

11490 WESTHEIMER, SUITE 200 HOUSTON. TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399



Incorporated in Delaware, U.S.A.

September 5, 1991

Oil Conservation Division

P. O. Box 2088

Santa Fe New Mexico 87501

Attention:

Mr. David Catani h

Re:

Lovington San Alurca Initi Lea County, New Measur

Dear Mr. Catanach:

Enclosed please find the appriors on Thereby Greenhill proposes to convert the following producing the Falls to injection wells in the Lovington San Andres Area:

Well Numbers 8, 10 H. 16, 29, 33 and 41

Also enclosed are popies of destribled receipts whereby I have contacted all parties as required by the NMOC. I will forward the publication information when I resume lit from the newspaper.

Very truly yours,

Michael J. Newport

Land Manager-Permain Basin

MJN:sjs 91.120

of the earlier submittal.

OIL CONSERVATION DIVISION POST OFFICE BOX 2008

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING

FORM C-108 Revised 7-1-81

SANTA FE. NEW MEXICO 87501 APPLICATION FOR AUTHORIZATION TO INJECT Secondary Recovery ☐ Storage Pressure Maintenance Disposal Application qualifies for administrative approval? GREENHILL PETROLEUM CORPORATION II. 11490 Westheimer, Suite 200, Houston, Texas 77077 Address: Phone: 713 589-8484 Mike Newport Contact party: Well data: Complete the data required on the reverse side of this form for each well III. proposed for injection. Additional sheets may be attached if necessary. XX yes IV. Is this an expansion of an existing project? R-2278 If yes, give the Division order number authorizing the project Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. VII. Attach data on the proposed operation, including: Proposed average and maximum daily rate and volume of fluids to be injected; 2. Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). Attach appropriate geological data on the injection zone including appropriate lithologic *VIII. detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval. IX. Describe the proposed stimulation program, if any. Attach appropriate logging and test data on the well. (If well logs have been filed Χ. with the Division they need not be resubmitted.) Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIV. Certification I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. Name: _ Michael J. Newport Title Land Manager-Permian Basin 9-3-91 Signature: Date:

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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

BEFORE ECOMMER CATANACION CONSCINATION DIVISION

GREENHILL PROBETION 7

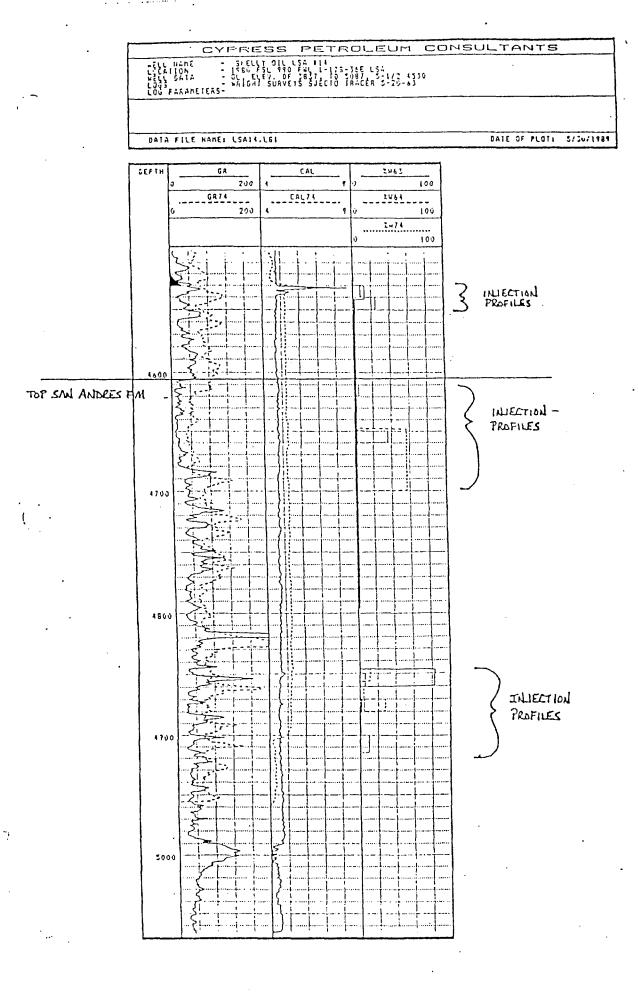
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VIII GEOLOGIC DATA

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 EYAMINER CATANACH
OIL CONSERVICION DIMSICH
GREEDHILL EXMIST NO. 8
CASE NO. 10154



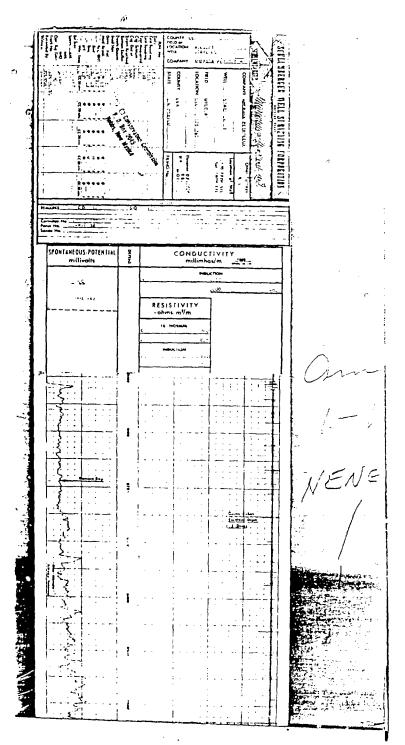
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PROPOSED STIMULATION PROGRAM FOR CONVERSIONS FROM PROCEDURES TO INJECTION WELLS LOVINGTON SAN ANDRES UNIT LEA COUNTY, NEW MEXICO

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

BEFORE EXAMINER CATANACH
OIL CONSEINATION DIVISION
GREENHALL EMISTINO. 9

CASE NO. 10154

XI

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

Martin Water Laboratories, Inc.

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

Waylan C. Martin, M.A.

RESULT OF WATER ANALYSES

		LABORATORY NO	1189311	
то:Mr. Dan Westover		SAMPLE RECEIVED	11-27-89	
12777 Jones Road, Suite 375, Houst	on, TX	RESULTS REPORTE	D 12-4-89	
COMPANY Greenhill Petroleum Corpor	ation LEASE	Lovington S	San Andres Ur	nit
FIELD OR POOL	Lovington		·	
SECTION BLOCK SURVEY	COUNTY	Lea s	TATE NM	
SOURCE OF SAMPLE AND DATE TAKEN:				
No. 1 Produced water - taken from	injection pu	ump discharge.	11-27-89	
NO. 2				
NO. 3				
NO. 4				
				······································
REMARKS:	AND DUVELCAL	DDODEDZINA		
CHEMICAL	NO. 1	PROPERTIES	10.3	1 10
Specific Gravity at 60° F.		NO, 2	No. 3	NO. 4
pH When Sampled	1.0160		 	
	6.8		 	ļ
pH When Received Bicarbonate as HCO3	6.90		 	<u> </u>
Supersaturation as CaCO3 ···	1,464		 	
Undersaturation as CaCO3	70		 	
Total Hardness as CaCO3	5 700	·		
Calcium as Ca	5,700 1,540		 	
Magnesium as Mg	450		 	
Sodium and/or Potassium	5,369		 	··
Sulface as SO4	2,358		 	
Chloride as Cl	9,730		 	
Iron as Fe	0.32		 	-
Barlum as Ba	0.32			
Turbidity, Electric	72		 	
Color as Pt	56			
Total Solids, Calculated	20,910		·	
Temperature *F.	67			
Carbon Dioxide, Calculated	381		<u> </u>	
Dissolved Oxygen, - chemets	0.000)		
Hydrogen Sulfide	480	·	1	
Resistivity, ohms/m at 77° F.	0.420)	1	
Suspended OII	15		· · · · · · · · · · · · · · · · · · ·	
Filtrable Solids as mg/)	22.9			
Volume Filtered, ml	850			
	1			
Rosults	Reported As Milligi	ams Per Liter		
Additional Determinations And Remarks The above	ve results s	how no direct	or indirect	evidence of
air contamination in this study, th	nerefore inc	licating effect	ive control	against this
condition is being accomplished. (Our microsco	pic study of t	he filtrable	solids showed
them to be essentially all a very	fine paraffi	n, therefore i	ndicating no	particular
significance to the higher quantity	y we have er	countered as c	ompared to r	ecent studies.
We have identified no evidence of a		velopment of c	oncern and t	herefore see
no need to make any changes at this	s time.			
			,	
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Form No. 3

cc: Mr. Bryant Bradley, Ozark Training

& Consulting, Austin

Mr. Cy Jones, Hobbs

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040 - 709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES.

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12777 Jones Road, Suite 375, Houston	n, TX RE	SULTS REPORTE	D 9-0-09				
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COMPANY Greenhill Petroleum Corporat	101 LEASE	ovingion Pac	idock/saii Andi	es ourc			
FIELD OR POOL	Lovington	7 - 0	ETATE NM	· · · · · · · · · · · · · · · · · · ·			
SECTION BLOCK SURVEY	COUNTY	Lea	STATE INT				
SOURCE OF SAMPLE AND DATE TAKEN:							
No. 1 Raw water - taken from water							
No. 2 Raw water - taken from water	supply well 🛭	2. 9-1-89	VLC 51 7 17	S R 36 E			
	7.54						
NO. 4							
Le town to tax to have the control of	ND PHYSICAL P	ROPERTIES		 			
			NO. 3	NO. 4			
Specific Gravity at 60° F.	1.0025	1.0018					
pH When Sampled	7.2	7.4	<u> </u>	ļ			
pH When Received	7.03	7.34	-	<u> </u>			
Bicarbonate as HCO3	229	249					
Undersaturation as CaCO3	 	4 30%		<u> </u>			
Total Hardness as CaCO3	370	164					
Calcium as Ca	† · · · · · · · · · · · · · · · · · · ·			<u> </u>			
	120	51 9 is d	95404. 31				
Magnesium as Mg 1	171	130					
		89					
Sulfate as SO4 : :	320	107					
Chloride as CI			<u> </u>				
Iron as Fe. Barium as Ba	0.48	0.64	ļ · · ·				
Turbidity, Electric and the first and the fi	3	5	1.8				
Color as Pt	7	3	1				
Total Solids, Calculated	L	· 634 (5)5	319 3 1.4 8 W				
Temperature *F.	65	66	1				
Carbon Dioxide, Calculated	25	16	2007 140				
Dissolved Oxygen Winkler - Chemets	4.7	3.0					
Hydrogen Sulfide	0.0	0.0					
Resistivity, ohms/m at 77° F.	5,75	12,25					
Suspended Oil	<u> </u>	<u> </u>					
Filtrable Solids as mg/	-2.1	,3;2-:	1				
Volume Filtered, ml	10.000		45 154 159	201 00 .			
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Results F	Reported As Milligram	Per Liter		<u> </u>			
Additional Determinations And Remarks The prime			hove regults	at water			
well #1 is that we again identified							
solids. This generally confirms the							
on laboratory #789270 that the pres							
identified no significant sand in	the suspended	material at	water well #	2. In gen-			
identified no significant sand in the suspended material at water well #2. In general, we find the current chemical and physical properties of these waters to be							
satisfactory, thereby indicating no							

Form No. 3

cc: Mr. Bryant Bradley, Ozark Training

& Consulting, Austin

Mr. Cy Jones, Hobbs

103 PRECIPITATION

Calcium Carbonate Scale Prediction Lovington San Andres Unit Paragon Engineering Services

Water "A": 50% Lovington WSW 1.+50% WSW, #2, Analysis No. 1188285 Water "B": Calculated produced water analysis assuming injection water

is 56% produced & 44% source. Analysis No. 1188290

Analysis: Martin Water Laboratories, Inc.

Date Reported: 12/07/88.

Hypothetical Composition of Mixed Waters

% Water "A" % Water "B"	100 0	. 80 20	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	337.46	444.79	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
Sodium, Na	150.00	1931.43	5138.00	5494.29	7275.71	9057.14
ANIONS			•		•	
Chloride, Cl	323.00	3555.86	9375.00	10021.57	13254.43	16487.29
Sulfate, SO4	99.50	655.04	1655.00	1766.11	2321.64	2877.18
Carbonate, CO3	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate, HCO3	223.00	766.57	1745.00	1853.71	2397.29	2940.86
Tot. Dsol'd Solids	950.59	7679.63	19791.90	21137.71	. 27866.75	34595.79
Measured pH Values	7.00		6.70			
	10000000		5011872.34			•
$H+ = 1/10^{\circ} pH$.0000001355	.0000001995	.000000207	.000000242	.000000278
$1/H + = 10^{\circ} pH$		7377619.17				3600678.77
Calculated pH Values		6.87		86.68	6.62	6.56

Calcium Carbonate Solubility Calculation.

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

	u =		.02	.15	.40	.42	.56	.69
HC03		.000008	.001784	.006133	.013960	.014830	.019178	.023527
C03	•	.000033	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
S04		.000021	.002090	.013756	.034755	.037088	.048754	.060421
Cl		.000014	.004522	.049782	.131250	.140302	.185562	.230822
Na		.000022	.003300	.042491	.113036	.120874	.160066	.199257
Ba		.000015	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Mg		.000082	.001271	.010071	.025912	.027672	.036472	.045273
Ca		.00005	.006925	.032309	.078000	.083077	.108461	.133845
	•	Factor				,		
,		Conv.						

Calcium Carbonate Stability Index (Cont.)

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

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

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

						=
Temperature:		(26.7C) (49C)		•		· .
Look Up K:						
K for 80F	2.06	2.60	3.07	3.08	3.21	3.29
K for 120F	1.68	2.16	2.56	2.58	2.70	2.78
Calculated pCa	2.46	1.79	1.41	1.38	1.27	1.18
Calculated pAlk ·	2.44	1.90	1.54	1.52	1.41	1.32
3. Calculate the Stiff δ SI = pH - $\langle K + pCa +$		3 Stabillity	Index (SI).		·	·
(K + pCa + pAlk)						
At 80F =	6. 96	6.2 9	6.02	5.98	5.88	5.78
At 120F =	6.5 8	5.85	5.51	5.48	5.37	5.27
CaCO3 S1 =		g and the	والمعادمة	. 1		ملك هيمانية در
At 80F =	.04 .42	.575	.88	.70 1.20	.73 } 1.24	
At 120F =	.42 (1.01	1.19	1.20	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.

Colos Is Across SysTEM

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

Water: Calculated produced water composition. See CaCO3 calculation. Analysis: Martin Water Laboratories, Inc. No. 1188286 Date Reported: 12/07/88.
Approximate Location in System: 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 psia 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 Ionic 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	=	Product
	~			
D	-5.80922	1.00	=	-5.81
Т	120.00 .	01549	==	1.86
(T)(T)	14400.00 -	.000004	=	06
P	2000.00 -	.000074	=	15
u	.69 .	919	=	.63
(u)^0.5	.8306624 -	2.52	=	-2.09
	•			5.89

Sum = 1s = .27

WATER ANALYSIS REPORT

Company : GREENHILL PETROLEUM Date Sampled: 8-22-90 Address

: LOVINGTON, NM : SENE SEC 2 TI7S R36E : S. A. #44 Analysis No. : 1 Lease

Well Sample Pt. : WINDMILL

	ANALYSIS			mg/L		* meg/L
1. 2. 3. 4. 5. 6. 7. 8.	Total Dissolved Solids Suspended Solids Dissolved Oxygen Dissolved CO2 Oil In Water Phenolphthalein Alkali	nity (C	aCO3)	2222.8 NR NR NR NR NR		
10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	Methyl Orange Alkalini Bicarbonate Chloride Sulfate Calcium Magnesium Sodium (calculated) Iron Barium Strontium Total Hardness (CaCOJ)	ty (các	O3) HCO3 C1 SO4 Ca Mg Na Fe Ba Sr	244.0 917.6 325,0 720.0 0.5 15.7 0.0 0.0 0.0	HCO3 C1 SO4 Ca Mg Na	4.0 25.9 6.8 35.9 0.0 0.7

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meg/L	= mg/L
36 *Ca < *HCO3 4>	Ca(HCO3)2 CaSO4 CaC12 Mg(HCO3)2 MgSO4 MgC12	81.0 68.1 55.5 73.2 60.2 47.6	4.0 6.8 25.2	324 461 1396
Gaturation Values Dist. Water 20 C CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L	NäHCO3 Na2SO4	84.0 71.0		
CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	NaCl	58.4	0.7	40

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted, D. SWEATT

: 8-22-90

WATER ANALYSIS REPORT

: GREENHILL PETROLEUM Company

Date : 8-22-90

Address

Date Sampled: 8-22-90

Lease

: LOVINGTON, NM : SENE SECZE TI6S R36E : PAD 18

Analysis No. : 2

Well

: WINDMILL Sample Pt.

	ANALYSIS	٠.		mg/L	•	* meq/L
1.	рН	7.6				•
2.	H25	0				
з.	Specific Gravity	1.001			•	•
4.	Total Dissolved Sol	ds .		2086.2		
5.	Suspended Solids		•	NR	•	
6.	Dissolved Oxygen			NR "		
7.	Dissolved CO2			NR	*	
8.	Oil In Water			NR.	•	
9.	Phenolphthalein Alke	alinity (CaCO3)	•		•
10.	Methyl Orange Alkal:	inity (Car	CO3)	•		
11.	Bicarbonate		HCO3	244.0	HC03	4.0
12.	Chloride		C1	1035.2	Cl	79.7
13.	Dulfale		504	200.0	S04	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.			sr	. 0.0		
20.	Total Hardness (CaCo	03)		1800.0	•	
			•			

PROBABLE MINERAL COMPOSITION

· · · · · · · · · · · · · · · · · · ·		
*milli equivalents per Liter	Compound Equiv wt X meg/L = $\frac{1}{2}$	mg/L
17 *Ca < *HCO3 4	CaSO4 68.1 4.2 CaCl2 55.5 9.3 Mg(HCO3)2 73.2 MgSO4 60.2	324 283 516
Saturation Values Dist. Water 20 C CaCO3 13 mg/L	MgCl2 47.6 18.5 NaHCO3 84.0 Na2SO4 71.0	881
CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	NaCl 58.4 1.4	82

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted, D. SWEATT

2 C C C C C C C C C C C C C C C C C C C	Ris & Sudere & Cont (in)	Sofer.	4504 9204 9204 9105	CAN WORKEN	19 10 10 10 10 10 10 10 10 10 10 10 10 10		2,012 9/8961		Senace	St. 130	CB GOST	Meso Property Meso Meso Meso Meso Meso Meso Meso Meso	Bonnes Act Act Act Act Act Act Act Ac	A THOUGH
Penazol Kata Kata Kata Kata Kata Kata Kata Kat		(Permi	Tex/Con (15/10) (15/10	Files (Linearing Spiles)	KC C K Part) Connoc Con	Ness towns Nes	dnagan, 100 ll	A ve son School	State from	- a 3	100 A Trebush	Textion Texasist 18 (19 19 19 19 19 19 19 19 19 19 19 19 19 1	Paging The last of	A 15.25.
- 18-17	Claude Ne 11 - 95 168 15 168 168 15 168 15 1	(10,00	2 21 eral 1. Free 3 21 animal rates 3 21 animal rates 3 21 animal rates 3 2 animal rates 3	1378 18 18 18 18 18 18 18 18 18 18 18 18 18	Ulframar	Ultramar Ultramar Amenigal 531	TO 11450 "Shipp"	Action of the second of the se	W.M. Shipp. erg! W.M. Shipp. erg! (Amerind) Pennoil	J Cason etal MI.	Pennzoii 7 - 1 - 91 7 - 1 - 91 10	Hepty (Siles) 3.11-31 Exact 21 Ex	Penroc Cilly St Cilly St CB. Gillespie 3 v. 225 st v. 225 st	Chisosoper Chiso
state" 6			(Fannsei) [Cannsei] [Cannsei] [Cannsei] [Fannsei] [Fannsei] [Fannsei] [Fannsei] [Fannsei] [Fannsei] [Fannsei] [Fannsei]	Antipring Joseph 636 (Arts 200 - 12 - 12 - 12 - 12 - 12 - 12 - 12	Stores	S Langering Second	AN Chors Dager	3 40.85 &c. 10 86.35 15 84.55 15 84.	To the state of th	Fernical February (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		Hantey Pet 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BL.Estes,ettal	interior of the first of the fi
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11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 4, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

City of Lovington P. O. Box 1268 Lovington, New Mexico 88260

Re:

Lovington San Andres
Lea County, New Mexico

Gentlemen:

Greenhill Petroleum is hereby notifying you as surface owner that we plan to convert the following producing wells to injection wells within our Lovington San Andres Unit Area.

Well Numbers 9, 21, 24, 26, 29, 33, and 41

We are required by the Commission to notify the surface owner of the proposed conversion. Please advise in the event you have any questions concerning the conversions.

Very truly yours,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.111

11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Mobil Exploration and Producing 12450 Greenspoint Drive Houston, Texas 77060-4991

Attention:

Mr. R. L. Fajkowski

Re:

Lovington San Andres Unit Lea County, New Mexico

Dear Mr. Fajkowski:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Texaco, USA 500 North Loraine Heritage Circle Midland, Texas 79702

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Marathon Oil Company 5555 San Felipe Road Houston, Texas 77056

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Richael Thurst Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112

11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Phillips Petroleum
P. O. Box 1967
Houston, Texas 77251-1967

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



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Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Exxon 233 Benmar Suite 970 Houston, Texas 77060

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Richael Menperd

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Rice Engineering Corportion 122 West Taylor Hobbs, New Mexico 88240

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

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Yours very truly,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Penroc Oil Corporation 5014 Carlsbad Highway Hobbs, New Mexico 88241

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Aichael Theyand Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Amerada Hess Corporation 218 West 6th Street Tulsa, Oklahoma 74102

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

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Yours very truly,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112



11490 WESTHEIMER, SUITE 200 HOUSTON, TEXAS 77077 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

September 5, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUEST

Oryx Energy Company P. O. Box 1861 Midland, Texas 79702-1861

Re:

Lovington San Andres Unit Lea County, New Mexico

Gentlemen:

Enclosed find the C-108 and attachments covering the conversion of producing wells to injector wells within the Lovington San Andres Unit. We are obligated by the Commission to notify offset operators within a one-half mile radius of these proposed conversions. We plan to convert well numbers 9, 21, 24, 26, 29, 33 and 41 from producers to water injection within our Lovington San Andres Area.

Please call in the event you have any additional questions.

Yours very truly,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.112

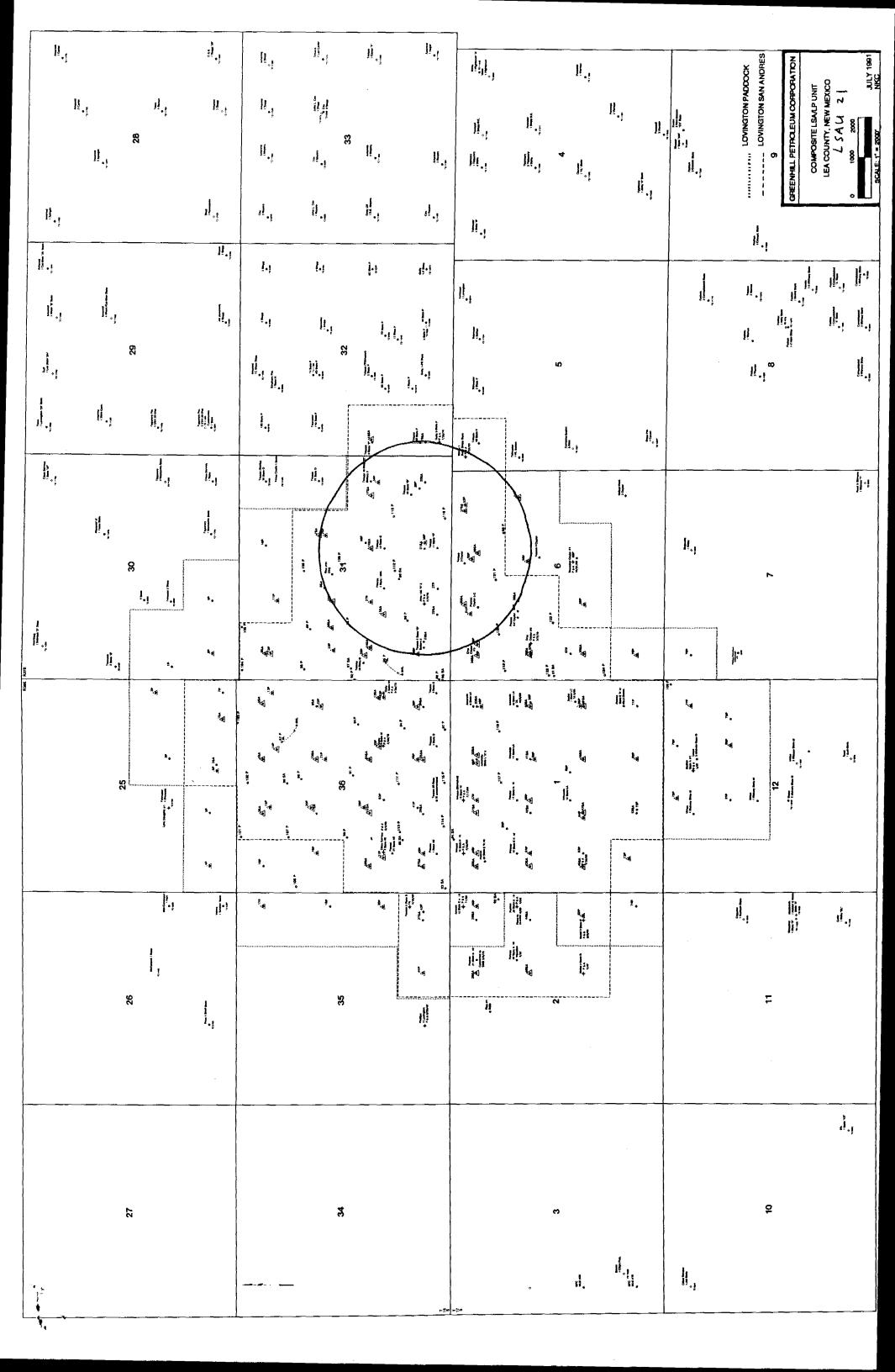
INJECTION WELL DATA SHEET

G	REENHILL PETROI	EUM CORPORATION	Lovington San Andres Unit								
	OPERATOR			LEAS	E				-		
	9	1980 FNL & 660 F	FEL	36	5	T16S-	R36E				
<u></u>	WELL NO.	FOOTAGE LOCA	TION	SEC.	,	TOWNSHIP					
					Tubu	lar Data			·····		
			Surfac	ce Casing							
				_		Cemented v	.4	250	SX		
	Proposed Conv	ersion	_			feet de	<u> </u>				
	to Injection	·	Hole s	size:	17	1/4					
		: :		mediate C			 				
						Cemented v	ví th	250	sx		
			_			feet de					
								<i>by</i>	0% Cuit		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
				String				0			
			_		_	Cemented v			sx		
		·	TOC: _	3074		feet de	etermined	by8	0% calo		
			Hole S	Size: _	8 3,	14					
			Total	Depth:	5100)					
			Inject	tion Inte	erval						
				4645		feet to			eet.		
			(perf	orated or	cope	n-hole, ir	ndicate w	hich)	•		
Tul	bing size	2 3/8 lined with		(mc	IPC	n1)	·····	set	in a		
		pakerp	acker a	at	45	530	fee	t.			
(or	(brand & model describe any o	.) ther casing-tubing									
Oth	er Data										
1.		jection formation			Sar	n Andres					
2.		or Pool (If applic				/ington Gr		an Andr	es		
3,		well drilled for i t purpose was the				lled?	product	ion			
4.		ver be perforated						perfore	ated		
	used.	give plugging deta	TT (SE	KS OF CE	emenc	or priage	prug(s)		•		
		no									
5.	Give the depth (pools) in thi	to and name of an	y over	lying and	l/or	underlying	g oil or	gas zor	les		

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INJECTION WELL DATA SHEET

OPERATOR		LEAS	E		
21	2310 FEL & 66	0 PGT 31	T16S	R31E	
WELL NO.	FOOTAGE LOCA				
	, , , , , , , , , , , , , , , , , , ,		Tubular Data		
		Surface Casing	•		
	111	Sizo: 13"	_~. Cemented	with200,	s
		TOC: surface	feet	determined by	circ.
	302'	llole size:			
posed Conversion		Intermediate C	Casing		
•		Size: 8 5/8	" Cemented	with 500	S
Injection	L 3010'	TOC: 1784			
		Hole Size:			30% Ca
		Long String		,	
		Size: 5 1/2	" Comembed	200	
	L. 4570'			 	
		TOC: 642'	feet	determined by	80% ca
	L TD	Hole Size:	6 1/4		
	5032	Total Depth:	5032		
		Injection Inte		•	
		4570	feet to	5032	feet
		(perforated or			
Tubing size2 3/	8" lined with		PC	8	set in a
Baker	n	(ma acker at4	terial)	foot	
(brand & model)			,	2000,	
or describe any other	er casing-tubing	seal).			
ther Data					
. Name of the injec	tion formation	San And	res		
Name of Field or	Pool (If applie	able) Lovingt	on Grayburg S	an Andres	
. Is this a new we:	ll drilled for i	njection? No	O	•	
If no, for what	ourpose was the	well originally	drilled?	Production	
. Has the well ever intervals and gir used. No	re plugging deta		ment or brid	ge plug(s)	orated
				 	



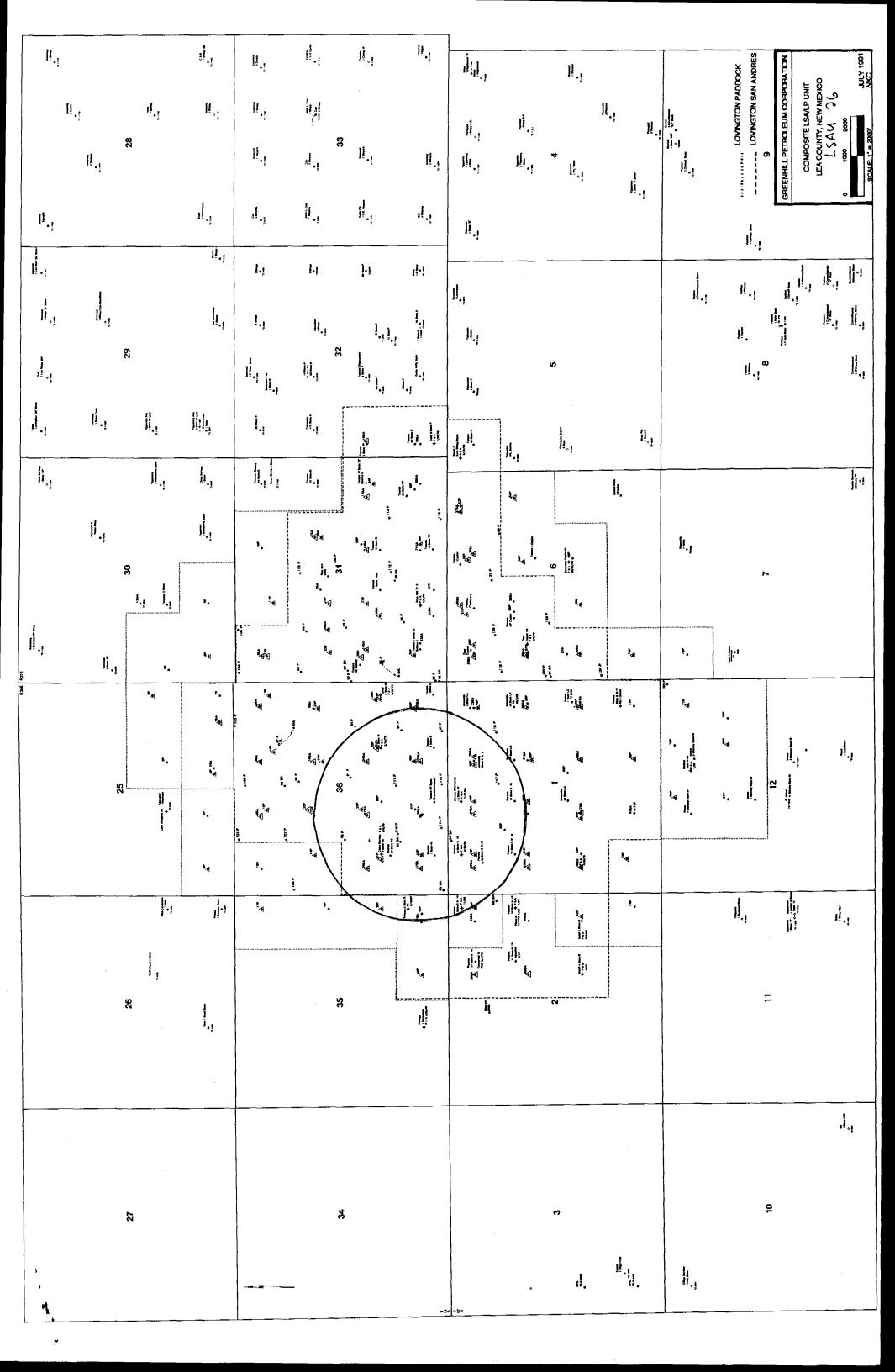
INJECTION WELL DATA SHEET

GREENHILL PETROLEUM	CORPORATION	Lo	vington S	San Andres U	nit	
OPERATOR			LEASE			
24	660' FEL & 6	660' FSI	36	160	36E	
WELL NO.	FOOTAGE LOCA				RANGE	
011			Tu	bular Data		
Completed 9-8-39		Surface	Casing			
		Sizo:	13 "	Cemented w	ith250.	SX
Proposed Conversion						
to Injection	.				termined by	circ.
•	· []]	Hole siz	e:	15		*
		Intermed	iato Cas	ing		
	322'	Cirot	8 5/8 ~	Comented t) · ev
	13"					
		TOC:	1458	feet de	termined by	calc.
	2990'	Hole Siz	e: 9	3/4	-	
		Long Str		,		
	o ne				250	
					1th 250	
•	4515	TOC:	3145	feet de	termined by	calc.
	5/L"			1/4		•
	3				·	
	ς,	Total De	pth:	075 '		
•	L TD	Injectio	n Interv	<u>a1</u>	•	
			4515	feet to	5075	feet
	. '	(perfora	ted or o	pen-hole, in	dicate which	5
Tubing size 2 3/8	lined with		I	IPC	s	et in a
Baker			(mate	rial)	fact	
(brand & model)	p	acker ac	44	80	Leet.	
(or describe any other of	asing-tubing	seal).				
Other Data						
1. Name of the injection	on formation	S	an Andres		•	
•	•					
2. Name of Field or Poo	ol (If applica	able) Lo	ovington	Grayburg Sar	Andres	
3. Is this a new well of If no, for what purp				rilled?	Production	
4. Has the well ever be intervals and give pused.	olugging detai	11 (sacks	of cemen	nt or bridge		orated
						-
5. Give the depth to an (pools) in this area		y overlyi	ng and/o	r underlying	oil or gas	zones

Underlying-Grayburg

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GREENHILL	PETRÒLEUM CORPORAT	CION Lovi	ngton <mark>San Andr</mark>	es Unit	
OPERATOR		LEASE	<u> </u>		
	660FSL & 1980 FW				
WELL NO.	FOOTAGE LOCAT	ION SEC.	TOWNSHIP	RANGE	
]	<u> Tubular Data</u>		
		Surface Casing			
		Size: 13	_~ Cemented w	ith200	sx
		TOC: surface	feet de	termined by	circ.
	111	Hole size:			
		<u> Intermediate Ca</u>			
	1 - 296°	Size: 8 5/8	_	ith 400	SX
mpleted 12-3- 39	330	TOC: 390	•		
		Hole Size: $_$		cermined by	
coposed Conversion	82/8				
Injection		Long String 5 1/2		200)
	<u>1</u>	Size: 5 1/2			
•		TOC: 3200'e		termined by	calc.
		Hole Size:			
	4520	Total Depth:	5128'		
	ζ.	Injection Inter			
	L TD	4520	feet to	5129	_ feet
	5128'	(perforated or	open-hole, in	dicate which	<u>, </u>
Tubing size2 3/	8 lined with	I	PC terial)	s	et in a
Baker	pac			feet.	
(brand & model) (or describe any oth	er casing-tubing :	seal).			
•	or casting casting i	30 4 2/.			
Other Data		G A - 1.			
1. Name of the inje	ction formation _	San Andr	es	· · · · · · · · · · · · · · · · · · ·	
2. Name of Field or	Pool (If applicat	ble) Lovingto	on Grayburg Sar	n Andres	
	ll drilled for in purpose was the we	jection?	drilled?	Production	
	r be perforated in ve plugging detail				orated
5. Give the depth t (pools) in this	o and name of any area.	overlying and,	or underlying	oil or gas	zones



Greenhill Petroleu OPERATOR	un corporation	Lovington San Andres Unit LEASE	
#29 WELL NO.	FOOTAGE LOCA		·
WELL NO.	LOOINGE LOON	110N SEC. 10WNShip RANGE	
			
		Tubular Data	
1.1	;	Surface Casing	
		Size: 13 " Comented with 215	SX
		TOC: Surface feet determined by _c	alc.
	13"	liole size: 17"	;
	10	Intermediate Casing	
Completed	•	Size: 8 5/8 " Cemented with 600	SX
1-21-42			
Proposed conversion	- 2056'	TOC: 218 feet determined by 5	0% cal
to Injection	848"	Long String	
·			
		Size: 5 1/2 " Cemented with 380	sx
		TOC: 2518 feet determined by 80%	calc.
}_	4590' 71%''	Hole Size: 7 7/8'	
. }	178	Total Depth: 4980'	
{	UGan'	Injection Interval	
4	TD	4590 feet to 4980 f	eet
•	· · · · · · · · · · · · · · · · · · ·	(perforated or open-hole, indicate which)	.866
Tubing size2 3/8	lined with	TPC	in a
		(material)	
(brand & model)	p	feet.	
(or describe any other	r casing-tubing	seal).	
Other Data	·		
1. Name of the injec	tion formation	San Andres	
2. Name of Field or	Pool (If applic	able) Lovington Grayburg San Andres	
		njection? <u>No</u> vell originally drilled? Production	
intervals and give		in any other zone(s)? List all such perfors il (sacks of cement or bridge plug(s)	ted
5. Give the depth to	and name of an	overlying and/or underlying oil or gas zon	es
(pools) in this a	rea.		
IIndon1t	· ·		

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OPERATOR	eum corporation	LEASE	ton San Andr	res Unit	
#33	660 FNL & 66	0 FEL 1	T17S	R36E	
WELL NO.	FOOTAGE LOCA				
	<u></u>	Tub	oular Data		***************************************
		Surface Casing			
roposed Conversion		Size: 13 ".	Computed w	ulth and	SX
Injection		<u> </u>			
		TOC: 94		cermined by 70%	carc.
	1 - 213'	liole size:	17 1/4"		*
		Intermediate Casi	Lng	·	
		Size: 8 5/8 "	Cemented w	ith250	sx
		TOC: 2352	feet de	stermined by 70)% ca]
Completed	85/8"		11"		
-	3109'		<u> </u>		
)-15-39		Long String			
		Size: 5 1/2 "	Cemented w	vith 200	sx
	51/2"	TOC: 3702	feet de	termined by 70)% cal
	4591	Hole Size: 7	7/811	•	
	(\ <u>-</u>	900'		
	. *	Injection Interva	a1		
	4900	4481	feet to	4775 f	eet
	•	(perforated or or	-		
Tubing size 2 3/8	lined with	II	PC	set	in a
Baker		(mate)	rial) 520'	feet.	
(brand & model)					
(or describe any other	r casing-tubing	seal).			
Other Data					
1. Name of the inject	tion formation	San Andres	·	· · · · · · · · · · · · · · · · · · ·	
2. Name of Field or 1	Pool (If applic	able) Lovington Gr	rayburg San	Andres	
3. Is this a new well If no, for what p	l drilled for i	njection? No well originally dr	cilled?	Production	
4. Has the well ever intervals and give used.					ted
5. Give the depth to (pools) in this as		y overlying and/or	underlying	; oil or gas zone	es
Underlying-					
- Underly Ing-	-Grayburg				

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ii.i	"·] 88	II.	manufacture and the second sec	8) <u>,</u>]	J.,	Tank Tank	4	#., #.		LOYINGTON PADDOCK	GREENHIL PETROLEUM CORPORATION COMPOSITE LSAALP UNIT LEA COUNTY, NEW MEXICO	
₽.,		1	To the state of th		P 22.		li.,			e e e		ı ^j .,	<u> 8</u>	۰
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	Greenhill Per OPERATOR	troleum Corporation	ı	Lovingt LEASE	on San Andı	res	
		1980'FNL & 1980)	. 1	178	36E	
	WELL NO.	FOOTAGE LOCA					
		<u></u>		Tub	oular Data		
	Complete	ed	Surface	Casing			
	9-22-39		Size:	13 "	Cemented v	with250	sx
			TOC:	Surface	feet de	etermined by	calc
	Propose	d Conversion	Hole si	ze:	1/4"		
	to Inje	ction	Intermed	diate Casi	ng		
			Size:	8 5/8"~	Cemented 1	with25	<u>0</u> sx
			TOC:	2332	feet d	etermined by	calc
				ze: <u>11'</u>	· .	·	•
		314	Long St	ring			
		. 13	Size:	5 1/2 "	Cemented 1	with200	sx
		. 310		3501	feet de	etermined by	<u>calc</u>
		85	Hole Si	ze:	7 7/8"		
		1 4:5G-	Total Do	epth:	4903		
		3/2	Injection	on Interva	<u>11</u>	•	
				4592 ated or or		4903 ndicate which	feet
Tul	oing size	$\frac{7}{2}$ 2 3/8" lined with		IPC	rial)		et in a
	Baker		packer at	•	0	feet.	
(or	(brand & mode) describe any of	l) other casing-tubin	g seal).				
<u>Othe</u>	er Data	•					
1.	Name of the in	njection formation	San A	ndres			
2.	Name of Field	or Pool (If applie	cable) <u>L</u>	ovington (Grayburg Sa	n Andres	
3.		well drilled for at purpose was the			rilled?	Production	
4.		ever be perforated give plugging deta					Forated
5.	Give the depth (pools) in this	n to and name of an is area.	ny overly	ing and/or	r underlyin	g oil or gas	zones
	Underly	ing-Gravburg					

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	troleum Corporation Lovington San Andres
OPERATOR	LEASE
53	660 FSL & 1980 FWL 1 T17S-R36E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
	Tubular Data
	Surface Casing
	Size: 13 ". Comented with 300. SX
Completed 1/39	TOC: Surface feet determined by circ.
	251 Hole size:
	Intermediate Casing
	Size: 9 5/8 " Cemented with 500 SX
	2983 Toc: 1475 feet determined by 80% call
4 ·	95/8 11 Hole Size: 12 1/4
	Long String
	75/811 Size: 5 1/2 " Cemented with 55 SX
•	3454' TOC: 4418 feet determined by 80% ca
	4624' 5 1/2" Hole Size: 8 3/4
	4815 Total Depth: 4815
	Injection Interval
	feet to feet
Tubing size	lined with set in a
	(material)packer atfeet.
(brand & mode (or describe any	1) other casing-tubing seal).
Other Data	
1. Name of the 1	njection formation
2. Name of Field	or Pool (If applicable) Lovington Paddock
l. Is this a new	well drilled for injection? No nat purpose was the well originally drilled? production
4. Ilas the well	ever be perforated in any other zone(s)? List all such perforated i 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
	ying Grayburg



OPERATOR	<u>etroleum Corporati</u>	on Lovington San Andres Unit LEASE
	300 FSL & 99	
#1 WELL NO.	FOOTAGE LOCA	
·	·	
		<u>Tubular Data</u>
		Surface Casing 425
	2096' 4629	Size: 8 5/8 " Comented with 425 s
		TOC: Surface feet determined by calc
•		Nole size: 11
		Intermediate Casing
npleted D/4/45		Size: Cemented withS
verted to		TOC: feet determined by
njection 5/29/65	2096	Nole Size:
		Long String
		Long String 525 - 4 Size: 5 1/2 " Cemented with 425
		TOC: 2313 feet determined by 80% ca
	•	Hole Size: 7 7/8
	5/2 4629	Total Depth: 5060'
	L'TO SOLO	
		Injection Interval
		4600' feet to 5060' feet (perforated or open-hole,) indicate which)
Tubing size 2	2" lined with	IPC set in
		(material) packer at 4575' feet.
(brand & model	.)	
(or describe any o	ther casing-tubing	g seal).
Other Data		
1. Name of the in	jection formation	San Andres
	•	cable) Lovington San Andres
2. Name of Field	or root (it apprin	Cable) Lovington out mules
		injection? No Production well originally drilled? Production
. IL NO, LOL WHA		in any other zone(s)? List all such perforated
4. lias the well e		
4. lias the well e		ail (sacks of cement or bridge plug(s)

Underlying - Grayburg

GREENHIEL PETR	OLEUM CORPORAT		LOVINGTON P	'ADDOCK		
OPERATOR # 7	330' FEL & 33		Lease 25	16S ·	36E	
WELL NO.	FOOTAGE LOCA	TION	SEC. TOWN	ISHIP RA	NGE	
					·	
• .	. •		Tubular	Data	•	•
Spud Date		Cumb-as Ca		• .		
8-1-53	11	Surface Ca	-			,
		Size: 8-5/1	81'	ented with	800	sx
nent to be raised suant to order No.		TOC: Sur	Face !	Eeet determ	ined by <u>cal</u>	<u>.c .</u>
7431		Hole size:	11"	•	•	
		Intermedia	te Casing		•	•
		Size:	Cem	ented with	•	SX
	2104			•	ined by <u>ca</u>	
				Teer dereim	illied by <u>ca</u>	110
•	,	Hole Size:	•	•	•	
		Long Strin	īg		•	
		Size: 5-	1/2" " Cem	ented with		sx
•		TOC: 485	9 .	feet determ	nined by <u>80</u>)%
•	5%"	Hola Siza:	7-7/8"	•	•	
	6082	•			• .	
, .	TD 6260	•	ch: 6260'		-	
	•	Injection	Interval	•	٠	
				et to		eet .
• • •	•	(perforate	or open-n	OTA' THOTCE	• •	
Tubing size	lined with		(material)	-	set.	in a
(brand & model)		packer at _		· ·	feet.	
(or describe any othe	r casing-tubin	g seal).				
Other Data						
1. Name of the injec	tion formation	, 		•		
	•		Paddock .	•	*	···
2. Name of Field or	roor (it abbit	.cable)	•		• .	
3. Is this a new well If no, for what p			No nally drille	ed? Prod	uction	
4. Has the well ever intervals and givused.						ted
		· · · · · · · · · · · · · · · · · · ·				·
5. Give the depth to (pools) in this a		ny overlyin	g and/or und	ierlying oi	1 or gas zon	163
Λbove Gloriet	ta		· .	•	·. ·	
•			•			

#6 660 FML & 660 FML 31 T165 R37E WELL NO. FOOTAGE LOCATION SEG. TOWNSHIP RANGE Tubular Data Surface Casing Size: 16	Greenhill Petrol	eum Corporatio	n		ton San Andı	res Unit	
Tubular Data Surface Casing Size: 16	OPERATOR			LEASE			,
Tubular Data Surface Casing							
Surface Casing Size: 16	WELL NO.	FOOTAGE LOCA	TION	SEC.	TOWNSHIP	RANGE	
4538 feet to 5000 feet (perforated or open-hole, indicate which) Tubing size 2 3/8 lined with IPC set in a packer at 4434 feet. (brand & model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation San Andres 2. Name of Field or Pool (If applicable) Lovington San Andres 3. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Production 4. Mas the well ever be 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. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.	Completed 6/15/45 Converted to Injection	257' 16" \$5/8" 2220	Surfac Size:_ TOC:_ Hole s Interm Size:_ TOC:_ Hole S Long S Size:_ TOC:_ Hole S	Tue Casing 16 " Surface ize: ediate Cas 8 5/8 " 1271 Size: tring 7 " 2229	Comented feet d 18 ing Cemented feet d 11 Cemented feet d 8	with with etermined	by <u>calc</u> . 150 sx by <u>calc</u> 50%
Tubing size 2 3/8 lined with 1PC set in a		· ·		1538	_ feet to		
(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. Mas the well ever be 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.	3/0				•	•	
(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. Mas the well ever be 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.	Tubing size 2 78	_ lined with _		(mate	erial)	•	
(or describe any other casing-tubing seal). Other Data 1. Name of the injection formation		· I	acker a	t	4434	fee	t.
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. Man and give 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.		casing-tubing	g seal).	•			•
1. Name of the injection formation San Andres 2. Name of Field or Pool (If applicable) Lovington San Andres 3. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Production 4. Man and give 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.	Other Data	· ·	<i>'</i>			•	
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 Sive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.		ion formation		San An	dres		
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 Sive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.	2. Name of Field or P	ool (If applie	cable)	Loving	ton San And	res	
intervals and give plugging detail (sacks of cement or bridge plug(s) used. No No Sive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.					drilled?	Production	on
(pools) in this area.	intervals and give used.						
				lying and/o	or underlyin	g oil or	gas zones
<u>Underlying - Grayburg</u> .	Underlying	1 - Grayburg			•	. •	•

Greenhill Pet	roleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#12	781' FNL & 660' FWL	31	168	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing Spud Date 4-05-53 Size: 13-3/8 " Cemented with 350 SX TOC: Surface feet determined by calc Hole size: 17 /4 Intermediate Casing Size: 9-5/8" Cemented with 2600 SX feet determined by cate Temp Survey TOC: 3/0 Hole size: 17 /H Long String Size: 7" Cemented with 450 SX TOC: 2675 feet determined by 70% calc TO 6250' Hole size: 9/4 Total Depth: 6250' 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? 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.

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Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	330	LEASE		
#13	880' FNL & -331' FWL	36	168	36E
 WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date Surface Casing 2-13-53 Size: 8-5/8 " Cemented with 650 SX TOC: Surface feet determined by calc Squeeze Csg lenk 2018-2142 2005X 9/8/ Shoot 3heles at 2/14 Cm t 12/2 Hole size: Intermediate Casing 85/8" 21151 Cemented with SX Size: TOC: feet determined by Hole size: W/2755X Long String Size: 5-1/2" Cemented with 225 SX TOC: 5185 feet determined by 70% calc TO6279' pursuant to order R-9431 Hole size: Est 7 1/2 Total Depth: 6279' Injection Interval 6087 feet to 6279 feet (perforated or open-hole, indicate which)

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

packer

at 6087 feet.' (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

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

<u>Paddock</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.

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

OPERATOR	990		LEASE		
#14	940' FNL & 174	11' FEL	. 36	168	36E
WELL NO.	FOOTAGE LOCAT	ION	SEC.	TOWNSHIP	RANGE
			<u>Tubular</u>	<u>Data</u>	
pud Date	Ť1	Surface (asing		
0-27-53	:	Size: 8-	5/8 " Cem	ented with	975 SX
		TOC: Surf	ace feet	determined	by calc
		Hole size	: //		•
	85/8"	Intermedi	ate Casing		
	2110'	Size:	Cemen	ted with	SX
		TOC:	feet	determined	by
		Hole size	:		
		Long Stri	ng		
		Size: 5	1/2" Cemen	ted with	100 SX
	51/2"	TOC: 391	n_{I}	termined by	y temp survey
	1 TO 6270'		oth: 6270'		
		Injection	<u>Interval</u>		
ſ		- (perforate		- hole, indic	feet cate which)
ubing size -	lined with -	set in a	-	i	packer
ı t - feet.	(Or describe any	other casi	ng-tubing s	eal).	•
<u>Ither Data</u>					
. Name of the i	njection formatio	n:			
. Name of Field	l or Pool (If appl	icable) <u></u>	Paddock		
	wwell drilled for nat purpose was th			lled? <u>Pro</u>	<u>duction</u>
	ever been perfora ntervals and give 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

Y.

Greenhill Petr	oleum Corporation	Lovi LEAS	ngton San And E	res Unit	
#4	660 FNL & 1980	FEL ·36	T16S	R36E	
WELL NO.	FOOTAGE LOCATI	on sec.	TOWNSHIP	RANGE	
	111	Surface Casing	•		
,		Size: 13 · SOC: Surfac Sola size:	e feet d	etermined by	CIEC
Completed 1/3/39		Intermediate C Size: 9 5/8 TOC: Surfac	Cemented	•	
Converted to Injection 3/28/63	Injection 3071' 3/28/63	lole Size:	11 1/4		
•	7" 41,34	Size: 7 TOG: 1910' Hole Size:	feet d		
		Total Depth: Injection Inte 4634 (perforated or	feet to	50/2	feet
Tubing size 2 3/6		I		•	set in a
(brand & model) (or describe any oth		cker at seal).	<u>4586</u>	feet.	
Other Data	· · · · · · · · · · · · · · · · · · ·		•	•	
1. Name of the inje	ction formation _	San	Andres		
2. Name of Field or	Pool (If applica	ble) Lov	ington San An	dres	
3. Is this a new we If no, for what	ll drilled for in purpose was the w	· · · · · · · · · · · · · · · · · · ·	o drilled?	Production	
	r be perforated i ve plugging detai		ment or bridg		forated
5. Give the depth to (pools) in this	o and name of any area.	overlying and	l/or underlyin	g oil or gas	zones
Underl	ying - Grayburg		•		,

Greenhill Pet	roleum Corporation	L	ovington	Paddock	
OPERATOR			LEASE		
#20	1830' FNL & 2130	' FWL	36	168	36E
WELL NO.	FOOTAGE LOCATIO	N	SEC.	TOWNSHIP	RANGE
			Tubular [<u>lata</u>	
oud Date		<u>Surface Cas</u>	sing		
3-24-54		Size: 8-5	5/8" Ceme	ented with	1800 SX
onverted o Injection		TOC: Surfac	•		
3/74	11			ic cei millieu	by care
	` 	Hole size:	//		
•		Intermedia	te Casing		
	0-1"	Size:	Cement	ed with	SX
	3190'	TOC:	feet o	letermined	by
		Hole size:			
		Long String	1		
•		Size: 5-1,	/2" Cement	ted with 5	500 SX
		TOC: 3535	feet de	termined by	/ temp
	-11.11	Hole size:	7%		survey
	51/2" 6060'	Total Deptl	h: 6262'		
•	TO 6262'	Injection	<u>Interval</u>		
	(- (perforated		- hole, indic	feet cate which
ubing size -	lined with - s	set in a	-	ţ	oacker ·
t - feet.	(Or describe any of	ther casing	-tubina s	eal).	

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? $\underline{\text{No}}$ 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 Petroleum Corporation OPERATOR		n ·	Lovington San Andres Unit LEASE			_	
#1		1980 FNL & 19 FOOTAGE LOCA			T16S TOWNSHIP	R36E RANGE		
Complete 1/40		5%2" 4996 TD	Surface Size: TOC: Hole si Interme Size: TOC: Hole Si Long St Size:	Tub Casing 13	Cemented feet d	with with with	by <u>calc</u> 500 - 50% ca	sx lc_ sx
Tubing	sizo	lined with	Injecti ————————————————————————————————————	on Interv	_ feet to pen-hole, i	ndicate w	feet hich) set in	•
_		~··	nneker nt	•	rial)	for		
	nd & model) ribe any other	casing-tubing			*		, ••	
Other Da	ta	•			, .	•		
1. Name	of the inject	ion formation		San	Andres			
2. Namo	of Field or l	Pool (IE applie	cable)	Lovi	ngton San A	ndres	•	
		drilled for i				Produc	tion:	
	rvals and give	be perforated plugging det						
5. Give	ls) in this a	and name of a	,)		r underlyin	g oil or	gas zones	

5

INJECTION WELL DATA SHEET

Greenhill Pe	etroleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#21	2190' FNL & 1980' FEL	36	168	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

		·
Spud Date		Surface Casing
7-26-53	111	Size: 10-3/4" Cemented with 500 SX
Converted to Injection		TOC: Surface feet determined by calc Circ
2/73		Hole size: 15
		Intermediate Casing
1	1034"	Size: 7-5/8" Cemented with 1000 SX
5/2 liner 1275	11 787	TOC: Surface feet determined by calc
13/2-6		Hole size: 9 1/8
11-180 SX 150 SX		Long String
12 /inir 275 3312-6275 W/H8USX W/H8USX Sg*d top W/50SX	75/8.	Size: 5-1/2" Cemented with 630 SX
5 g * 6	3435'	TOC: 3638 feet determined by temp
<i>i</i> / .		Hole size: 6 7
,		Total Depth: 6275'
		Injection Interval
•	1.5%" TO 6275'	
		6103 feet to 6226 feet (perforated or open-hole, indicate which)

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

Other Data

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

No

OPERATOR			LEASE		
#22	2080' FNL & 6	60' FEL	36	168	36E
WELL NO.	FOOTAGE LOCA	TION	SEC.	TOWNSHIP	RANGE
			<u>Tubular</u>	<u>Data</u>	
Spud Date 9-10-52	111	Surface	Casing		
3-10-32		Size: 1	0-3/4" Cem	ented with	400 S
	. []]	TOC: Sur	face feet	determined	by calc
51/2 liner		, Hole siz	e: 13 3/2	•	
3/2 liner 3273-635	0 103/4'	<u>Intermed</u>	jate Casing		1800
			-5/8" Cemen	•	•
		TOC: Sur	face feet	determined	by calc
		Hole siz	e: 97/8		
		Long Str	ing	`	845
bock from 8 5x 5603 - 811's 5x 6533 - 676	603 2389	Size: 5	-1/2" Cemen		700 500 SX
Park & Man	0007	TOC: 35	81 feet de	termined by	y temp
sx 5603 - 811'	7	Hole siz	e: 6 %		survey
sx 6533 - 676	9		pth: 6350'	8603	
54 GHGH- 67	350	<u>Injectio</u>	n Interval		
5× 6533 - 676 5× 6464-636	15/2" TO 4350' 8603	- (perforat		hole, indi	feet cate whi
	lined with		_		packer

Other Data

Name of the injection formation:

No

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

F

INJECTION WELL DATA SHEET

	Greenhill Pe	troleum Corporation	Lovington Paddock		
	OPERATOR	2321.9	LEASE		
	#23	2392' FNL & 750' FWL	31	165	37E
_	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

		•	
Spud Date 3-29-52		Surface Casing	
Converted		Size: 13-3/8" Cemented with 350 SX	
to Injection 2/73		TOC: Surface feet determined by calc	
CIDD 6210/	1244	Hole size:	
CIBP 6310' Cmt. to 6300'	352'	Intermediate Casing	
Cilit. to 0300		Size: 9-5/8" Cemented with 2250 SX	
		TOC: Surface feet determined by calc	
		Hole size:	
		Long String	
" liner	4460'	Size: 7" Cemented with 500 SX	
1 " Inir 4191-8250		TOC: 2250 feet determined by temp ? survey *	
•		Hole size:	
	۸,,	Total Depth: 8450'	
	8250'	Injection Interval	
	TO 8450'	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:

No

- <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.

Give the denth to and name of any overlying and/or

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

Greenhill Pet	troleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#24	2310' FNL & 1968' FWL	31	168	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date 9-12-53

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: //

Intermediate Casing

Size:

Cemented with

SX

survey

85/8" 2072' TOC:

feet determined by

Hole size:

Long String

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

TOC: 4077 feet determined by temp

Hole size: 7 1/8

TO 6257'

6133'

Total Depth: 6257'

Injection Interval

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

Tubing size lined with - set in a

packer

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

Other Data

- Name of the injection formation:
- 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
- Has the well ever 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.

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

Tubular Data

Completed <u>Surface Casing</u> 1-18-53 Size: 13-3/8" Cemented with 246 SX Converted to SWD (Inject TOC: Surface feet determined by ealc 133/8 thru 9730-10260) 246 Hole size: 18" 227 Intermediate Casing 1200 Size: 9-5/8" Cemented with 1400 SX TOC: 352 feet determined by 50% calc Hole size: 12-1/4" 95/8" 3270' Comment Bond log 1964 Top good out 3765 Sgad Several intervals above & below yhis Long String 5-1/2" Cemented with 1982 Size: feet determined by 80% calc TOC: 247 7-7/8" Hole size: POINT Total Depth: 12,251 Injection Interval 11,044 feet to (perforated or open-hole, indicate which)

Tubing size

lined with - set in a

packer

(Or describe any other casing-tubing seal).

Other Data

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

Abo (Above)



Greenhill Pet	troleum Corporation	Lovington	Paddock	
OPERATOR	FEI	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 Cemented with 1550 SX 8-5/8" Size: Converted TOC: Surface feet determined by calc to Inj. 12/54 Hole size: // Intermediate Casing 85/2" 3215' Size: Cemented with SX 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 Hole size: TD 6270' Total Depth: 6270' Injection Interval 6107 feet to 6270 feet

(perforated or open-hole, indicate which)

packer

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

Other Data

1. Name of the injection formation:

No

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

<u>Paddock</u>

- 2. Name of Field or Pool (If applicable) Paddock
- 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 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.

1/
Y
/

Greenhill Pe	troleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#34	1830' FSL & 660' FEL	31	16S	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date 2-10-54

Surface Casing

Size: 8-5/8" Cemented with 1075 SX

CIRC
TOC: Surface foot determined by sales

TOC: Surface feet determined by calc

Hole size: //

Intermediate Casing

Size:

Cemented with

SX

_*85|8"* 2049'

TOC:

feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 535 SX

TOC: 3257 feet determined by temp survey

Hole size:

Total Depth: 6250'

TO 6250'

5'l2" 6110'

Injection Interval

6110 feet to 6250 feet (perforated or open-hole, indicate which)

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

packer

at 6075 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.

Texaco		State "0'	ı	-	
OPERATOR		LEASE	***		
14	1980' FSL & 660' FEL	31	168	37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Tubular Data

Completed 4-23-53

TO be corrected pursuant to order R 9431

Surface Casing

Size: 13-3/8" Cemented with 235 SX

TOC: Surface feet determined by calc

133/3*

Hole size: 18"

Intermediate Casing

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

TOC: 819 feet determined by 50% calc

Hole size: 12-1/4"

95/8" 3320' Long String

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

TOC: 4071 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8429'

TO 8429'

51/2"

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 Pet	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 . 85%" Cemented with SX Size: 2041' 2020 TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 400 SX TOC: 4077 feet determined by temp survey

6110' 6092 TO 6252

Hole size:

Total Depth: 6252'

Injection Interval

feet to feet (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:
- 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
- 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.

No

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

Greenhill Pet OPERATOR	roleum Corporation	<u>, , , , , , , , , , , , , , , , , , , </u>	LEASE	ton San And	ires unit	<u></u>
#16	2310 FEL & 1980	FS!	· 31	T16S	R37E	
WELL NO.	FOOTAGE LOCA		SEC.	TOWNSHIP	RANGE	
		Surface		bular Data		-
Completed 12/6/39	13" 294',	TOC:	ourforc ze: diate Cas 8 5/8 "	15 1/4 ing Cemented	etermined	by <u>Circi</u>
Converted to Injection 3/16/63	5'2" 4605'	Hole Si	ze:	10 1/4.	with	1
		•	on Interv	4950'	4950	feet
Tubing size 23	/8 lined with P	(perfor	ated or o	pen-hole, i	indicate w	hich)set in a
(brand & model) (or describe any ot		•	One of the second se			,
L. Name of the inj	action formation		Sa	ın Andres		
2. Name of Field o				•	n Andres	
I. Is this a new w	•	njection	?	No	Prod	uction
intorvals and gused.	give plugging deta					
i. Give the depth (pools) in this	to and name of an	y overly	ing and/o	or underlyin	ng oil or	gas zones

<u> Underlying - Grayburg</u>

Texaco ` OPENATOR	State "0" LEASE
HELL NO.	1650' FSL & 2310' FEL 31 16S 37E FOOTAGE LOCATION SEC. TOWNSHIP RANGE
	Tubular Data
Completed 8-08-52	Surface Casing Size: 13-3/8 " Comented with 245 SX TOC: Surface feet determined by Circ ealc liole size: 18" /6 13 3/8 236' Intermediate Casing Size: 8-5/8 " Comented with 1800 SX TOC: Surface feet determined by calc liole Size: 12-1/4" 5% Long String Size: 5-1/2 " Comented with 700 SX TOC: 3984 feet determined by 80% calc
	Total Depth: 8444' 8444' Injection Interval feet to feet (perforated or open-hole, indicate which)
Tubing size	lined with set in a
Other Data	packer atfeet.) ther casing-tubing seal).
	Jection formationLovington Abo
3. Is this a new	well drilled for injection? t purpose was the well originally drilled? Production
4. Has the well e	ver be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s)
5. Give the depth (pools) in thi	to and name of any overlying and/or underlying oil or gas zones s area.

Above Drinkard

OPERATOR	Petroleum Corporation	<u>!</u>	LEASE	ton San Andr	ES	
#60	1283' FSL & 2527'	FWL	31	16S ·	37E	
WELL NO.	FOOTAGE LOCA		SEC.	TOWNSHIP	RANGE	·· · · · · · · · · · · · · · · · · · ·
			Tv	bular Data		
Completed		Surfa	ce Casing			
1-31-90		Size:	13-3/8	Cemented v	with 450	sx
			•	•	etermined by	circ
	3951	Hole	size: <u>1</u>	7-1/2"	na a na ana ana ana ana ana ana ana ana	
-	133/1"	Inter	mediate Cas	ing		
		Size:	8-5/8	Cemented	with 600	S
	20531	TOC:	215	feet de	etermined by	calc
	85/8	Hole	Size: 11	12 14		
			String			
		Size:	5-1/2	Cemented	with <u>1450</u>	S
•	5340'	TOC:	Surface	feet d	etermined by	calc
•	, } 5½"	Hole	Size: 7-	-7/8 "		•
	<u> </u> 5400 '	Tota1	. Depth: _	5400'		
	TD		tion Inter		 	•
				feet to	ndicate which	feet
Tubing size	lined with	•	•			set in a
			(mat	erial)	· · · · · · · · · · · · · · · · · · ·	
(brand & mod						
•	other casing-casing	, scar,	· •			
Other Data	injection formation		San	Andros	•	
	_			•		
	d or Pool (If applie			on San Andre	<u>.</u>	
	w well drilled for that purpose was the			drilled? P	roduction	
	ever be perforated d give plugging det					forated
5. Give the dep	th to and name of a	ny ove	rlying and/	or underlyin	ng oil or gas	zones
	erlying-Grayburg					

OK

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

Tubular Data

Work over Aug Sopt 1968 Sg 2d from 6400, 5000, 64600 W/ total 12005X TOC 4000 by Temp Survey

Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 16"

Intermediate Casing

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

TOC: Surface feet determined by calc

qs/g" Hole size: 12" *3360'* Long String

133/8"

Long String

Size: 7" Cemented with 404 SX

TOC: 3798 feet determined by 80% calc

7" Hole size: 8

Total Depth: 8460'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

Above Drinkard

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

Gréenhill	Petroleum Corporation Lovington Paddock
OPERATOR	LEASE
# 27	1960' FWL & 1980' FSL 31 16S 37E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
•	Tubular Data
•	
Completion	Surface Casing
6-16-53	Size: 13-3/8 " Comented with 350. SX
Converted to	TOC: Surface feet determined by calc
Injection	15% Hole size: 17-1/4"
6/67	303
	Intermediate Casing
	Size: 8-5/8 " Cemented with 900 S
	TOC: 656 feet determined by 50% cal
,	11"
•	2410
	Long String
	Size: 5-1/2 " Cemented with 250 S
•	TOC: 4692 43/6 feet determined by 80% cal
	Hole Size: 7-7/8"
	S ^V ₁ 6275' Cotal Depth: 6275'
, .	TD Injection Interval
	6275 6080 6275
	feet to feet (perforated or open-hole, indicate which)
Tubing size 2-3/5	8" lined with IPC set in a
Aubing Bize _2-3/4	(material)
(brand & model	packer at 6000 feet.
	ther casing-tubing seal).
ther Data	
	Paddock
. Name of the in	jection formationPaddock
. Name of Field	or Pool (If applicable)
	well drilled for injection? <u>No</u> t purpose was the well originally drilled? <u>Production</u>
intervals and used.	ver be perforated in any other zone(s)? List all such perforated give plugging detail (sacks of cement or bridge plug(s)
i. Give the depth (pools) in thi	to and name of any overlying and/or underlying oil or gas zones s area.
	Glorieta

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	Greenhill OPERATOR	Petroleum Corporation	Loyington San Andres Unit LEASE	-
	#14 WELL NO.	819 1980 FSL & 818 FOOTAGE LOCATI	FWL 31 T16S R37E	
			Tubular Data	
	•	111	urface Casing	
		S	lize: 10 3/4 ". Comented with 250 s	
			COC: Surface feet determined by calc	<u>-</u> -
		1 1 1074	lole size: 12 1/4	
		314.	Intermediate Casing	
Cor	mpleted		Size: 7 5/8 " Cemented with 500 S	X
	/7/39	· L / //	roc: 363.7 feet determined by 50% cal	lc.
	nverted to njection	3000'	lole Size: 9 1/4 ·	
	3/15/63	1	Long String	
	•		Size: 5 1/2 " Cemented with 200 S	X
٠.		5 ^{1/2} 1530	roc: 604' feet determined by 80% cal	<u>lc</u>
	•		lole Size: 6 1/4	
		5087	Total Depth: 5087'	
(•	•	Injection Interval	
	•		4530 feet to 5087 feet (perforated or open-hole, indicate which)	· - ,
Tul	bing size	2 3/8 lined with	IPC set in a (material)	1
(or	(brand & mo		cker at 4468.11 feet.	
	er Data	. •		
1.	Name of the	injection formation _	San Andres	
•		•	ble) <u>Lovington San Andres</u>	-
3.		ew well drilled for in what purpose was the w	jection? No ell originally drilled? Production	
4.		nd give plugging detai	n any other zone(s)? List all such perforated l (sacks of cement or bridge plug(s)	
		No .		
5.	Give the de (pools) in		overlying and/or underlying oil or gas zones	•
		Underlying - Grayburg		

Greenhill Pe	troleum Corporation	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

95/8"

Size:

Cemented with

SX

2011' TOC:

feet determined by

Hole size:

Long String

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

TOC: 3869 feet determined by 70% calc

5/2" 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? 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.

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

Tubular Data

Completed 4-13-52

Surface Casing

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

TOC: Surface feet determined by calc-

133/3" Hole size: 18" 260'

Intermediate Casing

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

TOC: 1046 feet determined by 50% calc

85/3" Hole size: 11" 3/90'

Long String

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

TOC: 4298 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8520'

Injection Interval

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

Tubing size - lined with - set in a - packer

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

51/2"

TO 8520'

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

Tidewater. Ge	c Hy	State "M"	
· OPERATOR	<i>J</i>	LEASE	
2 2620		26 160	
2 3630 WELL NO.	FOOTAGE LOCAT		
,		Tubular Data	***************************************
•	. ed Tail 1 :	ANNIANAMALISMA	•
Completed	1054 프	Surface Casing	•
3-03-52		Sizo: 13-3/8". Comented with	, sx
P&A 6-26-73 .		TOC: Surface feet determined by c	alc
		liole size: 17-1/4"	
1" liner 4823 - 8459	133/8	Intermediate Casing	•
m 400 sx.	316		
To be corrected		Size: 9-5/8" " Cemented with 3000	sx
pursuant to order		TOC: Surface foot determined by	alc
R 9431		Nole Size: 12-1/4"	
	4088-		
	4796 : 4054	Long String	
	45/8	Size: 7 " Cemented with 400	sx
•	4971	TOC: 5820 feet determined by C	103 r
,	5651	Nole Size: 8-3/4"	•
		Total Depth: 8460'	
	8148-	Total Deptil:	
	TOX LTP	Injection Interval	
	४५५०	feet to	eet '
•		(perforated or open-hole, indicate which)	٠.
Tubing size	lined with	ant.	in a
	,	(material)	~~~ ***
(brand & model)		packer atfeet.	
(or describe any of		g seal).	
Other Data			
	jection formation		
2. Name of Field	or Pool (If applie	cable) Lovington Abo	
	well drilled for :	injection? No well originally drilled? Production	
•			 ,
		in any other zone(s)? List all such perfor all (sacks of coment or bridge plug(s)	atod
5. Give the depth (pools) in thi	to and name of a	any overlying and/or underlying oil or gas zo	กอร
	Above Drinkard		



Greenhill Pe	troleum Corporation	Lovington	Paddock	
OPERATOR	H30	LEASE		
#33	1650' FSL & 4 00 ' FEL	36	165	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

<u>Tubular Data</u>

10 74 Surface Casing Completion 2-2-53 Size: 8=5/8" Cemented with 250 Deepened for TOC: Surface feet determined by cate Circ Inj. 12/66 6150-6237' Hole size: 13 1/5/ Converted to Intermediate Casing Injection 12/66 312' Size: Cemented with SX DV To be corrected feet determined by TOC: pursuant to order Hole size: R9431 Long String 7" Cemented with 400 SX Size: 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

packer

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

Other Data

1. Name of the injection formation: Paddock

- 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.

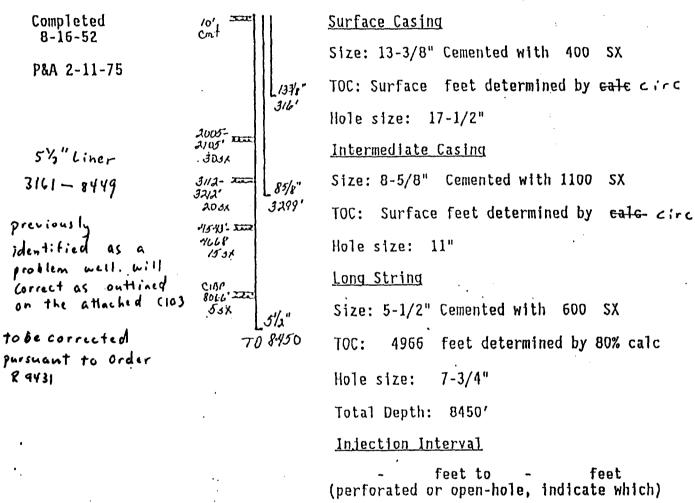
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Above Glorieta

No

Getty		State '	'M"	•	
OPERATOR		LEASE			•
3	1650' FSL & 1650' FEL	36	165	36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	-

Tubular Data



lined with - set in a - packer

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

Other Data

Tubing size

- 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.

(Above) Drinkard

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

Greenhill Pe	troleum Corporation	oration Lovington Paddock		
 OPERATOR		LEASE		
#32	1750' FSL & 1650' FEL	36	168	36E
 WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date Surface Casing 3-19-53 Size: 8-5/8" Cemented with 1000 SX TOC: Surface feet determined by cate しゅし To Be Corrected Pursuant Hole size: // R 9431 Intermediate Casing SX Size: Cemented with 85/8" 20971 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: TO 6229 Total Depth: 6229' Injection Interval feet to

Tubing size - lined with - set in a

packer 🕙

(perforated or open-hole, indicate which)

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.

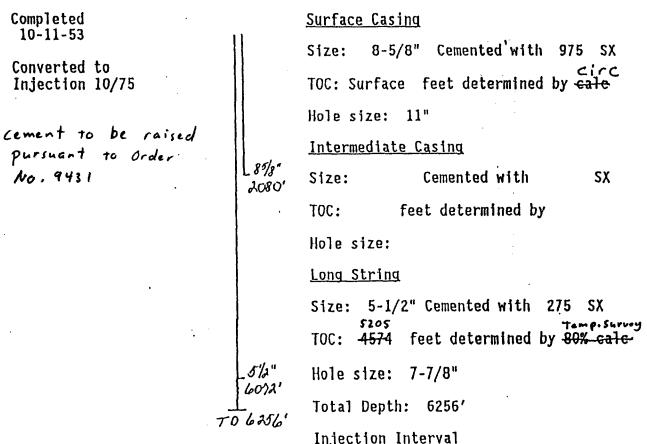
	Tollium Corp. Lovington Maddock
· OPERATOR	LEASE
84	1100 FEL : 2285 FSL 36 T/65- R36 E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
11.22.2	
•	mululan Daha
	Tubular Data
	Surface Casing
	ti i
	Sizo: /3 ³ /8 ". Comented with 500 SX
	mag.
•	TOC: Surface feet determined by cake
~p4/5/90	131/8 Hole size: 171/2
	1 350
	Intermediate Casing
•	Clare 256 & Computed with 12.46 . CV
	Size: 8 % Comented with 1200 SX
	TOC: Inface feet determined by 50% co
	1 - 8 1/8 V
•	3019 Hole Size: //
	The state of the s
	Long String
•	Size: 5½ " Cemented with 1040 SX
•	Forsy TOC: 788 feet determined by 80% co
•	70
	6470 Hole Size: 778
	Total Depth: 6470
	Ideal papen:
	Injection Interval
	feet to feet
•	(perforated or open-hole, indicate which)
Tubing size	lined with set in a
	(material)
	packer atfeet.
(brand & mode)	
or describe any	other casing-tubing seal).
ther Data	
Name of the 1	njection formation
	- 4 (-7)
. Name of Field	or Pool (If applicable) Louington Paddock
l Tabble a nov	well drilled for injection?
	at purpose was the well originally drilled?
The troy Lot His	as purpose was the west originary oriston.
4. Ilas the well	ever be perforated in any other zone(s)? List all such perforated
	give plugging detail (sacks of cement or bridge plug(s)
intervals and	
intervals and	
intervals and used. Give the dept	h to and name of any overlying and/or underlying oil or gas zones
intervals and used.	h to and name of any overlying and/or underlying oil or gas zones is area.
intervals and used. Give the dept	h to and name of any overlying and/or underlying oil or gas zones is area. (About) Glorieta

OPERATOR	oleum Corporation	LEASE
#54? WELL NO.	1980' FSL & 1980' FOOTAGE LOCAT	
		Tubular Data
ıd 1-7-63		Surface Casing
m. 89	7	Size: 7-5/8 " Cemented with 240 SX
May H	/2 C52 .	TOC: Surface feet determined by catc (
rr his a	V 1608 25/8"	Hole size: 9-7/8"
15	76	Intermediate Casing
400 5.		Size: Cemented with SX
770		TOC: feet determined by
		Hole Size:
	41/2"	Long String
	5070'	Size: 4-1/2 " Cemented with 235 SX
	5/10'	TOC: 2314 feet determined by Temp surv
		Hole Size: 6-3/4"
,	·.	Total Depth: 5110'
		Injection Interval
		4662 feet to 5037 feet (perforated or open-hole, indicate which)
ubing size	2" lined with	IPC set in a
?	וס	(material) acker at 4579 feet.
(brand & mode		
•	other casing-tubing	seal).
ther Data		
Name of the	injection formation	San Andres
Name of Field	d or Pool (If applic	able)
	w well drilled for in hat purpose was the	njection? Yes well originally drilled?
		in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s)
		•

Greenhil	1 Petroleum Corp.	State P" Louis for laddeck
OPERATOR		LEASE
83	·2310 FWL 6/6	50 FSL Sec 36 T165-R36E
WELL NO.	FOOTAGE LOC	CATION SEC. TOWNSHIP RANGE
		· Tubular Data
· .	•	Surface Casing
		Sizo: /3 1/8 Comented with 245 SX
		TOC: surface feet determined by cale
ompleted .	1374	
10/11/52	. 1 -248	. Hole size:
180	· · · · · · · · · · · · · · · · · · ·	Intermediate Casing
.† 6400 4070 (226)		Size: 85/8 " Comented with 1200 SX
ew 18TD 6370 1/20	1/8/6	TOC: feet determined by 50% ca
•	4 1/8 3290	Hole Size: //
	3210	Long String
		Size: 5½ " Cemented with 900 SX
·	PBTD 6370	TOC: 3551 feet determined by 80% calc
• !	L .TD	
· ·	8454	Nole Size: 77/8
		Total Depth: 8454
		Injection Interval
·		feet to feet
		(perforated or open-hole, indicate which)
Tubing size	lined with	(material) set in a
		packer atfeat.
(brand & mo		
`	y ochar casing-casi	tag baazy.
Other Data		
1. Name of the	injection formation	onn
2. Name of Fie	ld or Pool (If appl	licable) Louing ton 160
		r injection? No
		he well originally drilled?production .
intervals a	l ever be perforate nd give plugging de	ed in any other zone(s)? List all such perforated etail (sacks of coment or bridge plug(s)
used.		
5. Give the de	oth to and name of	any overlying and/or underlying oil or gas zones
(pools) in		and everythe anotor amountains our or ses rouss
•	Above	Glorieta

 Greenhill	Petroleum Corporation	Lovington	Paddock		
 OPERATOR		LEASE			
#29	2130' FSL & 2130' FWL	36	168	36E	
 WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Tubular Data



Injection Interval

6256 6072 feet to 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)
- 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.

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

Tubular Data

Surface Casing Size: 13-3/8" Cemented with 350 SX TOC: Surface feet determined by calc Hole size: 17-1/2" 133/8 303 Intermediate Casing Size: 8-5/8" Cemented with 1800 SX circ 85/8" TOC: Surface feet determined by calc 3328' Hole size: 12-1/4" Long String Size: 5-1/2" Cemented with 1330 SX TD 8510' Temp Survey 1-265 feet determined by 80% calc 7-7/8" Hole size: Total Depth: 8510' 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).

Other Data

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

(Above) Drinkard

Cities Servic					tate AE	•	
OPERATOR 2	3630' FNL	ዴ ለ20በ/	. EEI		LEASE 36	168	36E
WELL NO.	:	LOCATIO		. <u></u>	SEC.	TOWNSHIP	RANGE
·.	·			<u>Tu</u>	bular i)ata	
Completed 1-09-53	703x		Surface	. Casin	ā		
מא כ כ כם			Size: 1	13-3/8"	Cemen	ted with 3	25 SX
P&A 6-6-69			TOC: St	urface	feet	determined	by calc
	·	133/8"	Hole s	ize: 1	7-1/2"	•	
		OIG.	Interm	<u>ediate</u>	Casing		
	·		Size:	8-5/8"	Cemen	ted with 21	.64 SX
54" csq. cut and			TOC:	Surface	e feet	determined	by calc
S''' (sg. cut and pulled down from 3200'	3250-	85/8" 3319'	Hole s	ize: 1	11"		
	J100' 2000	0077	Long S		-		
·	3560-355				II C		י פע
t. red. at 3988	503X		Size:	5-1/2	. cemer	ited with	550 SX
n 222 24 prion	Į.	-1/ n	TOC:	5600	feet o	letermined i	by temp surve
	70	512" P435'	Hole s	ize:	7-7/8'	ı	Sui re
	7.0		Total	Depth:	8435	,	
				ion In			
			(perfor			o - -hole, indi	
Tubing size -	lined w	rith -	set in	a	•		packer

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 Pe	troleum Corporation	Lovington	Paddock		
OPERATOR		LEASE			•
#31	1650' FSL & 890' FWL	36	16\$	36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	•

Tubular Data

Spud Date	Surface Casing
12-16-53	Size: 13-3/8" Cemented with 350 SX
	TOC: Surface feet determined by catc Circ 305%
133/8"	Hole size:
340'	<u>Intermediate Casing</u>
	Size: 8-5/8" Cemented with 2300 SX
	TOC: Surface feet determined by cate Circ 3005X
85/8" 3316'	Hole size:
3)16	Long String
	Size: 5-1/2" Cemented with 400 SX
	TOC: 4350 feet determined by temp
5/2"	Survey Hole size:
5/2° 6080'	Total Depth: 6204'
TO 6204'	Injection Interval
	- feet to - feet

- 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>
- 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.

Greenniii Pet	roleum Corporation	
OPERATOR		LEASE
	1980' FSL & 660' FWL	
WELL NO.	FOOTAGE LOCATI	N SEC. TOWNSHIP RANGE
•		Tubular Data
Completed 6-29-65	<u>S</u>	rface Casing
0-29-05	s	ze: 8-5/8 " Cemented with 825 SX
	r .	C: Surface feet determined by circ
	H	le size: 11"
		termediate Casing
	2064' 5	ze: Cemented withSX
	ن بصورا	C: feet determined by
		le Size:
•		ng String
	— [
•		ze: 4-1/2 " Cemented with 450 SX
	L5660'	C: 3581 feet determined by caic
	475" 1 TD	le Size: <u>7-7/8"</u>
	70	tal Depth: 5060
]	jection Interval
	.	4666 feet to 5034 feet erforated or open-hole, indicate which)
Tubing size2"	lined with	IPC set in a
Halliburton R-3	Tension page	(material) er at 4619 feet.
(brand & model	t) other casing-tubing :	
ther Data		
. Name of the ir	njection formation _	San Andres
	•	e) Lovington San Andres
. Is this a new	well drilled for in	11-
. Has the well ϵ	ever be perforated in	any other zone(s)? List all such perforated (sacks of cement or bridge plug(s)

Underlying-Grayburg



Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	11.50 FSL	LEASE		
#30	<i>1650 FSL</i> 3630 ' FNL & 330' FEL	35	168	36E
 WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed Surface Casing 4-12-53 Size: 13-3/8" Cemented with 350 SX 4/53 Plugged TOC: Surface feet determined by calc Back from Abo 133/8" Hole size: 17/4 Cmt 6275-6400' Cmt 8240-8400' 3391 Cmt 8600-8760' Intermediate Casing Size: 8-5/8" Cemented with 400 SX Converted to CIrc Injection 12/66 TOC: Surface feet determined by calc-Hole size: 11 85/3" 3369' Long String Size: 5-1/2" Cemented with 400 SX TOC: 4200 feet determined by temp survey Hole size: 7-7/8" 5%" Total Depth: 8760' 6087 PBTD Injection Interval 6270' 6087 feet to 6270 TO 8760' (perforated or open-hole, indicate which)

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

packer

at 5999 feet. (Or describe any other casing-tubing seal).

Other Data

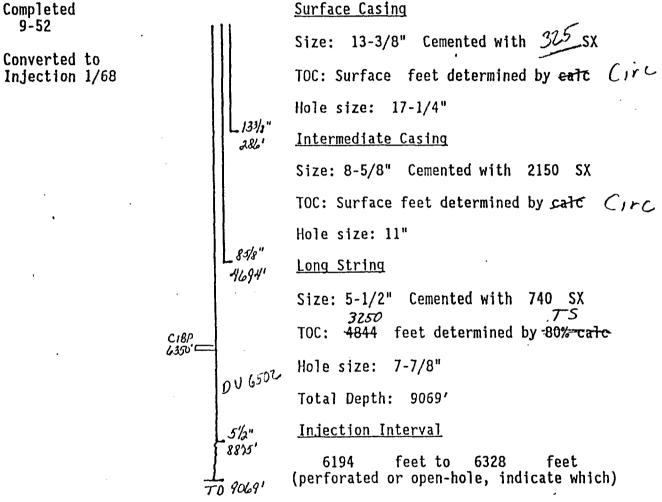
- 1. Name of the injection formation: Paddock
- Name of Field or Pool (If applicable) <u>Paddock</u>
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- 4. Has the well ever been perforated in any other zone(s)? List all such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

Greenhill Pet	roleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#44	660' FSL & 1880' FEL	35	16\$	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



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

packer

at 6164 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? 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.

		Petroleum Corporatio		<u>ington San Andr</u>	es Unit	
	OPERATOR		LEAS	SE	•	
	#27	660 FEL & 660	FSL · 35	T16S	R36E	
	WELL NO.	FOOTAGE LOCA			Range	
		•				
		. •				
		. •	, .	Tubular Data		
			Surface Casin	יים יים	•	
					•	
		.	Size: $7\frac{5/8}{}$	Comented w	ith600	SX
		. 1 •	TOC: Surfac	e feet de	termined by <u>calc</u>	•
			liole size: _	q 1/4"	•	•
			Intermediate		·	
Con	npleted		Size:	Cemented w	oith	SX
		-2035 75/8"	TOC:	feet de	termined by	
			Hole Size: _		-	
			Long String			•
			Size: 5 1/2	Cemented w	1th 300	SX
		4600'	TOC: 273	feet de	termined by 80% ca	ılc_
	•	51/2"	Hole Size: _	6 1/2"	•	•
•		1 5000°	Total Depth:	5000 '	<u> </u>	
	•		Injection Int	erval	•	
				Factor to	F	_
			(perforated o	feet to r open-hole, in	feet	•
•	•				•	
Tut	ing size	lined with'		aterial) ·	set in	a
		D			feet.	
	(brand & mo	del)		,	-	
(or	describe an	y other casing-tubing	; seal).			
Othe	r Data	, .		•	•	
1.	Name of the	injection formation				
2.	Name of Fie	ld or Pool (If applie	able)	Lovington San I	Andres	
3.		ew well drilled for in what purpose was the			Production -	
4.	intervals a used.	I ever be perforated nd give plugging deta				i
			•	,	• •	
5.	Give the de (pools) in	pth to and name of ar this area.	y overlying an	nd/or underlyin	g oil or gas zones	
,	•	Underlying - Grayburg	<u> </u>			

Texaco		Skelly	"S" State	
OPERATOR		LEASE	,	
2 ·	990' FSL & 330' FEL	35	168	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed	Surface Casing		
. [[[Size: 13-3/8" Cemented with 246 SX		
P&A 6-6-69	TOC: Surface feet determined by calc Circ		
133/8	" Hole size: 18"		
270	Intermediate Casing		
	Size: 8-5/8" Cemented with 1300 SX		
85/8" 3291'	TOC: Surface feet determined by calc		
	Hole size: 11"		
	Long String		
2001	Size: 5-1/2" Cemented with 900 SX		
BFGIHS	TOC: 3568 feet determined by 80% calc		
L51/2" T0 84/71	Hole size: 7-7/8"		
	Total Depth: 8471'		
	Injection Interval		
	<pre>- feet to - feet (perforated or open-hole, indicate which)</pre>		

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>
- 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	Greenhill Petroleum Corporation		Paddock'	
OPERATOR		LEASE		
#43	660' FSL & 460' FEL	35	168	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

<u>Tubular Data</u>

Spud Date Surface Casing (מכקון 4-29-54 Cemented with 1800 SX TOC: Surface feet determined by calc Hole size: // Intermediate Casing 85/8" 3245' Size: Cemented with SX TOC: feet determined by Hole size: Long String 5%" Size: 5-1/2" Cemented with 485 SX 6093 TOC: 3613 feet determined by temp TO 6285' Hole size: 778 Total Depth: 6285' Injection Interval

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

Tubing size - lined with - set in a

packer

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

Other Data

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

No

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

Greenhill Pet	Greenhill Petroleum Corporation		Paddock	
OPERATOR		LEASE		
#42	990' FWL & 660' FSL	- 36	165	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed		Surface Casing
11-17-55		Jui race Gasting
		Size: 13-3/8" Cemented with 300 SX
		Size: 13-3/8" Cemented with 300 SX TOC: Surface feet determined by calc Hole size: /7 /4 Intermediate Casing
	133/8"	Hole size: 17 /4
	326'	Intermediate Casing
	85/8"	Size: 8-5/8" Cemented with 2000 SX
		TOC: Surface feet determined by calc C/C
· H		Hole size: 11-1/4"
L		Long String
		Size: 5-1/2" Cemented with 400 SX
		TOC: 3883 feet determined by 80% calc
	51/1"	Hole size: 7-7/8"
6	062'	Hole size: 7-7/8" Total Depth: 6250' Injection Interval
·	625V	Injection Interval

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

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

packer

at 6007 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation: Pa

<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.

1 enrog		State				
OPERATOR	330 F54 996	A Flin	Lease			
•		•		•		
	4950 FNL & 429		<u>36</u>	16S	RANGE	
WELL NO.	FOOTAGE LOCA	TION	SEC.	TOWNSHIP	RANGE	
	•					
•						
			Tut	bular Data	•	_
•						•
Completed	111	Surface	Casing	• •	•	•
11-1-52	1.11		_	、 ·		,
		Size: 1	<u>3-3/8 </u>	. Comented will	th <u>350</u>	
			. .	., .		CIOC
	. • []]	TOC:	Surface	feet det	ermined by	ealc_
Cement to	133/8		1.7_	-1 / / #	•	
be raised pursuan	1 1 13 18	llole si	ze: <u>17-</u>	-1/4	-	
	+ 314'	~	11 4 - 4 -		•	•
to Order R 943 1		Incerme	diate Cas	ing .		
•			8-5/8 "	Cemented wi	-h 1000	. ev
•		21Z8:	- 370	COMPLICAC MT	CII. 1300	
		TOC.	Surface	feet det	arminad by	. CIFC
	.	100:		TOOL GOL	ormriion ny	Call
	•	Note St	70. 11"			
•	95/8	MOTO DI	20.			
•	7 3350.	Long St	ring		•	
		2220				_
	1	Size: 5	-1/2 "	Cemented wi	th 400	sx
	• 1	\ <u></u>		•		
•		TOC: 6	251 ·	feet det	ermined by	: 80% c
	. .					. •
		Hole Si	.ze: 7-	7/8"		
	5 1/2"			•		•
	708430	Total D	epth:	84301		•
• •			•	_		
•	•	Injecti	on Interv	<u>/al</u>	• .	
		•				_
		•		feet to _		feet :
• •	٠,	(perfor	ated or c	open-hole, ind	iicate whic	in)
matel man and man	1 days of and ada.		-	· . ·	• •	
Tubing size	lined with		· (mati	erial)		set in a
	•	packer at	•	arrari	foot.	
(brand & model)	· · · · · · · · · · · · · · · · · · ·	packer at	- 			
(or describe any oth	ar casino-tubir	o seal)	5.v*			
(or describe any een	or casking capki	.6		•	•	
Other Data			•			•
oction basis			•			
1. Name of the inje	ction formation	ı		•		•
2		-				
2. Name of Field or	Pool (If appli	(eldable	Lov	ington Abo	•	
	, arom (-a -ff			•	• .	
3. Is this a new we	11 drilled for	injection	n?	No	•	
If no, for what	nurnoga was the	well or	Ipinally	drillad? Pro	oduction	
IL No, Lot miac	barbana wan circ	THULL UL.	-64			
4. lias the well eve	r be perforated	i in anv	other zen	o(s)? List s	II such par	rforsted
intervals and gi						
used.		• • • • • • • • • • • • • • • • • • • •			(
·	<u> </u>		· -	<u> </u>		
	•		•	•		•
5. Give the depth t		any overl	ying and/	or underlying	oil or gas	s zones
(pools) in this		`			•	
Above Drink	ard ·				٠	
					·	
•	•			•	•	

	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 8-5/8" Cemented with 875 SX Cement to be TOC: Surface feet determined by care Circ raised pursuant to Order No. R9431 Hole size: Intermediate Casing SX Cemented with Size: 85/8 2048' TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 275 SX TOC: 4700 feet determined by temp Hole size: 5/2" Total Depth: 6260' 6055 Injection Interval TO 6260'

- 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>
- 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.

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

<u>Tubular Data</u>

Completed 6-30-52	114	Surface Casing
0-30-52		Size: 13-3/8" Cemented with 245 SX
	12 3/04	TOC: Surface feet determined by calc
	85/8" 3350'	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"
	3330	Long String
		Size: 5-1/2" Cemented with 800 SX
		TOC: 4093 feet determined by 80% calc
		Hole size: 7-7/8"
	上5%" TO 8450'	Total Depth: 8450'

<u>Injection Interval</u>

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

Tubing size - lined with - set in a - packer

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

Other Data

- 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 Pe	Lovington	Paddock		
 OPERATOR		LEASE		
#40	1980' FEL & 810' FSL	36	16\$	' 36E
 WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing Completed 10-07-53 8-5/8" Cemented with 850 SX Size: TOC: Surface feet determined by calc Hole size: 11" Intermediate Casing 85/8" 8 9431 Size: Cemented with SX 2043' TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 265 TOC: 4565 feet determined by 80% calc Hole size: 7 1/8 Total Depth: 6252' 6009 Injection Interval TO 6252' 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? 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.

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

Tubular Data

Completed	111	Surface Casing
4-23-52		Size: 13-3/8" Cemented with 265 SX
		TOC: Surface feet determined by calc
•	133/3"	Hole size: 18"
		Intermediate Casing
	85/8" 334/3'	Size: 8-5/8" Cemented with 800 SX
	3343'	TOC: 798 feet determined by 50% calc
		Hole size: 11"
		Long String
		Size: 5-1/2" Cemented with 800 SX
·	51/2"	TOC: 4077 feet determined by 80% calc
	TO 8435'	Hole size: 7-7/8"
		Total Depth: 8435'
		Injection Interval
		- feet to - feet

- 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

Техасо '	Skelly "Q" State
· OPERATOR	LEASE
3	330' FSL & 330' FEL 36 16S 36E
	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
	• • • • • • • • • • • • • • • • • • • •
• .	<u>Tubular Data</u>
·	lii Surface Casing
	. ,
	Size: 13 ". Comented with 275 SX CIrc
	TOC: Surface feet determined by calc
	llole size: 18"
	Intermediate Casing
	Size: 8-5/8 " Cemented with 1750 SX
	CICC.
•	TOC: Surface feet determined by calc-
	Hole Size: 12-1/4"
	Long String
	Size: 5-1/2 " Cemented with 739 SX
	TOC: 4037 feet determined by Haliburt
	Hole Size: 7-7/8"
	1 < Y2
, ,	7D8442 Total Depth: 8442'
•	Injection Interval
	feet to feet
•	(perforated or open-hole, indicate which)
Tubing size	lined with set in a
	packer atfeet.
(brand & model) (or describe any other	casing-tubing seal).
Other Data	
1. Name of the injecti	
2. Name of Field or Po	•
	drilled for injection? No pose was the well originally drilled? Production
	e perforated in any other zone(s)? List all such perforated plugging detail (sacks of cement or bridge plug(s)
•	
5. Give the depth to a (pools) in this are	and name of any overlying and/or underlying oil or gas zones
Above Drinkar	

	Greenhill Pet	Lovington			
-	OPERATOR		LEASE		
	#39	810' FSL & 660' FEL	36	168	36E
	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing 8-5/8" Cemented with 900 Size: TOC: Surface feet determined by calc Circ Hole size: // R9431 Intermediate Casing 85/8' Cemented with SX Size: 2040' TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 275 SX TOC: 4632 feet determined by temp 5/2" Hole size: 6017 Total Depth: 6229' TO 6229' 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

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? 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 Petroleum Corporation		Lovington	Lovington Paddock		
_	OPERATOR		LEASE			
	. #38	810' FSL & 665' FWL	31	168	37E	
_	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	•

Tubular Data

Completed 6-28-53 Converted to Injection 1-71 Surface Casing

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

TOC: Surface feet determined by calc

Hole size: 12-1/4"

Intermediate Casing

95/8"

Size:

TOC:

Cemented with

SX

20901

feet determined by

Hole size:

Long String

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

3316 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6252'

TO 6252

Injection Interval

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

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

packer

at 5966 feet. (Or describe any other casing-tubing seal).

Other Data

Name of the injection formation:

Name of Field or Pool (If applicable)

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.

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

Tubular Data

Surface Casing

300

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 Calc

45/8"

Hole size: 12-1/4"

Note \$12e. 12-1

<u>Long String</u>

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

TOC: 4959 feet determined by 80% calc

54" Hole size: 7-7/8"

Total Depth: 8500

Injection Interval

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

Tubing size - lined with - set in a - packer

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

Other Data

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

(Above) Drinkard

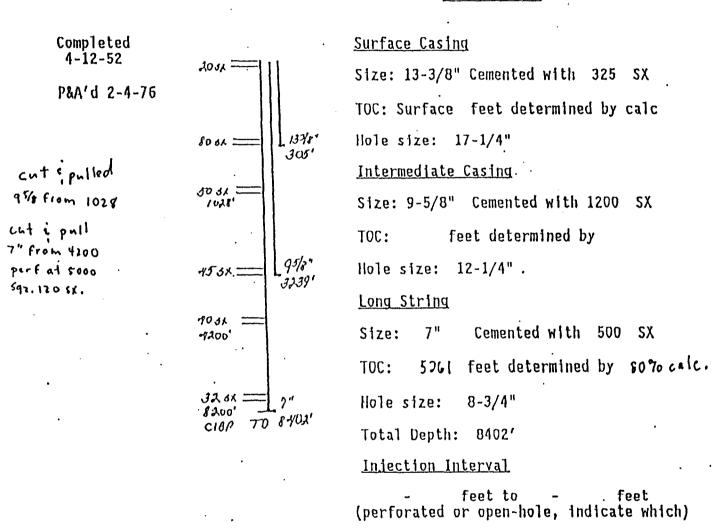
Greenh OPERATO		um Corporatio	on		on San And	res Unit		
OPERATO	OK .		•	Lease				
#23		560 FSL & 900		31		R37E		
WELL NO	0.	FOOTAGE LOCA	TION	SEC.	TOWNSHIP	Range		
		· · · · · · · · · · · · · · · · · · ·						
	•			Tub	ular Data			
			Surface	Casing				
		111	Size:	<u>13·</u> ″.	Cemented	with		
,			TOC:	Surface	feet d	letermined	l by	circ.
	•	13"	llole si	.ze:	14	•	,	
,			Interme	diate Casi	lng			
	•	95/8"	Size:	9 5/8 "	Cemented	with	500	sx
Completed 6/2/39		3013'	TOC:	1773	feet d	letermined	l by <u>[5</u>	0% calc
			Hole Si	ze:	11 1/4			
	•	7"	Long St	ring			•	
		}. } 4551'	Size:_		Cemented	with	200	sx
•		TD 5081	TOC: _	2735	feet d	letermined	i by 2	30% calc
		•	Hole S	lze:	8 1/4		•	• r
			Total I	Depth:	5081'	·····		
	•		Inject	lon Interv	a <u>l</u>	• .		
			_	·	feet to			feet
•	•		(perfo	rated or of	pan-hola, i	Indicate v	vhich)	•
Tubing size		lined with			· ·	·		t in a
				(mate)			. 4-	•
(brand &	model)	1	раскег а	t		fec	€.	
		casing-tubin	g seal).		•	•		
Other Data	•	•				•		
1. Name of	the injection	on formation	1	San An	dres	•	***************************************	
2. Name of	Field or Po	ol (If appli	cable)	Loving	ton San An	dres		÷-7
		drilled for						
If no, f	or what pur	pose was the	well or	iginally di	rilled?	Product	<u>ion</u>	
		e perforated plugging det						rated
5. Give the		nd name of a	ny ovarl	ving and/or	r underlyfi	ng oil or	PAS 7	ones
	in this are	a. ·	, ,			,	,	
	'Underlying	- Grayburg						•

	Greenhill Pet OPERATOR	roleum Corporatio	n	Loving LEASE	ton San Andı	res Unit	
	•		•				
	#22 WELL NO.	330 FSL & 165 FOOTAGE LOCA		31 SEC.	T16S TOWNSHIP	R73E RANGE	
	WELL NO.	rooman room	LION	BEO.	TOWNSHILL	MIND	•
<u> </u>			**************************************	Tul	bular Data		
		111	Surface	Casing		•	
					. Cemented i	vith <u>200</u>	_sx
	•		TOC:	Surface	feet d	stermined by <u>ca</u>	lc'
	•	. 134	llole si		15/2	•	
		2991		diate Cas	ing		
					Cemented	with 500	SX
	pleted /19/55	95,"				etermined by 50%	
Dee	pened to 4917	30021	llole Si		11 14 .	outline of town	<u></u>
	6/8/66		Long St				
	pened to 5086 2/4/86	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Cemented	w1th200	_sx
-	•	יסטדף פדי	TOC:			etermined by 80% c	alc
•	•.	deepened			24	•	XII.Y
		4917	HOIS S.				
		TD 5086	Total I			5086	
		•	Inject	lon Interv	ral.	•	
	•		(perfo	rated or o	feet to pen-hole, i	ndicate which)	et.
Tul	ing size	lined with		<u></u>		set i	n a
				(mate	rial)	feet.	•
(or	(brand & model)		•				•
•	er Data	inor caprile caprile	, 000271				
				·	.		
1.	·	ection formation		•			
2.	Name of Field o	or Pool (If applie	cable)	Lov	ington San <i>F</i>	inares ·	
3.		vell drilled for i t purpose was the				Production	
4.		ver be perforated give plugging deta					ed
5.		to and name of ar	ny overl	ying and/o	or underlyin	g oil or gas zone	5
•		erlying - Graybur	g		•		•
						•	

	Arco		State 183	2 "A"		
	OPERATOR		LEASE			
	3	1959.54' FWL & 660' FSL	31	165	37E	
_	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSILLP	RANGE	

<u>Tubular Data</u>

. .)



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	Petroleum Corp	oration		Lovington	Paddock		
OPERATOR				LEASE			
#37	330′ FS	L & 2290'	FWL	31	168	37E	
WELL NO.	FOOTAGE	LOCATION		SEC.		RANGE	
				<u>Tubular</u>	<u>Data</u>		
Spud Date 8-6-53		<u>s</u>	urfac	e Casing			
0.0.33		S	ize:	13-3/8" Cem	ented with	350 SX	
				urface feet	determined	by calc	
	L/3	3 <i>3/</i> 8" 12' H	lole s	ize: 17/2		•	
		<u>I</u>	nterr	nediate Casing			
	85	<i>\b</i> "	ize:	8-5/8" Cemen	ted with 9	30 SX	
	32)9' T	oc:	1235 feet determined by temp			
	İ	H	lole :	size: //		-	
		<u>I</u>	ong :	String			
	51/2	, S	ize:	5-1/2" Cemen	ted with 2	250 SX	
	5 1/2 605	<i>∀</i> ′ 7	1	4290 feet de	termined by	temp survey	
	1 T062		lole	size: 7 1/7		· ·	
	-1 () 6A	1	Total	Depth: 6250'			
]	<u>ln iec</u>	tion Interval		•	
		(1	60 perfo	54 feet to rated or open-		feet cate which)	

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

packer

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

Other Data

1. Name of the injection formation:

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

No

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

Texaco		P	State "0"			
OPERATOR		-	LEASE			-
11	330' FSL & 2310' FEL	7	31	165	37E	
 WELL NO.	FOOTAGE LOCATION	V _e -Pers	SEC.	TOWNSHIP	RANGE	•

Tubular Data

Surface Casing Size: 13-3/8" Cemented with 240 SX TOC: Surface feet determined by cale 133/8" Hole size: 18" 240' 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 Size: \$5-1/2" Cemented with 850 SX TOC: 3809 feet determined by 80% calc 7-7/8" 5/2 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? 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 Pet	Greenhill Petroleum Corporation			Lovington Paddock			
OPERATOR		;	LEASE				
#36	660' FSL & 2160' FEL		31	168	37E		
WELL NO.	FOOTAGE LOCATION		SEC.	TOWNSHIP	RANGE		

Tubular Data

Size: 8-5/8" Cemented with 1475 SX Converted to Injection 1/71 Toc: Surface feet determined by ealch Hole size: 11" Intermediate Casing	Completed		Surface Casing
Hole size: Long String Size: 5-1/2" Cemented with 400 SX TOC: 4077 feet determined by temp survey Hole size: 7-7/8" Total Depth: 6245' Injection Interval	12-3/53 Converted to		Size: 8-5/8" Cemented with 1475 SX CICC TOC: Surface feet determined by calc Hole size: 11" Intermediate Casing
TOC: 4077 feet determined by temp survey Hole size: 7-7/8" 5%" Total Depth: 6245' Loso' Injection Interval	· .	3145°	Hole size:
Injection Interval			TOC: 4077 feet determined by temp survey
0030 1661 10 0240 1661		TO 6245'	* * 7

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:

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.

					•
Texaco			State "O"	1	•
OPERATOR	99	?O	LEASE		
23	990' FSL & -66	θ' FEL	31	168	37E
WELL NO.	FOOTAGE LOCATI	ION	SEC.	TOWNSHIP	RANGE
			<u>Tubular (</u>	<u>)ata</u>	
Completed	1.1	<u>Surface</u>	Casing		
11-6-54		Size: 8	* 3-5/8" Cement	ted with 15	75 SX
	·	TOC: Sui	rface feet o	determined	by calc
		Hole siz	ze: 11"		
		Intermed	g diate Casing		
		Size:	Cemen	ted with	SX
		TOC:	feet det	ermined by	
	3162	Hole si	ze:		. •
	• •	Long St	ring		
		Size:	: 5-1/2" Cemen	ted with 8	75 SX
		TOC:	3 673 feet d	etermined b	y 80% calc
		Hole si	ze: 7-7/8"		
	51/2"	Total D	epth: 8440'		•
	TO 8440'	<u>Injecti</u>	on Interval		
			feet to ted or open-	hole, indic	feet ate which)
Tubing size –	lined with -	set in a	-	р	acker
at - feet.	(Or describe any	other cas	ing-tubing s	eal).	
Other Data					
1. Name of the i	njection formation	n:			
,	or Pool (If appl		Lovington Dr	<u>inkard</u>	
	wwell drilled for tat purpose was th			lled? <u>Produ</u>	<u>iction</u>

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

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or

bridge plug(s) used.

		、 ·	Marie Marie			
Greenhill Peti	roleum Corporation	n	Lov	ington	Paddock	
OPERATOR				LEASE		
#35	810' FSL & 810	O' FEL	•	31	168	37E
WELL NO.	FOOTAGE LOCAT	ION	100 miles (100 miles (SEC.	TOWNSHIP	RANGE
		:	<u>I</u>	<u>ıbular</u>	<u>Data</u>	
Spud Date		Surfac	e Casir	<u>1</u> g		
3-20-54		Size:	8-5/8	3" Cem	ented with	975 SX
			ŧ.		determined	Circ
		Hole s	ize:			
	2048'	Intermediate Casing				
	2018	Size:		Cemen	ted with	SX
		TOC:		feet d	etermined b	у
		Hole s	ize:			
		Long S	String			
		Size:	5-1/2"	Cemen	ited with 5	85 SX
	_5'\2" 6078'	TOC:	3225	feet de	termined by	
•	TO 6262'	llole	size: 7	1/8		survey
		Total	Depth:	6262′		
		Inject	tion In	<u>terval</u>		
		; (perfo			hole, indic	
Tubing size -	lined with -	set in	a	-	. \$	oacker
at - feet.	(Or describe any	other c	asing-t	ubing s	seal).	
Other Data		<i>i</i>				
1. Name of the i	njection formatio	n:				
	or Pool (If appl		<u>Padd</u>	lock		
		1				

. Has the well ever 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

If no, for what purpose was the well originally drilled? Production

Is this a new well drilled for Injection? No

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

Above Glorieta

Greenhill P OPERATOR	etroleum Corporatio	n	Lovingt LEASE	on San Andre	es Unit		_
#20	660 FSL & 660	FEL.	· 31	T16S	R37E		
WELL NO.	FOOTAGE LOCA		SEC.	TOWNSHIP	RANGE	······································	***
		Surface (bular Data			•
:	111	Size:	13	. Comented w	/1th	20 s.	X
		TOC:	* Surface	feet de	termined	by calc	
		llole size	з: -	15	· .		
	13'	Intermed	lat <mark>e</mark> Cas	ing		.475	
Completed		Size:	8 5/8 "	Cemented			X
1/6/45	8 5/a "	TOC:	784	feet d	stermined	by <u>50% ca</u>	LC.
	2099'	Hole Siz	в: į	11 10/	<u></u>		
		Long Str	ing			450	
				Cemented 1	with	• •	X
•	5/2"	TOC:	/340 654	feet d	etermined	by <u>80% ca</u>	<u>lc</u>
•	{ 4560'	Hole Siz	B:	5-114	7	•	
•	4945	Total De	* p th:	4945'		•	
	·	Injectio	n Intery	al.	•	•	
,	•		·	_ feet to		foet	
•		(perfora	ted or o	pen-hole, i	ndicate w	hich)	
Tubing size	lined with		(mate	rial)		set in a	ŀ
(brand & mode		acker at	2 -		fee	t.	
	other casing-tubing	g seal).					
Other Data	• • •		· ·		•		
1. Name of the	injection formation		S	an Andres .			-
2. Name of Field	l or Pool (If applic	cable)	Lo	ovington San	Andres		•
	v well drilled for i				Proc	luction	-
	ever be perforated I give plugging deta No						
5. Give the dept	th to and name of ar	y overlyi	ng and/o	r underlyin	g oll or	gas zones	-
· · · · · · · · · · · · · · · · · · ·	Underlying - Graybo	urg	**************************************	·	. •		

Texaco '	St	tate "P"
· OPERATOR		LEASE
2.40	onot per e	22 160 270
WELL NO.	FOOTAGE LOCA	S 330' FWL 32 16S 37E TION SEC. TOWNSHIP RANGE
HENCE ATO F		
	· .	
•	•	Tubular Data
Completed		ANNAMALEMEN
3-28-54	711	Surface Casing
1	- 111	Sizo: 13-3/8 Comented with 350 S
ment to be		TOC: Surface feet determined by calc
	13.4	y ,
ised pursuant	134	. Hole size: 17-1/2"
Order R9431		Intermediate Casing
		THEORING CO COSTING
		Size: 8-5/8 " Cemented with 1250 S
		TOC: Surface feet determined by calc
•	· L 85%"	Hole Size: 11"
•	3411	•
		Long String
		Size: 5-1/2" " Cemented with650S
5/2 liner	. 1	
3375-8423		TOC: 5210 feet determined by C 103
3375 0.15	L 532"	
	8423'	liole Size: 7-7/8"
	•	Total Depth: 8423'
•	•	Injection Interval
•		- feet to - feet
•	•	(perforated or open-hole, indicate which)
•	• •	(portorator or open note) anatomic mixen)
Tubing size	linod with	set in a
	•	(material) packer at feet.
(brand & model)		packet at
(or describe any oth	er casing-tubin	g soul). 🖟 🤘
m.1 % .		
Othor Data		
1. Name of the inje	ction formation	
2. Name of Field or	Pool (If appli	cable) Lovington Abo
		No.
3. Is this a new we	all drilled for	injection? No Production
ir no, for what	burbose was che	well originally drilled? Production
4. Has the well eve	or be perforated	I in any other zone(s)? List all such perforated
intervals and gi		call (sacks of coment or bridge plug(s)
used.		
	<u>· </u>	
5. Give the depth	to and name of a	any overlying and/or underlying oil or gas zones
(pools) in this		
Above 1	Drinkard	

		<u>leum Corporatio</u>	on		<u>on San And</u>	<u>res Unit</u>	
	OPERATOR	660 FSL 33	30 EWG	LEASE		•	
	#19	1980-FNL & 231		· 32	T16S	R37E	
	WELL NO.	FOOTAGE LOCA		SEC.	TOWNSHIP	RANGE	
		•		6 ,			
		· · · · · · · · · · · · · · · · · · ·					
	•	•		Tub	ular Data		•
				•	•		
			Surface C	asing			
			Size:13	3/8 ".	Comented	with20	xs
	. •	319'	TOC:S	urface_	feet d	etermined b	y <u>calc</u>
			llole size	: 1	7 1/4		• •
		85/x"	<u>Intermedi</u>	ate Casi	ng ·		
		2/13'	Size:8	5/8 ~	Cemented	with30	00sx
Comple 1/5/			TOC:	1193	feet d	etermined b	y 50% calc.
			Hole Size) :	11 .		
		51/1	Long Stri	ng .			•
		{- 4617' {. ·	Size: 5	1/2 "	Cemented	with30	00sx
•		L 4946' 7D	TOC:	2982	feet d	otermined b	y <u>80% calc</u>
	•		Nole Size) :	7 7/8	,	
			Total Der	th:	4946'		
	· .	•	Injection	<u>Interva</u>	1	•	
	·	•			feet to		feet
	•	•	(perforat	ed or op	en-hole, i	ndicate whi	lch)
Tubli	ng sizo	lined with	•		· ·	•	set in a
1002.	.,,,			(mator	ial)	•	•
			packer at _		<u> </u>	feet,	•
•	brand & model) escribe any othe	r casing-tubing	g seal).				
0.1		. •			•	•	
Other	<u>vaca</u>	•					
1. N	ame of the injec	tion formation		San	Andres		•
2. N	ame of Field or	Pool (If applie	cable)	Lov	<u>íngton San</u>	Andres	• •
	s this a new wel f no, for what p				0 111ed?	Produc	tion
11	as the well ever						orforated
u: 	sed. No	·.					
	ive the depth to pools) in this a	and name of a		:	underlyin	g oil or go	Renoz ea
	-	rlying - Graybı	Ira		•		•
	•	<u></u>		i-			

E. F. Moran	Shipp State "A"				
OPERATOR		,	LEASE	• • •	
1	330' FNL & 330'		5.	175	37E
WELL NO	FOOTAGE LOCATION	ON (SEC.	TOWNSHIP	RANGE
		Suu-France Co	Tubular (<u>Data</u>	
•		Surface Ca	₫.		
Completed 3-1-50	103/4"		0-3/4" Cemo ace feet		circ.
P&A'd 8-22-53	3/0'	Hole size	13-3/4"		
5 1/2 pulled from		<u>Intermedi</u>	ate Casing		
1500	1500' 1111111 1534	Size:	Cemen	ted with	. SX
		TOC:	fe	et determi	ned by
·.		Hole size	* •		
•	4660' ETTE 5/2"	Long Stri	nd		
•	4660'==== 3/2" 253x 4664'	Size: 5-1	/2" Cemen	ted with	400 SX _.
·	4934'	TOC: 248	5 feet d	etermined	by 80% calc
		Hole size	7-7/8"		•
		Total Dep	th: 4934'	•	
		Injection	<u>Interval</u>		
<i>y</i>	·	(perforate) - hole, indi	feet icate which)
Tubing size -	lined with -	set in a	-		packer
at - feet.	(Or describe any	other casin	ng-tubing s	seal).	
Other Data		12. (*) (*) (*)			
1. Name of the	injection formation	n: <u>NA</u>			
2. Name of Fie	ld or Pool (If appl	icable) <u>L</u>	<u>ovington</u>		
3. Is this a n If no, for	ew well drilled for what purpose was th	Injection e well ori	? <u>No</u> ginally dr	illed? <u>Pro</u>	duction

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

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

Greenhill P	etroleum Corporat	ion	Lovington Paddock			
OPERATOR #53	330' FNL & 8	40' FEL	L	EASE 6	175	37E
WELL NO.	FOOTAGE LOC	ATION	S	SEC.	TOWNSHIP	RANGE
			<u>Tub</u> ı	ular Da	ta .	
Spud Date 10-52		Surface	Casing			
		3	-		ted with termined	Circ
· .	13 ³ / ₈ " 258'	Hole si	ze: diate Ca	asing	•	
·		Size: 8	3-5/8" (Ceme nte	d with 2	
	85/8.			cei dei	e immed b	survey
	-1/4 to 5000'	Long St		_		
	5 1/2 to poro	Size: 5	•		d with 2 ermined by	

Hole size:

Total Depth: 14,153'

feet to

(perforated or open-hole, indicate which)

Injection Interval

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

packer

6194

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

Other Data

1. Name of the injection formation:

No

<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? 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 OPERATOR	Petroleum Corporatio	LEASE Lease
#36 WELL NO.	660 FNL & 204 FOOTAGE LOCA	
		Tubular Data Surface Casing
	15" - 336'	Size: 13 " Comented with 200 sx TOC: Surface feet determined by circulation lines size: 14 3/4" 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 1/25/79	8 579 "	Nole Size: 10 1/4 Long String
•	PKC.#1 51/2" PKC.#1 4540'	Size: 5 1/2 " Cemented with 125 SX TOC: 3127 feet determined by 80% calc Hole Size: 6 3/4" Total Depth: 4955'
•	LTD 49651	Injection Interval 4540 feet to 4955 feet (perforated or open-hole, indicate which)
Baker "A" (brand & mod	del)	IPC set in a (material) 4466 feet. g seal). Pkr. #2 Howco R-3 set @ 4435'.
Other Data	. • •	
1. Name of the	injection formation	San Andres
2. Name of Field	ld or Pool (If applie	cable) Lovington San Andres
	ew well drilled for i	injection? No Production Production
	nd give plugging deta	in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)
5. Give the dep		ny overlying and/or underlying oil or gas zones
	nderlying - Grayburg	

Greenhill	Petroleum	Corporation	ř.	Lovington	Paddock	•
OPERATOR			i.	LEASE		
#52	510′	FNL & 2190' FEL	i Au	6	175	37E
 WELL NO.	F00	TAGE LOCATION	¥ ji	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date 10-31-53

Surface Casing

Size: 8-5/8" Cemented with /41

TOC: Surface feet determined by calc-

Hole size: //

Intermediate Casing

Size:

Cemented with

SX

TOC:

feet determined by

85/8" 3128'

Hole size:

Long String

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

TOC: 4220 feet determined by temp

Hole size: ワック

Total Depth: 6250'

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

5%"

6090'

TO 6250'

Other Data

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

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

Above Glorieta

Texaco	*	C. S. Caylor		
OPERATOR		LEASE		
3 .	330' FNL & 2310' FEL	6 1	7S 37E	
WELL NO.	FOOTAGE LOCATION	SEC. TOWN	SHIP RANGE	

Tubular Data

Completed 6-17-52

Surface Casing

Size: 13-3/8" Cemented with 240 SX
CIrc
TOC: Surface feet determined by calc

./³³/8" Hole **si**ze: 18" 240'

Intermediate Casing

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

TOC: 905 feet determined by 50% calc

Hole size: 12-1/4"

. 85/8" 3356'

Long String

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

TOC: 3270 feet determined by temp

survey_.

Hole size: 7-7/8"

Total Depth: 8435'

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
- 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

Penroc	C. S. Caylor				
OPERATOR	827 FUL	LEASE		<u>-</u>	
3	1887 FVL 660' FNL & 3393' FEL	6	17\$	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

133/2"

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

Converted to

Injection 12/66

INJECTION WELL DATA SHEET

Greenhill Petroleum Corporation			Lovington	Paddock	
OPERATOR #51	(1740 FWL) 3540' FEL & 480' FNL		LEASE 6	175	37E
WELL NO.	FOOTAGE LOCATION	The Management	SEC.	TOWNSHIP	RANGE
		· · · · · · · · · · · · · · · · · · ·	<u>Tubular [</u>)ata ·	
ompletion' 9-23-53	Surface Casing				

582755x at 4590-91

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

TOC: Surface feet determined by calc

Hole size: //

Intermediate Casing

Size: 2025'

85/

5/2

6080

TO 6245'

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

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

TOC: 4050 feet determined by 70% calc

Hole size: 7 //

Total Depth: 6245'

Injection Interval

6245 6080 feet to feet (perforated or open-hole, indicate which)

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

packer

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

Other Data

Name of the injection formation:

Paddock

Name of Field or Pool (If applicable)

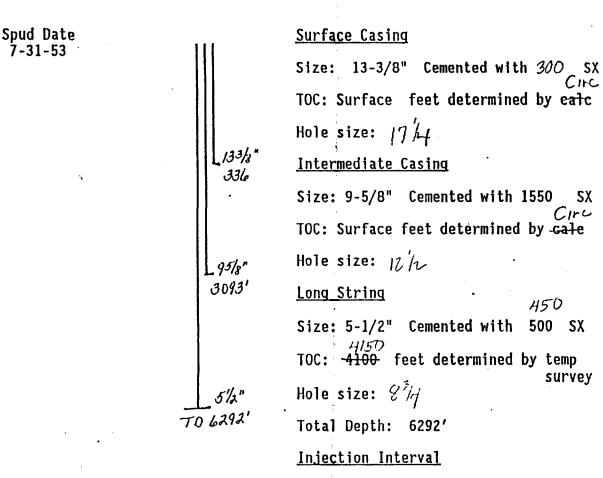
<u>Paddock</u>

- 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

Greenhill P	etroleum Corporation	# F	Lovington	Paddock	
 OPERATOR		Of Dear and	LEASE		
#50	660' FNL & 902' FW	VL P	6	175	37E
 WELL NO.	FOOTAGE LOCATION	1	SEC.	TOWNSHIP	RANGE

Tubular Data



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

Tubing size - lined with IPC set in a

packer

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

Other Data

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? 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 evenlying and/on underlying oil on gar

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

Above Glorieta

	OPERATOR	Petroleum Corporatio	LEASE LEASE
			ADION
	#34	660 FNL & 615	
	WELL NO.	FOOTAGE LOCA	ATION SEC. TOWNSHIP RANGE
	•		Tubular Data
		1.1	Surface Casing
	٠		Size: 13 " Cemented with 200 SX
	•		TOC: Surface feet determined by circulat
		. . _514'	, llole size: 17-1/4-15
		. 13"	Intermediate Casing
_			Size: 9 5/8 " Cemented with 500 SX
	npleted '27/53		TOC: 1956 feet determined by 50% calc
	. 7/10/63		Hole Size: 12"
Dkr	. 6/14/72	L3110'	•
1 (1)	• 0/14//2	95/8"	Long String
		PKr.# 2	Size: 7 Cemented with 200 SX
		PKr.#-1	TOC: 3264 feet determined by 80% calc
	• •	PKr;#1	liole Size: 8.3/4"
	· ,	-4521'	Total Dopth: 4950 t
	•	\	
:		14950 TD	Injection Interval
			4521 feet to 4950 feet (perforated or open-hole, indicate which)
	cker #1	211 14 4 4	
Lui	bing size	2" lined with	IPC set in a (material)
*****			packer at 4498 feet.
(or	(brand & mod		m month. Dealess #2 2 3/0" mlantin lived the
(02	addenage and	A A CHOT CONTUR	g soal). Packer #2 - 2 3/8" plastic lined tbg. set in a 7" Guiberson Packer @ 4470'.
Oth	er Data	•	da berson racker e 1170 .
1.	Name of the	injection formation	San Andres
2.	Name of Field	ld or Pool (If applic	cable) Lovington San Andres
3.		ew well drilled for i	injection? No well originally drilled? Production
4.	lias the well intervals as used.	nd give plugging deta	in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)
5.	Give the dep (pools) in	oth to and name of an	ny overlying and/or underlying oil or gas zones

<u>Underlying - Grayburg</u>

OPERATOR		LEASE
a		TEUSE
8	560' FNL & 660' FEL	1 17S 36E
WELL NO.	FOOTAGE LOCATION	SEC. TOWNSHIP RANGE
		· Tubular Data
leted .	Surface C	asing
-52		
·	• •	3/8 ". Comented with 225 . s
Cement to be	TOC: Sur	ace feet determined by calc
raised pursuant	lis % liole size	: 17-1/2"
to Order No. Ra	131 280 Intermedia	ate Casing
	11	
	· i	5/8 Cemented with 1000 S
	Toc:3	063 feet determined by 507 cr
•	3148 Hole Size	: 11"
	Long Stri	¥
		•
•	Size: 5-	1/2 Cemented with 600 S
•	5 ¹ / ₂ '' TOC:	feet determined by temp
•	' } -112'	7-7/8"
	+ 0	,
	8430 Total Dep	th: 8430'
•	Injection	Interval
,		feet to feet
•	. (perfora	ed or open-hole, indicate which)
Tubing size	lined with	set in
-	packer at	(material) feet.
(brand & model) (or describe any other	and no tubine so 1)	
	casting cubing abaty.	
Other Data		3 3
. Name of the inject	on formation	: · · · · · · · · · · · · · · · · · · ·
2. Name of Field or P	ool (If applicable) Lo	vington Abo
. *•	•	•
Is this a new well If no, for what pu	drilled for injection? rpose was the well orig	nally drilled? Production
4. Has the well ever intervals and give used.	oe perforated in any other plugging detail (sacks	ner zone(s)? List all such perforated of cement or bridge plug(s)
	•	
Give the depth to (pools) in this ar	ind name of any overlyi	ng and/or underlying oil or gas zones

1

INJECTION WELL DATA SHEET

Greenhill P	etroleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#49	760 FNL : 660 FEL	1	17\$	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed Surface Casing 8-18-53 Size: 13-3/8" Cemented with 300 SX Converted to CITC TOC: Surface feet determined by cate Injection 12/66 Hole size: 17-1/2" 1371" Intermediate Casing 297' Size: 8-5/8" Cemented with 1500 TOC: Surface feet determined by calc Hole size: 11" 85/8" Long String 3723' Size: 5-1/2" Cemented with 550 SX TOC: 3019 feet determined by 80%-calc Hole size: 7-7/8" 5/2" 6015' 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)

<u>Paddock</u>

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

No

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

Above Glorieta

· OPERATOR		State L "A" LEASE
9	660' FNL & 18	
WELL NO.	LOOTVGE TOCV	TION SEC. TOWNSHIP RANGE
	• •	::
•	. •	Tululan Data
	•	Tubular Data
leted	111	Surface Casing
24-52		nt
		Sizo: 13-3/8 ". Comented with 225 sy
	. []]	TOC: Surface feet determined by ealc
	.	17-1/2"
	13%	Nole size: 17-1/2"
Cement to be	215'	Intermediate Casing
raised pursuant		Size: 8-5/8 " Cemented with 1500 S
to Order No. R 94	31	1275
		TOC: Surface feet determined by cale
		Hole Size: 11"
	15/4	11020 02201
	3748'	Long String
		Size: 5-1/2 " Cemented with 600 S
	• •	•
•		TOC: 5597 feat determined by temp su
·		Hole Size: 7-7/8"
	53	
	8335	Total Depth: 8440'
• •	£ 8440	Injection Interval
•	TD	
		feet to feet (perforated or open-hole, indicate which)
• •	• •	(periorated of open-nois, indicate which)
Tubing size	lined with	
·		(material) packer at feet.
(brand & model)	·	
(or describe any other	c casing-tubin	g seal).
Other Data	•	•
1. Name of the injec	tion formation	
2. Name of Field or	Pool (If appli	cable) Lovington Abo
3. Is this a new well If no, for what p	l drilled for urpose 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)

. Above Drinkard

Greenhil OPERATOR	1 Petroleum Corporation Lovington San Andres Unit LEASE
#32 WELL NO.	660 FNL & 1980 FEL 1 T17S R36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE
	Tubular Data
	Surface Casing
	Size: 10 3/4 " Cemented with 180 SX
	TOC: Surface foot determined by circulati
•	liole size: 13 ² /4
	103/4".
Completed	Size: 7 5/8 " Comented with 265 SX
1/1/40	Too: 2200' feet determined by 50% calc
•	1101e Size: 97/8
	75/9" Long String
	Size: 5 1/2 " Cemented with 200 SX
	4549' Toc: 2326 feet determined by 80% calc
•	liole Size: 6 3/4"
•	L4589'
•	S'/2" Total Depth: 4900'
•	14900' Injection Interval
	4589 feet to 4900 feet (perforated or open-hole, indicate which)
Tubing sizo _	2 3/8" lined with IPC set in a
Baker "A	" Pension packer at 4548 feet.
(brand & m	odel) ny other casing-tubing seal).
Other Data	
1. Namo of th	e injection formation San Andres
2. Namo of Fi	old or Pool (If applicable) Lovington San Andres
3. Is this a	new well drilled for injection? No Production
intervals used.	11 ever 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 d (pools) in	epth to and name of any overlying and/or underlying oil or gas zones this area.
•	Underlying - Grayburg

Greenhill Pe	troleum Corporation	ş.	Lovington	Paddock	
 OPERATOR		4	LEASE		
#48	660' FNL & 2080' FEL	1000	1	175	36E
 WELL NO.	FOOTAGE LOCATION		SEC.	TOWNSHIP	RANGE

<u>Tubular Data</u>

Surface Casing

Size: 13-3/8" Cemented with TOC: Surface feet determined by calc Hole size: 17 h <u>Intermediate Casing</u> 297 Size: 8-5/8" Cemented with 1500 TOC: 602 feet determined by temp survey Hole size: // 85/8" Long String 3737' Size: 5-1/2" Cemented with 550 SX TOC: 3712 feet determined by temp survey Hole size: 7 1/2 6030 Total Depth: 6235' Injection Interval TO 6235

- 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? 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

	∧moco \	State "E" TR 18
-	OPERATOR	LEASE
•	WELL NO.	330' FNL & 2310" FWL 1 175 36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE
hole	Completed 12-4-52 P&A'd 7-17-84	Surface Casing Size: 13-3/8 ". Comented with 275. SX
phig a	10 1120 sack 14 4715 - 4465 6006 - 5400 8200 - 7125	Size: 5-1/2 " Comonted with 450 SX 4910 original by temp survey TOC: 1855 feet determined by temp survey Sided race 1 5540
	Tubing size	Total Dopth: 8550 SCSO Injection Interval
	(brand & m	
	Other Data	ny other casing-tubing seal).
	1. Homo of the	s injection formation
	2. Hamo of Fi	old or Pool (If applicable) Lovington Abo
		new well drilled for injection? No what purpose was the well originally drilled? Production
		11 ever be perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s)
·.	(pools) in	opth to and name of any overlying and/or underlying oil or gas zones this area.
		Above Drinkard

Greenhill Pe	troleum Corporation	r	Lovington	Paddock		
 OPERATOR	23/0		LEASE		•	•
#47	1930' FWL & 660' FN	1L .	1	178	36E	•
 WELL NO.	FOOTAGE LOCATION	¥.	SEC.	TOWNSHIP	RANGE	-

Tubular Data

Completed 9-04-54 Surface Casing

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

TOC: Surface feet determined by calc

Hole size:

Intermediate Casing

Size: Cemented with

SX

TOC:

85/8"

2041'

5 /2"

6045

feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with $\frac{300}{182}$ SX

TOC: 5053 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 6221'

Injection Interval

6045 feet to 6221 feet (perforated or open-hole, indicate which)

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

packer

at 5957 feet. (Or describe any other casing-tubing seal).

Other Data

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

Amoco ·	State "E" TR 18
· OPERATOR	. LEASE
16	330' FNL & 990' FWL 1 17S 36E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
MDDG 1101	A COMMON DOCALEDA SERVICIONES ANNOUNCES
•	Tubular Data
ompleted .	
2-25-53	111 Surface Casing
'&ል' d	Sizo: 13-3/8 Comented with sx
-26-84	circ.
•	TOC: comean fact determined by cale
CLUP set	131/4
!8103 ' 'umped 15 sx	215 . liolo sizo: 17-1/2"
et retainer	Intormediate Casing
4261'	
?umped 346 sx Set retainer	Sizo: 9-5/8 " Comonted with 300 SX
1326'	TOC: 1576 foot determined by 507 cml
Pumped 900 sx	9.5/8
Spotted 15 sx	7281 Hole Size: 12-1/4"
cement surface	Long String
, 	. + 500 per lite
•	Size: 7 Comented with 500 SX
•	TOC: 4550 foot determined by temp su
•	CIBY
	\$103' L7" Hole Size: 8-3/4"
	70 8517 Hole Sizer 8-3/4"
	Total Dopth: 8517'
	Injection Interval
•	
	foot to footfootfoot
• .	
Tubing sizo	- lined with set in a
•	(material)
(brand & mod	packer atfeet.
•	other casing-tubing seal).
Othor Data	
1. Name of the	injection formation
2. Name of Fiel	ld or Pool (If applicable) Lovington Abo
	, and the second
3. Is this a ne	whell drilled for injection? No Production what purpose was the well originally drilled? Production
TE NO, LOE W	mac barbase was cite wert originarily errited
4. Ilas the well	l ever be perferated in any other zone(s)? List all such perferated
intervals ar	nd give plugging detail (sacks of coment or bridge plug(s)
used.	
5. Give the der	pth to and name of any overlying and/or underlying oil or gas zones
(pools) in t	this area.
Λbov	evDrinkard

Penroc	,	State "E" TR 18	
 OPERATOR		LEASE	
23	880' FNL & 790' FWL	1 178	36E
 WELL NO.	FOOTAGE LOCATION	SEC. TOWNSHI	P 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

85/8' 5116' Hole size: 11"

Long String

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

TOC: 2908 feet determined by 80% calc

Hole size: 7-7/8"

5/2" 8356'

Total Depth: 8450'

TO 8450' Injection Interval

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

Tubing size

lined with - set in a

packer

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

Other Data

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

I

		Petroleum Co	orporation		vington Sa	in Andres		
	OPERATOR	•		LE	ASE			
	#30		NL & 660 F			175	R36E	
	WELL NO.	FOOT	AGE LOCATIO	n se	ic. Toni	NSHIP 1	Range	
		•	•					·
		•		•	· Tubular	Data		•
		3.1	Su	rface Casi	ng			
			Si	.zo: <u>13</u>	· Com	onted wit	h2	00 sx
		.]]	To	OG: Sur	face		rmined 1	y circulatio
		.]]	11	ole size:			•	
			1-362.	itermediate				
				1			, 1 -	,
C	Completed		·	ze: 8				•
	12/2/39		TO .	oc: <u>15</u>	97	feet dete	rmined !	by 50% calc
	•		3129' He	ole Size:	12"	•		
		·	8 ell " To	ong String		·		
			S	lze:5_	1/2" Cem	ented wit	h3	ino sx
	•		· To	og: <u>29</u>	10	feet dete	rmined l	y 80% calc.
	•		N.	ole Size:	•	7/8 "		•
	•		•	, åe		•		
			}	otal Depth:	<u> </u>	<u>/U:</u>		·
				ilection In	terval	• •	• .	
,			14970' TD 6	4543 perforated		et to	4970	feet
Tui	bing size	2" 14nn	•		•	•	• '	set in a
.					(material)			•
	Baker Mod (brand & mod	lel)	pacl	## -	448	35	feet	•
(or	describe any	other casin	g-tubing s	eal).	. •	•	•	
Oth	er Data			ŧ	•		•	
1.	Name of the	injection fo	rmation	,	Sai	n Andres	~~~~~~	
2.	Name of Fiel	d or Pool (I	f applicabl	Le)	Lovington	n San Andı	res .	•
		•		•	Na	•	•.	· · · · · · · · · · · · · · · · · · ·
3.		w well drill hat purpose				d? . Pi	roductio	n .
4.	intervals at used.	l ever be per id give plugg						erforated
	No		·.	· · · · · · · · · · · · · · · · · · ·	*			
5.	Give the dep (pools) in t	th to and na	me of any	overlying t	and/or und	erlying o	il or g	as zones ·
•	Und	erlying - Gra	ayburg	The state of the s		•	. •	•

Vwoco	State "E" TR 18
· OPERATOR	LEASE
18	330' FNL & 330' FEL 2 17S 36E
HELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
•	
	Tubular Data
Completed	
-	Surface Casing
6-12-53	SALABO SASANG
· · · · · · · · · · · · · · · · · · ·	Sizo: 13-3/8 ". Comented with 275, SK
P&A'd 11-7-83	
	Circ ,
•	Too: Surface feet determined by -cale
•	
	cmt
	refered 1958 Intormediate Casing
	Sizo: 9-5/8 ~ Comonted with 300 sx
	TOC: 2246 1600 feet determined by 50% eale
	1 477
• .	3226 Hole Size: 12-1/4"
•	4018 Role Size:
	to mer and the second s
	5150
•	continuo Sizo: 7 " Comonted with 550+550 cu ft sx
	6078 — 4975 perlite
	163. TOC:
•	- 10 ·
•	8530 Holo Sizo: 8-5/8"
	llole Size: 8-5/8"
	genot
	Total Dopth: 8530
•	
	Injection Interval
/	
	foot to
•	(perforated or open-hole, indicate which)
Tubing size	lined with'
Lubrug arzo	(material)
·	packer atfoot.
(brand & m	
(or describe a	ny other easing-tubing seal).
Othor Data	
1. Name of th	e injection formation
	95
) Mains at ti	old or Pool (If applicable) Lovington Abo
2. Namo of F1	TO LAND TAY AND THE WAY OF THE PARTY AND THE PARTY TO NATURE
	No
	new well drilled for injection
If no, for	: what purpose was the well originally drilled?
•	
4. Ilas the we	11 over be perforated in any other zone(s)? List all such perforated
' Intorvala	and give plugging detail (sacks of coment or bridge plug(s)
used.	A Comment of the Comm
war a m t	
r niai. s	lamble to and name of any production and for make 1. for 11.
	lepth to and name of any overlying and/or underlying oil or gas zones
(pools) ir	ı this area.
, V	bove Drinkard
	•

1.

Greenhill Pet	Greenhill Petroleum Corporation		Lovington Paddock		
OPERATOR	EFL	LEASE			
#45	660' FNL & 330' FWL	2	175	36E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Tubular Data

Surface Casing Completed 2-9-55 8-5/8" Cemented with 1350 SX Size: Converted to TOC: Surface feet determined by calc Injection 12/66 Hole size: 12./2 Intermediate Casing 85/8" 2053' Cemented with Size: SX 2046 TOC: feet determined by Hole size: Long String Size: 5-1/2" Cemented with 350 SX TOC: 3865 feet determined by 80% calc 5/2 6111' Hole size: 7-7/8" TO 6235' Total Depth: 6235' Injection Interval

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

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

packer

at 6090 feet. (Or describe any other casing-tubing seal).

Other Data

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.

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

Above Glorieta

SWD

Penroc	
OPERATO	R LEASE
21	660' FNL & 1650' FEL 2 17S 36E
WELL NO	
	Tubular Data
Completed	Surface Casing
11-9-53	
_	Size: 13-3/8 " Comented with 275 SX
Converted to SWD 3-9-79	264' TOC: Surface feet determined by catc
Deepened to	liole size: 17-1/2" 150 5,/50 8 750 5,/50 1
89871 3-9-79	
	Intermediate Casing (15 Tool
	Size: 9-5/8 " Cemented with 300 SX
	TOC: feet determined by
	1 95/8 3300 Hole Size: 12-1/4"
7 " cs; 5	Long String
6005 x a	Long String Long String Size: 7 " Cemented with
TOC 33%	5 by Toc: 3375 feet determined by remp surve
	liole Size: 8-3/4"
	Total Depth: 8470'
	\$470 Injection Interval
	8187 8391 feet to 8987 feet
	8391 feet to 8987 feet (perforated or open-hole, indicate which)
•	
Tubing size	2-1/2" lined with IPC set in a
	(material) - packer at 8378 feet.
(brand &	model)
(or describe	any other casing-tubing seal).
Other Data	·
1. Name of	the injection formation Abo
2. Name of	Field or Pool (If applicable) Lovington Abo
2 Tm 61-1-	n new well drilled for injection? No
3. Is this i	a new well drilled for injection? No or 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 Drinkard

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INJECTION WELL DATA SHEET

OPERATOR	LEASE
#28	660 FNL & 1980 FEL 2 T17S R36E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
Completed 8/19/43 converted to inj. 3/31/63	Tubular Data Surface Casing Size: 13
•	Injection Interval 4602 - 5068 feet to feet (perforated or open-hole, indicate which)
Tubing size	2" lined with TPC set in a (material)
(brand & model)	Baker Model A packer at 4543 feet.
Other Data	
	ection formation an
	r Pool (If applicable) Lovington San Andres
3. Is this a new of the second	ell drilled for injection? No purpose was the well originally drilled? Production er be perforated in any other zone(s)? List all such perforated
intervals and pused. No	ive plugging detail (sacks of cement or bridge plug(s)

Underlying - Grayburg

5WD

Rice Eng	,		10 Sys	Tem	
OPERATOR		LEA	ASE		
1	2310' FWL & 990' FNL	. 2		17\$	36E
WELL NO.	FOOTAGE LOCATION	SE	C.	TOWNSHIP	RANGE

<u>Tubular Data</u>

Surface Casing 13-3/8" Cemented with 350 SX Size: Completed 2-8-54 TOC: Surface feet determined by calc Hole size: 17-1/2" Rice Engrg. 133/8 Deepened to 396 8858' & Intermediate Casing Converted to a SWD Well Size: 9-5/8" Cemented with 1750 SX TOC:Circ to Sur. feet determined by calc Hole size: 12" 95/8" 3348' Long String Size: 5-1/2" Cemented with 1350 SX feet determined by 80% calc TOC: 3484 ສງງບ. ກົດ ຊຽງຊູທູ,Hole size: 8-3/4" 8530' Total Depth: 8534' TO 8858' Injection Interval 3W0

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

Tubing size - lined with - set in a

packer

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

Other Data

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

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

Gree	un hill Petro	oleum Corp.		Louing	ton Paddock
	ERATOR			LEASE	
	LL NO.	1590 FWL 6 14 FOOTAGE LOCA		Sec. 1	T 175-R36 E TOWNSHIP RANGE
	•	· · · · · · · · · · · · · · · · · · ·		Tul	pular Data
	•	•	Surface	Casing	
•			Sizo:	/3 ³ /s· ~.	Comented with 500 sx
			TOC: _	Surface	feet determined by Gale.
1		137/8			11 1/2
		349	•	diato Cas	
•	•		Size:_	85/8 "	Cemented with 900 SX
			TOC:	201	feet determined by 50% cal
•		L 8 5/8	llole S	lze:	<u> </u>
			Long St	ring	
	•		Size:	51/2 "	Comented with 1230 SX
•		51/2 63.	TOC: _	sufaci	feet determined by 80% cale
		, TD 6460	llole S	•	77/8
			Total 1	Depth:	6400
				lon Intery	
					feet to feet
	•		(perfo	rated or o	pen-hole, indicate which)
Tubing	size	lined with	•	(mate	rial) sot in a
(bro	and & model		packer a		fost,
		ther casing-tubi	ng soul).	.•	
Other De	ıta			•	•
1. Name	of the in	jection formation	n		
2. Name	of Field	or Pool (If appl	icable)	Lovi	ngton Paddock
7 7 4		11 dul11.d f	Intentio	m2 · 11.	
4. Ilas	the well e	ver be perferate	d in any	other zone	s(s)? List all such perforated ont or bridge plug(s)
5. Give	the depth	to and name of	any overl	ying and/o	or underlying oil or gas zones
· (pod	ols) in thi	.s area. (above) Glor	٠. ٠		
		LUBOVE) 4167	1676		

...5WP

Converted to Injection and Deepened 12-27-80 Sidetracked fish & Kicked off to 8443'. Drld. to 9000'. Run packer & tbg to 8150'. Packer set @ 8302'. Ran tailpipe & set packer @ 8272' 3-10-82 Size: 9-5/8 " Comented with 300 Solve to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft sperific to 12-1/4" Long String Size: 5-1/2 " Cemented with 835+835 cu ft	Penroc '	State E TR 18
Completed: 5-9-54 Converted to Injection and Deepened 12-27-80 Sidetracked fish & Kicked off to 8443'. Didd. to 9000'. Run packer & to grow and the state of th	· OPERATOR	LEASE
Completed 5-9-54 Converted to Injection and Deepened 12-27-80 Sidetracked fish & Kicked off to 8443'. Did to size: 13-3/8 "Comented with 275 15 Do Size to 6 Bilo 1257 15 Do Size to 8 Bilo 1257 15 Do Siz		1650' FNL & 1650' FEL 2 17S 36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE
Size: 13-3/8 " Comented with 275 . " s Converted to Injection and Deepended 12-27-80 Sidetracked fish & Kicked off to 8443". Drild. to 9000". Run packer & the to 8150'. Packer set & 8302'. Ran tailpip & set packer & 8272' 13/8 TOC: Surface feet determined by 502 c 13/8 TOC: 2661 feet determined by 502 c 13/8 TOC: 2661 feet determined by 502 c 13/8 TOC: 2661 feet determined by 502 c 13/8 TOC: 2661 feet determined by 502 c 13/8 TOC: 2779 feet determined by 802 cal 13/8 TOC: 2279 feet determined by 802 cal 13/8 TOC: 2661 feet determined by 802 cal 13/8 TOC: 2661 feet determined by 802 cal 14/4 TOC: 2661 feet determined by 802 cal 14/4 TOC: 2661 feet determined by 802 cal 14/4 TOC: 2661 feet determined by 802 cal 15/8 TOC: 2279 feet determined by 802 cal 15/8 TOC: 2279 feet determined by 802 cal 15/8 TOC: 2661 feet determined by 802 cal 15/8 TOC: 2661 feet determined by 802 cal 15/8 TOC: 2661 feet determined by 802 cal 15/8 TOC: 2661 feet determined by 802 cal 15/8 TOC: 2661 feet determined by 802 cal 15/8 TOC: 27/8 TOC: 27/8 TOC: 27/8 TOC: 27/8 TOC: 27/8 TOC: 27/8		
Converted to Injection and Deepened 12-27-80 Sidetracked fish & Kicked off to 8443'. Deld. to 9000'. Run packer & the to 8150'. Ran tailpipe & set packer & 8272' Ran tailpipe & set packer & 8272' 100 Size: 9-5/8 " Cemented with 300 Size: 12-1/4" 100 Size: 5-1/2 " Cemented with 835+835 cut ft graphical size: 8-5/8" 100 Size: 5-1/2 " Cemented with 835+835 cut ft graphical size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 12-1/4" 100 Size: 8-5/8" 100 Size: 8-5/8" 100 Size: 12-1/4" 100	-	Sizo: 13-3/8 ~ Comented with 275 . sx
Sidetracked fish & Kicked off to 8443'. Drild. to 9000'. Run packer & this to 8150'. Packer set & 8302'. Ran tailpipe & set packer & 8272'	Injection and	13 TOC: Surface feet determined by eale
Long String Size: 5-1/2 Comented with 835+835 cu ft so Size: 5-1/2 Comented with 835+835 cu ft so Perlite Size: 5-1/2 Comented with 835+835 cu ft so Perlite Size: 5-1/2 Comented with 835+835 cu ft so Perlite Size: 5-1/2 Comented with 835+835 cu ft so Perlite Size: 5-1/2 Comented with 835+835 cu ft so Perlite Size: 5-1/2 Comented with 835+835 cu ft so Perlite Comente	Ricked off to 8443'. Drld. to 9000'. Run packer & tbg to 8150'. Packer set @ 8302'. Ran tailpipe & set	Size: 9-5/8 " Cemented with 300 SX 95/8 3275 TOC: 2661 feet determined by 50% cal
Injection Interval 8242 feet to 8316 feet	597 5/2 from 3700 2,74 150057 0ftir running CBL from 8150 - 3600 10-20-60 5825/2 from 4360	Size: 5-1/2 " Cemented with 835+835 cu ft sx perlite 5'2 perlite 8330 TOC: 2279 feet determined by 80% calc 10 liole Size: 8-5/8" TO despend Total Depth: 8477'
packer at (material) (brand & model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation Abo 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? 4. Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. 5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.		Injection Interval 8242 feet to 8316 feet
Other Data 1. Name of the injection formation Abo 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? 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.	(brand & model)	material) packer at 8272 feet.
 Name of the injection formation Name of Field or Pool (If applicable) Lovington Abo Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Has the well ever be perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. 		
 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. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. 	1. Name of the inject	ion formation Abo
 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. 	2. Name of Field or P	col (If applicable) Lovington Abo
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.	3. Is this a new well	drilled for injection? Production
(pools) in this area.	intervals and give	
•	Above Drin	kard

	etroleum Corporation	
OPERATOR		LEASE
#44	1980' FNL & 660' F	
. WELL NO.	FOOTAGE LOCA	TION SEC. TOWNSHIP RANGE
		Tubular Data
		Surface Casing
Completed 8-31-41	111	Size: 13 " Cemented with 210 SX
		TOC: Surface feet determined by calc
		Hole size: 17"
	1 _2511	Intermediate Casing
	13"	Size: 8-5/8 " Cemented with 600 SX
		TOC: 212 feet determined by calc
		Hole Size: 11"
	L 2050' 8 5/8"	Long String
		Size: 5-1/2 " Cemented with 400 SX
		TOC: 2377 feet determined by calc
	14558 ' 51/2"	Hole Size: 7-7/8"
		Total Depth: 4990'
	. 4990'	Injection Interval
	. 10	feet to feet (perforated or open-hole, indicate which)
Tubing size	lined with	(material) set in a
		(material) packer atfeet.
(brand & mod (or describe any		
Other Data		
1. Name of the	injection formation	San Andres
2. Name of Fiel	ld or Pool (If applic	cable) Lovington San Andres
	ew 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)
		ny overlying and/or underlying oil or gas zones
(pools) in t	this area. erlying-Grayburg	1
ona	criving-arayuurg	•

Penròc	State E TR 18
OPERATOR	LEASE
·	1650' FNI, & 330' FEI. 2 175 36E 36E
WELL NO.	1650' FNI. & 330' FEL. 2 17S 36E FOOTAGE LOCATION SEC. TOWNSHIP RANGE
11222 2101	
·	
•	Tubular Data
_1_6_1	
p1eted 24-53	155X = 11 Surface Casing
	Size: 13-3/8 " Comented with
¹d	13% Size: 13-3/8 Comented with 205: SX
-84	280' TOC: Surface feet determined by cale
•	
	llole size: 17-1/2"
	Intermediate Casing
	ANY CAMPONION OF C
	Size: 9-5/8" Cemented with 300 SX
	TOC: feet determined by
	L 998 TOC: feet determined by
•	3299 Hole Size: 12-1/4"
	41sx —
	4120 Long String + 500 ca. 61 pe
	Size: 7 " Cemented with 550 SX
•	
•	755% TOC: 2138 feet determined by calc
	2200' - 8520
	liole Size: 8-3/4"
	Total Depth: 8525'
• •	
	Injection Interval
	- feet to - feet
	(perforated or open-hole, indicate which)
•	
Tubing size	lined with set in a
	(material)
(brand & mod	packer atfeet.
	y other casing-tubing seal).
Other Data	
1. Name of the	injection formation No
2. Name of Fie	ld or Pool (If applicable) Lovington Paddock
3. Is this a n	ew well drilled for injection? No
If no, for	what purpose was the well originally drilled? Production
4. lias the wel	1 ever be perforated in any other zone(s)? List all such perforated
intorvals a used.	nd give plugging detail (sacks of cement or bridge plug(s)
useu,	
*	
	pth to and name of any overlying and/or underlying oil or gas zones
(pools) in	CHIE ALEA.
Abov	e Glorieta

Greenhill P	etroleum Corporation	Lovington	Paddock	
OPERATOR	1980	LEASE		
#61	1980 990' FWL & 2310 ' FNL	1	175	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Surface Casing 17/0 8-5/8" Cemented with 1000 SX Size: TOC: Surface feet determined by calc Hole size: 12/4 Intermediate Casing 85/8" Size: Cemented with SX 20.391 TOC: feet determined by Hole size: Long String 350 Cemented with _220 - SX 51/2° Size: 5-1/2" feet determined by 80% calc 6080' TOC: 4490 3847 Hole size: 7-7/8" TO 6220' Total Depth: 6220' Injection Interval 6220 feet to

(perforated or open-hole, indicate which)

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

packer

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

Other Data

Name of the injection formation:

<u>Paddock</u>

- <u>Paddock</u> Name of Field or Pool (If applicable) 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 4. 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

No

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	Sizo: 13-3/8 " Comented with 332 SX
7–29–53	TOC: Surface feet determined by Circ
	L 13 % Hole size: 17-1/2"
cement to be	Intermediate Casing
raised pursuant	Size: 9-5/8 " Cemented with 300 SX
to Order R 9431	95/8 TOC: 1937- feet determined by 50%-ealc
	3298' Hole Size: 12-1/4"
	Long String
	Size: 7 " Cemented with 225 SX
•	TOC: 6775 feet determined by temp sur
	7", Nole Size: 8-3/4"
	gc30 Total Depth: 8530'
• •	Injection Interval
	feet to feet
	(perforated or open-hole, indicate which)
Tubing size	lined withset in a
	(material) packer at feet.
(brand & model)	
(or describe any ot	her casing-tubing seal).
Other Data	
1. Name of the inj	ection formation
2. Name of Field	r Pool (If applicable) Lovington Abo
	ell drilled for injection? Production Production
4. lias the well ev	er be perforated in any other zone(s)? List all such perforated ive plugging detail (sacks of cement or bridge plug(s)
	to and name of any overlying and/or underlying oil or gas zones
(pools) in this	
Abov	e Drinkard

Greenhill Petro	oleum Corporation	Lease Lease
#42 WELL NO.	1980' FNL & 1980 FOOTAGE LOCA	
		Tubular Data
ompleted		Surface Casing
4-1-39	111	Size: 13 " Cemented with 200 SX
		TOC: Surface feet determined by calc
		Hole size: 17-1/4"
	1 2991	Intermediate Casing
	13"	Size: 9-5/8 " Cemented with 535 SX
		TOC: 1517 feet determined by calc
		Hole Size: 12"
	_ 3595' 95/8"	Long String
	1-73	Size: 7 " Cemented with 300 SX
•		TOC: 2887 feet determined by calc
•		Hole Size: 8-3/4"
	4536	Total Depth: 4938'
	}	Injection Interval
	14938' TD	feet to feet
		(perforated or open-hole, indicate which)
Tubing size	lined with	(material) set in a
(brand & model)		packer atfeet.
(or describe any ot		g seal).
Other Data	-	
1. Name of the inj	ection formation	San_Andres
2. Name of Field o	or Pool (If appli	cable) <u>Lovington San Andres</u>
	well drilled for purpose was the	injection? <u>No</u> well originally drilled? <u>Production</u>
	ive 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 this	to and name of a	ny overlying and/or underlying oil or gas zones
	ving-Grayburg	

PENROC '			tate "E	TR 18	····	·····
OPERATOR 17	1650' FNL & 2:	310' FWL	Lease	1	· 17s	36E
WELL NO.	FOOTAGE LOCAT	CON	SEC.	TOWNSH		
					•	
	, •		Tul	ular Da	to.	· · · · · · · · · · · · · · · · · · ·
				ZXXXX.	. .	•
		Surface Co		•		•
		Sizo:	-3/8 	Coment	od with	sx
ment to be		TOC: St	ırface	fee	t determin	ed by calc
-aised pursuant		liole size	: 17-	1/2"	: ' .	·
o Order R 9431	1 1 1	Intermedi	ate Cas	ing		·
	13 1/8	Size: 9-	-5/8	Сещеп	ed with _	300 sx
	263	TOC: 23	550 1 6 -	• ,	•	ned by 50% calc
	11 .	Hole Size		l/4"		
•		Long Stri	ng			
	95/8	Size: 7	_	Cemen	ted with _	+500 Perlita 500 sx
•	3296	TOC: 517				ned by Temp S
•	. 1	<u> </u>		-3/4"	or apparient	Temp S
		Hole Size		•		,
		Total Dep	th:	8506 '	•	•
	3506 8494	Injection	Interv	al.	•	
	•	_		feet	to ·	- feet
	• • • • • • • • • • • • • • • • • • • •	(perforat	ed or o		e, indicat	
Tubing size	_ lined with		<u> </u>			set in a
. , –		noten = h	•	rial)		faat
(brand & model)	pr	acker at _				feet.
(or describe any other	casing-tubing	seal).			. ,	
Other Data	. -		•			
1 Name of the intest	ion formation				•	·
1. Name of the inject	TOU TOTHERTON -		······································			,
2. Name of Field or P	ool (If applies	able)	Lovingt	on Abo		
 Is this a new well If no, for what put 				irilled?	Produc	tion
4. lias the well ever	be perforated				ist all su ridge plug	

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 Size: 8-5/8" Cemented with 1200 SX TOC: Surface feet determined by cale Hole size: 12 /4 Intermediate Casing Cemented with Size: SX 85/8 feet determined by TOC: 2040 Hole size: Long String Size: 5-1/2" Cemented with 350 TOC: 3841 feet determined by temp 5/2" survey 6060' Hole size: 71% TO 6220' Total Depth: 6220' Injection Interval

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

Tubing size - lined with IPC set in a - packer

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

Other Data

- 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.

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		State L "A"
· OPERATOR		LEASE
11 1650		
	FNL & 1980	
WELL NO.	eootage loca	TION SEC. TOWNSHIP RANGE
•		
	. •	•
		Tubular Data
•	•	
	1 1 1	Surface Casing
leted		Sizo: 13-3/8 ". Comented with 250 . s
-53		
	111	TOC: Surface feet determined by calc
	111 :	
•	111.	Hole size: 17-1/2"
	1 L 13 1/2	Intermediate Casing
	2.48	Intermediace castiff
cement to be		Size: 8-5/8 " Cemented with 1500 S
raised pursuant	11 -	1361
to Order Ray31		TOC: Surface feet determined by calc
	11	1.11
•	11 .	Hole Size: 11"
•	\$5/8	Inn Chains
	3750	Long String
		Size: 5-1/2 " Cemented with 600
•	! ·	
•		TOC: 4908 feet determined by temp su
•		
	1 .	Hole Size: 7-7/8"
	55	
•	8300	Total Depth: 8440
• •	{	T. I. akilan Tukamusi
1	L 70	Injection Interval
	8440	feet to feet
		(perforated or open-hole, indicate which)
·	•	
Tubing size	lined with	(material) set in
		(material)
	· · · · · · · · · · · · · · · · · · ·	packer atfeet.
(brand & model)		
(or describe any other o	casing-tubin	g seal).
Other Data	•	
ocher Daca		
l. Name of the injection	on formation	
-	•	
•	ol (If appli	cable) Lovington Abo
2. Name of Field or Poo		
2. Name of Field or Poo		injection? No
2 To this a non noll o	drilled for	
2 To this a non noll o	drilled for pose was the	well originally drilled? Production
3. Is this a new well of If no, for what purp	pose was the	well originally drilled? Production
3. Is this a new well of If no, for what purple.	pose was the e perforated	in any other zone(s)? List all such perforated
 Is this a new well of the no, for what purposes lias the well ever be intervals and give points. 	pose was the e perforated	
3. Is this a new well of If no, for what purple.	pose was the e perforated	in any other zone(s)? List all such perforated
 Is this a new well of the no, for what purposes lias the well ever be intervals and give points. 	pose was the e perforated	in any other zone(s)? List all such perforated
3. Is this a new well of If no, for what purple. 4. Has the well ever be intervals and give pused.	pose was the e perforated plugging det	in any other zone(s)? List all such perforated all (sacks of cement or bridge plug(s)
3. Is this a new well of If no, for what purpose. 4. Has the well ever be intervals and give pused.	pose was the e perforated plugging det nd name of a	in any other zone(s)? List all such perforated

T

INJECTION WELL DATA SHEET

Greenhill	Petroleum	Corporation	Lovington	Paddock		
 OPERATOR	2090		LEASE			-
#59	1650'	FNL & 1980' FEL	1	178	36E	
 WELL NO.	FO	OTAGE LOCATION	SEC.	TOWNSHIP	RANGE	-

Tubular Data

Completed Surface Casing 10-19-53 Size: 13-3/8" Cemented with 300 SX Converted to Injection 9-73 TOC: Surface feet determined by calc Hole size: 17 /2 133/2 297' Intermediate Casing Size: 8-5/8" Cemented with 1500 SX TOC: Surface feet determined by calc Hole size: 1.1 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" Total Depth: 6235 6050' Injection Interval TO 6235' feet to 6235 (perforated or open-hole, indicate which)

Tubing size 3" lined with IPC set in a

packer

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

Other Data

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? 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 Glorieta

No

Amerada nego	State L A
· OPERATOR	LEASE
10	1650' FNL & 660' FEL 1 17S 36E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
•	
·	Tubular Data
mpleted	Surface Casing
1-7-52	Size: 13-3/8 " Comented with 225, sx
	rice -
•	TOG: Surface feet determined by calc
cement to be	13% Hole size: 17-1/2"
aised pursuant	Intermediate Casing
o Order No. Ra	342 ()
	Size: 8-5/8 " Cemented with 1500 SX
	TOC: Surface feet determined by calc
,	Lask Hole Size: 11"
	Long String
•	Size: 5-1/2 " Cemented with 600 SX
•	TOC: 4972 feet determined by temp su
•	. 5%
	8334 Hole Size: 7-7/8"
	9435 Total Depth: 8435'
• •	TO Total popul.
	Injection Interval
	feet to feet
	(perforated or open-hole, indicate which)
Tubing size	
	(material) packer at feet.
(brand & model)	
or describe any oc	her casing-tubing seal).
ther Data	
. Name of the inf	ection formation
	Lovington Abo
. Name of Field o	or Pool (If applicable)
	vell drilled for injection?No
llag the vell or	ver be perforated in any other zone(s)? List all such perforated
intervals and g	give plugging detail (sacks of cement or bridge plug(s)
used.	
. Give the depth (pools) in this	to and name of any overlying and/or underlying oil or gas zones
(boors) to curs	, alua,
АЪ	ove Drinkard

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

Tubular Data

Spud Date 10-53

Surface Casing Size: 13-3/8" Cemented with 300 SX CITC TOC: Surface feet determined by calc 133/8" Hole size: 17/2 297' Intermediate Casing Size: 8-5/8" Cemented with 1500 SX TOC: 588 feet determined by temp ~ 85/8" survey Hole size: 3742' Long String Size: 5-1/2" Cemented with -500- SX TOC: 3795 feet determined by temp survey Hole size: 6065 Total Depth: 6235 Injection Interval TO 6235

- 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

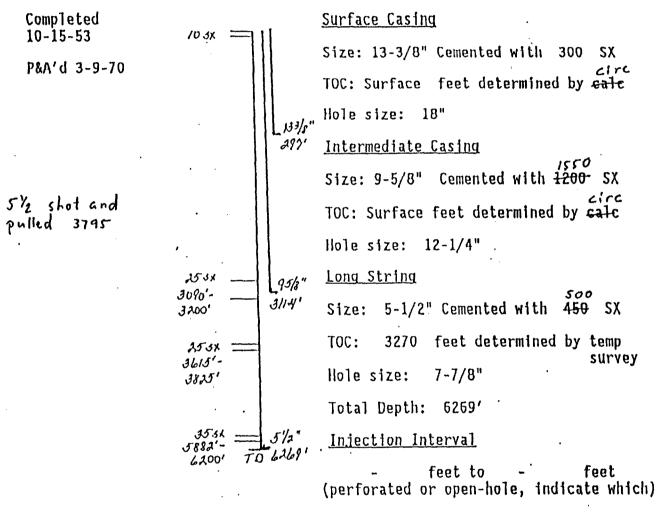
- Name of Field or Pool (If applicable) <u>Paddock</u>
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details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

	troleum Corporation Lovington Paddock
OPERATOR	EASE FNL
# 57	1980'/& 695' FEL 6 17S 37E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
•	
	Tubular Data
·	Contract Constant
Completed	Surface Casing
6-13-52	Sizo: 13-3/8 ". Comented with 300 . s
,	Circ
ement to be	TOC: Surface feet determined by cate
ised pursuant	liole size: 17 /2
order No. R943	Tabana Hata Cantan
·	Intermediate Casing
	15% Size: 8-5/8 " Cemented with 1400 S
	TOC: Surface feet determined by calc
	Surface feet determined by calc
•	liole Size:
•	Long String
	Long Strang
	85/8 Size: 5-1/2" Cemented with 550
•	TOC: 5454 4820 feet determined by TS
•	
	Nole Size: 73/4
	5'2" Total Depth: 8450
	TO SECTO
	Injection Interval
	6018 6028 6020 feet to 6187 feet
	(perforated or open-hole, indicate which)
Tubing size 2-3/8	" lined with IPC set in (material)
	packer at 6018 feet.
(brand & model)	
or describe any oti	ner casing-tubing seal).
ther Data	
	Paddock
Name of the inje	ection formation
. Name of Field or	r Pool (If applicable) Paddock
	ell drilled for injection? <u>No</u> purpose was the well originally drilled? <u>Production</u>
intervals and g	or be perforated in any other zone(s)? List all such perforated ive plugging detail (sacks of cement or bridge plug(s)
used. No	

	Sun 011 Comp	OPERATOR 6 902' FWL & 1980' FNL WELL NO. FOOTAGE LOCATION	M. Cay	ylor		
	OPERATOR		LEASE			
	6	902' FWL & 1980' FNL	6	175	37E	
•	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	•

Tubular Data



Tubing size

lined with - set in a

packer

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

Other Data

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

Penroc	•	C. S. Ca	ylor		
OPERATOR		LEASE			
4F	1653' FNL & 1558' FWL	6	178	37E	
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE	

Tubular Data

Completed 7-14-52

Surface Casing

Size: 13-3/8" Cemented with 280 SX

TOC: Surface feet determined by calc

Hole size: 18"

Intermediate Casing

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

TOC: 853 feet determined by 50% calc

Hole size: 12-1/4"

3304'

TO 8445'

283'

Long String

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

TOC: 4087 feet determined by 80% calc

Hole size: 7-7/8"

Total Depth: 8445'

Injection Interval

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

Tubing size - lined with - set in a

packer

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

Other Data

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

(Above) Drinkard

Greenhill P	etroleum Corporation	Lovington Paddock
OPERATOR		LEASE
#56	1650' FNL & 1733' FWL	6 17S 37E
WELL NO.	FOOTAGE LOCATION	SEC. TOWNSHIP RANGE

Tubular Data

Spud Date 10-7-53

Surface Casing

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

TOC: Surface feet determined by calc

85/8" 2026

5%"

6100'

TO 6256'

Hole size: //

Intermediate Casing

Size:

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

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

TOC: 4139 feet determined by temp

Hole size: 7 1/7

Total Depth: 6256'.

Injection Interval

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

Tubing size

lined with - set in a

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

Other Data

- 1. Name of the injection formation:
- Name of Field or Pool (If applicable)
- 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 4. 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		
#55	1879' FNL & 2248' FEL	_ 6	178	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completion 6-20-53 Converted to Injection 1/71	85/3" 1980' TO 6250'	TOC: Surface Hole size: Intermediate Size: TOC: Hole size: Long String Size: 5-1/2" TOC: 3971	Gemented with feet determined feet determined feet determined by Cemented with 4 feet determined by 6250'	by cale SX y
		6120	feet to 6250 r open-hole, indic	feet ate 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:

<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? 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.

Greenhill P	etroleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#54	1650' FNL & 660' FEL	6	178	37E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Spud Date 2-6-54

Surface Casing .

Size: 8-5/8" Cemented with 1595 SX CITC

TOC: Surface feet determined by catc

Hole size: //

Intermediate Casing

L 85/8" 3185'

6135'

TO 6250'

Size:

Cemented with

SX

TOC:

feet determined by

Hole size:

Long String

Size: 5-1/2" Cemented with 435 SX

TOC: 3537 feet determined by temp survey

Hole size: 7//2

Total Depth: 6250'

Injection Interval

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

lined with - set in a

packer

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

Other Data

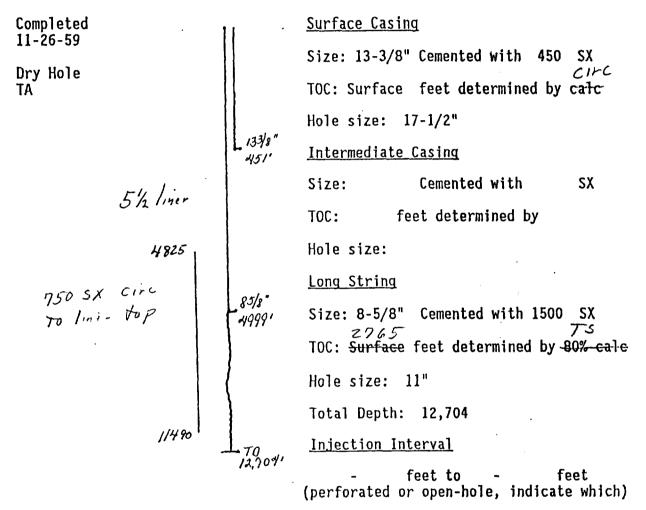
- 1. Name of the injection formation:
- 2. Name of Field or Pool (If applicable) Paddock
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and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

No

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

	Araho		State L "C"		
	OPERATOR		LEASE	,	
٠	SWD 1-I	2190' FSL & 560' FEL	1	178	36E
	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



Tubing size - lined with - set in a - packer

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

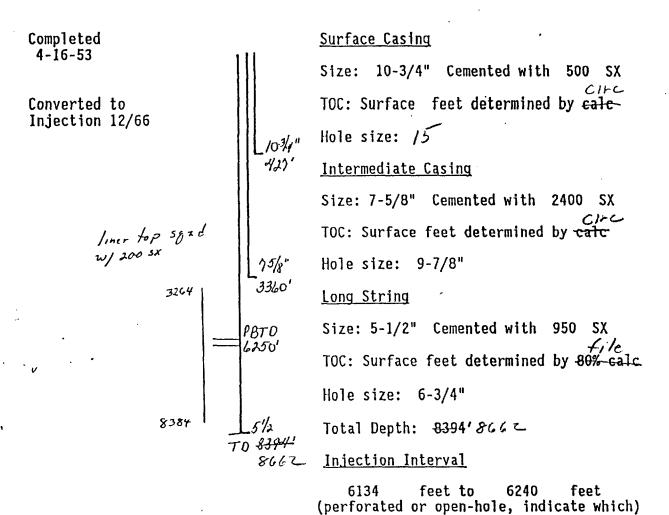
Other Data

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

	troleum Corporation	Lovington San Andres
OPERATOR		LEASE
#61 WELL NO.	FOOTAGE LOCAT	
•		Tubular Data
Completed 3-15-90		Surface Casing
3-13-90		Size: 13-3/8 " Cemented with 450 SX
·		TOC: Surface feet determined by circ.
		Nole size: 17-1/2"
		Intermediate Casing
	1 205'	Size: 8-5/8 " Comented with 800 S
	133/8"	•
		TOC: Surface feet determined by calc
	10,01	Hole Size: 12-1/4"
	L1969' 85/9"	Long String
		Size: 5-1/2 " Cemented with 940 Si
		TOC: 262 feet determined by calc
	. 5380'	Hole Size: 7-7/8"
	· \ 5/2"	Total Depth: 5400'
	1 54001	Injection Interval
	TD	- feet to - feet
		(perforated or open-hole, indicate which)
Tubing size	lined with	set in a
-		(material) . feet.
(brand & mod (or describe any	el) other casing-tubin	ng seal).
Other Data		
	injection formation	san Andres
2. Name of Fiel	d or Pool (If appli	Lcable) Lovington San Andres
3. Is this a ne If no, for w	w well drilled for hat purpose was the	injection? No Production
		i in any other zone(s)? List all such perforated tail (sacks of cement or bridge plug(s)
5. Give the dep (pools) in t		any overlying and/or underlying oil or gas zones
Umala		•

Greenhill	Petroleum Corp	oration	Lovington	Paddock	
OPERATOR	1980		LEASE		
#66	2080' FSL	& 660' FEL	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 6066 feet. (Or describe any other casing-tubing seal).

Other Data

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

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

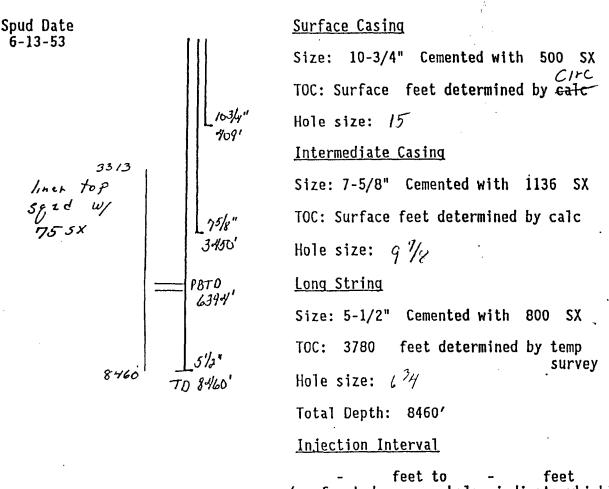
	troleum Corporatio	·
OPERATOR	1	LEASE
#49 WELL NO.	1980' FSL & 66 FOOTAGE LOCA	
		Tubular Data
	1111	Surface Casing
mpleted -2-39		Size: 13 " Cemented with 250 SX
		TOC: Surface feet determined by circ.
nverted -14-76		Hole size: ?
	340	2 Intermediate Casing
	13"	Size: 9-5/8" ". Cemented with 250 SX
	15"	TOC: 2350 feet determined by calc
		Nole Size: ?
	3052	
	95/3"	Size: 7 " Cemented with 259' SY
		TOC: 3090 feet determined by calc
٠.	L4556!	Hole Size: ?
		Total Depth: 4960'
•	1 4960'	Injection Interval
.•		4556 feet to 4960 feet (perforated or open-hole, indicate which)
Tubing of to 2-2	3/8" lined with	
Baker Model AD		(material)
(brand & model	.)	
(or describe any o	ther casing-tubin	g seal).
Other Data		•
1. Name of the in	jection formation	San Andres
2. Name of Field	or Pool (If appli	.cable) Lovington San Andres
3. Is this a new If no, for wha	well drilled for it purpose was the	injection? No Production Production
		i in any other zone(s)? List all such perforated cail (sacks of cement or bridge plug(s)
5. Give the depth (pools) in thi		any overlying and/or underlying oil or gas zones
	lying-Grayburg	.

Greenhill Pe OPERATOR	troleum Corporatio	n Lovin	gton San Andr	'es	
#48	1980' FSL & 1		17\$	36E	
WELL NO.	FOOTAGE LOCA		TOWNSHIP	RANGE	
		T	ubular Data		
1 - A - 1	1111	Surface Casing			
ompleted 5-21-39		Size: 13	" Cemented	with250	sx
	.	TOC: Surface	feet d	etermined by	calc
		Hole size:	17-1/4"		
	L3/1!	Intermediate Ca	sing		
		Size: 9-5/8	" Cemented	with250	SX
		TOC: 2251	feet d	etermined by	calc
		Hole Size:		•	
	95/9'	Long String			
:		Size: 7	" Comented	with 225	S
	4530				
	} 7"	TOC: 3119		etermined by (id IC
	4960'		8-3/4"		
·	סד	•	4960'		
		Injection Inter	-		_
		4530 (perforated or	feet to open-hole, i		_ feet
Tubing size 2-7	7/8" lined with			s	et in a
Baker Model '	'A'	•	terial) 26	feet.	
(brand & mode) (or describe any	1)		•		•
Other Data		6,			
	njection formation	San	Andros		
•				····	
	or Pool (If appli	•	•	3	
	well drilled for at purpose was the			roduction	
	ever be perforated give plugging det				orated
5. Give the dept	h to and name of a	ny overlying and	/or underlyin	ng oil or pas	zones
(pools) in th		, , , , , , , , , , , , , , , , , , , ,	,	J	

Underlying-Grayburg

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

Tubular Data



(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.

mierada ness	State L "A"
OPERATOR 12 231	LEASE 0' FSL & 2310' FWL 1 17S 36E
WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
WELL NO.	FOOTIGE LOCATION SEC. TORNSHIE MINOE
•	
Completed	Tubular Data
2-23-53	Surface Casing
	Size: 13-3/8 ~ Comented with 250 . sx
	TOC: Surface feet determined by calc
٠ . الم	liole size: 17-1/2"
Cement to be raised pursuant	
to order R 9431	Intermediate Casing
	Size: 8-5/8 " Cemented with 1500 SX
	TOC: Surface feet determined by ealc
	Hole Size: 11"
	Long String
	L 8-78
•	JIZO, OCMORECUS HZGRE _ OCOV
•	TOC: 5614 feet determined by temp sur
	Nole Size: 7-7/8"
	5 1/2 Total Depth: 8440
	\$ 8325°
	Injection Interval 8440 - feet to - feet
	(perforated or open-hole, indicate which)
Tubing size	
	(material)
(brand & model)	packer atfeet.
(or describe any other	er casing-tubing seal).
Other Data	•
1. Name of the injec	tion formation
2. Name of Field or	Pool (If applicable) Lovington Abo
· · · · · ·	No.
	ourpose was the well originally drilled? Production
	be perforated in any other zone(s)? List all such perforated ve plugging detail (sacks of cement or bridge plug(s)
(pools) in this	o and name of any overlying and/or underlying oil or gas zones area. Drinkard



	Greenhill Po	etroleum Corporation	Lovingto	n San Andres	\$
-	OPERATOR	1980	LEASE		· · · · · · · · · · · · · · · · · · ·
	47	/980 1980' FNL & 1986 ' FWL	. 1	17\$	36E
	WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data

Completed	13"	Surface Casing
7-6-39		Size: 13" Cemented with 250 SX
Converted to Injection		TOC: Surface feet determined by calc
8-6-69		Hole size: 17-1/4"
		Intermediate Casing
		Size: 8-5/8" Cemented with 500 SX
	85/8"	TOC: 1572 feet determined by 50% calc
		Hole size: 11"
		Long String
	r 1/4"	Size: 5-1/2" Cemented with 230 SX
	4620'	TOC: 3367 feet determined by 80% calc
•	1 70 4944'	Hole size: 7-7/8"
r		Total Depth: 4944'
•		Injection Interval
		4620 feet to 4935 feet (perforated or open-hole, indicate which)

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

packer

at 4517 feet. (Or describe any other casing-tubing seal).

Other Data

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

(Above) Grayburg

57

INJECTION WELL DATA SHEET

Gre	enhill	Petroleum	Corporation	Lovingt	ton	Paddock		
OP	ERATOR			LEA	SE			_
	#64	1980′	FSL & 1880' FWL	1	l	178	36E	
WE	LL NO.	FO	OTAGE LOCATION	SEC	C.	TOWNSHIP	RANGE	

Tubular Data

Completed 12-18-53	• •	Surface Casing 275
Canada Ia		Size: 13-3/8" Cemented with 300 SX
Converted to Injection 12/66		TOC: Surface feet determined by calc
		Hole size: 17/2
	1 14 10	Intermediate Casing
·	298'	Size: 8-5/8" Cemented with 1500 SX
		TOC: Surface feet determined by cale-
	·	Hole size: //
	85/3"	Long String
	3750'	Size: 5-1/2" Cemented with 550 SX
·		TOC: 3068 feet determined by 80% calc
		Hole size: 7-7/8"
	.51/2"	Total Depth: 6275'
	6064'	Injection Interval
	-TO 6225'	Total Depth: 6275' Injection Interval 6064 feet to 6275 feet (perforated or open-hole, indicate which)

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

packer

at 5979 feet. (Or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation:

<u>Paddock</u>

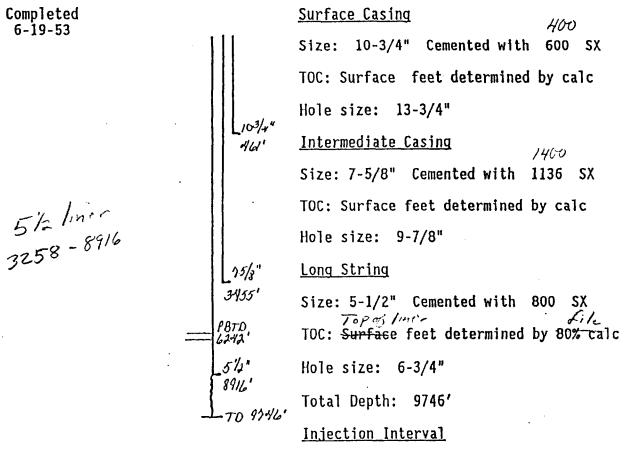
- 2. Name of Field or Pool (If applicable) Paddock
- 3. Is this a new well drilled for Injection? No If no, for what purpose was the well originally drilled? <u>Production</u>
- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks 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 Pe	troleum Corporation	Lovington	Paddock	
OPERATOR		LEASE		
#62	1980' FSL & 560' FEL	2	178	36E
WELL NO.	FOOTAGE LOCATION	SEC.	TOWNSHIP	RANGE

Tubular Data



6169 feet to 6194 feet (perforated or open-hole, indicate which)

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

packer

at 6073 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.

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

Above Glorieta

No

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

<u>Tubular Data</u>

Completed 3-19-52	Surface Casing
Sidetrack 6-28-90	Size: 13-3/8" Cemented with 300 SX C/rc TOC: Surface feet determined by calc
	TOC: Surface feet determined by calc Hole size: 17-1/4" Intermediate Casing Size: 8-5/8" Cemented with 1200 SX TOC: Surface feet determined by calc Hole size: 11" Long String Size: 5-1/2" Cemented with 410 SX
•	(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 Poperator	etroleum Corporation	Lovington San Andres LEASE
#58	990 2310' FNL & 1309' I	FWL 31 16S · 37E ·
WELL NO.	FOOTAGE LOCA	TION SEC. TOWNSHIP RANGE
		Tubular Data
Completed 5-15-41		Surface Casing
0 10 11	•	Size: 13 " Cemented with 180 SX
deepen to 5070		TOG: Surface feet determined by circ
	13"	Hole size: 17-1/4"
		Intermediate Casing
		Size: 8-5/8 " Cemented with 400 SX
	2085'	TOC: 860 feet determined by calc
	85/9"	Hole Size: 11"
		Long String
		Size: 5-1/2 " Cemented with 200 SX
	45701	TOC: 3479 feet determined by calc
•	} 5/ ₂ "	Hole Size: 7-7/8"
•	14990'	Total Depth: 4990'
	•	Injection Interval
		4570 feet to 5070 feet (perforated or open-hole, indicate which)
Tubing size	2- /8 lined with _	IPC set in a
		(material) packer at 4550 feet.
(brand & mod (or describe any	del) y other casing-tubing	g seal).
Other Data		·
1. Name of the	injection formation	San Andres
2. Name of Fiel	ld or Pool (If applic	cable) Lovington San Andres
3. Is this a ne	ew well drilled for i	
		in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)
5. Give the dep		ny overlying and/or underlying oil or gas zones
Unde	erlying-Grayburg	

Greenhill Pet OPERATOR	ròleum Corporation	Lovington San Andres Unit LEASE
#40 WELL NO.	1980 FNL & 660 FOOTAGE LOCAT	
• .		Tubular Data
		Surface Casing . 180
		Size: 13 · " Comented with 100 SX
		TOC: Surface feet determined by circulation
		Nole size: 17 1/4"
	111	Intermediate Casing 250
,	1 - 13"	Size: 8 5/8" Comented with 600 SX
Completed 12/4/39		TOC: 1050 feet determined by calc 505
		Hole Size: 11"
		Long String 260-+50.
	3091'	Size: 5 1/2" Cemented with 300 SX
	8 5/3 "	TOC: 3680 feet determined by calc 809
•	,	Hole Size: 7 7/8"
	45791 5½"	Total Depth: 4950'
	1950'	Injection Interval
		feet to 4950 - foot (perforated or open-hole, indicate which)
(brand & model (or describe any o	l) other casing-tubing	; soal).
Othor Data	•	
1. Name of the ir	njection formation	San Andres
2. Name of Field	or Pool (If applic	able) Lovington San Andres
3. Is this a new	well drilled for i	
		in any other zone(s)? List all such perforated all (sacks of cement or bridge plug(s)
5. Give the depth (pools) in the		ny overlying and/or underlying oil or gas zones
Under]	lying-Grayburg	

Greenhill OPERATOR	Petroleum Corporatio	n	Loving LEASE	<u>ton San Andr</u>	es	
	6601 ENI \$ 1000	t cu	1	. 170	265	
#31 WELL NO.	660' FNL & 1980 FOOTAGE LOCA		SEC.	17S TOWNSHIP	36E RANGE	· · · · · · · · · · · · · · · · · · ·
			Tu	ıbular Data		
Completed 12-22-39	111	Surface	Casing			
Deepened	111	Size:_	13 "	Cemented v	vith	sx
6-20-87	.	TOC: _	Surface	feet do	termined by	circ
			ize:1	7-1/4"	_	
	Lzq ₁ 13"		ediate Cas	ing		
	.	Size:_	8-5/8	Cemented	with 500	sx
		TOC: _	2021	feet de	etermined by	calc
	L3109 878°	Hole S:	ize:	11"		
	"	Long S	tring			•
		Size:_	5-1/2	Cemented	with 325	sx
	45411	TOC: _	2890	feet d	etermined by	calc so
•	{ 51/2"	Hole S	ize:	7~7/8"	•	•
	1960	•	Depth:		- 	
	T 70		ion Inter	val	-	
	I sias'	4	541	feet to	5125 ndicate whic	feet
Tubing size _	2-3/8" lined with	,	IPC			set in a
water flo	ad tension	packer a	(mate t 449	erial) 9	feet.	-
(brand & mo	odel) ny other casing-tubin	g seal).		•		
Other Data		•				
	e injection formation	·	San <i>i</i>	Andres		
2. Name of Fig	eld or Pool (If appli	cable)	Lovingto	on San Andre	S	
	new well drilled for what purpose was the			drilled? P	roduction	
	ll ever be perforated and give plugging det					forated
	epth to and name of a	ny overl	ying and/	or underlyin	g oil or gas	zones
1.6.					•	

Greenhill Pet	roleum Corporation	Lovington San Andres
OPERATOR		LEASE
#25 WELL NO.	1980' FEL & 660 FOOTAGE LOCA	
		<u>Tubular Data</u>
	1111	Surface Casing
		Size: 13 " Cemented with 200 SX
Completed 10-18-39		TOG: Surface feet determined by circ
10-10-33		Hole size: 17-1/4"
	302'	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	13"	300
		Size: 8-5/8 " Cemented with 400 SX
		TOC: 1765 feet determined by calc
		Hole Size: 11"
		Long String
	L2940' 85/8'	Size: 5-1/2 " Cemented with 200 SX
		TOC: 3424 feet determined by calc
٠		Hole Size: 7-7/8"
	4515	
	5½"	Total Depth: 5094'
	50941	Injection Interval
	TD TD	4515 feet to 5090 feet (perforated or open-hole, indicate which)
Tubing size 2-	/8 lined with	IPC set in a
(brand & mode.	flood dension pother casing-tubing	(material) packer atfeet. g seal).
Other Data	•	
1. Name of the in	njection formation	San Andres
2. Name of Field	or Pool (If applie	cable) Lovington San Andres
	well drilled for a	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 dept (pools) in th		ny overlying and/or underlying oil or gas zones
. أ. سا ا	sulsedna Consulser	

Greenhill GOPERATOR	Petroleum Corporation	n <u>Lovington San Andres Unit</u> LEASE
#12 WELL NO.	1980' FSL & 1980' FOOTAGE LOCA	
		Tubular Data
Completed	11	Surface Casing
7-5-45		Size: " Cemented with SX
Deepened 7/87		TOC: feet determined by
		Hole size:
		Intermediate Casing
		Size: 8-5/8 " Cemented with 500 SX
	:	TOC: Seeker feet determined by Calc see
	12080' 85/8"	Hole Size: 11"
		Long String
		Size: 5-1/2 " Cemented with 450 SX
		TOC: 2435 feet determined by calc 80%
	_4580' 51/2"	•
	110001	Hole Size: <u>7-7/8"</u>
	1490' TD	Total Depth: 5055'
	5055'	Injection Interval
	TD	4580 feet to 5055 feet (perforated or open-hole, indicate which)
Tubing size 2	3/8 lined with _	set in a
		packer at 4560 feet.
(brand & mod (or describe any	el) other casing-tubing	; seal).
Other Data		
1. Name of the	injection formation	San Andres
•		able) Lovington San Andres
	w well drilled for i	N.
		well originally drilled? Production
		in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s)
5. Give the dep		ny overlying and/or underlying oil or gas zones
(pools) in t		
und	lerlying-Grayburg	•

		Greenh OPERATO	ill Petrolo	eum Corpo	oration	1	Lovi		San Andres	<u>Unit</u>	 ,
		#57 WELL NO) ,	660 FSL FOOTAGE	& 660 LOCAT	FWL ION	36 SEC.		T16S OWNSHIP	R36E RANGE	
			• .		•••			Tubul	ar Data	•	
						Surfa	co Casin	g ·			
					•	Size:	13		emented with	1200	SXSX
	•	•			; · ,	TOC:	Surfa	ice	_ feet dete	rmined by	y circulati
			•			llole	sizo: _		17"		٠.
	•		•		-308' 13"	Inter	mediate	Castn		·	
		pleted	•		13,	Size	9 5/	<u>'8."</u> (Comented wit	h. <u>200</u>)sx
	•	/25/39			•	TOC:	150)9	_ feet dete	rmined b	y 70% calc
•	5	pened 144'				liolo	Size: _		12 1/4 "	***************************************	
	1.	1/86	•		10361	Long	String		•	•	•
				•	1-) 8	Size	:7	(Cemented wit	h <u>250</u>)sx
			. 1664 .		•	TOC:	. 3266	<u>.</u>	feet dete	rmined b	y 770% calc
		1399	.4°	ال ا	, 40 !	Hole	Size: _		8 3/4"		
	Je	H 31	. 20	{	7''	Tota	L Depth:		5144'	·	•
Sp	I in	5 10	٠	} 4	990' 10	Inje	ction Int	erval		•	•
Ui	105		:46 ⁶⁴ .	51 T		(per	/640 forated o	or ope	feet to n-hole, indi	5144 cate whi	ch) feet
	Tub	ing size	21/8	lined	with _		. · · ·		· · IPC		set in a
	المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع		flood tensi	on_	P	acker	at	nateri 462		fost.	
		(brand & doscribe	model) any other	casing-	tubing	soal) .				
	Othe	r Data	•					•			
	1.	Name of	the inject	ion form	ation	• •	•	San A	ndres	•	
•	2.	Name of	Field or P	ool (If	applic	able)		Lovin	qton San And	ires	<i>:</i>
	3.	Is this	a new well	drilled	for i	nject	ion?	No_		.•	ion
	•)7 List all or bridge p		erforated
	5,		•		of ar	ıy ove	rlying a	nd/or	underlying (oil or ge	as zones
			Underlyin	g - Gray	burg	•					

Greenhill Petro	oleum Corporation Lovington San Andres Unit LEASE
	1980 FNL & 660 FWL 1 T17S R36E
#43 WELL NO.	FOOTAGE LOCATION SEC. TOWNSHIP RANGE
	Tubular Data
	Surface Casing
	Size: 13 " Comented with 200 sx
	TOC: Surface feet determined by circulation
	Intermediate Casing
Completed	Size: 8 5/8 " Cemented with 600 SX
6/19/41	TOC: 199 feet determined by 50% calc
Repento 5030'	203¢, Hole Size: 11"
	Long String
	Size: 5 1/2 " Cemented with 350 SX
•	TOC: 2679 feet determined by 80% calc
•	5½" 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	23/8 lined with TPC set in a (material)
(brand & model)	packer at 4536feet.
	er casing-tubing soal).
ther Data	
. Name of the inje	ection formation
. Name of Field or	Pool (If applicable) Lovington San Andres
	purpose was the well originally drilled? Production
	er be perforated in any other zone(s)? List all such perforated two plugging detail (sacks of cement or bridge plug(s)
Give the depth t	co and name of any overlying and/or underlying oil or gas zones
(pools) in this	area.

OPERATOR	troleum Corporation	Loyington San Andres LEASE
#45	1980' FNL & 1980	0' FEL 2 17S 36E
WELL NO.	FOOTAGE LOCA	
:	**************************************	Tubular Data
Completed	1 1 1	Surface Casing
5-26-43		Size: 13 " Cemented with 175 SX
		TOC: Surface feet determined by circ
		Hole size: 17"
•	13"	Intermediate Casing
		Size: 8-5/8 " Cemented with 600 SX
		TOC: 213 feet determined by calc
		Hole Size: 11"
	2051	Long String
	8519"	Size: 5-1/2 " Cemented with 400 SX
		TOC: 2396 feet determined by calc
•		Hole Size: <u>7-7/8"</u>
	[4577' S'/2"	Total Depth: 5147'
	}	Injection Interval
	1 5177' TD	4577 feet to 5147 feet
		(perforated or open-hole, indicate which)
Tubing size 2	√y - lined with _	(material)
(brand & mode	1)	packer at 4517 — feet.
(or describe any	other casing-tubing	g seal).
Other Data		
1. Name of the i	njection formation	
2. Name of Field	or Pool (If applie	cable) <u>Lovington San Andres</u>
	well drilled for in the purpose was the	injection? No well originally drilled? Production
intervals and used.		in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)
NO		
5. Give the dept (pools) in the		ny overlying and/or underlying oil or gas zones
Under	lying-Grayburg	

Greenhill OPERATOR	Petroleum Corporation Lovington San Andres Unit LEASE
#39	616 1985 FNL & 610 FWL 6 T17S R37E
WELL NO.	
·	
	Tubular Data
	Surface Casing
	Size: 13 " Cemented with 200 SX
	TOC: Surface feet determined by circulate
	liole size: 15"
	Laga, Intermediate Casing
Completed	size: 9 5/8 " Comented with 500 s
10/28/39	TOC: 1506 feet determined by 50% cal
•	liole Size: 12"
	95/s" Long String
	Size: 7 " Cemented with 200 S
	TOC: 3265 feet determined by 80% cal
•	4522 1010 Size: 8 3/4
	7" Total Depth: 4945'
,	
•	14975' Injection Interval TD 4522 feet to 4575 feet
•	(perforated or open-hole, indicate which)
Tubing size _	21/8 lined with IPC set in a
•	(material) packer at 4570 feet.
(brand & m	
	ing other casting capting beary.
Other Data	
Name of th	no injection formation San Andres
. Name of Fi	Leld or Pool (If applicable) Lovington San Andres
	new well drilled for injection? No Production Production
	all ever be perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s) No
	depth to and name of any overlying and/or underlying oil or gas zones a this area.
	Underlying - Grayburg

Greenhill P OPERATOR	etroleum Corporation		ton San Andr	es	
	,	LEASE			
#37 WELL NO.	330' FNL & 990' FE FOOTAGE LOCA		17S TOWNSHIP	37E RANGE	
		Tu	ıbular Data		
Completed	1.1.1	Surface Casing	•		
7-24-46		Size: 13	Cemented v	vith20	sx
		TOC: Surface	feet de	etermined by c	irc
	13" Lzo'	Nole size:			
	·	Intermediate Cas	sing		
		Size: 7-5/8		with <u>500</u>	sx
Deepento 5030		Toc: Surface	feet d	etermined by <u>c</u>	alc
•		Hole Size:	9-3/4"	Officer - The Indiana - Officer - Of	
		Long String			
	20151	Size: 5-1/2 '	" Cemented	with	sx
•		TOC: Surface	feet d	etermined by _	calc .
•		Hole Size:	6-1/4"		ı
	15	Total Depth: _	4943	·	
	1560' 51/2"	Injection Inter			
	14943 TD	4560 (perforated or	feet to		feet
Tubing size 2	% - lined with		— IPC		t in a
			erial) IO	feet.	
(brand & mod				and the state of t	
•		s seary.		,	
Other Data 1. Name of the	injection formation	San And	res —		
•	d or Pool (If applic			<u> </u>	
3. Is this a ne	w well drilled for i	injection? No			
	ever be perforated nd give plugging deta				rated
5. Give the dep	oth to and name of ar this area.	ny overlying and/	or underlyin	g oil or gas z	ones
· Unde	erlving-Gravburg				

	troleum Corporation	
OPERATOR		LEASE
#35	339' FNL & 1890' FV	WL 6 17S 37E
WELL NO.	FOOTAGE LOCA	
		Tubular Data
Completed		Surface Casing
5-4-39	111.	
		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
	2450'	Hole Size: 12"
	95/8"	Long String
		Size: 7 Cemented with 300 SX
·	i	TOC: 1789 feet determined by calc
		Hole Size: 8-3/4"
	4570'	Total Depth: 4942'
		Injection Interval
•	14942'	Injection interval
•	TO	4570 — feet to 5040 feet (perforated or open-hole, indicate which)
mata at a of	٦/٧ "- lined with _	40 1
Tubing Size	78 IIIled WICH	(material)
		packer at4520feet.
(brand & mod	el) other casing-tubing	r seal)
(or describe any	John July Casting	5 50017.
Other Data		
1. Name of the	injection formation	— SanAndres
2. Name of Fiel	d or Pool (If applie	cable) Lovington San Andres
	w 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)
- NO	<u> </u>	
5. Give the dep (pools) in t		ny overlying and/or underlying oil or gas zones
tte de		

WELL NO. Completed 9/17/46 eepen to 5090	80 FS - 990 FEL 60 FNL & 330 FEL FOOTAGE LOCATION	SEC.	T-16S TOWNSHIP	R37E RANGE
Completed 9/17/46 eepen to 5090		SEC.		
Completed 9/17/46 eepen to 5090	FOOTAGE LOCATION		TOWNSHIP	RANGE
9/17/46 eepen to 5090				
9/17/46 eepen +0 5090	•		•	
9/17/46 eepen +0 5090	_		ular Data	
9/17/46 ecpen +0 5090		e Casing		
9/17/46 ecpen +0 5090	1 1:			Lth <u>450</u> SX
9/17/46 ecpen +0 5090	1. (,	,	termined by <u>eale</u>
9/17/46 ecpen +0 5090	1 85% " Hole s	ize:]	10 1/4	
9/17/46 eepen +0 5090		ediate Casi	-	
9/17/46 eepen to 5090				ithsx
5090	TOC: _		feet de	termined by
	Hole S	ize:	•	
	Long S			
				1th 400 s
<u>\</u>	L 4623' TOC: _ 51/2."	1832	feet de	termined by 80% calc
-	llole S	ize:	7 1/4	,
•	TO 4935 Total	Depth:	4935'	• • • • • • • • • • • • • • • • • • • •
	Inject	ion Interva	1	•
•				5090 feet dicate which)
Tubing size	lined with	IPC		set in a
•		(mater	ial)	Foot
water flood function paid (brand & model) or describe any other of				IOUC.
ther Data	•		•	
. Name of the injection	on formation	S	an Andres .	
. Name of Field or Poo	ol (If applicable)	· Le	ovington Sa	n Andres
. Is this a new well o				Production
. Has the well ever be intervals and give pused.	e perforated in any plugging detail (sac	other zone (s)? List a t or bridge	11 such perforated plug(s)
. Give the depth to an (pools) in this area		ying and/or	underlying	oil or gas zones

dieemiiii re	etroleum Corporation	Lovington San Andres
OPERATOR		LEASE
#13	1760' FSL & 440' I	
WELL NO.	FOOTAGE LOCA	TION SEC. TOWNSHIP RANGE
		Tubular Data
		Surface Casing
mpleted 2-16-39		Size: 13 " Cemented with 225 SX
		TOC: Surface feet determined by calc
•		Hole size: ?
	-2991	Intermediate Casing
	13"	•
		Size: 8-5/8 " Cemented with 250 SX
		TOC: 2235 feet determined by calc
	23003'	Hole Size: 11"
	95/1"	Long String
		Size: 5-1/2 " Cemented with 150 SX
		TOC: 2818 feet determined by calc
	L4518' { 5½"	Hole Size: 6-3/4"
	}	Total Depth: 5068
	1 5068' TO	Injection Interval
	•	4518 feet to 5068 feet
		(perforated or open-hole, indicate which)
Tubing size 2-	3/8" lined with	IPC set in a (material)
•	waterflood tension I	packer at <u>4445</u> feet.
(brand & mod (or describe any	el) other casing-tubing	g seal).
Other Data		•
	injection formation	San Andres
	_	Lovington San Andres
	d or Pool (If applic	No.
	w well drilled for the hat purpose was the	well originally drilled? Production
4. Has the well		in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)

Greenhill OPERATOR	Petroleum Corpora	tion Lovington San Andres LEASE
15	1650' FSI	& 1650' FWL 31 16S 37E
WELL NO.		LOCATION SEC. TOWNSHIP RANGE
<u> </u>		Tubular Data
		Surface Casing
mpleted -1-39		Size: 13 " Cemented with 200 SX
epened		TOC: Surface feet determined by calc
-23-86		Hole size:
•		Intermediate Casing
•		500 Size: 9-5/8 " Cemented with 400 S
		95' 3" TOC: 1818 feet determined by calc
		Hole Size: 12"
		Iona String
		Size: 7
		TOC: 3840 feet determined by Calc
	1 299	$\{y\}$
		Total Depth: 5110'
	_4531	
•	{ '7" { 497	
	T10	(perforated or open-hole, indicate which)
Tubing size	2-3/8" lined wi	ith IPC set in a (material)
(brand & n		n packer at 45/0 feet.
•	any other casing-to	ubing seal).
Other Data		
1. Name of th	he injection format	tion San Andres
2. Name of Fi	ield or Pool (If a	pplicable) Lovington San Andres
	new well drilled in the result of the result	for injection? No the well originally drilled? Production
		ated in any other zone(s)? List all such perforated detail (sacks of cement or bridge plug(s)
	depth to and name on this area,	of any overlying and/or underlying oil or gas zones
• •	nderlying-Grayburg	

Greenhill Petroleum Corporation OPERATOR	Lovington San Andres Unit LEASE			
#10 1980' FNL & 1980' FEL WELL NO. FOOTAGE LOC				
	Tubular Data			
1	Surface Casing			
Completed	Size: 13 " Cemented with 250 SX			
4-4-39	TOC: Surface feet determined by Circulation			
	Hole size: 17-1/4"			
	<u>Intermediate Casing</u>			
13"				
	TOC: 2246 feet determined by Calc			
	Hole Size: 12"			
2065	Long String			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Size: / Cemented with 223 SX			
	TOC: 3189 feet determined by Calc			
	Hole Size: 8-3/4"			
4600'	Total Depth: 5110'			
17"	Injection Interval			
1 5110'	4600 feet to S//O feet (perforated or open-hole, indicate which)			
Tubing size 2-3/8" lined with				
waterflood tension pocker	(material) packer atfeet.			
(brand & model) (or describe any other casing-tubir	ng seal).			
Other Data				
1. Name of the injection formation	San Andres			
2. Name of Field or Pool (If appli				
3. Is this a new well drilled for If no, for what purpose was the	injection? No Production			
	i in any other zone(s)? List all such perforated tail (sacks of cement or bridge plug(s)			
5. Give the depth to and name of a (pools) in this area.	any overlying and/or underlying oil or gas zones			
Underlying-Grayburg				

	Greenhill Petroleum Corporation			Lovington San Andres Unit			
OPERATOR			LEASE	71.00	2025		
#7 WELL NO.	1980 FNL & 1980 FEI FOOTAGE LOCATION		. 31 SEC.	T16S TOWNSHIP	R37E RANGE		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,						
		·	•				
	Tubular Data						
•		Surfac	e Casing	•		•	
		Size:_	8 5/8 ~	Comented	ith		
		TOC:	Surface	feet de	stermined b	y calc.	
		Hole s	ize:	10 1/4	•		
	85/9"		ediate Cas				
Completed	2043'						
1/5/49		_		Cemented			
deepen to goiss		TOC: _		feet de	termined l	γy	
4990		Hole S	ize:	•		· ·	
	5½	Long S	tring		•		
	4620'	Size:	5 1/2 "	Cemented	vith	375 s x	
	L TD 49551			feet d			
•		<u></u>	•		JULINIZIOU .	•	
		Hole S	ize:	711/4			
		Total	Depth:	4955'	· ·	•	
· ·	· •	Inject	ion Interv	ral ·	• .		
		4	1620	feet to	2-15	4990 feet	
•	•			pen-hole, i			
Tubing size	25/8 lined with		IPC			set in a	
		packer a	(mate t 4530	orial)	feet	•	
(brand & mode		-					
	oundr casting castin	g Boaz, .		•			
Other Data				•			
1. Name of the 1	njection formation		San And	res			
2. Name of Field	or Pool (If appli	cable)	Lovingt	on San Andre	!S	•	
	well drilled for at purpose was the			irilled? F	roduction		
	ever be perforated				•	erforated	
	give plugging det						
usea. No		·	**		· · · · · · · · · · · · · · · · · · ·		
5. Give the dept	h to and name of a	ny over	ying and/	or underlyin	g oil or g	as zones	
Under	lying - Grayburg	•		•			

Greenhill Petro OPERATOR	leum Corporatio	Dn Lovington San Andres Unit LEASE
#5 WELL NO.	660 FNL & 600 FOOTAGE LOCA	
		Tubular Data
	266	Surface Casing
	11	Size: 8 5/8 " Cemented with 400 SX
		TOC: Surface feet determined by calc
		liole size: 11"
	.	Intermediate Casing
Completed	85/8"	Size: Cemented withSX
1/30/40	. 2100	TOC: feet determined by
	.] ·	Hole Size:
•		Long String
		Size: 5 1/2 " Cemented with 200 SX
•	51/2'	TOG: 3535' feet determined by 80% calc
•	TO 6130,	Nole Size: 7 7/8"
•		Total Depth:,
•		Injection Interval
•		(perforated or open-hole, indicate which)
Tubing size 23/8	lined with _	IPC set in a
(brand & model) (or describe any other	•	(material) packer at 4605 feet. g seal).
Other Data		
1. Name of the inject	etion formation	San Andres
2. Name of Field or	Pool (If applie	cable) Loyington San Andres
3. Is this a new well If no, for what p		injection? No Production
4. Has the well ever intervals and give used.	t be perforated to plugging deta	in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)
5. Give the depth to (pools) in this a		ny overlying and/or underlying oil or gas zones
· · · · · · · · · · · · · · · · · · ·	arlying - Grayb	ura.

	Greenh	ill Petro	leum Corpora	tion	Lovingto	on San Andres	Unit
	OPERATOR				LEASE		
	#62	1185	FNL & 152 FI	EL	2	T175 R36E	
	WELL NO.		FOOTAGE LOC	ATION			RANGE
					Tu	bular Data	
		• 6		Surfac	e Casing		
		8 8		Size:_	<u>8 5/8</u> "	Cemented wi	th SX
			•	TOC: _	surface	feet det	ermined by circulation
			426'	Hole s	ize: 1	2 1/4	
		}	T 2 b	Intern	ediate Cas	ing	
		}	•	Size:		Cemented wi	thSX
		{	<i>*</i>	TOC:		feet det	ermined by
		} {		Hole S	Size:		
			- 1	Long S	String		
		• • • • • • • • • • • • • • • • • • • •	5120° 2050 achs	Size:	5 1/2	Cemented wi	th <u>2050</u> SX
			2050 acho	TOC: _	surface	feet det	ermined by <u>circualtio</u>
			•			7 7/8	•
					Depth:	•	
		,		Inject	ion Interv	a <u>l</u>	
						feet to	feet
				_		pen-hole, ind	icate which)
Tu	bing size _	2 7/8"	lined with			rial)	set in a
				packer a	10.00		feet.
(or	(brand & m describe a	-	casing-tubin	g seal).			
<u>Oth</u>	er Data						
1.	Name of th	e injecti	on formation				
2.		_	•			Grayburg San .	Andres
			•				
3.			drilled for pose was the			rilled? pro	duction
4.						(s)? List al nt or bridge	1 such perforated plug(s)
5.		epth to a		ny overl	ying and/o	r underlying	oil or gas zones

Greenh	ill Petroleum Corporatio	on Lovin	ngton San Andr	res Unit
OPERATO	OR .	LEASE		
#64	80FNI, & 1330 FWI	1	T17S-R36E	
WELL NO	FOOTAGE LOCA			RANGE
<u> </u>		Tubu	ılar Data	
	1((<	Surface Casing		
		Size: 8 5/8 "	Cemented with	n <u>275</u> . sx
		TOC: surface	feet deter	rmined by <u>circ.</u>
		Hole size: 12 1	/4	<u> </u>
	425'	Intermediate Casin	ıg	
		Size:	Cemented with	hSX
		TOC:	feet deter	rmined by
		Hole Size:	,	
	}	Long String		
	}	Size: 5 1/2 "	Cemented with	n <u>1525</u> sx
•	1 5109' 1525 Daches	TOC: surface	feet deter	rmined by circulation
	5/13'	Hole Size: $\frac{7 \ 7/8}{}$	i i	•
	TD	Total Depth:	•	
		Injection Interval		
			feet to	feet
	. 2 /011	(perforated or ope	n-hole, indic	cate which)
Tubing size	2 7/8" lined with	IPC (materi	(al)	set in a
	1	packer at 4495	iar)	feet.
(brand & (or describe	model) any other casing-tubing			
Other Data	•			
1. Name of	the injection formation			
	Field or Pool (If applic		Grayburg San	Andres
	new well drilled for it or what purpose was the		lled? pro	duction
	vell ever be perforated s and give plugging deta 			
	depth to and name of an	ny overlying and/or	underlying of	il or gas zones

Greenhill OPERATOR	Petroleum Corpo	cation	Lovington LEASE	n San Andres	Unit	
	1168 FSL & 13:	RO EUT	: 26	m1 (a D2 (E		
WELL NO.	,	GE LOCATION	36 SEC.			
		··	Tul	bular Data		
		<u>Surfa</u>	ce Casing	•		
	[\$ [\$	Size:	8 5/8 "	Cemented wi	ith325	sx
		TOC:	surface	feet det	termined by c	irc.
				2 1/4		:
			mediate Cas			
					Lth	S.X.
	31- 480' 200'				termined by _	
						
	$ \zeta $					
	18	_	String	•		
	5112'				1th 1200	
	12.00	ache TOC:	surface	feet de	termined by	circ.
	·	Hole	Size:	7 7/8		
		Total	Depth:	5112		
	·	Injec	tion Interv	<u>al</u>	•	
				feet to		feet
		•••	orated or o	pen-hole, in	dicate which)	
Tubing size _	2 7/8 lined	with	IPC	rial)	se	t in a
		packer	`, -		feet.	
(brand & m	ny other casing	tubing seal)				
Other Data	•					
1. Name of th	e injection for	mation	NA			
	eld or Pool (If		Loving	gton Grayburg	San Andres	
	·					
	new well drilled what purpose wa		.0111	rilled?	production	
	ll ever be perfo and give pluggin					rated
	lepth to and name this area.	e of any over	lying and/o	r underlying	oil or gas z	ones

OPERATOR	EIROLEUR	CORPORATION		LEASE	Ingcon bai	n Andres Un	1. L
	1044 ENT	& 2592 FEL			m 16 a	704 7	
WELL NO.		FOOTAGE LOCA	TION	SEC.		R36 East P RANGE	
	<u></u>			Tul	bular Data	<u> </u>	
	î i		Surface C	asing			
			Size: 8	5/8 ″	Cemented	with	275 S
		•	TOC: st	rface	feet	determined	by circ.
		~	Hole size	:	12 1/4		
		365' 275 PX .	Intermedi	ate Cas	ing		
		W. 2 F. W.	Size:		Cemented	with	S
	-	roc .	TOC:		feet	determined	by
	}	2780	Hole Size	:			
			Long Stri	ng			
		5130'	Size:5	1/2 "	Cemented	i with	
		850 DV.	TOC:2	780	feet	determined	by Bond Lo
			Hole Size	:	7 7/8		•
			Total Dep	th:	5130		
	•		Injection	Interv	<u>al</u>		
					_ feet to	·	feet
					-	indicate w	hich)
Tubing size _	2 7/8	lined with _			rial)		set in a
		F	acker at _			fee	t.
(brand & moor describe as		casing-tubing	seal).				
ther Data		•					
. Name of the	a injecti	on formation	NA			,	
	~	ol (If applic			San Andres	3	
		drilled for i	-				
		pose was the			rilled?	production	on .
		e perforated plugging deta					
used.		. 00 0	•				

	GREE	NHILL PETROLEUM COR	RPORATION	Loving	gton San Andre	s Unit	
	OPERATOR			LEASE			
	#67	2444 FSL & 281		31	T16S-R37E		
	WELL NO.	FOOTAGE L	OCATION	SEC.	TOWNSHIP	RANGE	
				Tu	bular Data		**************************************
			Surface	Casing			
		15/75	Size:	<u>8 5/8</u> "	Cemented wi	th325	sx
			TOC:	surface	feet det	ermined by _c	·irc
			Hole siz	ze:	12 1/4		
		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Intermed	liate Cas	ing		
		}			Cemented wi	th	SX
		}			feet det		
)					
		1	Long Str				
		£ 5/13			Cemented wi	th 1550	SX
		1220			feet det		
,	•					•	rculatio '
					7 7/8		
					5113		
			Injection	on Interv		•	
		·	(perfora	ated or o	feet to pen-hole, ind	icate which)	feet
Tu	bing size	2 7/8 lined wit	.h `	IP	C	set	t in a
				•	rial)		
	(brand & mo		_ packer at	45	88	teet.	
(or	describe an	y other casing-tub	ing seal).				
<u>Oth</u>	<u>er Data</u>						
1.	Name of the	injection formati	on San	Andres			
2.	Name of Fie	ld or Pool (If app	licable) \underline{I}	Lovington	Grayburg San	Andres	·····
3.		new well drilled fo what purpose was t	•			production	
4.		.l ever be perforat and give plugging d					rated
5.	Give the de (pools) in	epth to and name of this area.	any overlyi	lng and/o	r underlying	oil or gas zo	ones

	GREENHILL	PETROLEUM CORPORATION	Loving	ton San Andres	Unit
	OPERATOR		LEASE		
	#68	238 FSL & 35 FWL	31	T16S-R37E	
	WELL NO.	FOOTAGE LOCA	TION SEC.	TOWNSHIP	RANGE
			Tu	bular Data	
			Surface Casing		
		1 17	Size: 8 5/8 ~	Cemented wit	chsx
			TOC: surface	feet dete	ermined by circ.
			Hole size:	12 1/4	
			Intermediate Cas	ing	
			Size:	Cemented wit	chsx
		350'	TOC:	feet dete	ermined by
		Toc	Hole Size:	,	
		750'	Long String		
			Size: 5 1/2 "	Cemented wit	sh <u>625</u> sx
			TOC: 750	feet dete	ermined by TS
		1 5100	Hole Size:	7 7/8	·
			Total Depth:	5100	
			Injection Interv	al al	
			(perforated or o	_ feet to pen-hole, indi	feet
Tul	bing size _	2 7/8 lined with	IPC		set in a
· 		p	acker at460	rial) 4	feet.
(or	(brand & mo	odel) ny other casing-tubing	•		
•	er Data		,, .		
_		e injection formation			
1.					
2.	Name of Fig	eld or Pool (If applic	able) Lovingto	n Grayburg San	Andres
3.	Is this a r If no, for	new well drilled for i what purpose was the	njection? no well originally d		production
4.		ll ever be perforated and give plugging deta			
5.		epth to and name of an this area.	y overlying and/o	r underlying o	oil or gas zones

#86 ELL NO.		LEASE
	FOOTAGE LOCAL 1962' 51/2" 6335'	Tubular Data Surface Casing Size: 8 5/8 " Cemented with 1107 STOC: Surface feet determined by circulat Hole size: 12 1/4 Intermediate Casing Size: " Cemented with STOC: feet determined by Lincoln String Size: " Cemented with STOC: feet determined by STOC: Surface feet determined by STOC: Surface feet determined by Circ. Surface feet determined by Circ.
ELL NO.	1962' 51/2" 6335'	Tubular Data Surface Casing Size: 8 5/8 " Cemented with 110.7 ST TOC: Surface feet determined by circulat Hole size: 12 1/4 Intermediate Casing Size: " Cemented with ST TOC: feet determined by Hole Size: Cemented with 1900 ST TOC: surface feet determined by circ.
	<u> </u>	Surface Casing Size: 8 5/8 " Cemented with 110.7 ST TOC: Surface feet determined by circulate thole size: 12 1/4 Intermediate Casing Size: " Cemented with ST TOC: feet determined by the size: 12 1/4 Long String Size: 5 1/2 " Cemented with 1900 ST TOC: surface feet determined by circ.
	<u> </u>	Size: 8 5/8 " Cemented with 110.7 ST TOC: Surface feet determined by circulate Hole size: 12 1/4 Intermediate Casing Size: " Cemented with ST TOC: feet determined by Hole Size:
	<u> </u>	Size: 8 5/8 " Cemented with 110.7 ST TOC: Surface feet determined by circulate Hole size: 12 1/4 Intermediate Casing Size: " Cemented with ST TOC: feet determined by Hole Size:
	<u> </u>	TOC: Surface feet determined by circulate Hole size: 12 1/4 Intermediate Casing Size: "Cemented with Size: feet determined by Hole Size: Cemented with 1900 Size: 5 1/2 "Cemented with 1900 Size: surface feet determined by circ.
	<u> </u>	Hole size: 12 1/4 Intermediate Casing Size: "Cemented with Size: Too: feet determined by Hole Size: Long String Size: 5 1/2 "Cemented with 1900 Size: surface feet determined by circ.
	<u> </u>	Intermediate Casing Size:
	<u> </u>	Size: Cemented with Size: feet determined by Hole Size: Long String Size: 5 1/2
		TOC:feet determined by Hole Size: Long String Size:
		Hole Size: Long String Size: 5 1/2 " Cemented with 1900 ST TOC: surface feet determined by circ.
		Long String Size: 5 1/2 " Cemented with 1900 ST TOC: surface feet determined by circ.
		Size: 5 1/2 " Cemented with 1900 ST TOC: surface feet determined by circ.
		TOC: surface feet determined by circ.
	Th	Hole Size: 7 7/8
	1 1 1	
	6350	Total Depth: 6350
		Injection Interval
		feet to feet
		(perforated or open-hole, indicate which)
size	lined with	set in a
	,	(material)
cribe an	lel)	(material) packer atfeet. ng seal).
_	injection formation	
this a no	w well drilled for	injection? No
no, for	hat purpose was the	well originally drilled? Production
		in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s)
	cribe any ata e of the e of Fiel this a ne no, for w the well ervals ar	and & model) cribe any other casing-tubin ata e of the injection formation e of Field or Pool (If appli this a new well drilled for no, for what purpose was the the well ever be perforated ervals and give plugging det d.

	nnill Pet	roleum Corporation	Lovington Paddock Unit
OI	PERATOR	D. T 41	LEASE
#87		BrL 1645 FNL & 1162 SL 1138 FNL & 1546	
WI	ELL NO.	FOOTAGE LOCAT	
			Tubular Data
		1 K15	Surface Casing
			Size: 13 3/8 " Cemented with 375 SX
			TOC: Surface feet determined by circ.
			Hole size: 17 1/2
		Toc 1040'	Intermediate Casing
		{ }	Size: 8 5/8 " Cemented with 850 SX
		85/8 2987'	TOC: Surface feet determined by circ.
			Hole Size: 12 1/4
			Long String
		}	Size: 5 1/2 " Cemented with 1205 SX
		51/2	TOC: 1040 feet determined by bond lo
		6467	Hole Size: 7 7/8
			Total Depth: 6467
		•	Injection Interval
			feet to feet (perforated or open-hole, indicate which)
Cubing	size	lined with	
	-	n	(material) acker atfeet.
•	and & mode		
her D	ata		
. Name	e of the	injection formation _	
		•	able) Lovington Paddock
Is	this a nev	w well drilled for in	W
	•		in any other zone(s)? List all such perforated ll (sacks of cement or bridge plug(s)

#8		16/2 TWI 6 200 TV	LEASE
		1//2 TNI C 200 TV	
		1642 FNL & 302 FV	WL 31 T16S-R37E
	WELL NO.	FOOTAGE LOCA	ATION SEC. TOWNSHIP RANGE
	· · · · · · · · · · · · · · · · · · ·		Tubular Data
		11	Surface Casing
			Size: 8 5/8 " Cemented with 1350,
			TOC: surface feet determined by circ.
			Hole size: 12 1/4
		·	
			Intermediate Casing
		2019	Size: Cemented with
		من رم ا	TOC: feet determined by
			Hole Size:
			Long String
			Size: 5 1/2 " Cemented with 1925
,		51/2"	TOC: surface feet determined by circ.
		6349'	Hole Size: 7 7/8
			Total Depth: 6350
			Injection Interval
			feet to feet
		•	(perforated or open-hole, indicate which)
ubin	g size	lined with	(material) set in
		P	packer atfeet.
•	rand & modescribe any	el) other casing-tubing	z seal).
her_I			· · · · · · · · · · · · · · · · · · ·
		fulla abilian Europa bilan	
		injection formation	To the state of
Nai	me of Field	d or Pool (If applic	
		w well drilled for i hat purpose was the	njection? No Production well originally drilled?
in			in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s)

Greenhill 1	Petroleum Corporation	Lovington Paddock Unit
OPERATOR		LEASE
#89 WELL NO.	1275 FWL & 1745 FNL FOOTAGE LOCA	
		Tubular Data
	11	Surface Casing
		Size: 8 5/8 " Cemented with 1350 SX
		TOC: surface feet determined by circ.
		liole size: 12 1/4
	82/8	Intermediate Casing
	1980	Size: Cemented withSX
		TOC: feet determined by
	·	Hole Size:
		Long String
	L 51/k,	Size: 5 1/2 " Cemented with 1400 SX
	6350	TOC: surface feet determined by circ.
		Hole Size: 7 7/8
		Total Depth: 6350
		Injection Interval
		feet to feet (perforated or open-hole, indicate which)
Tubing size	lined with	
	p	(material) acker at feet.
(brand & mo		
Other Data	. •	
1. Name of the	injection formation	~
2. Name of Fie	ld or Pool (If applic	able) Lovington Paddock
	ew well drilled for i	njection? No well originally drilled? Production
		in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s)
5. Give the de (pools) in	-	y overlying and/or underlying oil or gas zones

	Greenhill	Petroleum Corpor	ation	Lovin	ngton Paddock Unit	
	OPERATOR			LEASE		
	#90	1355 FWL & 2535	FSL	36	T16S-R36E	
		FOOTAGE			TOWNSHIP RANGE	_
				Tub	oular Data	-
	1.1		Surfac	e Casing		
			Size:_	8 5/8	Cemented with 1150	X
		•	TOC: _	surface	feet determined by circ.	
		•	llole s	ize: 12	1/4	٠,
		85/8 ''	Interm	ediate Casi	ing	
		2050'	Size:_	~	Cemented with	X
			TOC: _		feet determined by	
		•	Hole S	ize:		
		•	Long S	tring		
		·	Size:_	5 1/2 "	Cemented with 1550	X
		5½".	TOC: _	surface	feet determined by circ.	<u>. </u>
	-	6350	Hole S	ize:	7/8	
			Tota1	Depth: 63	350	
			Inject	ion Interve	<u>a1</u> ·	
			(perfo	rated or op	feet to feet pen-hole, indicate which)	
Tul	bing size	lined wi	th :		set in a	ı
			packer a	(mater	•	
(or	(brand & mode describe any					
Othe	er Data	·				
1.	Name of the	injection format	ion			-
2.	Name of Field	d or Pool (If ap	plicable)	Lovin	ngton Paddock	-
3.		w well drilled f hat purpose was			rilled? Production	-
4.					(s)? List all such perforated at or bridge plug(s)	
5.	Give the dep		f any overl	ying and/or	underlying oil or gas zones	_

		coleum Corporation		Lovin	gton Paddock I	Unit	
	OPERATOR			LEASE			
	#93 WELL NO.	2470 FSL & 1 FOOTAGE LOCA	355 FWL TION	SEC.	T16S-R37E TOWNSHIP	RANGE	- ************************************
			Surface		ular Data		
			Size:	8 5/8 "	Cemented wit	h1200,	sx
			TOC:	surface	feet dete	rmined by _	circ.
			Hole siz	e: <u>12</u>	1/4		· ·
			Intermed	<u>iate Casi</u>	ng		
		1974	Size:		Cemented wit	h	sx
		1200 ×	TOC:		feet dete	rmined by	
			Hole Siz	e:			
			Long Str	ing			
			Size:	5 1/2 "	Cemented wit	h 1750	sx
	•				feet dete	rmined by _	circ.
		- 6450	Hole Siz	e:	7 7/8		
		1750 Sc.	Total De	pth:	6450	——•	
			Injection	n Interva	1		
			(perfora	ted or op	feet toen-hole, indi	cate which)	feet
Tul	bing size	lined with		(mater	 1all	se	t in a
			acker at	,		feet.	
(or	(brand & model) describe any of	her casing-tubing	seal).				
Othe	er Data						
1.	Name of the inj	ection formation				···	
2.	Name of Field o	or Pool (If applied	able)	Lovington	Paddock		
3.		vell drilled for in purpose was the v				duction	
4.		ver be perforated a give plugging detain					rated
5.	Give the depth (pools) in this	to and name of any area.	y overlyii	ng and/or	underlying o	il or gas z	ones

	Greenhill	Petro	leum Corporatio	n	Loving	gton Paddocl	k Unit
	OPERATOR	CT 15	95 ECI 1 /20	737.77	LEASE		
	#95		85 FSL and 432 186 FSL and 14		`31	T16S-R371	.
,	WELL NO.		FOOTAGE LOCA		SEC.	TOWNSHIP	RANGE
					Tu	bular Data	
				Surfac	e Casing		
				Sizo:	13 3/8" ~	Comonted	with 350 . s.
			133/8	TOC:	surface	feet d	letermined by <u>circ.</u>
	·		386'		lze:		
				Intern	ediate Cas	ing	
				Size:	8 5/8 "	/ Cemented	with1100S
			001 V	TOC: _	surface	feet d	letermined by circ.
		L	9≤/8 " 2980'	Hole S	ize:	12 1/4	·
			2180	Long S	tring		
				Size:	5 1/2 ~	Cemented	with
			51/2"	TOC: _	surface	feet d	letermined by <u>circ.</u>
			6420'			7/8	•
			0120	Total	Depth: 6	420	· .
				Inject	ion Interv	<u>a1</u>	
				-		feet to	feet
	•	•				pen-noie, i	ndicate which)
Tubing	g size		_ lined with		(mate	rial)	set in a
			p	acker s	•	•	feet.
•	cand & mod scribe any	•	casing-tubing	seal).			
Other I	•			·		•	
		iniect	ion formation	_			
•		-	ool (If applic			ington Padd	lock
2. II	10 VI IIUI		our (in apprin	40207		<u> </u>	,
			drilled for i			rilled?	production.
	ervals an		oe perforated plugging deta				all such perforated e plug(s)
	e the dep			y overl	ying and/or	r underlyin	g oil or gas zones

OPERATOR			LEASE			
# 96	1400 1111 6	1070 BG		m1 4		
WELL NO.	1492 FWL & FOOTAGE LO		SEC.		RANGE	,
WELL NO.	roomen no		0.00	ZONZIBILZZ	IGHIOD	
	and an ordinary and a second second second second second second second second second second second second second		Tub	oular Data		——————————————————————————————————————
		Surface	Casing			
		Sizo:	8 5/8 ~	Cemented w	ith	s
	•	TOC:	surface	feet de	termined by	circ.
		Hole si	ze: <u>12</u>	1/4	Name of Control	÷
		Intermed	liate Casi	ng		
	85/2	Size:		Cemented w	ith	s
L.	1927	TOC:		feet de	termined by	•
	·	Hole Si	ze:			
	•	Long St	ring	•		
		Size:	5 1/2 "	Cemented w	ith140	o s
	·	TOC:		feet de	termined by	**************************************
	63 30	Hole Si	ze: <u>7</u>	7/8		•
_	5/h2	Total De	epth: 63	30		
	•	Injection	on Interva	<u>.1</u>		
		(parform	ated or or	feet to	dicate which	feet
shing giza	lined with			· ——		et in a
LULING GLEO			(mater			00 Zii u
(brand & model		packer at		_	feet.	
	ther casing-tubi	ng seal).				
er Data						
Name of the in	jection formation	n			······································	
Name of Field	or Pool (If appl	icable) <u>I</u>	ovington	Paddock		
	well drilled for t purpose was th			illed? Pi	roduction	
intervals and used.	ver be perforate give plugging de					orated
No						

	Greenhill Petr	roleum Corporation		oving EASE	ton Paddock	Unit	
	OLEMION		2.1	MIO IJ			
	#97 WELL NO.	1228 FEL & 132 FS FOOTAGE LOCA		36 EC.	T16S-R36E TOWNSHIP	RANGE	****
				Tub	ular Data		
		•	Surface Cas	ing			
		11	Siza:	5/8 "	Camantad	with1275	SX
						letermined by	
		· .	llole size:			•	
			Intermediate			ha-mar-nam-dan-da-an-d	
						with	
		85/8			·	letermined by	
	· ·	2031	Hole Size:				· · · · · · · · · · · · · · · · · · ·
			Long String		Comombo 4	with220	00 ev
		ACCUPATION OF THE PROPERTY OF					
•		e. Letter de la constant de la const				letermined by	CIFE
			Hole Size:		•		
		- 6330 · 5/2	Total Depth		•		
		. 3/2	Injection In	nterva	<u>1</u>	•	
			(perforated	or or	feet to en-hole, i	ndicate which	ch)
Tu	bing size	lined with			· · · · · · · · · · · · · · · · · · ·		set in a
		p	acker at	(mater	•	feet.	
(or	(brand & model describe any o		,				
<u>Oth</u>	er Data				•		
1.	Name of the in	jection formation	·				**************************************
2.	Name of Field	or Pool (If applic	able)	Lovin	gton Paddoo	ck	
3.		well drilled for i		No lly dr	illed?	Production	· · · · · · · · · · · · · · · · · · ·
4.		ver be perforated give plugging deta No					forated
5.	Give the depth (pools) in thi	to and name of an s area.	y overlying a	and/or	underlyin	g oil or gas	zones
					•		

	Greenhill	Petroleum Corporation	n Lovington Paddock Unit
	OPERATOR		LEASE
	#98	268 FSL & 35 FWL	· 31 T 16S R 37E
 -	WELL NO.	FOOTAGE LOCA	ATION SEC. TOWNSHIP RANGE
-			Tubular Data
			Surface Casing
			Size: 8 5/8 " Cemented with 1270 . SX
			TOC: surface feet determined by circ.
			Hole size: 12 1/4
			Intermediate Casing
			Size: Cemented withSX
		2040	TOC: feet determined by
		2040	Hole Size:
			Long String
		Cryming Constitution of the Constitution of th	Size: 5 1/2 " Cemented with 2000 SX
,	•		TOC: surface feet determined by circ.
			Hole Size: 7 7/8
		L 6330	Total Depth: 6330
		.5/h	Injection Interval
		·	feet to feet
	•		(perforated or open-hole, indicate which)
Tu	bing size	lined with	set in a (material)
	(brand & mod	I	packer atfeet,
(or	•	other casing-tubing	; seal).
Oth	er Data	·	
1.	Name of the	injection formation	
2.	Name of Fiel	d or Pool (If applic	cable) Lovington Paddock
3.	Is this a ne If no, for w	w well drilled for i	njection? no well originally drilled? Production
4.			in any other zone(s)? List all such perforated ill (sacks of cement or bridge plug(s)
5.	Give the dep (pools) in t		ny overlying and/or underlying oil or gas zones

Greenhill Pet	troleum Corporation	Lovington Paddock Unit
OPERATOR		LEASE
#99	1540 FEL & 1270	
WELL NO.	FOOTAGE LOCA	ATION SEC. TOWNSHIP RANGE
		Tubular Data
1	i	Surface Casing
		Size: 8 5/8 " Cemented with 1200 SX
		TOC: surface feet determined by circulat
		Hole size: 12 1/4
	05/ "	Intermediate Casing
	1982	Size: Cemented withSX
	() () () () () () () () () ()	TOC: feet determined by
	·	Hole Size:
		Long String
	6499	Size: 5 1/2" Cemented with 1750 SX
	51/2"	TOC: surface feet determined by circ.
	•	Hole Size: 7 7/8
		Total Depth: 6500
		Injection Interval
		feet to feet (perforated or open-hole, indicate which)
ubing size	lined with	set in a (material)
	p	eacker atfeet.
(brand & model r describe any o	.) ther casing-tubing	; seal).
her Data		
Name of the in	dection formation	
	•	able) Lovington Paddock
	•	
	well drilled for i t purpose was the	njection? no well originally drilled? Production
		in any other zone(s)? List all such perforated il (sacks of cement or bridge plug(s)
used.	no	



GREENHILL PETROLEUM CORPORATION IVISION

RECHIE**D**

11490 WESTHEIMER ROAD, SUITE 200 HOUSTON, TEXAS 77077-6841 TELEPHONE (713) 589-8484 FAX. (713) 589-9399

Incorporated in Delaware, U.S.A.

'91 00" / HM 9 26

October 1, 1991

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. David Catanach

Re:

Lovington San Andres
Lea County, New Mexico

Dear Mr. Catanach:

Enclosed please find the affidavit of legal notice for the following conversion of producing wells to water injection wells in the Lovington San Andres Unit Area.

Well Numbers 9, 21, 24, 26, 29, 33 and 41

Also enclosed are the certified mail return receipts for the offset operators. Please advise if I can provide you with additional information.

Very truly yours,

Michael J. Newport

Land Manager-Permian Basin

MJN:sjs 91.167

Enclosures

State of New Mexico, County of Lea.

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I	Γ	1. 11	_	$\mathbf{D} \subset$	a	U C LL

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

•
of
One weeks.
Beginning with the issue dated
Sept. 8 , 19 91
and ending with the issue dated
Sept. 8 19 91
Han kanis
General Manager
Sworn and subscribed to before
me this day of
Paula Parrish
Parin Pannin
Notary Public
My Commission expires
Ang 5 , 19 91

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

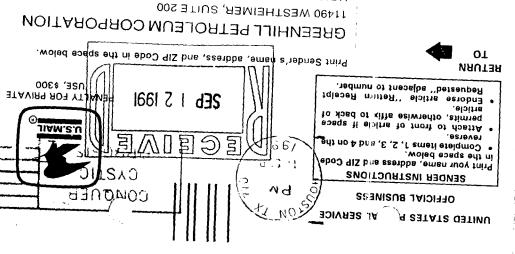
LEGAL NOTICE

September 8, 1991 Greenhill Petroleum Corporation, 11490 Westheimer, Suite 200, Houston, Texas 77077, Phone (713) 589-8484, Con-Prone (713) 389-8484, Contact: Mike Newport. Greenhill Petroleum Corporation plans to convert the following producing wells to injection wells within the Lovington San Andres Field Area. The Andres Field Area. The purpose of the proposed injection wells is to in-crease the reservoir pre-ssure in order to improve the recovery of hydrocarbons. The location of the proposed injection wells are the following well numbers within Section 31, T16S-R37E, Section 36, T16S-R36E, Section 1 and 2, T17S-R36E, Lea County, New Mexico. Well numbers 9, 21, 24, 26, 29, 33 and 41. The injection intervals are approximately between the depths of 4334' and 5240' in the San Andres formation. The maximum injection rates and pressures are 2000 psi and 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 15 days.

and check box(es) for additional service(s) requested.	vide you the name of the son delivered to and vices are available. Consult postmaster for fees
 Show to whom delivered, date, and addressee's (Extra charge) 	s address. 2. Restricted Delivery (Extra charge)
B. Article Addressed to:	4. Article Number
Mobil Exploration & Producing	P 199 S33 898
12450 Greenspoint Drive	Type of Service:
Houston, Texas 77060-4991 -	Registered Insured
Attn: R. L. Fajkowski	Express Mail Return Receipt for Merchandise
	Always obtain signature of addressee
	or agent and DATE DELIVERED.
5. Signature — Addressee	8. Addressee's Address (ONLY if
(requested and fee paid)
S. Signature — Agent	
Value of Delivery	<u>'</u>
9/11/9	/
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Manath	1) 000 (10 0
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5555 San Felipe Road Houston, Texas 77056	Registered Insured
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	Tor Merchandise
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Signature - Addressee	8. Addressee's Address (ONLY if
Signature — Agent	requested and fee paid)
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Date of Delivery	
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Put your address in the from being returned to you. The return receipt fee will print the date of delivery. For additional service(s) requested. 1. Show to whom delivered, date, and addressed (Extra charge) 3. Article Addressed to: Phillips Petroleum P.O. Box 1967 Houston, Texas 77251–1967 5. Signature — Addressee X 6. Signature — Addressee X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-1989-1989 *U.S.G.P.O. 1989-1989-1989 SENDER: Complete items 1 and 2 when accompany and delivery. For additional fees the following and check box(es) for additional service(s) requested to the date of delivery. For additional fees the following and check box(es) for additional service(s) requested (Extra charge) 3. Article Addressed to: Exxon 233 Benmar	verse side. Failure to do to the verse side. Failure to do to the name of the verse side and dervices are available. Consult postmaster for fees as a saddress. 2. Restricted Delivery (Extra charge) 4. Article Number 33 QOI Type of Service: Registered Insured COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT Iditional services are desired, and complete items are reverse side. Failure to do to son delivered to and go services are available. Consult postmaster for fees d. ssee's address. 2. Restricted Delivery (Extra charge) 4. Article Number 33 QOI Type of Service: Registered Insured

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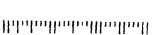
6. Signature – Agent

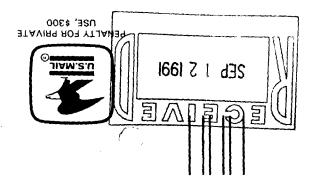


11490 WESTHEIMER, SUITE 200

HOUSTON, TEXAS 77077

Mike Newpert





OFFICIAL BUSINESS UNITED STATES PC /L SERVICE

reverse.

• Attach to front of stricte if space permits, otherwise stricte.

article. Print your name, address and ZiP Code in the space below.

• Complete items 1, Z, 3, and 4 on the energy of the contract of th SENDER INSTRUCTIONS

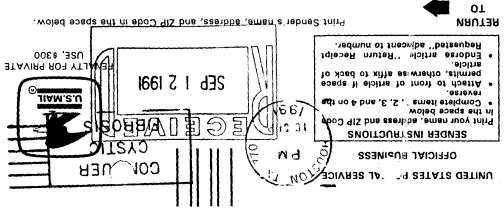
article. Endorse article ''Naturn Receipt Requested'' adjacent to number.

Print Sender's name, address, and ZIP Code in the space below. Attention: Mike Newport

OT ияитзя

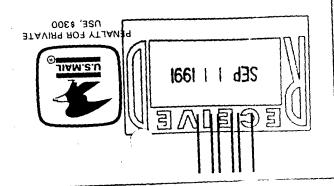
11400 MESTHEIMER, SUITE 200 GREENHILL PETROLEUM CORPORATION

HOUSTON, LEXAS 77077



ALTR: Mike Mewport GREENHILL PETROLEUM CORPORATION

HOUSTON, TEXAS 77077 11490 WESTHEIMER, SUITE 200



OFFICIAL BUSINESS UNITED STATES P()4 SERVICE

Print your name, address and Zip Code in the space below.

• Complete items 1, 2, 3, and 4 on the SENDER INSTRUCTIONS

reverse:

Attach to front of article if space permits, otherwise affix to back of article.

Endorse article "Return Receipt stricts and article."

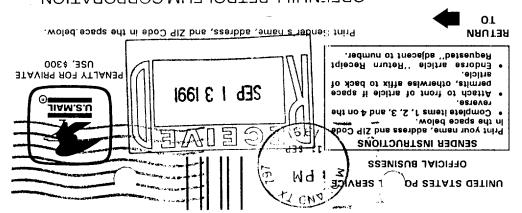
Requested adjacent to number.

Print Sender's name, address, and ZIP Code in the space below.

01 RETURN

Attn: Mike Newport

SENDER: Complete items 1 and 2 when additional	services are desired, and complete items
Put your address in the PETURN TO" Space on the reverse	side. Failure to do will prevent this card
from being returned to The return receipt fee will provide the date of delivery. For additional fees the following service:	you the name of the erson delivered to and
and check box(es) for additional service(s) requested.	
1. Show to whom delivered, date, and addressee's ad (Extra charge)	(Extra charge)
3. Article Addressed to:	4. Article Number 99 532 456
Texaco, USA	Type of Service:
P. O. Box 3109	Registered Insured
Midland, Texas 79702	XXCertified COD
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Express Mail XX Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee	8. Addressee's Address (ONLY if
X	requested and fee paid)
6. Signature - Agent	ļ
x	· 1
7. Date of Delivery	
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PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-819	DOMESTIC BETHEN BECEINT
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1. Show to whom delivered, date, and addressee's ad	
(Extra_charge)	(Extra charge)
3. Article Addressed to:	4. Article Number (33 905)
Amerada Hess	1110001-0
P.O. Box 2040	Type of Service: Registered Insured
	IXIX Cartified COD
218 West 6th St.	XX Certified COD Express Mail XX Return Receipt
Tulsa, Oklahoma 74102	Express Mail XX Return Receipt for Merchandise
	Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee
Tulsa, Oklahoma 74102 Attn: Bob Cawood	Express Mail
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature - Addressee	Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X	Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent	Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if
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Tulsa, Oklahoma 74102 Atti: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery	Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid)
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-818	Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-819	Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT Services are desired, and complete items
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-819 SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the form being returned to The return receipt fee will provide the start receipt fee will prove the start receipt fee will provide the start receipt fee will	Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT I services are desired, and complete items e side. Failure to do t' yill prevent this card e you the name of the son delivered to and
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Tulsa, Oklahoma 74102 Atti: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-818 SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the STURN TO'' Space on the reverse from being returned to the date of delivery. For additional service (s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge)	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) 1. Services are desired, and complete items e side. Failure to do t' vill prevent this card e you the name of the son delivered to and es are available. Consult postmaster for fees address. 2. Restricted Delivery (Extra charge) 4. Article Number P799533936 Type of Service:
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Tulsa, Oklahoma 74102 Attin: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-819 **The return receipt fee will provice the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268 Lovington, New Mexico	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT I services are desired, and complete items e side. Failure to do t' yill prevent this card e you the name of the son delivered to and es are available. Consult postmaster for fees address. 2. Restricted Delivery (Extra charge) 4. Article Number P799533936 Type of Service: Registered Insured XXCertified COD
Tulsa, Oklahoma 74102 Attin: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-818 SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the STURN TO'' Space on the revers from being returned to the date of delivery. For additional service (s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT I services are desired, and complete items e side. Failure to do t' yill prevent this card eyou the name of the son delivered to and es are available. Consunt postmaster for fees address. 2. Restricted Delivery (Extra charge) 4. Article Number P799533936 Type of Service: Registered Insured XXCertified COD XX Return Receipt for Merchandise
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Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-818 SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the STURN TO" Space on the reverse from being returned to The return receipt fee will provide the date of delivery. For additional service(s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268 Lovington, New Mexico 88260	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) 1. Services are desired, and complete items e side. Failure to do t' vill prevent this card e you the name of the son delivered to and es are available. Consunt postmaster for fees address. 1. Restricted Delivery (Extra charge) 1. Article Number P799533936 Type of Service: 1. Registered Desired Insured XXCertified COD Service: 1. Registered COD Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-818 *U.S.G.P.O. 1989-238-818 *U.S.G.P.O. 1989-238-818 *U.S.G.P.O. 1989-238-818 *U.S.G.P.O. 1989-238-818 *U.S.G.P.O. 1989-238-818 **ETURN TO'' Space on the reverse from being returned to The return receipt fee will provice the date of delivery. For additional service(s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268 Lovington, New Mexico 88260 5. Signature — Addressee	Always obtain signature of addressee or agent and DATE DELIVERED. B. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT Services are desired, and complete items e side. Failure to do t' yill prevent this card eyou the name of the son delivered to and es are available. Constat postmaster for fees address. 2. Restricted Delivery (Extra charge) 4. Article Number P799533936 Type of Service: Registered Insured XXCertified COD XXCertified COD Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-819 **ETURN TO'' Space on the reverse from being returned to The return receipt fee will provice the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268 Lovington, New Mexico 88260 5. Signature — Addressee X	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) 1. Services are desired, and complete items e side. Failure to do t' vill prevent this card e you the name of the son delivered to and es are available. Consunt postmaster for fees address. 1. Restricted Delivery (Extra charge) 1. Article Number P799533936 Type of Service: 1. Registered Desired Insured XXCertified COD Service: 1. Registered COD Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
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Tulsa, Oklahoma 74102 Attin: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the from being returned to the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268 Lovington, New Mexico 88260 5. Signature — Addressee X 6. Signature — Addressee X 6. Signature — Addressee	Always obtain signature of addressee or agent and DATE DELIVERED. B. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT Services are desired, and complete items e side. Failure to do t' yill prevent this card eyou the name of the son delivered to and es are available. Constat postmaster for fees address. 2. Restricted Delivery (Extra charge) 4. Article Number P799533936 Type of Service: Registered Insured XXCertified COD XXCertified COD Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if
Tulsa, Oklahoma 74102 Attn: Bob Cawood 5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-819 *The return receipt fee will provice the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: City of Lovington P.O. Box 1268 Lovington, New Mexico 88260 5. Signature — Addressee X 6. Signature — Addressee	Always obtain signature of addressee or agent and DATE DELIVERED. B. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT Services are desired, and complete items e side. Failure to do t' yill prevent this card eyou the name of the son delivered to and es are available. Constat postmaster for fees address. 2. Restricted Delivery (Extra charge) 4. Article Number P799533936 Type of Service: Registered Insured XXCertified COD XXCertified COD Express Mail XX Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if



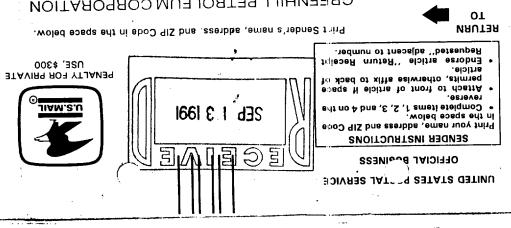
GREIENHILL PETROLEUM CORPORATION

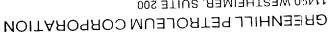
11490 NESTHEIMER, SUITE 200

HOUS TON, TEXAS 77077

Wike Newport

Hilidan Harlan Hunthull





11490 WESTHEIMER, SUITE 200

/cfu: Wike Newbort

HOLISTON, TEXAS 77077

N2E' \$300 PENALTY FOR PRIVATE 1661 9 1 d3S JIAM.S.U

OFFICIAL BÜSINESS UNITED STATES PC . AL SERVICE

Print your name, address and ZIP Code in the space below.
• Complete Items 1, 2, 3, and 4 on the SENDER INSTRUCTIONS

Endorse article "Return Receipt article. permits, otherwise affix to back Attach to front of article if apace

Requested" adjacent to number.

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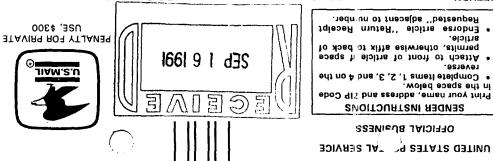
Print Sender's name, address, and ZIP Code in the space below.

Houston, Texas 77077 11490 Westheimer, Suite 200 <u> Yrreurlou: Wike Newborr</u> Greenhill Petroleum Corporation

3 and 4. ut your address in the TURN TO Tom being returned to The return	'' Space on the reverse sin receipt fee will provide y	de. Failure to do the fill prevent this card ou the name of the son delivered to and are available. Consult postmaster for fees
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Hobbs, NM 88240	*	Express Mail XX Return Receipt for Merchandise
	\$	Always obtain signature of addressee or agent and DATE DELIVERED.
Signature - Addressee Signature - Agent		8. Addressee's Address (ONLY if requested and fee paid)
Date of Aglivery		
Form 3811, Apr. 1989	*U.S.G.P.O. 1989-238-815	DOMESTIC RETURN RECEIPT
	x 0.0.d.r.0. 1909-230-013	Someono ne roma necesión
	10 ber additional	services are desired, and complete items
SENDER: Complete items	1 and 2 when additional	services are desired, will prevent this card
Put your address in the TURN from being returned to the the date of delivery. For additional and check box(es) for additional s	TO'' Space on the reverse turn receipt fee will provid I fees the following service (s) requested.	e side. Failure to do t son delivered to and le you the name of the son delivered to and less are available. Consult postmaster for fees address. 2. Restricted Delivery
1 1 Show to whom delivered	, date, and addressee's a a charge)	(Extra charge)
3. Article Addressed to: Penroc Oil Corpora		4. Article Number 533 904
P.O. Box 5970	11011	Type of Service:
5014 Carlsbad Hwy.		Registered Insured
Hobbs, New Mexico	88241	COD Express Mail Express Mail COD Return Receipt for Merchandise
		Always obtain signature of addressee or agent and DATE DELIVERED.
5 Signature Addressee		8. Addressee's Address (ONLY if requested and fee paid)
6. Signature – Agent X		18
7. Date of Delivery		
7-13-1/		DOMESTIC RETURN RECEIPT
PS Form 3811, Apr. 1989	± U.S.G.P.O. 1989-238	N
SENDER: Complete iten	ns 1 and 2 when addition	onal services are desired, and complete item
9 3 and 4. Put your address in the PETU from being returned to 1. The the date of delivery. For additional process of the date of delivery.	JRN TO'' Space on the reversity of the reversity of the second se	verse side. Failure to do will prevent this card by the name of the aron delivered to and rvices are available. Consult postmaster for feet
	red, date, and addressee Extra charge)	's address. 2. Restricted Delivery (Extra charge)
3. Article Addressed to: Oryx Energy Com	pany	4. Article Number 533 904
		Type of Serie:
P.O. Box 1861		- full p
P.O. Box 1861 Midland, Texas	79702-1861	Registered Insured XXCertified COD Express Mail XX Return Receipt
. [79702–1861	Express Mail Express Mail Always obtain signature of addressee
. [79702-1861	Express Mail COD Return Receipt for Merchandise

over

7. Date of Delivery

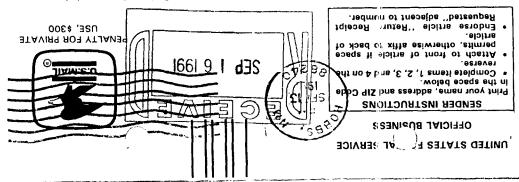


Print Sender's name, address, and ZIP Code in the space below.

01 ивитая

ACER: MIke Newport GREENHILL PETROLEUM CORPORATION

HOUSTON, TEXAS 77077 11490 WESTHEIMER, SUITE 200



Print Sender's name, address, and ZIP Code in the space below.

OT **ИВ**ОТЭВ

GREENHILL PETROLEUM CORPORATION

HOUSTON, TEXAS Y7077

Attn: Mike Newport 11490 WESTHEIMER, SUITE 200

N2E' \$300

PENALTY FOR PRIVATE

OFFICIAL BUSINESS - SEBVICE **UNITED STATES PO**

SENDER INSTRUCTIONS

Print your name, address and ZIP Code in the space below.

• Complete items 1, 2, 3, and 4 on the

reverse. Attach to front of article if space permits, otherwise affix to back of

Requested" adjacent to number. article. Endorse article "Return Receipt

Print Sender's name, address, and ZIP Code in the space below.



11490 WESTHEIMER, SUITE 200 GREENHILL PETROLEUM CORPORATION

HOUSTON, TEXAS 17077

J Newbort Attn: Mike