | OPERATOR · | LEASE LEASE |
|-------|--------------------------------|---|
| | #48 WELL NO. | 1980' FSL & 1980' FEL 1 17S 36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE |
| nple: | | Tubular Data Surface Casing Size: 13 " Cemented with 250 sx TOC: Surface feet determined by calc |
| | | iiole size: 17-1/4" 3// Intermediate Casing Size: 9-5/8 |
| | : | Hole Size: 12" 95/9' Long String Size: 7 " Cemented with 225 SX |
| | | lot: 3119 Test determined by carc lot: 3119 Test determined by carc lot: 3119 Test determined by carc lot: 4960' Total Depth: 4960' Injection Interval |
| | | 4530 feet to 4960 feet (perforated or open-hole, indicate which) |
| | Baker Model (brand & mode) | 7/8" lined with IPC set in a (material) A' packer at 4526 feet. 1) other casing-tubing seal). |
| Othe | er Data | |
| | | or Pool (If applicable) Lovington San Andres |
| 3. | | well drilled for injection? No at purpose was the well originally drilled? Production |
| 4. | | ever be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s) |
| 5. | Give the dept (pools) in th | h to and name of any overlying and/or underlying oil or gas zones is area. |
| | Unde | rlying-Grayburg ' |

| Greenhill | Petroleum Corporation | Lovington | Paddock | | |
|---------------|-----------------------|-----------|----------|-------|--|
| OPERATOR | | LEASE | | | |
| #65 | 2310' FSL & 2310' FEL | 1 | 178 | 36E | |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE | |

Tubular Data



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 %

Long String

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

TOC: 3780 feet determined by temp

survey

Hole size: 634

Total Depth: 8460'

Injection Interval

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

Tubing size $2^{3/g}$ lined with IPC set in a

· packer

at 6050 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.

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

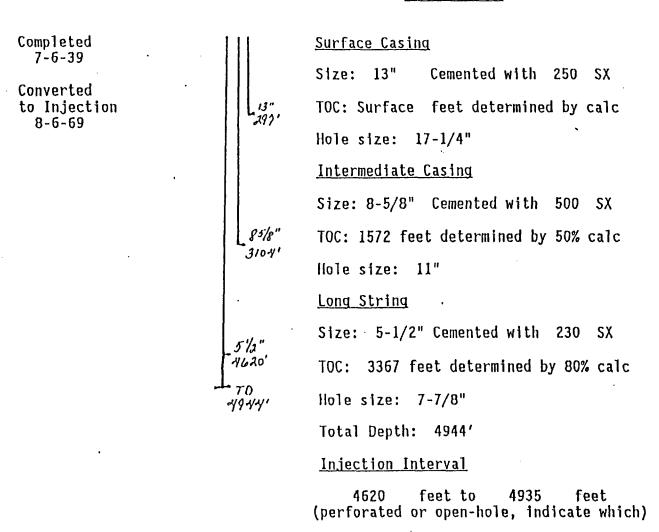
Above Glorieta

No

| | Amerada Hess | , | • | St | ate L "A" | · · · · · · · · · · · · · · · · · · · | | | | |
|------------|----------------------------------|----------------|--|----------------------|---|---------------------------------------|---------------------|-----------|---|----|
| • | operator 12 | 2310' | FSL & 2310' | FWL . | Lease 1 | 178 | · . 36E | | · | |
| | WELL NO. | , | FOOTAGE LOCA | TION | SEC. | TOWNSILL | P RAL | ige | *************************************** | |
| | pleted 23–53 | | | Surface | Tul | bular Dat | n' | • | | |
| | | | 13 1/8 | TOC: | 13-3/8 ". Surface 1zo: 17- ediate Cas 8-5/8 " 1039 Surface 1zo: 11" | foot 1/2" Ing Comente foot | determed with | inod by | calc SX | |
| | | | 8 ⁵ / ₈ 3150 | Long'S Size:_ TOC: _ | 5-1/2 ^ | Cement | ed with | | 5X temp sur | νe |
| | | | 8140 LD 8152, 2 ₁ / ₇ | Total | | 8440' val foot | | ate whic | foot | |
| Tub | ing sizo | - . | _ lined with | | <u> </u> | · | | | set in a | |
| (or | (brand & mod describe any | • | • | • | nt | , | | feet. | | |
| Othe | r Data | • | • | | | | | | | |
| 1. | Name of the | injecti | lon formatio | n | | | • | | | • |
| 2. | Name of Fiel | d or Po | ool (If appl | icable) | Lovin | igton Abo | | | | |
| 3. | Is this a ne If no, for w | | | | | No drilled? | | Producti | lon | |
| 4. | lias the well intervals an used. | ever l | be perforate plugging de | d in any tail (sa | other zon | no(s)? Li | løt all ridge pl | auch per | :Eorated | |
| 5 . | Give the dep (pools) in t | his ar | | any over | lying and/ | or under | lying of | ll or gas | zones | |
| | | • • | | • | | , | | • | | • |

| Greenhill | Petroleum Corporation | Lovingtor | ı San Andres | ; |
|-----------|-----------------------|-----------|--------------|----------|
| OPERATOR | 1990 | LEASE | | |
| 47 | 1980' FNL & 1986' FWL | · 1 | 178 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data



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: \underline{S}

į

- 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

| Greenhill Pe | etroleum Corporation | Lovington | Paddock | |
|--------------|-----------------------|-----------|----------|-------|
| OPERATOR | | LEASE | | |
| #64 | 1980' FSL & 1880' FWL | 1 | 175 | 36E |
| WELL NO. | FOOTAGE LOCATION | SEC. | TOWNSHIP | RANGE |

Tubular Data

| | • | |
|---------------------------------|-------------|---|
| Completed 12-18-53 | | Surface Casing |
| | | Size: 13-3/8" Cemented with 300 SX |
| Converted to Injection 12/66 | | TOC: Surface feet determined by calc |
| | | Hole stze: 1712 |
| | 133/3" 298' | Intermediate Casing |
| • | 298' | Size: 8-5/8" Cemented with 1500 SX |
| | | TOC: Surface feet determined by $\frac{TS}{calc}$ |
| | | Hole size: // |
| | 25%" | Long String |
| | 3750' | Size: 5-1/2" Cemented with 550 SX |
| , , | | 75 TOC: 3068 feet determined by 80% calc |
| | | Hole size: 7-7/8" |
| | -1/4 | Total Depth: 6275' |
| | 6064' | Total Depth: 6275' <u>Injection Interval</u> |
| | 1 TO 6225' | 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? <u>No</u>
 If no, for what purpose was the well originally drilled? <u>Production</u>
- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used.

 No

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

Above Glorieta

| Greenhill | Petroleum Corporation | | Lovington | Paddock | | |
|--------------|-----------------------|-----|-----------|----------|-------|---|
| OPERATOR | | · | LEASE | | | • |
| #63 | 1980' FSL & 990' | FWL | 1 . | 175 | 36E | |
| WELL NO. | FOOTAGE LOCATION | ON | SEC. | TOWNSHIP | RANGE | • |

Tubular Data

Spud Date Surface Casing 5-19-53 Size: 13-3/8" Cemented with 300 SX TOC: Surface feet determined by calc Hole size: 17/2_ 133/8" 292' Intermediate Casing Size: 8-5/8" Cemented with 1500 SX TOC: 879 feet determined by temp survey Hole size: // 85/8" Long String 3250' Cemented with 500 SX Size: 5-1/2" TOC: -3364 feet determined by 80% calc Hole size: 7-7/8" 51/2" 6088' Total Depth: 6250'

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

Injection Interval

Paddock

Tubing size 2% lined with IPC set in a

packer

at 6025 feet. (Or describe any other casing-tubing seal).

TO 6250'

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. Ilas the well ever 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

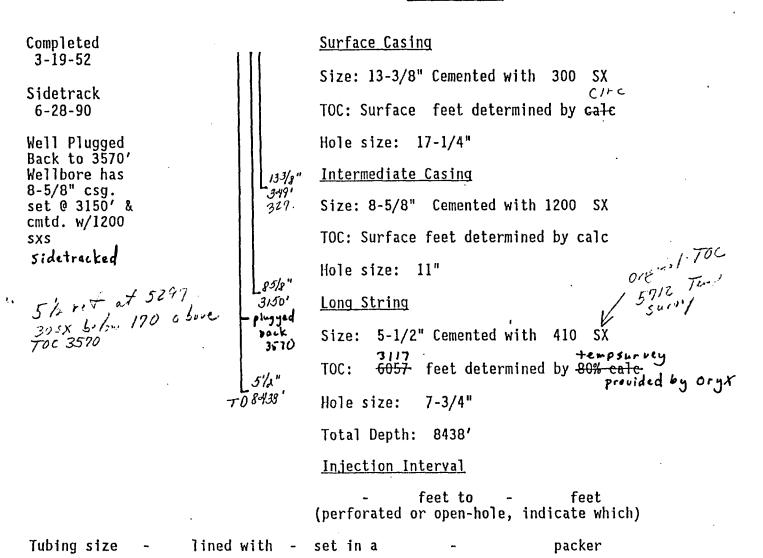
No

| Greenhill Petr OPERATOR | roleum Corporation | Lease Lovington San Andres |
|---|---|---|
| | • | |
| #46 WELL NO. | FOOTAGE LOCA | |
| | | Tubular Data |
| Completed | * 111 | Surface Casing |
| 12-7-41 | . | Size: 10-3/4" " Cemented with 175 SX |
| P &A' U - 5-22-8 7 | | TOC: Surface feet determined by calc |
| c 512" casing 2685- 4 | 1150 | Hole size: 15" |
| 00 S(1. | . . | Intermediate Casing. |
| 10 sxs , 2450 ~ 2350 | | • |
| Proses. Displaced down | L5041 | Size: 7-5/8 " Cemented with 300 S |
| tu 1000'- | | TOC: 1510 feet determined by calc |
| | 1. | Hole Size: 9-7/8" |
| , | | Long String |
| | 15/92' | Size: 5-1/2 " Cemented with 300 si |
| | | TOC: 1235 feet determined by calc |
| | 4624' \$ 5'\2" | Nole Size: 6-3/4" |
| • | } | Total Depth: 4946 |
| | 1.4946' TD | Injection Interval |
| | | feet to 4946 feet (perforated or open-hole, indicate which) |
| Tubing size 2" | lined with | IPC set in a |
| Baker Model 'A' | • | (material) |
| (brand & model) | | packer at 4574 feet. |
| (or describe any o | ther casing-tubing | g seal). |
| Other Data | | |
| 1. Name of the in | jection formation | San Andres |
| 2. Name of Field | or Pool (If applie | cable) Lovington San Andres |
| | well drilled for : t purpose was the | injection? No well originally drilled? Production |
| 4. Has the well end intervals and used. NO | ver be perforated give plugging det | in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) |
| 5. Give the depth (pools) in thi | | ny overlying and/or underlying oil or gas zones |
| •• | ying-Grayburg | • |
| onderi | y ing-arayburg | · · |

| Texaco | | C. S. Caylor |
|--------------------------|----------------|--|
| · OPERATOR | | LEASE |
| | • | |
| 4 | 2179' FNL 8 | 2173¹ FFL 6 17S 37E |
| WELL NO. | FOOTAGE LOCA | TION SEC. TOWNSHIP RANGE |
| • | | |
| | | |
| | | Tubular Data |
| • | | , |
| 1 - t - 1 | 111 | Surface Casing |
| Completed 8-14-52 | 111 | |
| 0-14-52 | | Sizo: 13-3/8 Comented with SX |
| Recompleted . | | CITC |
| San Andres | 133/8 | TOC: Surface feet determined by ealc |
| 6-14-89 | 244 | |
| • | : | Nole size: 17-1/4" |
| PBTD 7915 | | Inharmalian Cosing |
| Perf 4600-4784 | [] . | Intermediate Casing |
| | | Size: 8-5/8 " Cemented with 1800 SX |
| | · 11. | CIrC |
| | | TOC: Surface feet determined by Calc |
| Dec 27 | - | Look documental by Edit |
| Ci F14 ct 49818 | . 11 | Nole Size: 12-1/4" |
| 592 312 | | |
| 5046 W/18057 | 85/8 | Long String |
| rever 1 38 37 | -3253 | |
| | .1 | Size: 5-1/2 " Cemented with 600 SX |
| My 80. | • | mag. 1977. First data wiles I have now |
| 5/2 5/2 from 5010 to | | TOC: 4377 feet determined by 80% ca |
| 4/195 W/50SY | 7915 | 11-1- 01 7 7/011 |
| 77773 273037 | PRTD | Nole Size: 7-7/8" |
| | 5 V2 | Total Dopth: 8665' |
| | 8200 | Total populi: 0005 |
| | TD | Injection Interval |
| | 8165 | ATTECCAMIANTECATOR |
| | | - feet to - feet |
| | • | (perforated or open-hole, indicate which) |
| | • | |
| Tubing size | lined with | set in a (material) |
| | • | |
| | | packer atfeet. |
| (brand & model) | | 1. |
| or describe any other | sasing-tubin | g seal). |
| Thinese Dubu | • | |
| Other Data | | · |
| Name of the intesti | on Formation | · |
| L. Name of the injection | JII TOLIMACION | |
| 2. Name of Field or Po | ol (TE monli | cable) Lovington Abo |
| L. Hamo of Alora of Pol | an fre abber | |
| 3. Is this a new well | drillad for | injection? No |
| Tf no for what nur | node man the | well originally drilled? Production |
| La rio, Lon nitae put | roo nas che | was carbamash sameont |
| 4. Has the well ever b | e perforated | 1 in any other zone(s)? List all such perforated |
| | | cail (sacks of coment or bridge plug(s) |
| used. | | |
| | • | |
| | | |
| | | any overlying and/or underlying oil or gas zones |
| (pools) in this are | α. | |
| . Above Drinkard | i ' | |
| | | |
| • | | |

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

Tubular Data



Other Data

1. Name of the injection formation:

feet.

- 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? <u>Production</u>

(Or describe any other casing-tubing seal).

- 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



GREENHILL PETROLEUM CORPORATION

11490 WESTHE MERIROAD SUITE 200 HOUSTON, TEXAS 11077-6841 TELEPHONE (713) 119-8484

FAX 713+589-7891

Incorporated in Unlaware U.S.A.

April 27, 1992

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

Attention: Mr. Keith Williams

RE: Application with New Mexico Oil
Conservation Division

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

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

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

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

Please contact me in the event you have additional questions.

Very truly yours,

Michael J. Newport Land Manager/Permian Basin

MJN/jem 92.296

Enc.

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

| BY: | |
|-----|--|
| | |





GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 TELEPHONE (713) 569-8484 (FAX (713) 589-7892

Incorporated in Delaware, U.S.A.

May 1, 1992

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

Attention: Mr. Ben Stone

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

Lea County, New Mexico

Gentlemen:

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

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

Please inform me if you need additional information.

Very truly yours,

Michael J. Newport

Land Manager/Permian Basin

MJN/jem 92.308

Enc.

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

| 7 | 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

| ot | |
|--|---|
| One weeks. | |
| Beginning with the issue dated | |
| Mar. 8 , 19 92 and ending with the issue dated | |
| Mar. 8 19_92 | |
| General Manager | - |
| Sworn and subscribed to before me this day of | |
| March 190 | |
| Haulof Missy Notary Public. | |
| My Commission expires | |
| Aug. 5 | |

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.

(Seal)

LEGAL NOTICE

March 8, 1992 Greenhill Petroleum Corporation, 11490 Westheimer, Suite 200, Houston, Texas 77077-Phone (713) 589-8484 Contact: Michael J. Newport. Greenhill Petroleum corporation plans to convert the following producing wells to injection wells within the Lovington San Andres Field Area. The purpose of the produced injection wells is to increase the reservoir pressure in order to improve the recovery of hydrocarbons. The location nyarocarpons. The location of the proposed wells are the following Well Numbers within Sections 31 T16S-R37E, 36 T16S-R36E, 1 T17S-36E and 6 T17S-R37E, Lea County, New-Mexico, Well Number 8, 11, 20 23 38 and 42 The 20, 23, 38, and 42. The injection intervals are. aproximately between the depths, of 4,334 feet and 5,240 feet as seen in the Amerada State "LA" Number 9. The maximum injection rates and pre-ssures are 2000 PSI 1500 BWPD. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.

| PS Form 3811, Al | 7. Date of Delivery 4.2.9 | 6. Signature - Agent | 5. Signifure - Addressee X Arallyn Hours | | Loyington, New Mexico 88260 | P. O. Box 1268 | | 3. Article Addressed to: | 1. I.J. Show to whom delivered, date, and addresses address. (Exra charge) | Put your address in the "AETHAN 10" Space on the reverse side. Fulture to do this will prevent this card from being returned to you. It is date of delivery for act and each being services are available. Consult haster for less the following services are available. | SENDER: Complete items 1 and 2 when additional services are desired, and complete series 3 and 4. |
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