



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

March 16, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Greenhill Petroleum Corporation
11490 Westheimer Road, Suite 200
Houston, TX 77077-6841

Attention: Michael J. Newport

*RE: Injection Pressure Increase, Five Wells in the Lovington San
Andres Unit Waterflood Project. Lea County, New Mexico*

Dear Mr. Newport:

Reference is made to your request dated March 3, 1993 to increase the surface injection pressure on five wells in the Lovington San Andres Waterflood Project. This request is based on step rate tests conducted on these wells between February 2 and 5, 1993. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

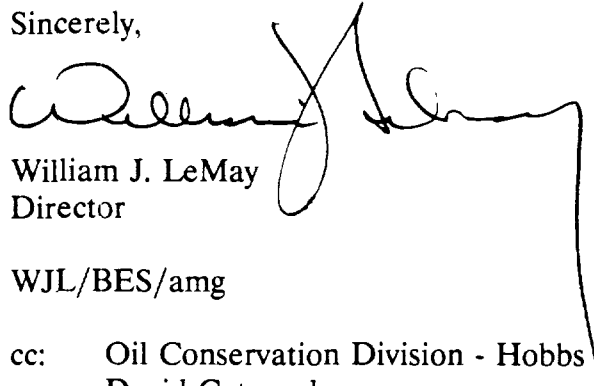
Well and Location	Maximum Injection Surface Pressure
LSAU No. 8 2310' FNL - 1980' FWL Unit F, Section 31, Township 16 South, Range 37 East	1750 PSIG
LSAU No. 12 1980' FSL - 1980' FWL Unit K, Section 36, Township 16 South, Range 36 East	1925 PSIG
LSAU No. 31 660' FNL - 1980' FWL Unit C, Section 1, Township 17 South, Range 36 East	2150 PSIG

*Injection Pressure Increase
Greenhill Petroleum Corporation
March 16, 1993
Page 2*

Well and Location	Maximum Injection Surface Pressure
LSAU No. 33 660' FNL - 660' FEL Unit A, Section 1, Township 17 South, Range 36 East	2193 PSIG
LSAU No. 40 1980' FNL - 660' FEL Unit H, Section 1, Township 17 South, Range 36 East	1750 PSIG
All wells located in Lea County, New Mexico.	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



William J. LeMay
Director

WJL/BES/amg

cc: Oil Conservation Division - Hobbs
David Catanach
File: WFX-615
WFX-632
Case No. 10154

EXHIBIT 1
WELLS THAT ENCOUNTERED PRESSURE WHILE DRILLING
GPC LPU & LSAU DRILLED WELLS

WELL	DATE PRESSURE WAS FIRST ENCOUNTERED	DEPTH PRESSURE WAS FIRST ENCOUNTERED, FEET	TYPE OF FLUID UNDER PRESSURE
LPU 95	2-14-91	1000	NA
LPU 87	2-5-91	NA	NA
LPU 100	3-25-91	3300	NA
LPU 96	5-1-91	NA	NA
LPU 118	7-16-91	3100	NA
LPU 117	7-27-91	2100	NA
LPU 115	8-7-91	2000	NA
LPU 123	9-6-91	1870	NA
LPU 103	9-14-91	2110	NA
LPU 104	9-27-91	3010	NA
LPU 102	11-25-91	3000	NA
LPU 110	12-28-91	1340	NA
LPU 141	3-26-92	2700	NA
LPU 140	4-4-92	2950	NITROGEN
LPU 142	4-12-92	2800	NA
LPU 139	4-19-92	2769	NA
LPU 135	5-3-92	2500	GAS W/100 PPM H2S
LPU 136	5-3-92	2434	NITROGEN
LPU 134	7-11-92	5000	TRIP GAS W/22 PPM H2S
LSAU 60	1-14-90	2400	NITROGEN
LSAU 61	2-14-90	4720	NA
LSAU 87	3-5-91	NA	NA
LSAU 71	12-1-91	1358	NA
LSAU 88	4-13-92	2892	NA
LSAU 84	5-18-92	3300	NA
LSAU 82	5-19-92	3300	NA
LSAU 85	5-24-92	2565	NITROGEN
LSAU 77	7-7-92	2675	NA



GREENHILL PETROLEUM CORPORATION

P. O. BOX 1949
HOBBS, NEW MEXICO 88240
TELEPHONE (505) 396-7503
FAX. (505) 396-5950

Incorporated in Delaware, U.S.A.

INTEROFFICE MEMORANDUM

Date: January 26, 1993

To: David Tilley

From: Houston Engineering

Subject: Well flows encountered while drilling LSAU and LPU new completions 1990-1992.

There have been 87 wells drilled by Greenhill in the Lovington San Andres Unit and Lovington Paddock Unit in this time period. Of the 87 wells, 28 wells have encountered flows while drilling (exhibit 1). The flows were encountered at different depths ranging from 1000 ft to 5000 ft from the surface. The 28 wells with flows were spotted on a map (exhibit 2) and found to be scattered throughout the Lovington fields.

Wells drilled on the same drilling pad (17 pairs) were also reviewed (exhibit 3). Many of these wells did not encounter flows even though the twin well on the same pad had experienced a flow. Additionally the flows encountered were random, regardless of whether the well was the first or second drilled on the same pad.

In conclusion, there is no obvious trend to the flows experienced while drilling in the LSAU or LPU. The flows seem to be random in depth and in geographic location.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
RECEIVED

'93 FEB 17 AM 8 48

February 10, 1993

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

*Case File
10154*

David Catanach
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBJECT: Greenhill Petroleum Corp.
Lovington area waterfloods

Dear David:

Several months ago, the Getty State P #5 located in Unit M of Section 32, Township 16 South, Range 37 East, that was being monitored, started to pressure up.

The monitor well was on the list of wells to be replugged by Division Order R-9431, authorizing the expansion of the Lovington San Andres Unit. It was impossible to properly replug the well and it was left open to see if water migrated up the wellbore.

After the well pressured up, a meeting was held with Greenhill in an attempt to see what problems are occurring in the area.

Greenhill reviewed injection profiles and made cross-sections of well logs and profiles with data on flows from 87 wells drilled since 1990.

Next week, Greenhill is going to run a production log on the Getty State P No. 5 well to see if the well is being pressured up through the salt section or from a zone below the plug back TD.

Greenhill put in a lot of work, reviewing their flood, and so far I agree with Greenhill that a major problem does not exist.

If you want any additional data or if you want to review the cross-sections, let me know.

Very truly yours

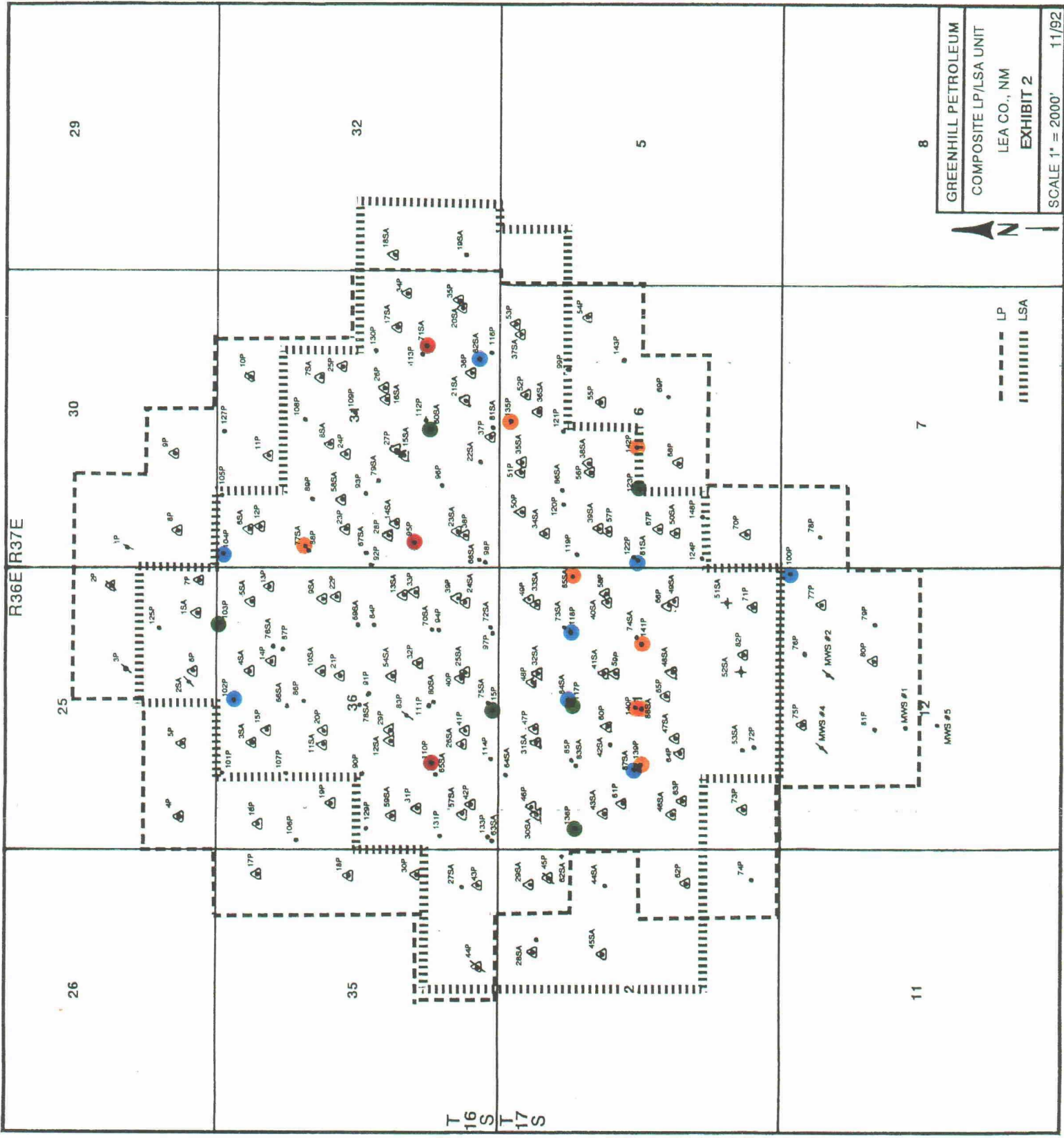
OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

JS:bp

File





Depth of First Occurrence While Drilling (Air/Gas Blow)

- > 3000'
- 2500' - 3000'
- 2500' - 1500'
- < 1500'

GREENHILL PETROLEUM
 COMPOSITE LP/LSA UNIT
 LEA CO., NM
 EXHIBIT 2

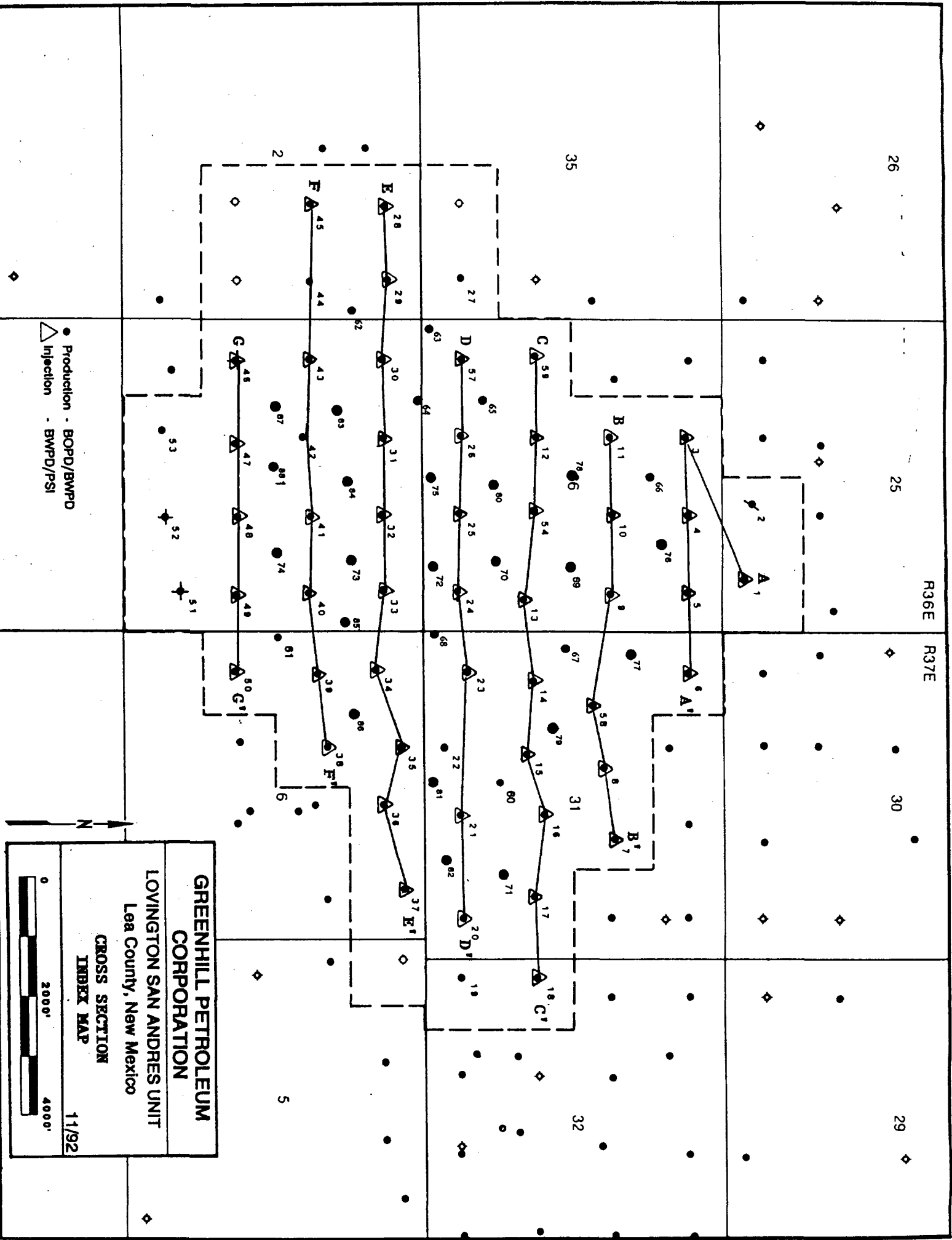


--- LP
 ||||| LSA

SCALE 1" = 2000' 11/92

EXHIBIT 3
 COMPARING PRESSURES FOR WELLS DRILLED ON SAME PAD
 LOVINGTON SAN ANDRES UNIT AND LOVINGTON PADDOCK UNIT

WELLS ON SAME PAD		DEPTH OF PRESSURE IN LSAU WELL, FEET	DEPTH OF PRESSURE IN LPU WELL, FEET	COMMENTS
LSAU WELL #	LPU WELL #			
76	87	NONE	NONE	
77	88	2675	NONE	LSAU #77 WAS 2ND WELL DRILLED
69	84	NONE	NONE	
71	113	1358	NONE	LSAU #71 WAS 2ND WELL DRILLED
63	133	NONE	NONE	
75	115	NONE	2000	LPU #115 WAS 1ST WELL DRILLED
72	97	NONE	NONE	
68	98	NONE	NONE	
82	116	3300	NONE	LSAU #82 WAS 2ND WELL DRILLED
83	85	NONE	NONE	
84	117	3300	2100	LPU #117 WAS 1ST WELL DRILLED
73	118	NONE	3100	LPU #118 WAS 1ST WELL DRILLED
86	120	NONE	NONE	
87	139	NA	2769	BOTH DRILLED AT SAME TIME
88	140	2892	2950	BOTH DRILLED AT SAME TIME
74	141	NONE	2700	LPU #141 WAS 2ND WELL DRILLED
61	122	61	NONE	LSAU #61 WAS 1ST WELL DRILLED



26

25

R36E R37E

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29

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32

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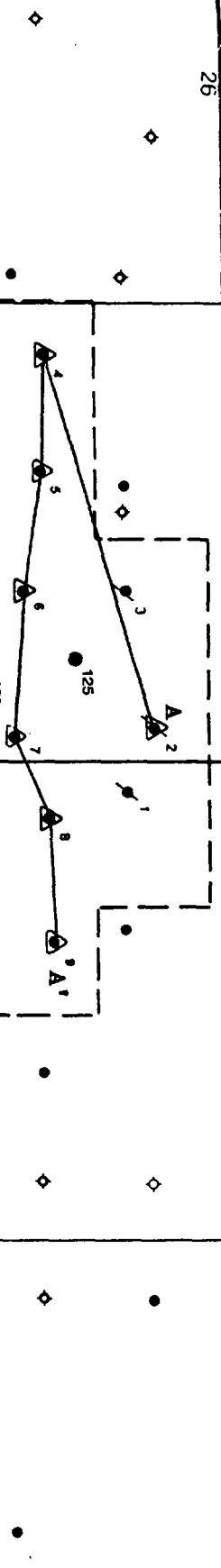
5

● Production - BOPD/BWPD
 ▲ Injection - BWPD/PSI

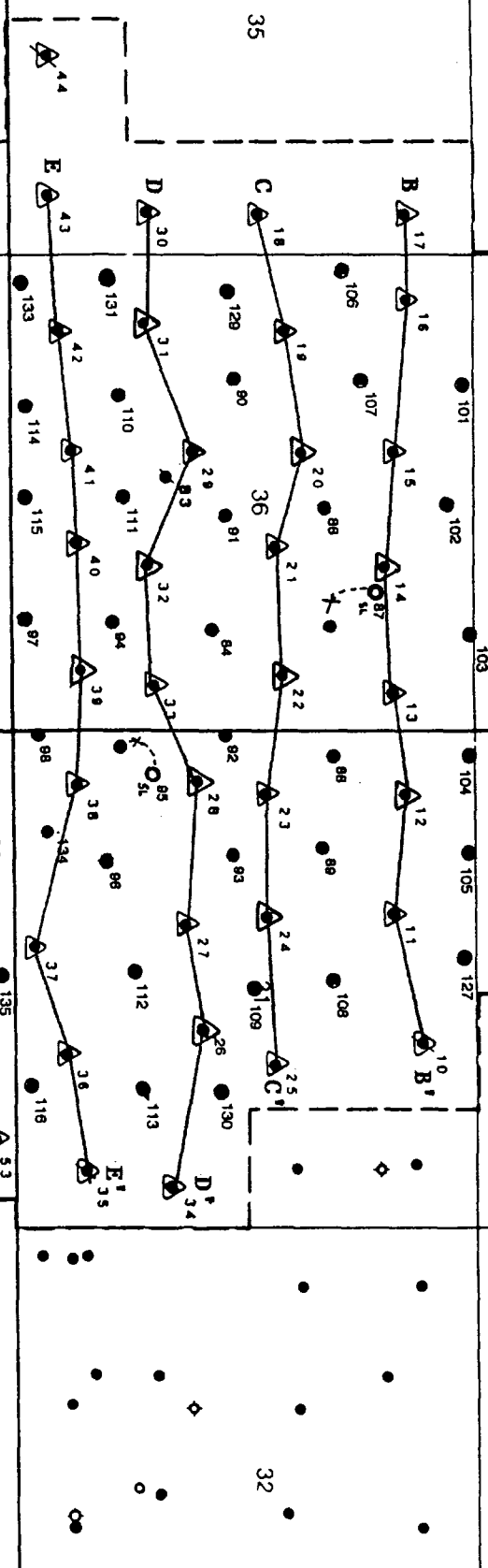
GREENHILL PETROLEUM CORPORATION
LOVINGTON SAN ANDRES UNIT
 Lea County, New Mexico
CROSS SECTION INDEX MAP
 11/92



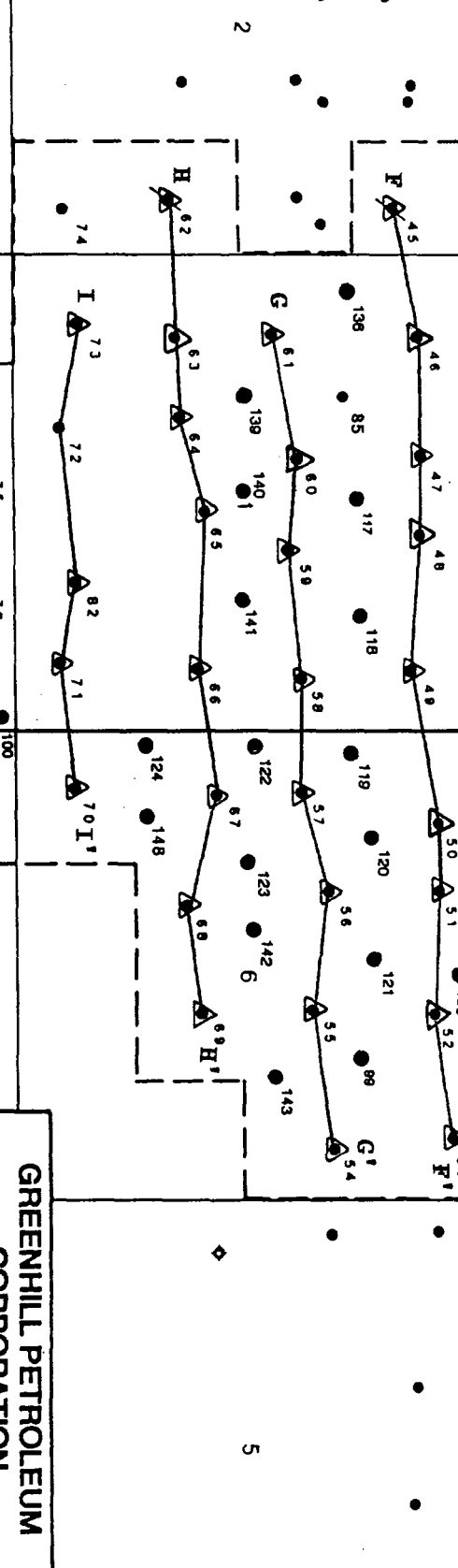
26



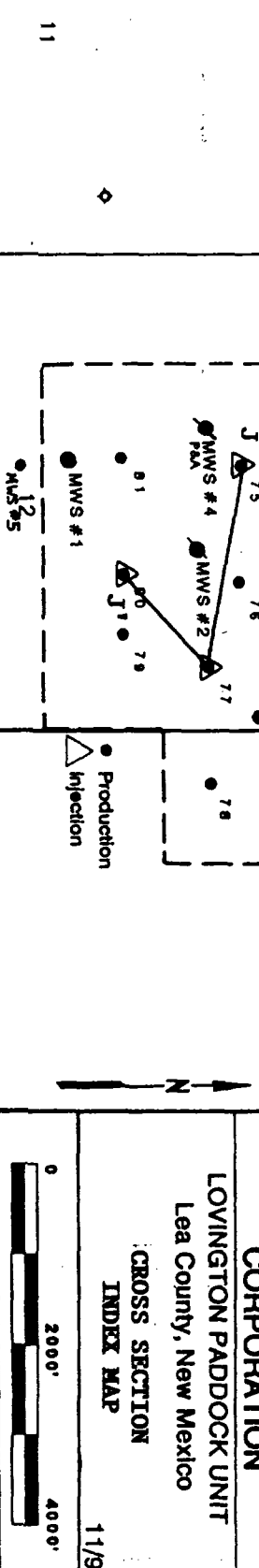
35



2



11



● Production
 ▲ Injection

GREENHILL PETROLEUM CORPORATION
LOVINGTON PADDOCK UNIT
 Lea County, New Mexico

GROSS SECTION
 INDEX MAP

11/92

STATUS OF LOVINGTON SAN ANDRES INJECTORS
 JANUARY 1993

Well	3 Month Average (Aug, Sep, & Oct) Rate BWPD	Injection Pressure PSI	Date of Last Profile	Profile Indicates All Water Going In Zone	Comments
LSAU#1	69	1700	6/91	Yes	
LSAU#3	128	1500	12/92	Yes	
LSAU#4	170	1400	12/91	Yes	
LSAU#5	0	1600			No profile – rate too low for profile
LSAU#6	36	1650	6/91	Yes	
LSAU#7	382	950	12/91	Yes	
LSAU#8	86	1050	12/92	Yes	
LSAU#9	50	1400			No profile – rate too low for profile
LSAU#10	55	1550	6/91	Yes	
LSAU#11	91	1350			No profile – rate too low for profile
LSAU#12	212	1550			Ran profile – w.o. data
LSAU#13	73	1400	5/91	Yes	
LSAU#14	377	900	5/91	Yes	
LSAU#15	287	1300	12/92	Yes	
LSAU#16	302	100	6/91	Yes	
LSAU#17	441	300	12/91	Yes	
LSAU#18	54	1300	12/91	Yes	
LSAU#20	317	250			No profile – planned 1st Qtr 1993
LSAU#21	427	800	6/92	Yes	
LSAU#23	206	1200			No profile – planned 1st Qtr 1993
LSAU#24	314	1500	6/92	Yes	
LSAU#25	554	1300	12/91	Yes	
LSAU#26	314	1500	6/92	Yes	
LSAU#28	44	1700	6/92	Yes	
LSAU#29	526	100	6/92	Yes	
LSAU#30	283	600	6/92	Yes	
LSAU#31	234	1600	12/91	Yes	
LSAU#32	386	1550	6/91	Yes	
LSAU#33	594	800	12/92	Yes	
LSAU#34	419	900	7/74	Yes	
LSAU#35	476	1100	12/91	Yes	
LSAU#36	381	1400	6/91	Yes	
LSAU#37	273	500	12/91	Yes	
LSAU#38	317	550			Ran profile – w.o. data
LSAU#39	7	1400			No profile – rate too low for profile
LSAU#40	305	1300	6/91	Yes	
LSAU#41	407	1700	6/92	Yes	
LSAU#43	481	200	12/91	Yes	
LSAU#45	91	1200	12/91	Yes	
LSAU#46			7/74	Yes	P&A'd 5/87
LSAU#47	440	700	6/91	Yes	
LSAU#48	403	1300	6/91	Yes	
LSAU#49	358	1450	6/91	Yes	
LSAU#50	148	1600	6/91	Yes	
LSAU#54	142	1550	6/91	Yes	
LSAU#57	445	1400	12/91	Yes	
LSAU#58	40	1300	12/91	Yes	
LSAU#59	67	1550	6/91	Yes	

STATUS OF LOVINGTON PADDOCK UNIT INJECTORS
 JANUARY 1993

Well	3 Month Average Rate BWPD (Aug, Sep, & Oct)	Injection Pressure PSI	Date of Last Profile	Profile Indicates All Water Going In Zone	Comments
LPU#2	100	1600			
LPU#4	39	1300	6/80		Recently Converted
LPU#5	36	1300	12/91	Yes	
LPU#6	88	1000	6/80	Yes	
LPU#7	216	1333	1/92	Yes	
LPU#8	65	1267	1/92	Yes	
LPU#9	0	0			
LPU#10	0	0			Recently Converted
LPU#11	174	1260	6/91		Recently Converted
LPU#12	127	1390	6/91	Yes	Profile Planned 1st Qtr 93
LPU#13	130	1300	6/91	Yes	Profile Planned 1st Qtr 93
LPU#14	102	930	6/91	Yes	Profile Planned 1st Qtr 93
LPU#15	263	920	4/74	Yes	Profile Planned 1st Qtr 93
LPU#16	160	900		Yes	Profile Planned 1st Qtr 93
LPU#17	42	1300	4/74		Profile Planned 1st Qtr 93
LPU#18	87	1400	12/91	Yes	
LPU#19	330	1000	7/91	Yes	
LPU#20	220	940	6/91	Yes	Profile Planned 1st Qtr 93
LPU#21	420	830	6/91	Yes	Profile Planned 1st Qtr 93
LPU#22	165	1450	6/91	Yes	Profile Planned 1st Qtr 93
LPU#23	325	1220	6/91	Yes	Profile Planned 1st Qtr 93
LPU#24	140	1350	6/91	Yes	Profile Planned 1st Qtr 93
LPU#25	100	1300		Yes	Profile Planned 1st Qtr 93
LPU#26	165	950			Profile Planned 1st Qtr 93
LPU#27	380	1500	6/91		Profile Planned 1st Qtr 93
LPU#28	530	1410	6/91	Yes	Profile Planned 1st Qtr 93
LPU#29	400	880	7/91	Yes	Profile Planned 1st Qtr 93
LPU#30	40	740	4/74	Yes	Profile Planned 1st Qtr 93
LPU#31	130	990	6/91	Yes	Profile Planned 1st Qtr 93
LPU#33	490	1115	4/74	Yes	Profile Planned 1st Qtr 93
LPU#34	390	1070			Profile Planned 1st Qtr 93
LPU#35	0	0			Profile Planned 1st Qtr 93
LPU#36	420	1600	4/74		Profile Planned 1st Qtr 93
LPU#37	50	1650	12/91	Sm Channel Up	Profile Planned 1st Qtr 93
LPU#38	260	1350	6/91	Yes	Profile Planned 1st Qtr 93
LPU#39	240	1500	6/91	Yes	Profile Planned 1st Qtr 93
LPU#40	350	1350	7/91	Yes	Profile Planned 1st Qtr 93
LPU#41	140	900			Profile Planned 1st Qtr 93
LPU#42	180	1000			Profile Planned 1st Qtr 93
LPU#43	0	0			Profile Planned 1st Qtr 93
LPU#44	0	0			Profile Planned 1st Qtr 93
LPU#45	150	1700	4/74	Yes	Shut In
LPU#46	75	1750	3/72	Yes	
LPU#47	170	1750	7/91	Yes	
LPU#48	120	1750	6/91	Yes	
LPU#49	180	1800	6/91	Yes	Profile Planned 1st Qtr 93
LPU#50	125	1725	4/74	Yes	Profile Planned 1st Qtr 93
LPU#51	160	1725	6/91	Yes	Profile Planned 1st Qtr 93
LPU#52	200	1725	4/74	Yes	Profile Planned 1st Qtr 93
LPU#53	340	850			Profile Planned 1st Qtr 93
LPU#54	140	1500			Profile Planned 1st Qtr 93
LPU#55	125	1200			Profile Planned 1st Qtr 93
LPU#56	200	890			Profile Planned 1st Qtr 93
LPU#57	75	870	1/92	Yes	Profile Planned 1st Qtr 93
LPU#58	85	900	1/92	Yes	
LPU#59	170	950	12/91	Yes	
LPU#60	175	1060	4/74	Yes	Profile Planned 1st Qtr 93
LPU#61	80	1775	7/91	Yes	Profile Planned 1st Qtr 93
LPU#63	120	1775	6/91	Yes	Profile Planned 1st Qtr 93
LPU#64	90	1175			Profile Planned 1st Qtr 93
LPU#65	0	1800			Profile Planned 1st Qtr 93
LPU#66	150	0			Recently Converted
LPU#67	75	900	4/74	Yes	Profile Planned 1st Qtr 93
LPU#68	35	825			Profile Planned 1st Qtr 93
LPU#69	0	900	1/92	Yes	Profile Planned 1st Qtr 93
LPU#70	230	0			Profile Planned 1st Qtr 93
LPU#71	80	900	1/92	Yes	
LPU#73	90	880	1/92	Yes	
LPU#75	55	1800			Profile Planned 1st Qtr 93
LPU#77	10	900	4/74	Yes	
LPU#80	50	850	6/80	Yes	
LPU#82	0	850	4/80	Yes	
		0	4/80	Yes	Shut In

LOGGING PROCEDURE
STATE "P" # 5

1. MIRU WIRELINE UNIT
2. RU 3000 # LUBRICATOR
3. PU TEMP/RA/GR COMBO TOOL AND TIH RUNNING BASE LOGS
4. WITH TOOL AT TD ESTABLISH FLOW RATE THRU SURFACE CHOKE
5. LOG WHILE FLOWING TO ESTABLISH FLUID ENTRY

NOTE: FLOW CAPACITY MAY BE LIMITED. IF WELL DIES RU SWAB UNIT TO SWAB WELL DOWN THEN LOG FLUID ENTRY.

6. RD WIRELINE AND RU 7 DAY PRESSURE RECORDER.
7. RECORD PRESSURE UNTIL WELL STABILIZES



STATE OF NEW MEXICO
 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
 OIL CONSERVATION DIVISION



May 12, 1992

BRUCE KING
 GOVERNOR

ANITA LOCKWOOD
 CABINET SECRETARY

POST OFFICE BOX 2088
 STATE LAND OFFICE BUILDING
 SANTA FE, NEW MEXICO 87504
 (505) 827-5800

Case 10154

Greenhill Petroleum Company
 11490 Westheimer Road, Suite 200
 Houston, Texas 77077-6841

*RE: Injection Pressure Increase
 Loving San Andres Unit
 Waterflood Project
 Lea County, New Mexico*

Dear Sir:

Reference is made to your request dated April 21, 1992, to increase the surface injection pressure on nine wells in the Lovington San Andres Unit Waterflood Project. This request is based on step rate tests conducted on these wells between March 12 and April 4, 1992. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

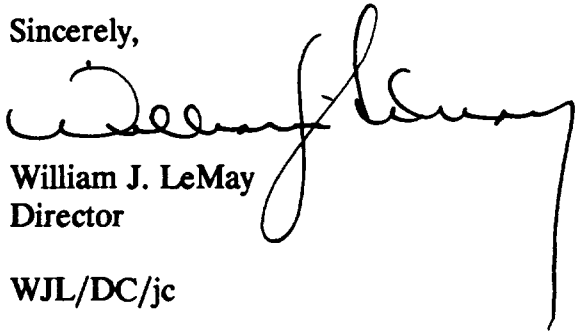
You are therefore authorized to increase the surface injection pressure on the following wells:

WELL AND LOCATION	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
LSAU No. 9 "H" 1980' FNL & 660' FEL 36-16S-36E	1730 PSIG
LSAU No. 17 "T" 1980' FSL & 990' FEL 31-16S-37E	1990 PSIG
LSAU No. 24 "P" 660' FSL & 660' FEL 36-16S-36E	2039 PSIG
LSAU No. 26 "N" 660' FSL & 1980' FWL 36-16S-36E	1600 PSIG

<u>WELL AND LOCATION</u>	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
LSAU No. 35 "C" 339' FNL & 1980' FWL 6-17S-37E	2141 PSIG
LSAU No. 37 "A" 330' FNL & 990' FEL 6-17S-37E	2166 PSIG
LSAU No. 41 "G" 1980' FNL & 1980' FEL 1-17S-36E	2072 PSIG
LSAU No. 43 "E" 1980' FNL & 660' FWL 1-17S-36E	1450 PSIG
LSAU No. 57 "M" 660' FSL & 660' FWL 36-16S-36E	2276 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,


William J. LeMay
Director

WJL/DC/jc

cc: Oil Conservation Division - Hobbs
File: R-9431
WFX-615

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
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May 8, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Amerada Hess Corporation
P. O. Drawer D
Monument, New Mexico 88265

*FILE-10/154
DUE*

Re: State LA #10-H, Section 1, T17S, R36E
Greenhill Petroleum, Lovington SA Unit Expansion

Gentlemen:

We have received and reviewed the temperature survey log which you conducted on the above referenced well.

The information indicates that cement coverage is sufficient to meet the requirements of Division Order R-9431, with the top at approximately 3750 feet.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton

Jerry Sexton
Supervisor, District I

JS:bp

cc: Michael Newport, Greenhill Petroleum
David Catanach
File





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

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BRUCE KING
GOVERNOR

April 30, 1992

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

*CASE FILE
10154
DC*

Amerada Hess Corporation
P. O. Drawer D
Monument, New Mexico 88265

Re: State LA #9-B, Sec 1, T17S, R36E

Gentlemen:

We have received the cement bond log on the above referenced well.

The log confirms that cement coverage is sufficient to meet the requirements of Division Order R-9431, which permitted the expansion of the Greenhill Petroleum Corporation, Lovington San Andres Unit.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

JS:bp

cc: Michael Newport, Greenhill Pet.
David R. Catanach
File



OIL CONSERVATION DIVISION
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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT 41

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

April 8, 1992

Case File 1054

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

BRUCE KING
GOVERNOR

Greenhill Petroleum Corporation
11490 Westheimer, Suite 200
Houston, Texas 77077

Re: Lovington Paddock Unit #67-K, Sec 6, T17S, R37E
R-9431, Extension of Lovington San Andres Unit

Gentlemen:

The cement bond log submitted on the above referenced well has been evaluated and determined that cement coverage (top at approximately 4,010 feet) is sufficient to meet the requirements of Division Order R-9431.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

JS:bp

cc: David Catanach
Cy Jones
File



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800



BRUCE KING
GOVERNOR

March 23, 1992

Greenhill Petroleum Corporation
11490 Westheimer Road, Suite 200
Houston, Texas 77077-6841

Attention: Michael J. Newport

*RE: Injection Pressure Increase
Lovington San Andres Unit
Waterflood Project
Lea County, New Mexico*

Dear Mr. Newport:

Reference is made to your request dated February 13, 1992, to increase the surface injection pressure on seven wells within the Lovington San Andres Unit Waterflood Project. This request is based on step rate tests conducted on these wells October 7-10, 1991. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

<u>WELL AND LOCATION</u>	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
LSAU Well No. 5 Unit A, Section 36, T-16S, R-36E, NMPM;	1880 PSIG
LSAU Well No. 7 Unit G, Section 31, T-16S, R-37E, NMPM;	1823 PSIG
LSAU Well No. 12 Unit K, Section 36, T-16S, R-36E, NMPM;	1830 PSIG
LSAU Well No. 25 Unit O, Section 36, T-16S, R-36E, NMPM;	1820 PSIG

Greenhill Petroleum Corporation
March 23, 1992
Page 2

LSAU Well No. 31 1820 PSIG
Unit C, Section 1, T-17S, R-36E, NMPM;

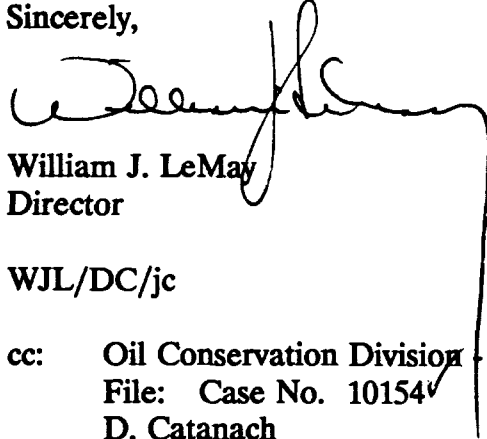
LSAU Well No. 45 1820 PSIG
Unit G, Section 2, T-17S, R-36E, NMPM;

LSAU Well No. 58 1750 PSIG
Unit E, Section 31, T-16S, R-37E, NMPM

All in Lea County, New Mexico

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



William J. LeMay
Director

WJL/DC/jc

cc: Oil Conservation Division Hobbs
File: Case No. 10154
D. Catanach
R. Brown

NO WAITING PERIOD

COMPANY: Greenhill Petroleum Corporation
ADDRESS: 11490 Westheimer Road Suite 200
CITY, STATE, ZIP: Houston, Texas 77077-6841
ATTENTION: Michael J. Newport

Re: Injection Pressure Increase
Lawington San Andres Unit
Waterflood Project
Lea County, New Mexico

Dear Sir:

Reference is made to your request dated February 13, 1992, to increase the surface injection pressure on seven wells within the Lawington San Andres Unit Waterflood Project. This request is based on step rate tests conducted on these wells October 7-10, 1991. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

<u>Well & Location</u>	<u>Maximum Injection Surface Pressure</u>
<u>LSAU Well No. 5</u> <u>Unit A, Section 36, T-16S, R-36E, NMAP;</u>	<u>1880 PSIG</u>
<u>LSAU Well No. 7</u> <u>Unit G, Section 31, T-16S, R-37E, NMAP;</u>	<u>1823 PSIG</u>
<u>LSAU Well No. 12</u> <u>Unit K, Section 36, T-16S, R-36E, NMAP;</u>	<u>1830 PSIG</u>
<u>LSAU Well No. 25</u> <u>Unit O, Section 36, T-16S, R-36E, NMAP;</u>	<u>1820 PSIG</u>
<u>LSAU Well No. 31</u> <u>Unit C, Section 1, T-17S, R-36E, NMAP</u>	<u>1820 PSIG</u>
<u>LSAU Well No. 45</u> <u>Unit G, Section 2, T-17S, R-36E, NMAP;</u>	<u>1820 PSIG</u>
<u>LSAU Well No. 58</u> <u>Unit E, Section 31, T-16S, R-37E, NMAP</u>	<u>1750 PSIG</u>

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

xc: T. GALLEGOS D. CATANACH FILE-Case No. 10154 OCD-H666
R. Brown



GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION
RECEIVED

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

Incorporated in Delaware, U.S.A.

100 FEB 13 1992 PM 1 07

609
615
605
598

February 13, 1992

State of New Mexico
Oil Conservation Division
Energy, Minerals and Natural Resources Dept.
310 Old Santa Fe Trail
Santa Fe, NM 87501

Attention: Mr. David Catanach

Re: Lovington San Andres
Well Numbers 5, 7, 12, 25, 31, 45 and 58

Dear Mr. Catanach:

Enclosed please find the step rate test graphs and chart covering Well Numbers 5, 7, 12, 25, 31, 45 and 58 in the Lovington San Andres Unit.

Please contact me in the event you need additional information.

Sincerely,

Michael J. Newport
Land Manager - Permian Basin

MJN:KLD

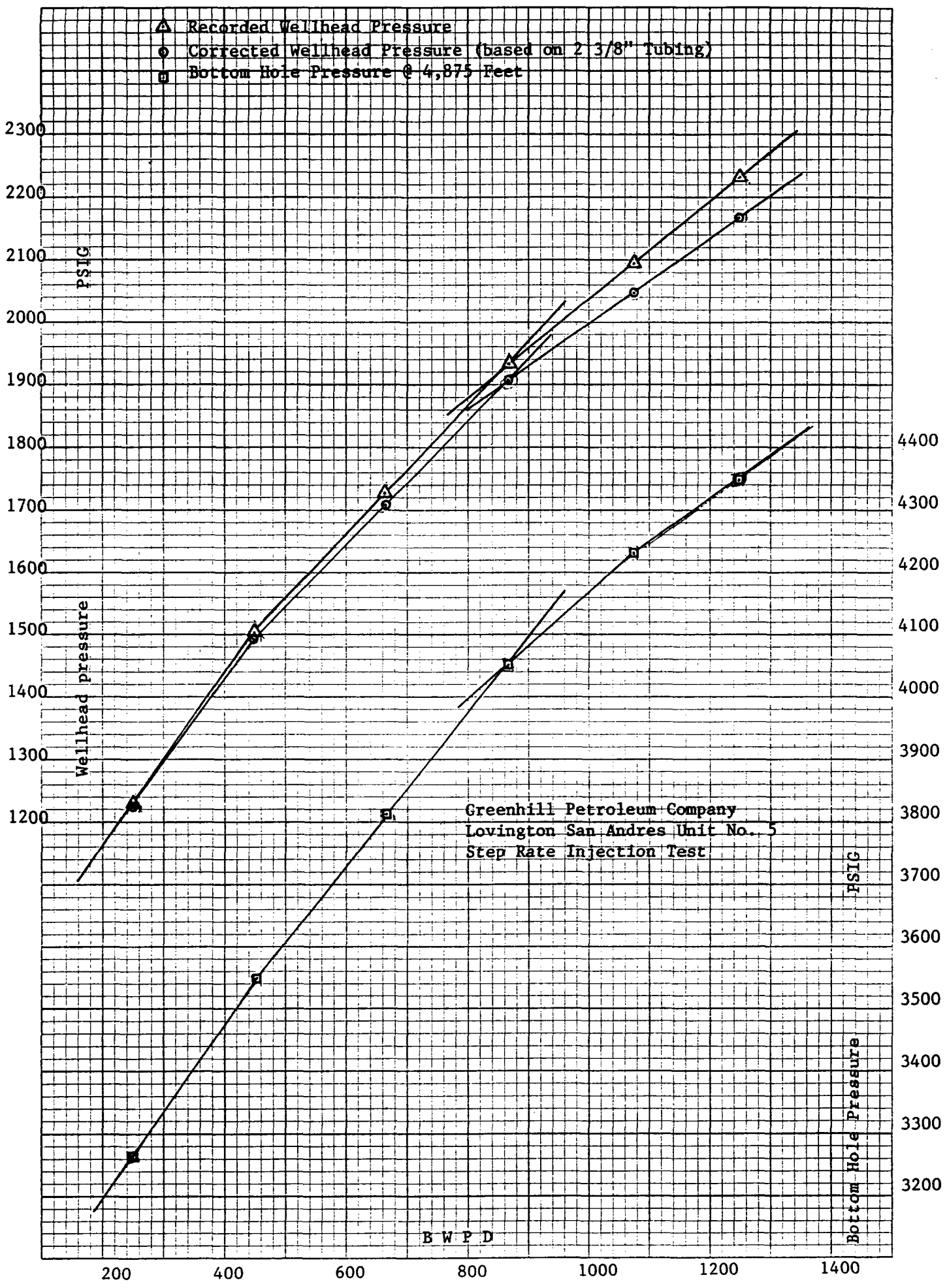
Enclosures

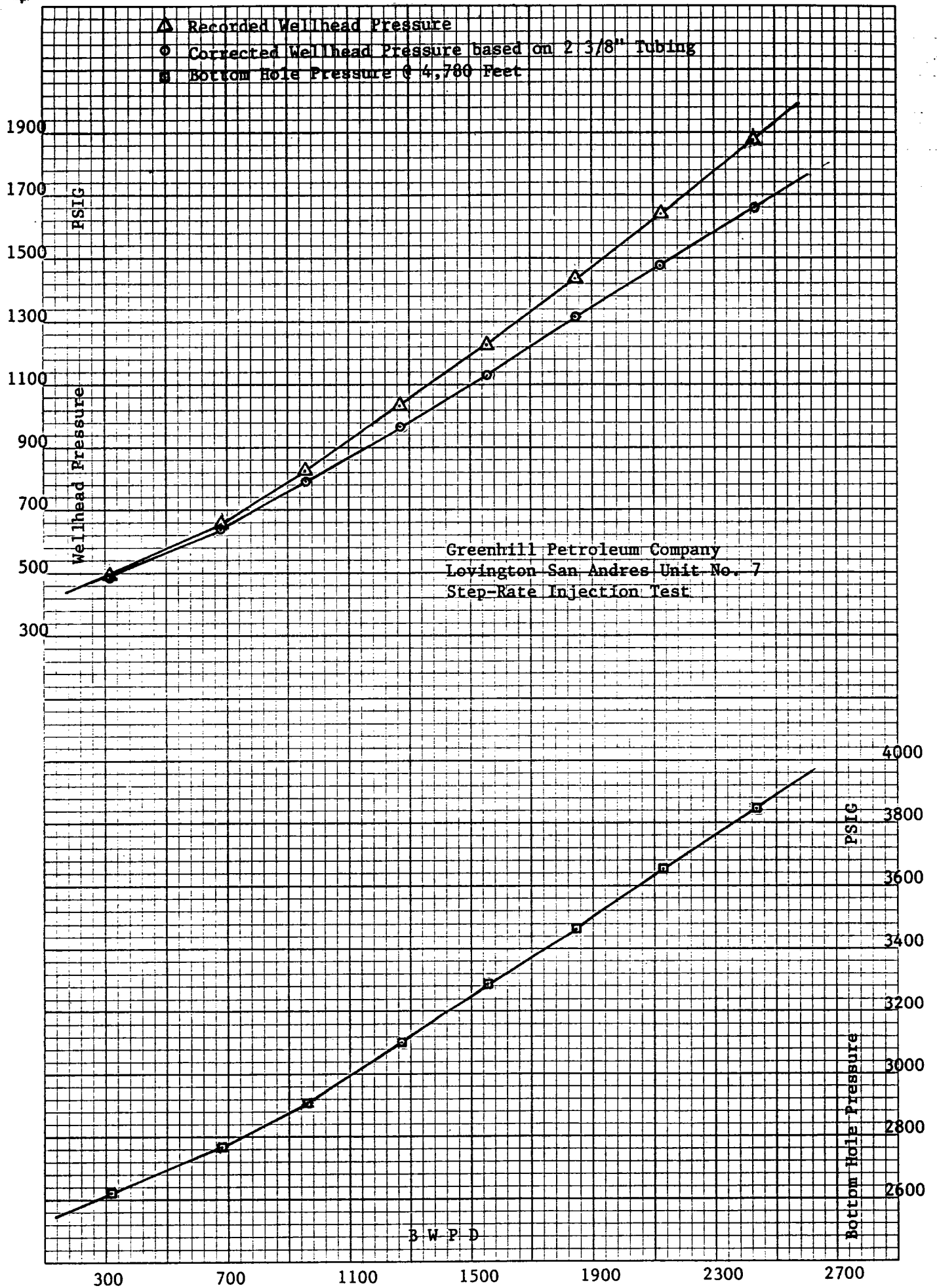
Greenhill Petroleum Corporation

**Lovington San Andres Unit
Steprate Test Results**

Well Identification	LSAU 5	LSAU 7*	LSAU 12	LSAU 25*	LSAU 31*	LSAU 45*	LSAU 58
Surface Parting Pressure Psig	<i>1880</i> 1930	<i>1823</i> 1873	<i>1830</i> 1880	<i>1820</i> 2251	<i>1820</i> 2232	<i>1820</i> 2205	<i>1750</i> 1800
Hydrostatic Pressure Psig	2100	1968	2115	1943	2041	2124	2085
Bottom Hole Pressure Psig	4030	3841	3995	4194	4273	4329	3885
Midperf Depth Ft.	4875	4780	4812	4805	4812	4862	4780
Fracture Gradient Psi/Ft	0.827	0.804	0.830	0.873	0.888	0.890	0.813
Requested Injection Pressure Psig	1930	1873	1880	2251	2232	2205	1800

*** WELLS NEVER REACHED PARTING PRESSURES**





JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name Lovington San Andres Unit No. 7

Date 10-07-91

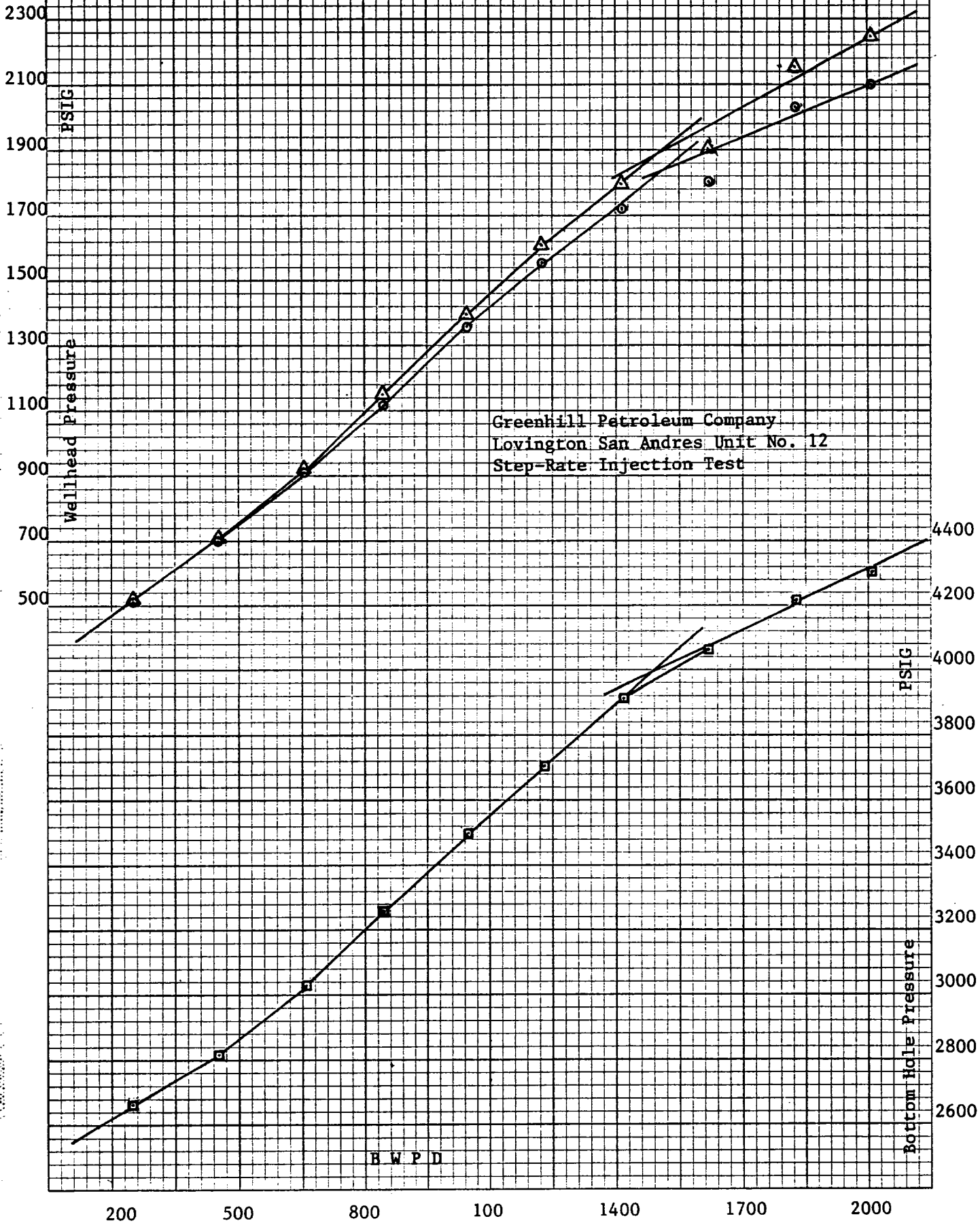
CO. Name Greenhill Petroleum Company

4570-4990 Set @ 4780 Pkr @ 4500

Page 1

Remarks	Time	Tbg. Press.	Rate B PD	Total	B H P	Tbg. Press.	Rate GPM	HEAD LOSS
	9:50	380		0	2506			
	9:55	462.60	316.80	1.1	2592			
	10:00	494.30	316.80	2.2	2613			
1	10:05	497.80	316.80	3.3	2623	492.8	9.24	4.917
			316.80					
	10:10	615.20	691.20	5.7	2712			
	10:15	644.40	691.20	8.1	2743			
2	10:20	658.30	622.40	10.4	2763	638.0	19.88	20.294
			681.59					
	10:25	768.10	950.40	13.7	2854			
	10:30	801.30	950.40	17.0	2889			
3	10:35	821.70	979.40	20.4	2915	783.5	28.00	38.236
			959.99					
	10:40	959.50	1267.20	24.8	3019			
	10:45	1002.80	1267.20	29.2	3067			
4	10:50	1030.70	1267.20	33.6	3101	966.8	36.96	63.905
			1267.20					
	10:55	1156.00	1555.20	39.0	3204			
	11:00	1193.00	1555.20	44.4	3245			
5	11:05	1227.40	1555.20	49.8	3281	1134.1	45.36	93.342
			1555.20					
	11:10	1367.00	1843.20	56.2	3388			
	11:15	1409.00	1872.00	62.7	3433			
6	11:20	1437.00	1843.20	69.1	3471	1308.0	54.04	129.049
			1852.80					
	11:25	1575.20	2131.20	76.5	3569			
	11:30	1607.20	2131.20	83.9	3613			
7	11:35	1645.50	2131.20	91.3	3649	1478.3	62.16	167.197
			2131.20					
	11:40	1800.20	2419.20	99.70	3756			
	11:45	1842.30	2419.20	108.10	3804			
8	11:50	1873.10	2448.00	116.60	3841	1660.2	70.84	212.935
			2428.80					
Fail-Off	11:55	1103.50			3304			
	12:00	981.80			3172			
	12:05	911.40			3096			

- △ Recorded Wellhead Pressure
- Corrected Wellhead Pressure (Based on 2 3/8" Tubing)
- Bottom Hole Pressure @ 4,812 Feet



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

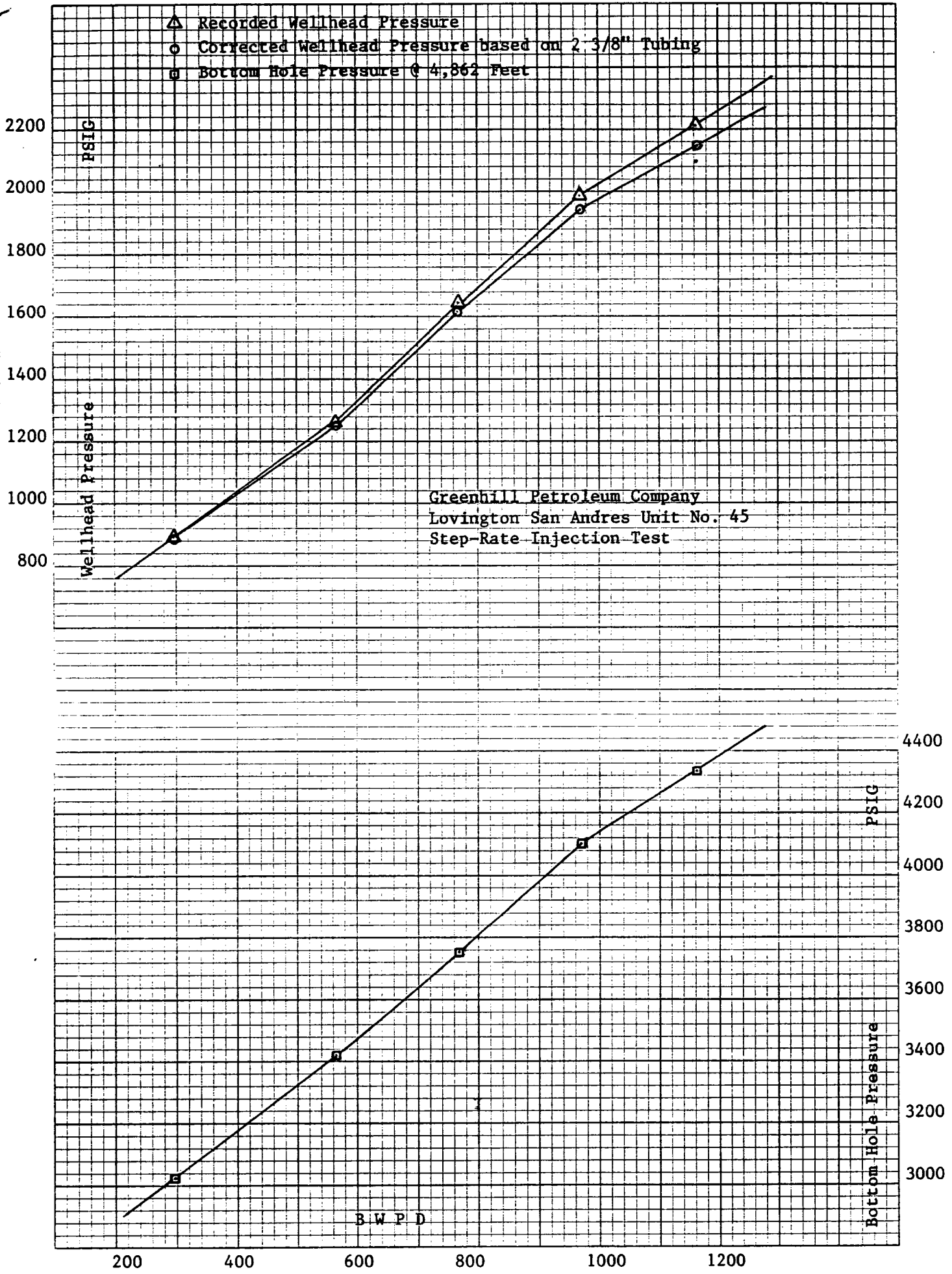
Well Name Lovington San Andres Unit No. 12

Date 10-08-91

CO. Name Greenhill Petroleum Company

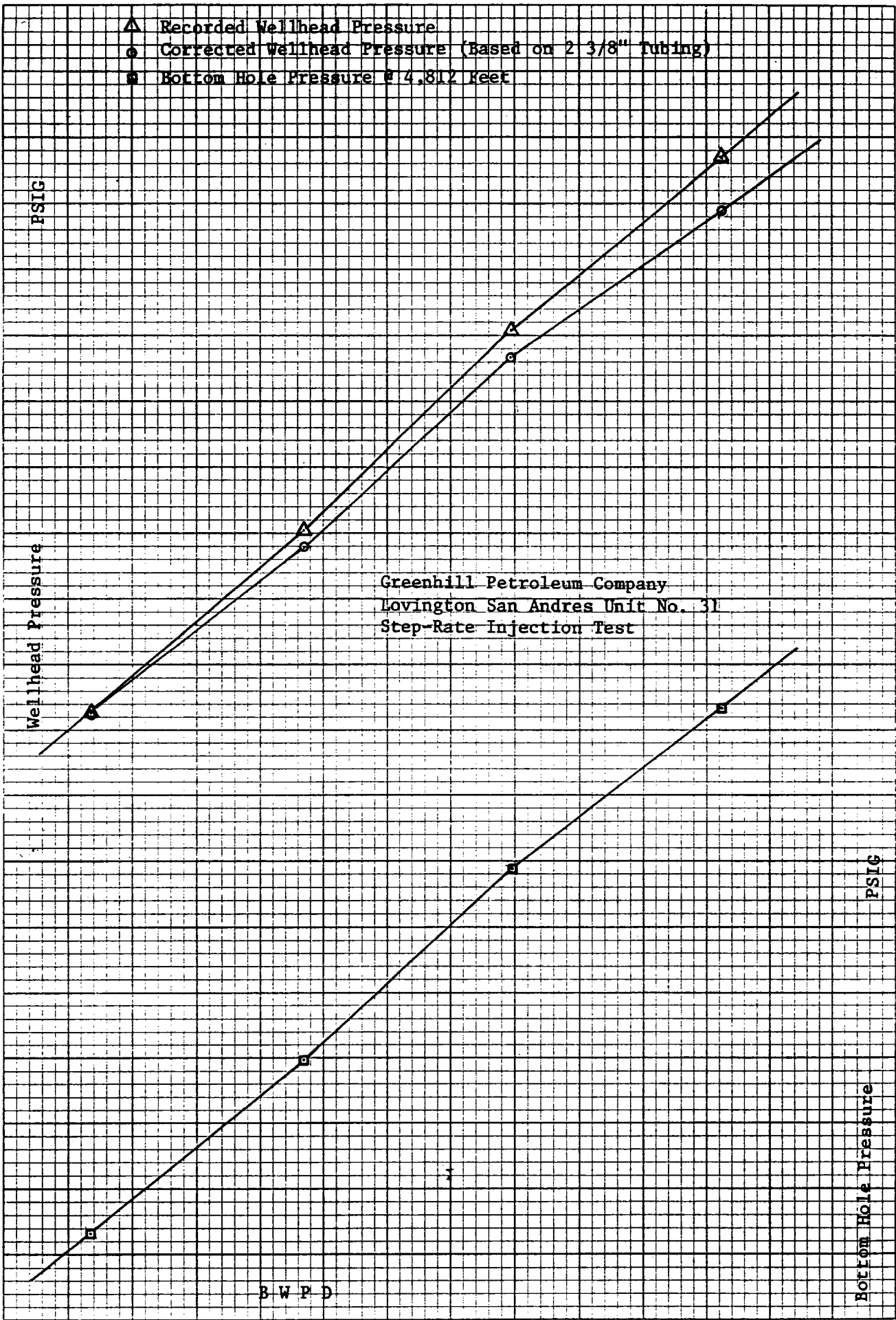
4570-5055 Set @ 4812 Feet Pkr. 4505

Remarks	Time	Tbg. Press.	Rate BPD	Total	BHP	Tbg. Press.	Rate GPM	HEAD LOSS
	11:55	349.0		0	2481			
	12:00	456.20	259.20	.9	2574			
	12:05	477.70	259.20	1.8	2613			
1	12:10	521.10	230.40	2.6	2634	517.9	7.28	3.185
			249.60					
	12:15	612.90	432.00	4.1	2722			
	12:20	647.10	460.80	5.7	2776			
2	12:25	707.20	460.80	7.3	2819	697.7	13.16	9.523
			451.20					
	12:30	832.40	633.60	9.5	2920			
	12:35	881.00	662.40	11.8	2983			
3	12:40	929.50	662.40	14.10	3031	910.64	19.04	18.859
			652.80					
	12:45	1029.10	864.00	17.0	3135			
	12:50	1095.70	835.20	19.9	3202			
4	12:55	1148.20	864.00	22.9	3260	1117.81	24.64	30.385
			844.80					
	1:00	1276.10	1036.80	26.5	3365			
	1:05	1341.30	1065.60	30.2	3434			
5	1:10	1389.90	1036.80	33.8	3491	1344.8	30.52	45.145
			1046.40					
	1:15	1507.60	1238.40	38.10	3588			
	1:20	1558.20	1209.60	42.30	3655			
6	1:25	1615.10	1238.40	46.60	3712	1554.3	35.84	60.773
			1228.80					
	1:30	1721.30	1411.20	51.50	3800			
	1:35	1764.80	1440.00	56.50	3860			
7	1:40	1801.90	1411.20	61.40	3909.00	1722.4	41.44	79.498
			1420.80					
	1:45	1913.30	1612.80	67.00	3982			
	1:50	1946.50	1612.80	72.60	4031			
8	1:55	1900.00	1612.80	78.20	4074	1799.5	47.04	100.507
			1612.80					
	2:00	2078.50	1843.20	84.60	4135			
	2:05	2107.90	1814.40	90.90	4179			
9	2:10	2150.30	1814.40	97.2	4213	2024.1	53.20	126.202
			1824.00					



- △ Recorded Wellhead Pressure
- Corrected Wellhead Pressure (Based on 2 3/8" Tubing)
- Bottom Hole Pressure @ 4,812 Feet

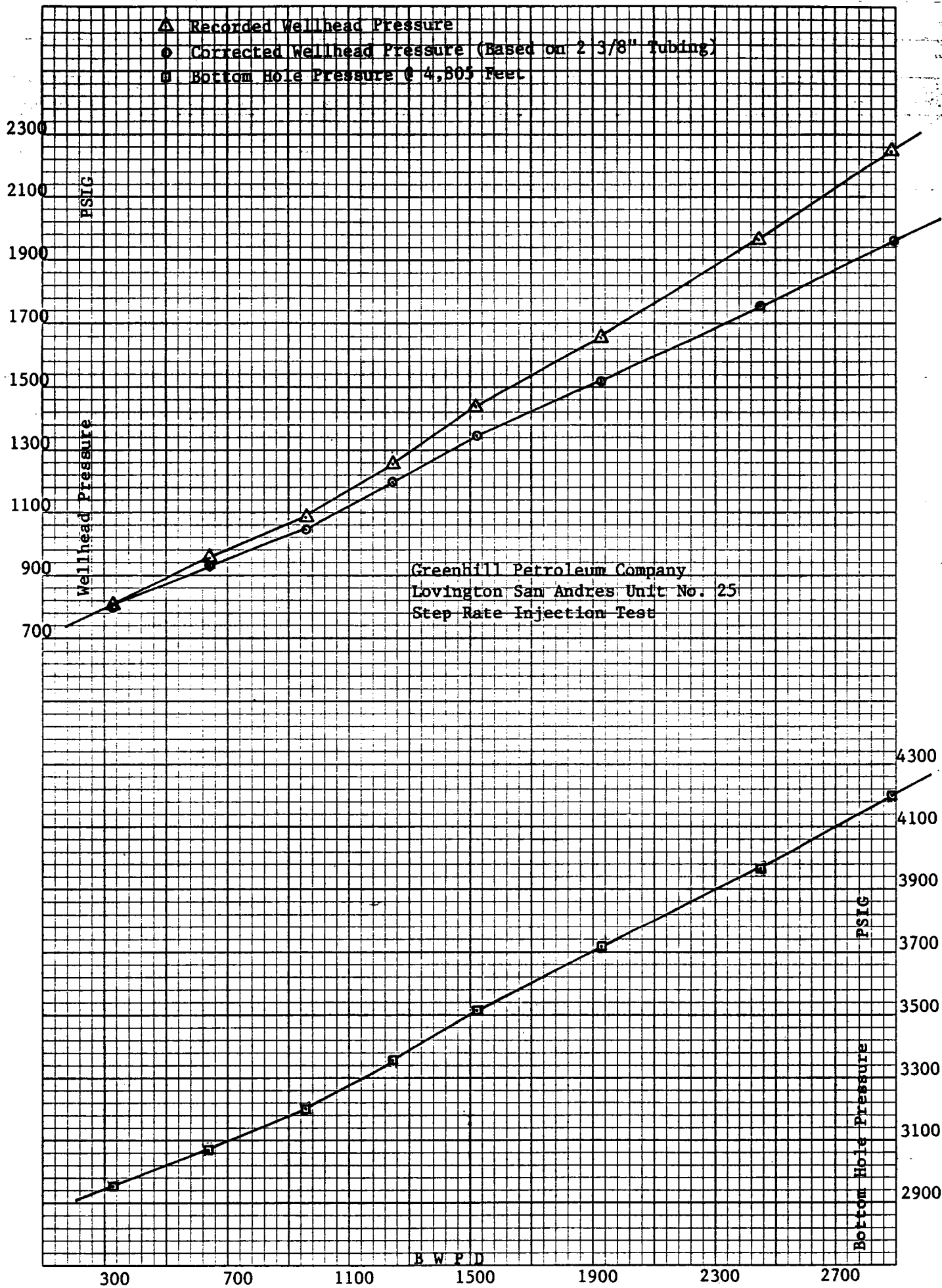
Wellhead Pressure PSIG



Bottom Hole Pressure PSIG

B W P D

500 800 1100 1400 1700 2000 2300



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name Lovington San Andres Unit No. 25

Date 10-09-91

CO. Name Greenhill Petroleum Company

4515-5094 Set @ 4805 Feet Pkr. 4440

Page 1

Remarks	Time	Tbg. Press.	Rate BPD	Total	B H P	Tbg. Press.	Rate GPM	HEAD LOSS
	9:30	733.80		0	2879			
	9:35	801.00	345.60	1.2	2936			
	9:40	812.10	316.80	2.3	2947			
1	9:45	807.90	345.60	3.5	2951	802.39	9.80	5.511
			335.99					
	9:50	905.90	633.60	5.7	3021			
	9:55	922.20	662.40	8.0	3046			
2	10:00	947.40	633.60	10.2	3062	929.1	18.76	18.322
			643.20					
	10:05	1025.10	950.40	13.5	3143			
	10:10	1063.30	979.20	16.9	3177			
3	10:15	1078.50	950.40	20.2	3202	1040.1	28.00	38.345
			959.99					
	10:20	1194.90	1238.40	24.5	3285			
	10:25	1228.40	1267.20	28.9	3325			
4	10:30	1256.30	1238.40	33.2	3353	1193.9	36.40	62.450
			1248.00					
	10:35	1359.90	1526.40	38.5	3435			
	10:40	1400.60	1526.40	43.8	3480			
5	10:45	1431.10	1526.40	49.1	3513	1340.5	44.52	90.641
			1526.40					
	10:50	1580.70	1929.60	55.8	3621.00			
	10:55	1631.60	1929.60	62.5	3675.00			
6	11:00	1657.10	1929.60	69.2	3716.00	1517.3	56.28	139.847
			1929.60					
	11:05	1877.10	2448.00	77.7	3852			
	11:10	1930.80	2476.80	86.3	3918			
7	11:15	1969.20	2448.00	94.8	3966	1750.4	71.68	218.768
			2457.60					
	11:20	2157.40	2880	104.8	4082			
	11:25	2209.70	2908.80	114.9	4146			
8	11:30	2251.00	2880.00	124.9	4194	1955.8	84.28	295.181
			2889.60					
Fall-Off	11:35	1460.4			3682.00			
	11:40	1290.10			3502.00			
	11:45	1187.60			3392.00			

JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name Lovington San Andres Unit No. 58

Date 10-08-91

CO. Name Greenhill Petroleum Company

4570-4990

Set @ 4780

Pkr 4523

Page 1

Remarks	Time	Tbg. Press.	Rate BPD	Total	BHP	Tbg. Press.	Rate GPM	HEAD LOSS
	8:00	625.70		0	2744			
	8:05	761.0	230.40	.8	2868			
	8:10	833.60	230.40	1.6	2937			
1	8:15	883.20	230.40	2.4	2985	880.5	6.72	2.728
			230.40					
	8:20	1026.10	460.80	4.0	3120			
	8:25	1107.80	432.00	5.5	3208			
2	8:30	1185.60	432.00	7.0	3275	1176.5	12.88	9.090
			441.60					
	8:35	1318.50	633.60	9.2	3415			
	8:40	1414.30	662.40	11.5	3505			
3	8:45	1480.60	633.60	13.7	3576	1462.4	18.76	18.227
			643.20					
	8:50	1608	864.00	16.7	3693			
	8:55	1674.70	864.00	19.7	3759			
4	9:00	1714.10	835.20	22.6	3806	1683.3	24.92	30.821
			854.40					
	9:05	1789.5	1065.60	26.3	3874.00			
	9:10	1822.6	1036.80	29.9	3910.00			
5	9:15	1840.30	1065.60	33.6	3937.00	1794.7	30.80	45.609
			1056.00					
	9:20	1906.80	1267.20	38.0	3981.00			
	9:25	1922.00	1238.40	42.3	4006.00			
6	9:30	1942.40	1267.20	46.7	4028.00	1879.4	36.68	63.013
			1257.60					
	9:35	1994.70	1468.80	51.8	4065.00			
	9:40	2011.20	1440.00	56.8	4088.00			
7	9:45	2022.60	1440.00	61.8	4104.00	1940.6	42.28	81.956
			1449.60					
	9:50	2075.00	1641.60	67.5	4139			
	9:55	2099.20	1641.60	73.2	4164			
8	10:00	2108.10	1641.60	78.9	4185	2044.9	47.88	103.161
			1641.60					
Fail-Off	10:05	1937.50			4128			
	10:10	1914.30			4101			
	10:15	1896.20			4077			



STATE OF NEW MEXICO
 OIL CONSERVATION DIVISION
ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION
 HOBBS DISTRICT OFFICE

MAR 10 8 26 AM '92

March 10, 1992

BRUCE KING
 GOVERNOR

POST OFFICE BOX 1980
 HOBBS, NEW MEXICO 88240
 (505) 393-6161

OIL CONSERVATION DIVISION
 P.O. BOX 2088
 SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit 5-A	36-16-36
Operator	Lease & Well No. Unit	S-T-R

and my recommendations are as follows:

OK

Very truly yours

Jerry Sexton
 Supervisor, District I

/bp



OIL CONSERVATION DIVISION
RECEIVED
MAR 10 1992

ENERGY AND MINERALS DEPARTMENT

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

March 10, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit	7-G	31-16-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



OIL CONSERVATION DIVISION

ENERGY AND MINERALS DEPARTMENT

**OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE**

March 10, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit	12-K	36-16-36
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



OIL CONSERVATION DIVISION
RECEIVED

ENERGY AND MINERALS DEPARTMENT

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

March 10, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit	45-G	2-17-36
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

? May have revealed Fracture?

Very truly yours

Jerry Sexton
Supervisor, District I

/bp

OIL CONSERVATION DIVISION
1992 MAR 17 8 26 AM



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

March 10, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit 58-E	31-16-37
Operator	Lease & Well No. Unit	S-T-R

and my recommendations are as follows:

TEST OK PRESSURE 50 PSI of F.P

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



RECEIVED
OIL CONSERVATION DIVISION

ENERGY AND MINERALS DEPARTMENT

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

March 10, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit 31-C	1-17-36
Operator	Lease & Well No. Unit	S-T-R

and my recommendations are as follows:

? may have reached F.P.

Very truly yours

Jerry Sexton
Jerry Sexton
Supervisor, District I

/bp



RECEIVED
OIL CONSERVATION DIVISION
AM 8 26

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

March 10, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Greenhill Petroleum Corp.	Lovington San Andres Unit	25-0	36-16-36
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

?

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



STATE OF NEW MEXICO
 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
 OIL CONSERVATION DIVISION



BRUCE KING
 GOVERNOR

November 18, 1991

POST OFFICE BOX 2088
 STATE LAND OFFICE BUILDING
 SANTA FE, NEW MEXICO 87504
 (505) 827-5800

Greenhill Petroleum Corporation
 11490 Westheimer, Suite 200
 Houston, Texas 77077

Attention: Michael J. Newport

*RE: Injection Pressure Increase
 Lovington San Andres Unit
 Lea County, New Mexico*

Dear Mr. Newport:

Reference is made to your request dated November 1, 1991, to increase the surface injection pressure on 6 wells within the Lovington San Andres Unit Waterflood Project. This request is based on step rate tests conducted on these wells during July, 1991. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells.

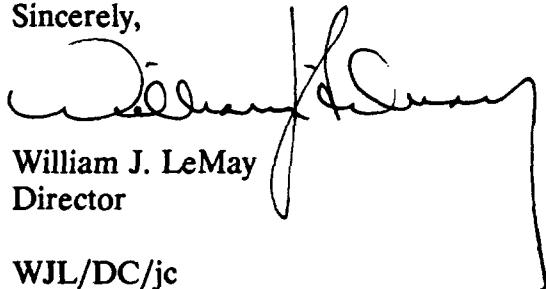
<u>WELL AND LOCATION</u>	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
LSAU No. 3 Unit B, 36-16S-36E	1825 PSIG
LSAU No. 10 Unit G, 36-16S-36E	1800 PSIG
LSAU No. 13 Unit I, 36-16S-36E	1325 PSIG
LSAU No. 15 Unit K, 31-16S-37E	1505 PSIG
LSAU No. 39 Unit E, 6-17S-37E	2250 PSIG
LSAU No. 40 Unit H, 1-17S-36E	1430 PSIG

All in Lea County, New Mexico

Greenhill Petroleum Corporation
November 18, 1991
Page 2

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



William J. LeMay
Director

WJL/DC/jc

cc: Oil Conservation Division - Hobbs
File: Case No. 10154 ✓
D. Catanach
R. Brown



GREENHILL PETROLEUM CORPORATION

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

Incorporated in Delaware, U.S.A.

FEDERAL EXPRESSED

*REC'D
11-4-91*

November 1, 1991

State of New Mexico
Oil Conservation Division
Energy, Minerals and Natural Resources Department
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Attention: Mr. David Catanach

Re: Lovington San Andres
Well Numbers 3, 10, 13, 15, 39, and 40
Lea County, New Mexico

Dear Mr. Catanach:

Enclosed find the step rate test graphs and charts covering Well Numbers 3, 10, 13, 15, 39 and 40.

Please contact me in the event you need additional information.

Very truly yours,

Michael J. Newport
Land Manager-Permian Basin

MJN:sjs
91.238

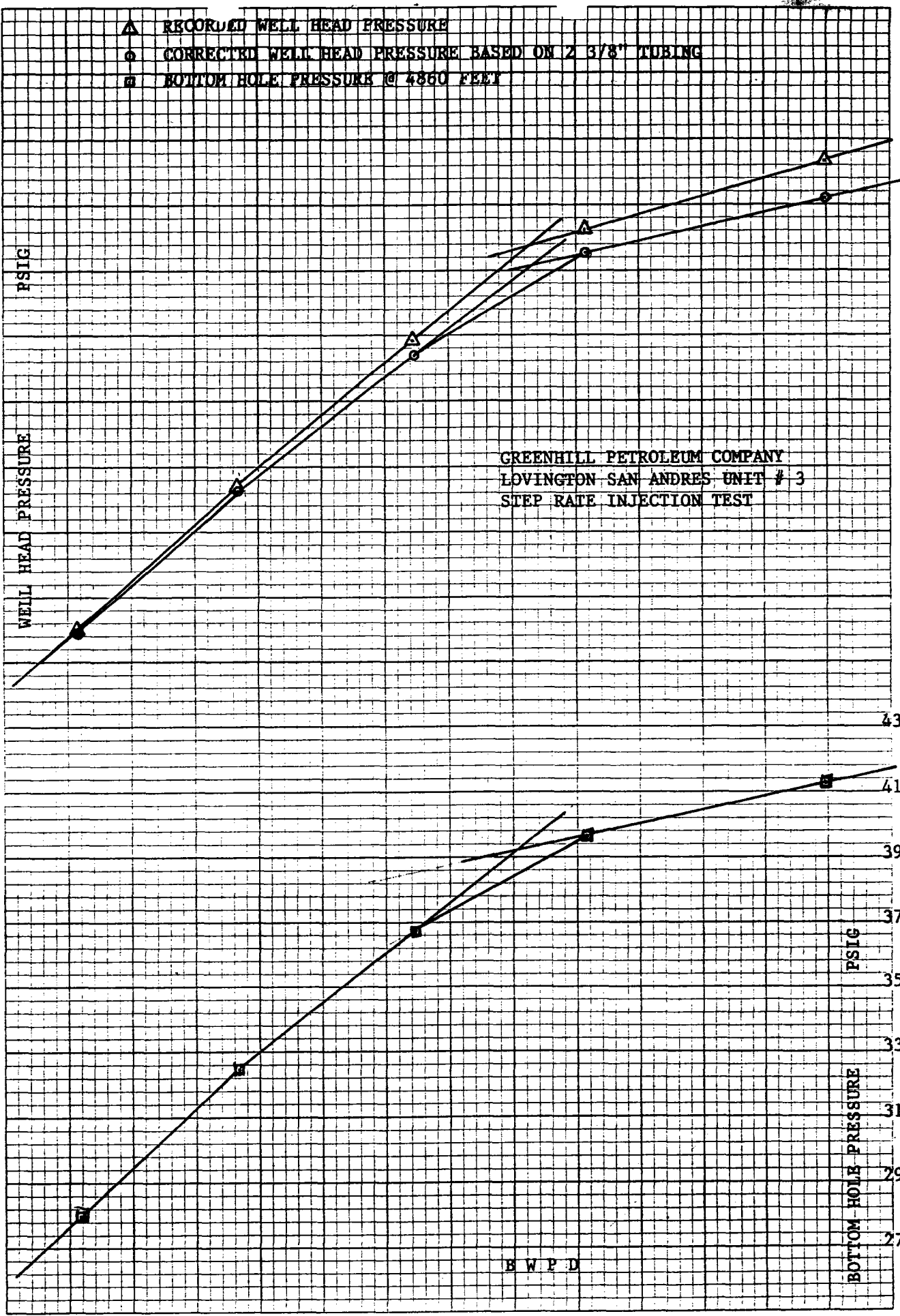
Enclosures

- △ RECORDED WELL HEAD PRESSURE
- CORRECTED WELL HEAD PRESSURE BASED ON 2 3/8" TUBING
- BOTTOM HOLE PRESSURE @ 4860 FEET

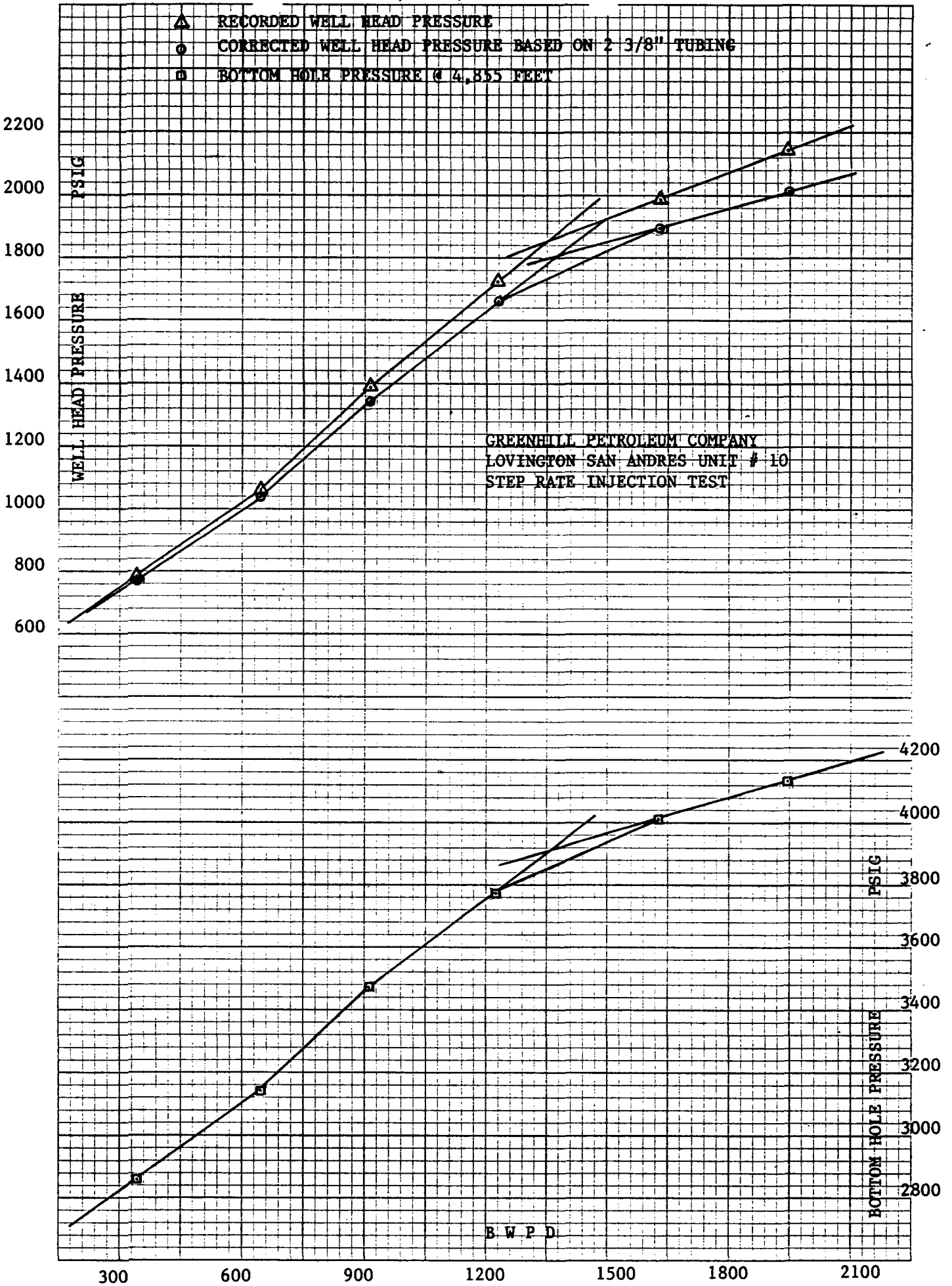
WELL HEAD PRESSURE
PSIG

GREENHILL PETROLEUM COMPANY
LOVINGTON SAN ANDRES UNIT # 3
STEP RATE INJECTION TEST

BOTTOM-HOLE PRESSURE
PSIG



500 700 900 1100 1300 1500 1700



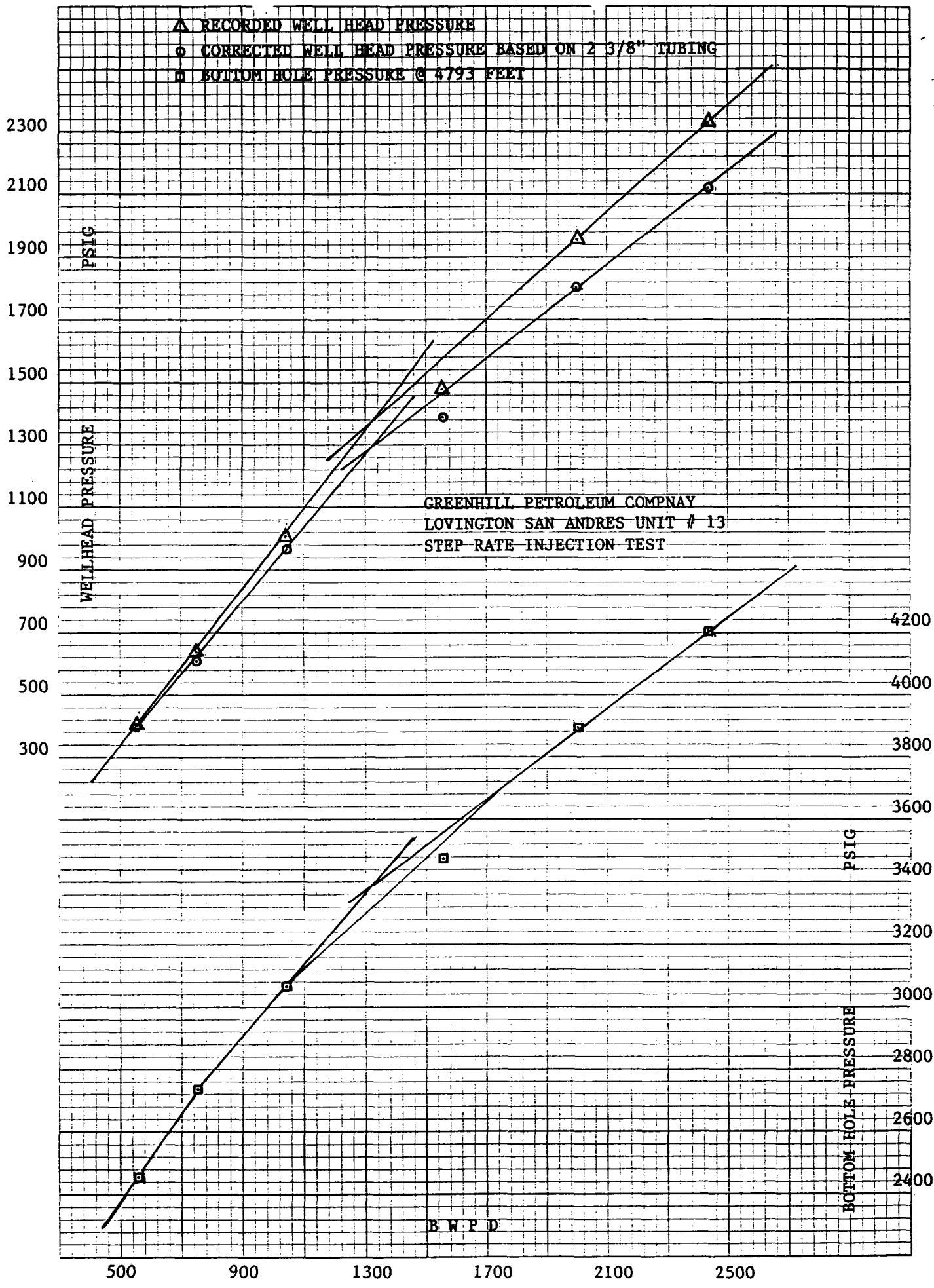
JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name LOVINGTON SAN ANDRES UNIT # 10
CO. Name GREENHILL PETROLEUM COMPANY

Date 7-17-91

PAGE 1

Remarks	Time	Tbg. Press.	Rate BPD	Total	BHP	Tbg. Press.	Rate GPM	HEAD LOSS
PERFS.	4600 and 510 FEET		PACKER	4560 FEET				
	SET @ 4855 FEET.							
	11:15	5260		0	2618			
	11:20	6485	345.60	1.2	2729			
	11:25	721.40	345.60	2.4	2801			
1	11:30	7804	345.60	3.6	2861	744.5	10.08	5.867
			345.60					
	11:35	911.00	633.60	5.8	2987			
	11:40	1011.00	662.40	8.1	3079			
2	11:45	1059	633.60	10.3	3153	1040.5	18.76	18.513
			643.20					
	11:50	1222	892.80	13.4	3288			
	11:55	1324.0	950.40	16.7	3391			
3	12:00	1394	892.80	19.8	3475	1358.7	26.60	35.320
			912.00					
	12:05	1557	1238.40	24.1	3604			
	12:10	1649	1238.40	28.4	3696			
4	12:15	1722	1209.60	32.6	3771	1660.7	35.84	61.316
			1228.80					
	12:20	1872	1670.40	38.4	3883			
	12:25	1936	1584.00	43.9	3952			
5	12:30	1991	1641.60	49.6	4005	1887.4	47.60	103.649
			1632.00					
	12:35	2092	1929.60	56.3	4066			
	12:40	2139	1987.20	63.2	4107			
6	12:45	2151	1929.60	69.9	4133	2007.1	56.84	143.914
			1948.80					
FALL-OFF								
	12:46	2002			4103			
	12:47	1961			4079			
	12:48	1941			4060			
	12:49	1924			4041			
	12:50	1907			4025			
5 MIN.	12:55	1846			3962			
5 MIN.	1:00	1801			3916			



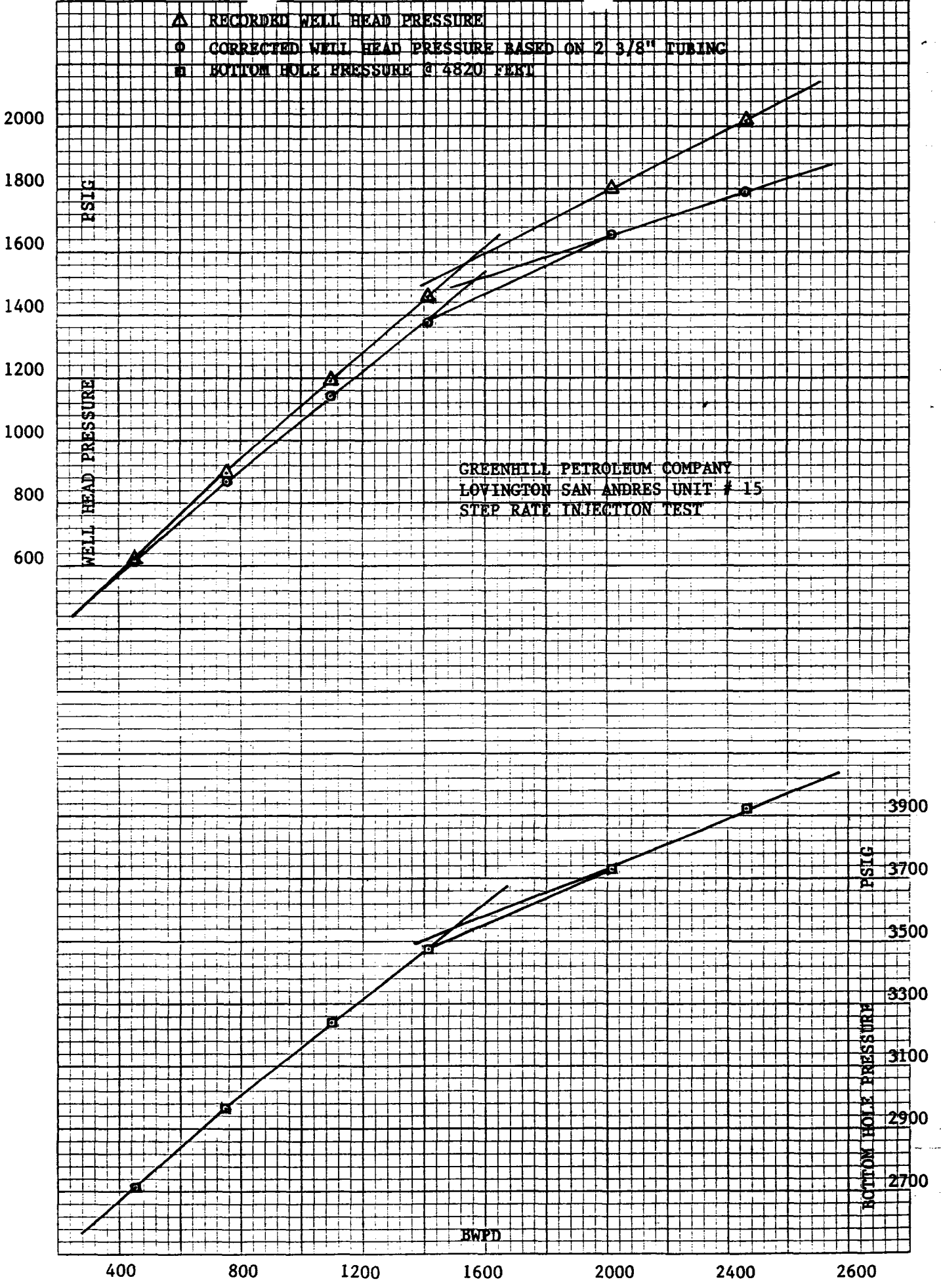
JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name LOVINGTON SAN ANDRES UNIT # 13

Date 7-22-91

CO. Name Greenhill Petroleum Company

Remarks	Time	Tbg. Press.	Rate B PD	Total	B H P	Tbg. Press.	Rate GPM	HEAD LOSS
Perfs. @ 4518 and 5068		Feet.	Pkr. 4493					
Set @ 4793 Feet								
	12:40			0				
	12:45	233	576.00	2.0	2292			
	12:50	326	576.00	4.0	2382			
1	12:55	406	518.40	5.8	2456	392.0	16.24	13.996
			556.80					
	1:00	516	748.80	8.4	2571			
	1:05	606	777.60	11.1	2661			
2	1:10	638	720.00	13.6	2737	613.79	21.84	24.212
			748.80					
	1:15	826	1065.60	17.3	2871			
	1:20	928.0	1036.80	20.9	2975			
3	1:25	1012	1036.80	24.5	3065	967.1	30.52	44.967
			1046.60					
	1:30	1238	1555.2	29.9	3238			
	1:35	1356.5	1526.40	35.2	3365			
4	1:40	1477.0	1584.00	40.7	3478	1383.4	45.36	93.596
			1555.20					
	1:45	1713	1987.20	47.60	3648			
	1:50	1851	2044.80	54.70	3788			
5	1:55	1957	1987.20	61.6	3897	1807.1	58.52	149.942
			2006.40					
	2:00	2173	2448.0	70.10	4038			
	2:05	2260	2448.00	78.6	4134			
6	2:10	2329	2419.00	87.0	4207	2113.9	71.12	215.078
			2438.40					
FALL OFF	2:11	2085			4163			
	2:12	2039			4136			
	2:13	2018			4112			
	2:14	1996			4090			
	2:15	1976			4070			
5 Min.	2:20	1888			3980			
5 Min.	2:25	1814			3890			



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name LOVINGTON SAN ANDRES UNIT # 15

Date 7-18-91

CO. Name GREENHILL PETROLEUM COMPANY

Remarks	Time	Tbg. Press.	Rate BPD	Total	BHP	Tbg. Press.	Rate GPM	HEAD LOSS
PERFS. 4531 and 5110 PKR 4440								
SET @ 4820								
	7:50	301		0	2399			
	7:55	478	432.00	1.5	2571			
	8:00	568.6	460.8	3.1	2658			
1	8:05	622.10	460.80	4.7	2709	612.6	13.16	9.538
			451.20					
	8:10	768.80	777.60	7.4	2842			
	8:15	835.10	720.00	9.9	2912			
2	8:20	890.00	777.60	12.6	2966	865.0	22.12	24.929
			758.40					
	8:25	1056	1094.40	16.4	3113			
	8:30	1132	1094.40	20.2	3187			
3	8:35	1198	1094.40	24.0	3240	1143.9	31.92	49.123
			1094.40					
	8:40	1328	1411.20	28.9	3357			
	8:45	1401	1411.20	33.8	3429			
4	8:50	1453	1411.20	38.7	3480	1374.4	41.16	78.638
			1411.20					
	8:55	1688	2016	45.7	3605			
	9:00	1728	2016	52.7	3682			
5	9:05	1800	2016	59.7	3737	1647.9	58.80	152.125
			2016					
	9:10	1940.10	2448.0	68.2	3824			
	9:15	2013	2476.80	76.8	3884			
6	9:20	2018	2476.80	85.4	3928	1797.0	71.96	221.040
			2467.20					
FALL-OFF								
	9:21	1769			3885			
	9:22	1736			3851			
	9:23	1710			3822			
	9:24	1682			3794			
	9:25	1657			3767			
.5 MINUTES	9:30	1541			3651			
5 MINUTES	9:35	1437			3545			

▲ RECORD WELL HEAD PRESSURE
 ○ CORRECTED WELLHEAD PRESSURE BASED ON 2 3/8" TUBING
 □ BOTTOM HOLE PRESSURE @ 4720 FEET

2800

2600

2400

2200

2000

1800

1600

1400

1200

1000

PSIG

WELL HEAD PRESSURE

GREENHILL PETROLEUM COMPANY
 LOVINGTON SAN ANDRES UNIT # 39
 STEP RATE INJECTION TEST

4900

4700

4500

4300

4100

3900

3700

3500

3300

3100

PSIG

BOTTOM HOLE PRESSURE

B W P D

200

400

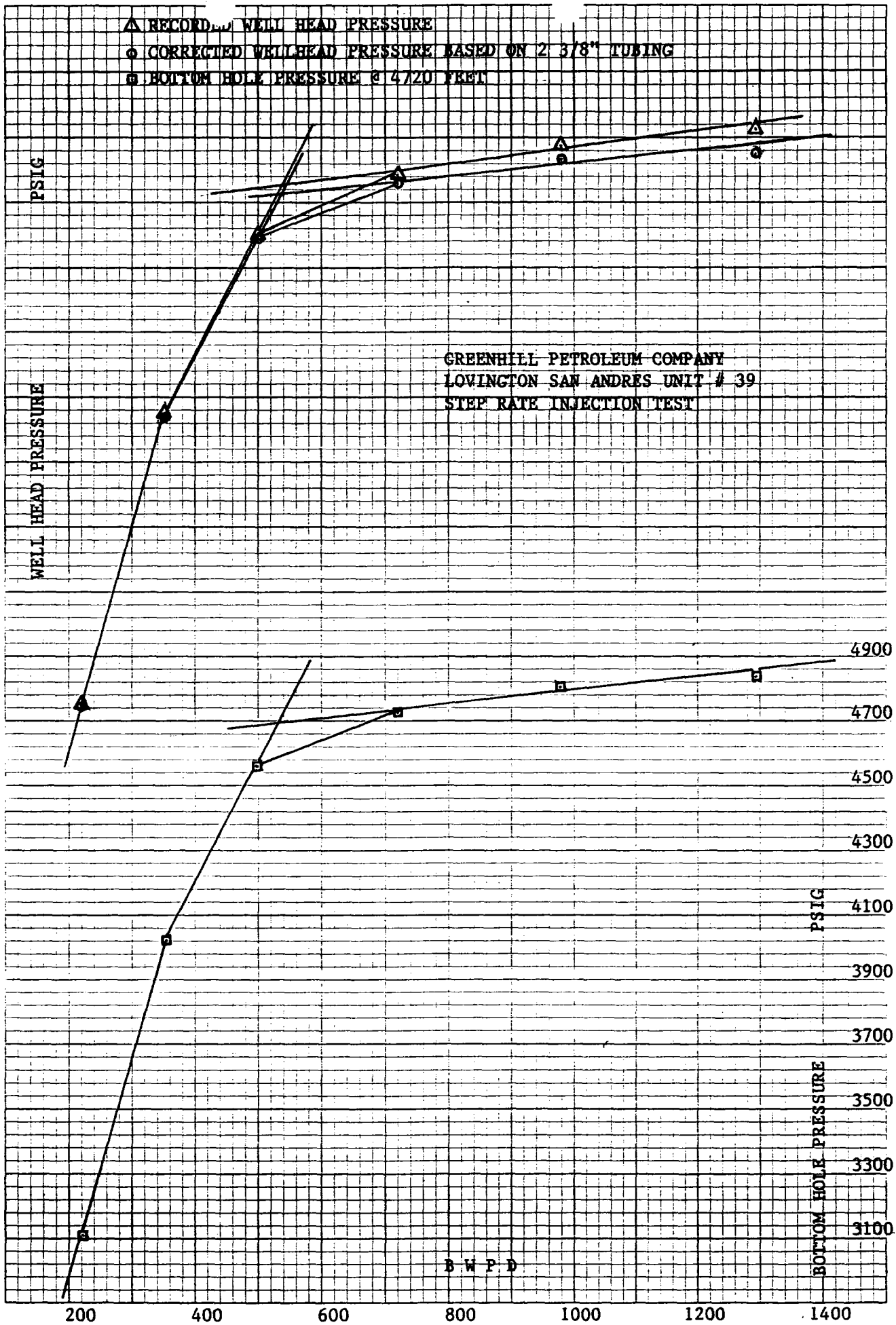
600

800

1000

1200

1400



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name LOVINGTON SAN ANDRES UNIT # 39
CO. Name GREENHILL PETROLEUM COMPANY

Date 7-23-91

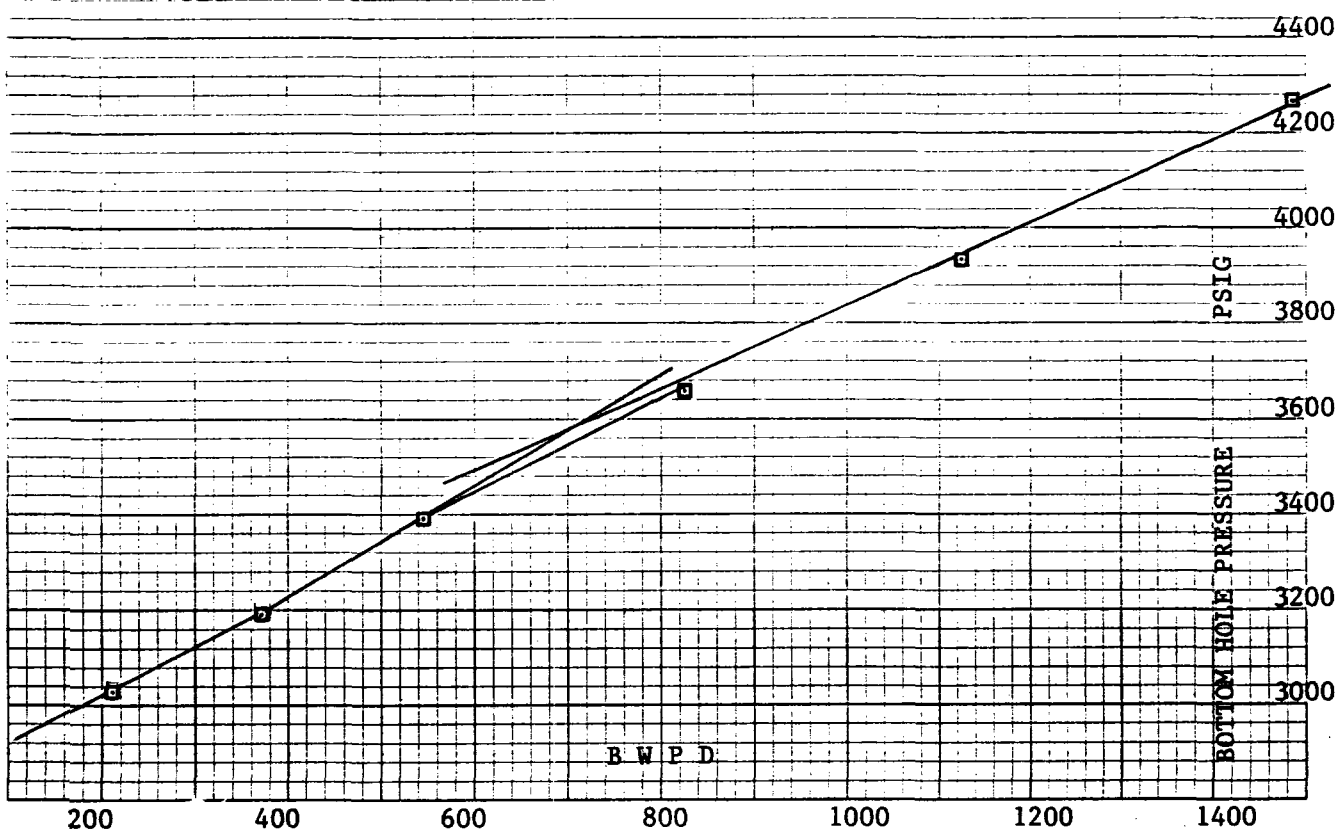
Remarks	Time	Tbg. Press.	Rate B PD	Total	B H P	Tbg. Press.	Rate GPM	HEAD LOSS
PERFS. @ 4522 and 4975 FEET			PKR. 4466	FEET				
SET @ 4748 FEET NOTE*		MDR 4724	FEET	SET @ 4720 FEET				
	8:10	25.2		0	2082			
	8:15	584	230.4	.8	2637			
	8:20	851	230.4	1.6	2913			
1	8:25	1041	201.6	2.3	3103	1038.5	6.44	2.490
			220.80					
	8:30	1443	345.60	3.5	3513			
	8:35	1735.10	345.60	4.7	3798			
2	8:40	1951.30	374.40	6.0	4020	1945.3	10.36	6.000
			355.20					
	8:45	2339	489.60	7.7	4403			
	8:50	2411	518.40	9.5	4477			
3	8:55	2494	489.60	11.2	4560	2482.7	14.56	11.271
			499.20					
	9:00	2607	720.00	13.7	4666			
	9:05	2655	720.00	16.2	4708			
4	9:10	2681	720.00	18.7	4736	2658.8	21.00	22.175
			720.00					
	9:15	2746	979.20	22.1	4787			
	9:20	2760	979.20	25.5	4798			
5	9:25	2767	979.20	28.9	4805	2727.8	28.56	39.198
			979.20					
	9:30	2816	1296.00	33.4	4830			
	9:35	2813	1296.00	37.9	4830			
6	9:40	2822	1296.00	42.4	4835	2756.2	37.80	65.838
			1296.00					
FALL OFF								
	9:41	2701			4782			
	9:42	2685			4770			
	9:43	2675			4759			
	9:44	2668			4752			
	9:45	2662			4746			
5 MIN.	9:50	2637			4722			
5 MIN.	9:55	2619			4703			

▲ RECORDED WELLHEAD PRESSURE
 ○ CORRECTED WELLHEAD PRESSURE BASED ON 2 3/8" TUBING
 ■ BOTTOM HOLE PRESSURE @ 4764 FEET

2400
 2200
 2000
 1800
 1600
 1400
 1200
 1000
 800

PSIG
 WELLHEAD PRESSURE

GREEN PETROLEUM COMPANY
 LOVINGTON SAN ANDRES UNIT # 40
 STEP RATE INJECTION TEST



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name LOVINGTON SAN ANDRES UNIT # 40
CO. Name GREENHILL PETROLEUM COMPANY

Date 7-22-91

Remarks	Time	Tbg. Press.	Rate BPD	Total	BHP	Tbg. Press.	Rate GPM	HEAD LOSS
PERFS. @ 4579 and 4950		Pkr.	4507					
Set @ 4764 FEET								
	8:56	786		0	2868			
	9:00	876.40	201.60	.7	2954			
	9:05	918.40	230.40	1.5	3001			
1	9:10	936.10	201.60	2.2	3032	933.8	6.16	2.315
			211.20					
	9:15	1039	374.40	3.5	3117			
	9:20	1086	374.40	4.8	3165			
2	9:25	1113	374.40	6.1	3195	1106.3	10.92	6.676
			374.40					
	9:30	1211.40	547.20	8.0	3296			
	9:35	1296	547.20	9.9	3355			
3	9:40	1323	547.20	11.8	3394	1309.6	15.96	13.471
			547.20					
	9:45	1466	835.20	14.7	3526			
	9:50	1535	806.40	17.5	3598			
4	9:55	1594	835.20	20.4	3658	1565.2	24.08	28.830
			825.60					
	10:00	1750	1123.20	24.3	3756			
	10:05	1813	1123.20	28.2	3871			
5	10:10	1885	1123.20	32.1	3925	1834.1	32.76	50.952
			1123.20					
	10:15	2097	1440	37.10	4093			
	10:20	2197	1526.40	42.40	4191			
6	10:25	2251	1497.6	47.6	4268	2165.3	43.40	85.730
			1488.0					
FALL OFF								
	10:26	2034			4124			
	10:27	1936			4034			
	10:28	1869			3966			
	10:29	1810			3907			
	10:30	1760			3857			
5 Min.	10:35	1583			3678			
5 Min.	10:40	1469			3562			



GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION

RECEIVED

1490 WEST WEIMER ROAD, SUITE 200
HOUSTON, TEXAS 77077-6841
TELEPHONE (713) 589-8484
FAX (713) 589-9399

'91 SEP 24 AM 9 12

Incorporated in Delaware, U.S.A.

September 19, 1991

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attention: Mr. David Catanach

Re: Lovington San Andres
Lea County, New Mexico

Dear Mr. Catanach:

Earlier today our letter number 91.144 was sent to you and referenced our West Lovington Unit and should have referenced our Lovington San Andres Unit. I have enclosed a copy of it for your convenience.

I apologize for my error.

Very truly yours,


Sharon J. Stephens
Land Secretary

sjs:s
91.145



GREENHILL PETROLEUM CORPORATION

11490 WESTHEIMER ROAD, SUITE 200
HOUSTON, TEXAS 77077-4041
TELEPHONE (713) 889-8484
FAX. (713) 889-9399

Incorporated in Delaware, U.S.A.

September 19, 1991

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attention: Mr. David Catanach

Re: ~~West Lovington Unit~~
Lea County, New Mexico

Lovington San Andres

Dear Mr. Catanach:

Enclosed please find the chart which indicates Greenhill's recommended injection pressure for the following new conversions in the Lovington San Andres Unit:

Lovington San Andres Unit Well Numbers
3, 10, 13, 15, 39 and 40

Please contact me in the event I can provide you with additional information.

Very truly yours,

Michael J. Newport

Michael J. Newport
Land Manager-Permian Basin

MJN:sjs
91.144

Enclosure



OIL CONSERVATION DIVISION
GREENHILL PETROLEUM CORPORATION

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

'91 SEP 23 AM 9 27

Incorporated in Delaware, U.S.A.

September 19, 1991

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attention: Mr. David Catanach

Re: ~~West Lovington Unit~~ Lovington San Andres
Lea County, New Mexico

Dear Mr. Catanach:

Enclosed please find the chart which indicates Greenhill's recommended injection pressure for the following new conversions in the Lovington San Andres Unit:

Lovington San Andres Unit Well Numbers
3, 10, 13, 15, 39 and 40

Please contact me in the event I can provide you with additional information.

Very truly yours,

Michael J. Newport
Land Manager-Permian Basin

MJN:sjs
91.144

Enclosure

Greenhill Petroleum Corporation

Lovington San Andres Unit
Steprate test results

Well Identification	LSAU 3	LSAU 10	LSAU 13	LSAU 15	LSAU 39	LSAU 40
Surface parting Pressure Psig	1875	1850	1375	1555	2630	1480
Hydrostatic Pressure Psig	2041	2039	2013	2024	1982	2001
Bottom Hole Pressure Psig	3916	3889	3388	3579	4612	3481
Midperf depth ft	4860	4855	4793	4820	4720	4764
Fracture Gradient Psi/ft	0.806	0.801	0.707	0.743	0.977	0.731
Requested Injection Pressure Psig	1775	1750	1275	1455	2000	1380

Recommended Press →

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 9, 1991

Greenhill Petroleum Corporation
11490 Westheimer
Suite 200
Houston, Texas 77077

Attention: David M. Tilley

Re: Exception to requirements of
Division Order No. R-9431

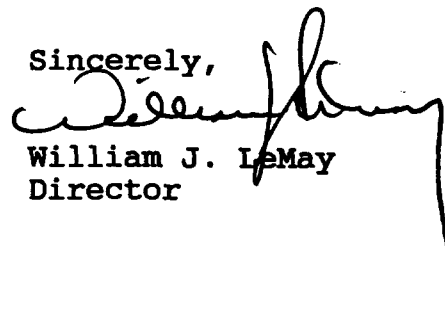
Dear Mr. Tilley:

Reference is made to your request dated July 1, 1991, for an exception to the re-plugging requirement contained within Division Order No. R-9431. It is our understanding that an attempt has been made to re-enter and re-plug the Texaco State "P" Well No. 5 located in Section 32, Township 16 South, Range 37 East, NMPM, Lea County, New Mexico, and that such attempt has been unsuccessful. It is further our understanding that you now seek authority to plug the well from a depth of approximately 3158 feet. Your proposal is hereby granted subject to the following conditions:

- 1) The well shall be plugged from a depth of 3158 and equipped at the surface with monitoring devices in accordance with the requirements set forth by the supervisor of the Hobbs district office.
- 2) The Lovington San Andres Unit Well No. 19, previously permitted as an injection well, shall be utilized as producing well in order to create a pressure drawdown.
- 3) Any future detection of fluid migration within the State "P" Well No. 5 shall be cause to cease injection within one half mile of the well until the problem is resolved.

Should you have any questions regarding this action, please contact Mr. David Catanach at (505) 827-5800.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. LeMay". The signature is written in a cursive style with a long, vertical tail extending downwards.

William J. LeMay
Director

xc: OCD-Hobbs
Case File-10154 ✓



GREENHILL PETROLEUM CORPORATION
OIL SPONSOR
RECEIVED

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

'91 JUL 8 AM 9 15

Incorporated in Delaware, U.S.A.

July 1, 1991

Mr. David R. Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Replugging by Greenhill Petroleum of
Texaco State "P" # 5
Lovington Paddock Field
330' FWL and 330' FSL, Sec. 32 T16S R37E
Lea County, New Mexico

Dear Sir,

As per the Order of the Division (Case # 10154 Order # R-9431), Greenhill Petroleum has undertaken the re-entry and replugging of certain specified abandoned wells within and adjacent to its Lovington San Andres Unit waterflood located in Lea County, New Mexico. This action is being taken to insure protection of other formations and freshwater strata from possible contamination due to water injection in the San Andres zone within the Unit boundaries.

Greenhill personnel were to re-enter the referenced well and set a cement plug inside the cutoff and abandoned production casing at the top of the San Andres (\pm 4680'). The well was successfully re-entered to 3115', at which depth the previous operator "shot" the production casing in two and pulled the salvageable material. Several attempts were made by Greenhill to re-enter the old casing with different tools; none were effective. A total depth of 3158' was reached outside of the casing. In addition, impression blocks were run to determine the condition of the casing in hopes of identifying a procedure for re-entering the "shot" casing. Greenhill was unsuccessful in all attempts made. The workover has been temporarily halted until other strategy could be mapped out.

At this time Greenhill would like to propose an alternate plan in lieu of continuing operations to re-enter the cutoff casing. Greenhill proposes to replug the well at its current depth (3158') with 200 sx of cement. A waiting period of

GREENHILL PETROLEUM CORPORATION

four (4) hours would be observed; then, the pipe would be tripped to tag the plug and spot another balanced 50 sx plug at $\pm 2150'$ in and out of the 8-5/8" surface casing at 2093'. After sufficient time waiting on cement, the 8-5/8" casing would be circulated with inhibited freshwater. Pressure monitoring and fluid containment equipment would then be installed on the surface. In addition, Greenhill plans to alter its well pattern in this area. The LSAU # 19, which was going to be converted to water injection, will remain a producer. This well is located 330' north of the subject well and will act as a drainage point in the reservoir to keep bottomhole pressure low in the area within the San Andres injection interval.

Other options were considered to solve to problem of re-entering the old pipe, but Greenhill judged them to be extremely risky to the integrity of the lower wellbore area. We feel that any further attempts would result in getting down beside the shutoff production casing, possibly damaging the seal provided by the original cement job.

Greenhill asks your consideration of this problem at your earliest convenience. We would like to resume operations as soon as possible to bring this workover to a successful conclusion. If you need additional information, please contact us at 713-589-8484.

Thank you,



David M. Tilley
Production Engineer

DMT:KLD

XC:WF

ORIGINAL PLUG BACK

Operator: Texaco Inc

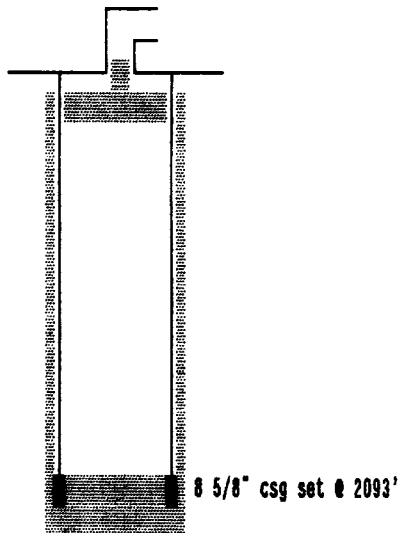
Lease: State P Well No. 5 Field: Lovington Paddock

Location: 330' FS & 330' FWL Sec 32 T16S R37E

County: Lea State: New Mexico

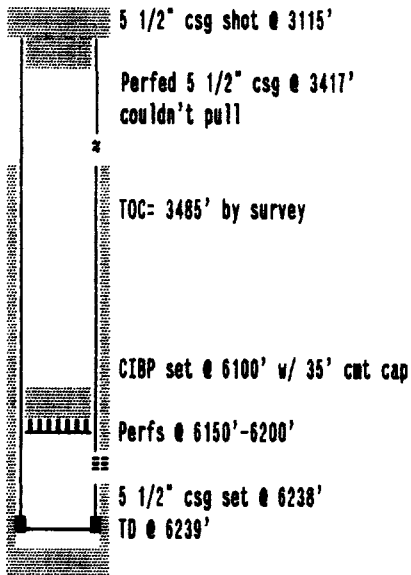
Elevations: KB N/A GL 3803' TD N/A PBDT N/A

SKEMATIC



WELL DATA

12-27-54 Well spudded
 Surf Csg: 8 5/8" casing sset @ 2093'. Cemented w/ 1000 sx.
 Circulated to surface.
 Prod Csg: 5 1/2" casing set @ 6238'. Cement w/ 500 sx.
 Top of cement 3485' by temperature survey.



07-26-76 Well PA'd. Set CIBP at 6100' capped with 35 ft of cement. Attempted to cut 5 1/2" csg at 3417'. Could not pull. Cut casing at 3115' and pulled remainder. Set 45 sx plug in csg stub from 3172' to 2960'. Set 45 sx plug from 2143' to 2043'. Set 10 sx surface plug. Installed dry hole marker.

PROPOSED PLUG BACK

Operator: Texaco Inc

Lease: State P Well No. 5 Field: Lovington Paddock

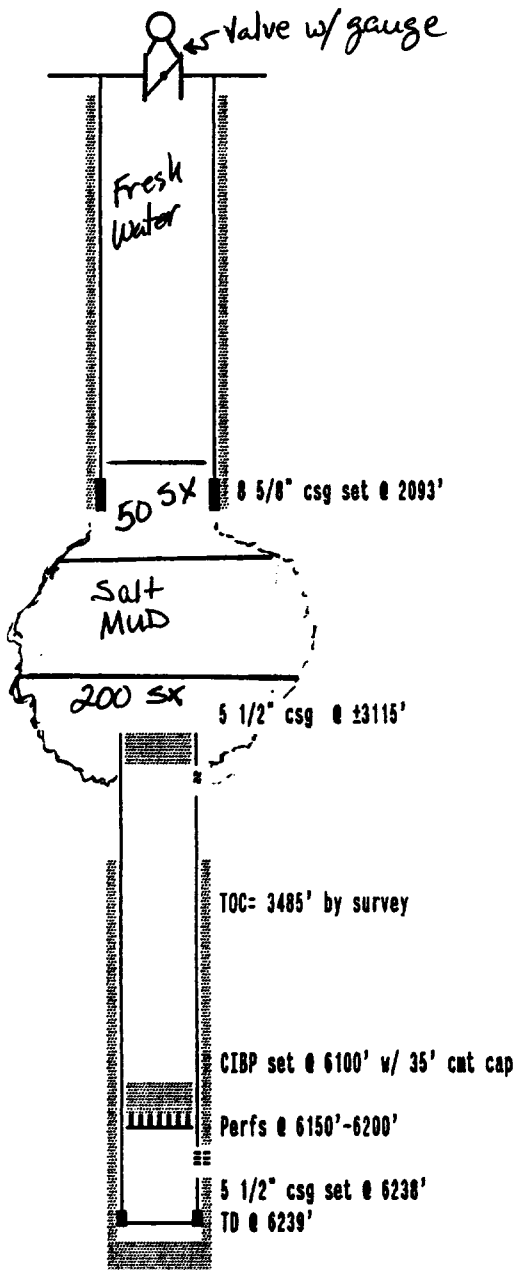
Location: 330' FS & 330' FWL Sec 32 T16S R37E

County: Lea State: New Mexico

Elevations: KB N/A GL 3803' TD N/A PBDT N/A

SKEMATIC

WELL DATA



12-27-54 Well spudded
 Surf Csg: 8 5/8" casing sset @ 2093'. Cemented w/ 1000 sx.
 Circulated to surface.
 Prod Csg: 5 1/2" casing set @ 6238'. Cement w/ 500 sx.
 Top of cement 3485' by temperature survey.

06-19-91 Well Re-entered by Greenhill. Unable to get inside old 5 1/2" casing. Td'd w/ 7 5/8" bit at 3130', 4 3/4" bit, mills and impression blocks went to 3158'. 7 5/8" impression block went to 3142' on last run. Did not drill any cement from 2140'. Hole volume currently = 265 bbl or 1485 cu ft by circulation.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

RECEIVED

'91 APR 10 AM 8 48

April 9, 1991

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

*Case File-
10/54*

Greenhill Petroleum Corporation
11490 Westheimer, Suite 200
Houston, Texas 77077

Gentlemen:

As per your request, you may begin injection into the Lovington San Andres Unit Well No. 13-H, Section 36, Township 16 South, Range 36 East.

I feel you have had sufficient time since the meeting on January 11, 1991, regarding the Lovington San Andres Unit and the Lovington Paddock Unit expansions to begin the workovers on the problem wells.

We request that you submit your proposals for the procedures necessary to bring the wells into compliance with Division Order R-9431.

We request 24 hours notice prior to re-cementing or replugging of the wells in order to witness the operation.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

JS:bp

cc: Roland Beal, Box 1949, Hobbs, NM 88241-1949
✓ David Catanach
File



GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

'91 FEB 1 AM 9 00

Incorporated in Delaware, U.S.A.

January 29, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: Lovington San Andres Unit
Well No. 49
Lea County, NM

Enclosed please find (3) three copies of Form C-103 covering Well No. 49.

Sincerely,

Michael J. Newport
Michael J. Newport
Landman

MJN:jb
Enclosure

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B3009
7. Lease Name or Unit Agreement Name Lovington San Andres
8. Well No. 49
9. Pool name or Wildcat Lovington San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3830' RT

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE 'APPLICATION FOR PERMIT' (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL GAS WELL OTHER Injection

2. Name of Operator
Greenhill Petroleum Corporation

3. Address of Operator
16010 Barkers Point, Ste., 325, Houston, TX 77079

4. Well Location
Unit Letter I : 1980 Feet From The South Line and 660 Feet From The East Line
Section 1 Township 17S Range 36E NMPM 1 ea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <u>Piped to surface, Intermediate & surface csg.</u> <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1-22-91 Piped intermediate csg. to surface with 2".

1-22-91 Piped surface csg. to surface with 1".

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 1-29-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.


January 29, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: West Lovington Unit
Well No. 19
Lea County, NM

Enclosed please find (3) three copies of Form C-103 covering Well No. 19.

Sincerely,


Michael J. Newport
Landman

MJN:jb
Enclosure

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B41198
7. Lease Name or Unit Agreement Name West Lovington Unit
8. Well No. 19
9. Pool name or Wildcat Lovington San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3903' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL GAS WELL OTHER Injection

2. Name of Operator
Greenhill Petroleum Corporation

3. Address of Operator
16010 Barkers Point, Ste. 325, Houston, TX 77079

4. Well Location
Unit Letter K : 1980 Feet From The South Line and 1980 Feet From The West Line
Section 5 Township 17 S Range 36 E NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIATION WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: _____ <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: Piping to surface <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1-18-91 Piped surface csg. to surface
1-18-91 Piped intermediate csg. to surface

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 1-29-91
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

January 29, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: Lovington San Andres Unit
Well No. 40
Lea County, NM

Enclosed please find (3) copies of Form C-103 covering Well No. 40.

Sincerely,

Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B2359
7. Lease Name or Unit Agreement Name Lovington San Andres Unit
8. Well No. 40
9. Pool name or Wildcat Lovington Grayburg San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3831 DF

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection
2. Name of Operator Greenhill Petroleum Corporation
3. Address of Operator 16010 Barkers Point, Ste. 325, Houston, TX 77079
4. Well Location Unit Letter <u>H</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>1</u> Township <u>17S</u> Range <u>36E</u> NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: Conversion to injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SICP-0#-14 Hrs. Rack 137 jts.-2 3/8" 1PC tbg. PU-5 1/2"-17#-AD-1 pkr & TIH on 137 jts
2 3/8" 1PC tbg. to 4507'. Remove BOP. Flanged up. RU pump trk to csg. & circulated
30g.-KW170 pkr. fld mixed in 100 bbls. fresh water. Set pkr. @ 4507'. Pressured up
on csg. to 535#. Ran chart for 32 mins. Pressure remained @ 535#. Released pressure
& RD pump trk. Clean up & RDPU.

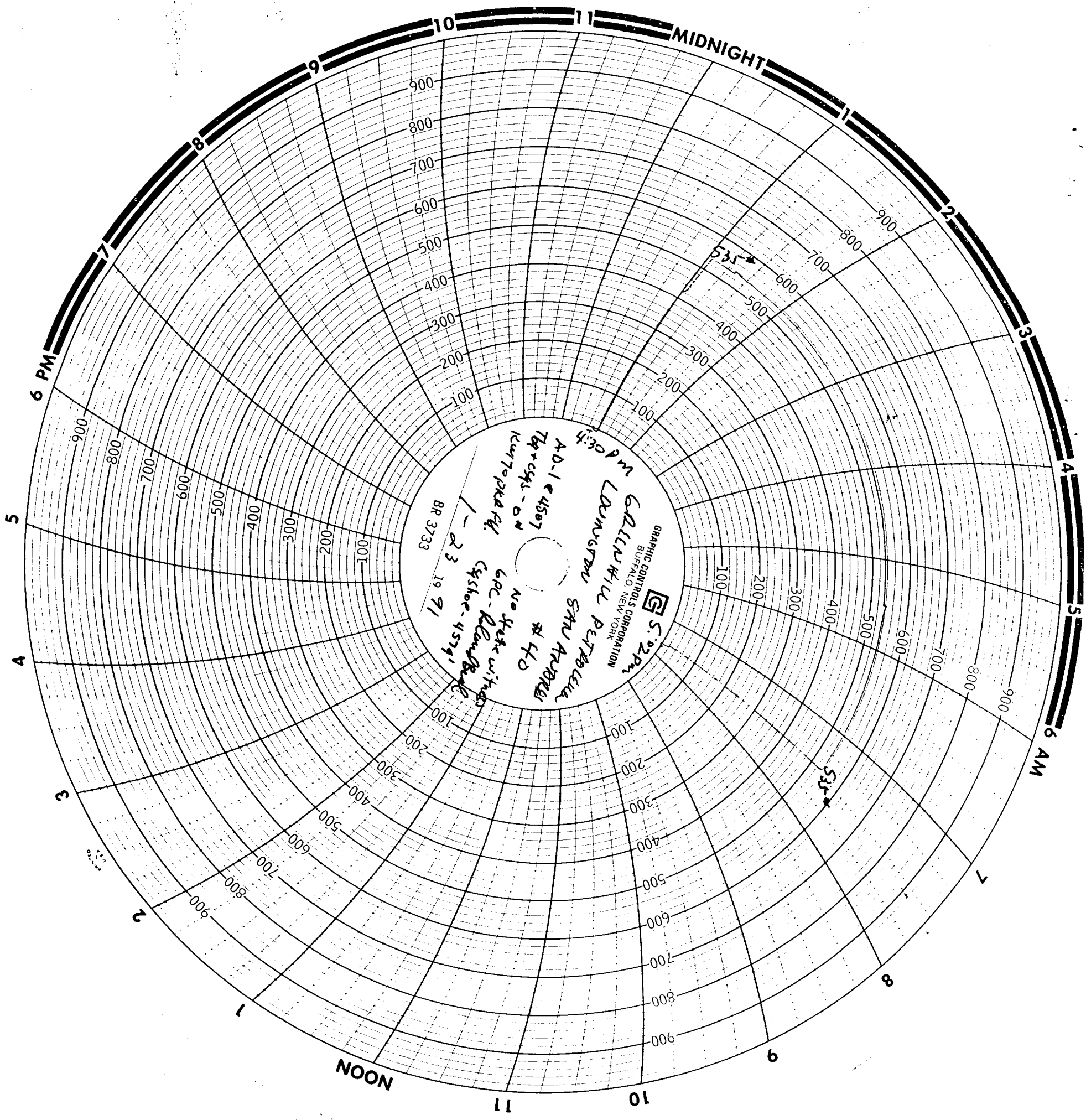
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 1-29-91
 TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



GRAPHIC CONTROLS CORPORATION
BUFFALO NEW YORK
S. 0204
GALLINWELL PETROLEUM
LOUNGSBERRY STNU ARKMO
AD-1 4507
THURSDAY - 6 AM
KUTOPOLKAPU
600 - PLUMB
CYSKOP - 4579
NO SKETCH WITH
23 19 91
BR 3733

535

DAILY WELL WORK REPORT

DATE: 1-23-91 WED
 WELL: LOWINGTON SAN ANDRES #40 AFE NUMBER: 91066
 FIELD: LOWINGTON SAN ANDRES AUTHORIZED AMOUNT: _____
 RESERVOIR: SAN ANDRES GREENHILL PETROLEUM WI: _____
 TD: 4950' PBD: 4950' WELL TYPE: PROD _____ INJ
 TYPE OF WORK: WORKOVER ^{CONVERSION} RECOMP _____ NEW COMPL _____
 PERFS/O.H.: 4 3/4" OH - 4579' - 4950'
 CURRENT OPERATION: RUN PKR + TBG - CSG CHART.

SICP - 0" - 14 HRS. Rack 137 jts. - 2 3/8" IPC tbq.
 PU - 5 1/2" - 17# - AD-1 PKR + TIH on 137 jts. - 2 3/8" IPC
 tbq. to 4507'. Remove BOP. Flunged up. RU pump trk
 to csq. + circulated 30g. - Kw170 PKR. fld mixed in
 100 Bbls. fresh water. Set PKR. @ 4507'. Pressured up
 on csq. to 535#. Ran chart for 32 mins. Pressure remained
 @ 535#. Released pressure + RD pump trk. Clean up +
 RDPU.

Chart included

Chart time 4:30 PM - 5:02 PM

Tbg. surf. + Inter csqs. - 0"

AD-1 PKR. - 4507'

Kw170 PKR. fld.

Csq. shoe @ 4579'

137 jts. - 2 3/8" IPC tbq.

No state witness

GPC witness - Roland Beal

COST SUMMARY

	DAILY	CUM TOT
RIG: <u>Pulling Unit - 800</u>	= 800	5125
LOG/PERF:	= 0	4440
STIM:	= 0	980
WATER: <u>Pmp trk - 350</u>	= 350	1250
RENTAL TOOLS:	= 0	4350
TESTING:	= 0	0
PROD. EQUIP: <u>AD-1 PKR - 950</u>	= 16335	16535
OTHER: <u>30g - Kw170 - 300</u>	= 300	300
↓ 137 jts. - 2 3/8" IPC - 4500' @ 3.23 = 14535 TOTALS	= 17,785	32,980
Flange - wellhead - 400		
Transport tbq. - 450		



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

January 29, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: West Lovington Unit
Well No. 61
Lea County, NM

Enclosed please find (3) copies of Form C-103 covering Well No. 61.

Sincerely,

Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B9042
7. Lease Name or Unit Agreement Name West Lovington
8. Well No. 61
9. Pool name or Wildcat West Lovington-Upper San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3901' DF

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection
2. Name of Operator Greenhill Petroleum Corporation
3. Address of Operator 16010 Barkers Point, Ste. 325, Houston, TX 77079
4. Well Location Unit Letter K : 2310 Feet From The South Line and 1980 Feet From The West Line Section 8 Township 17S Range 36E NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

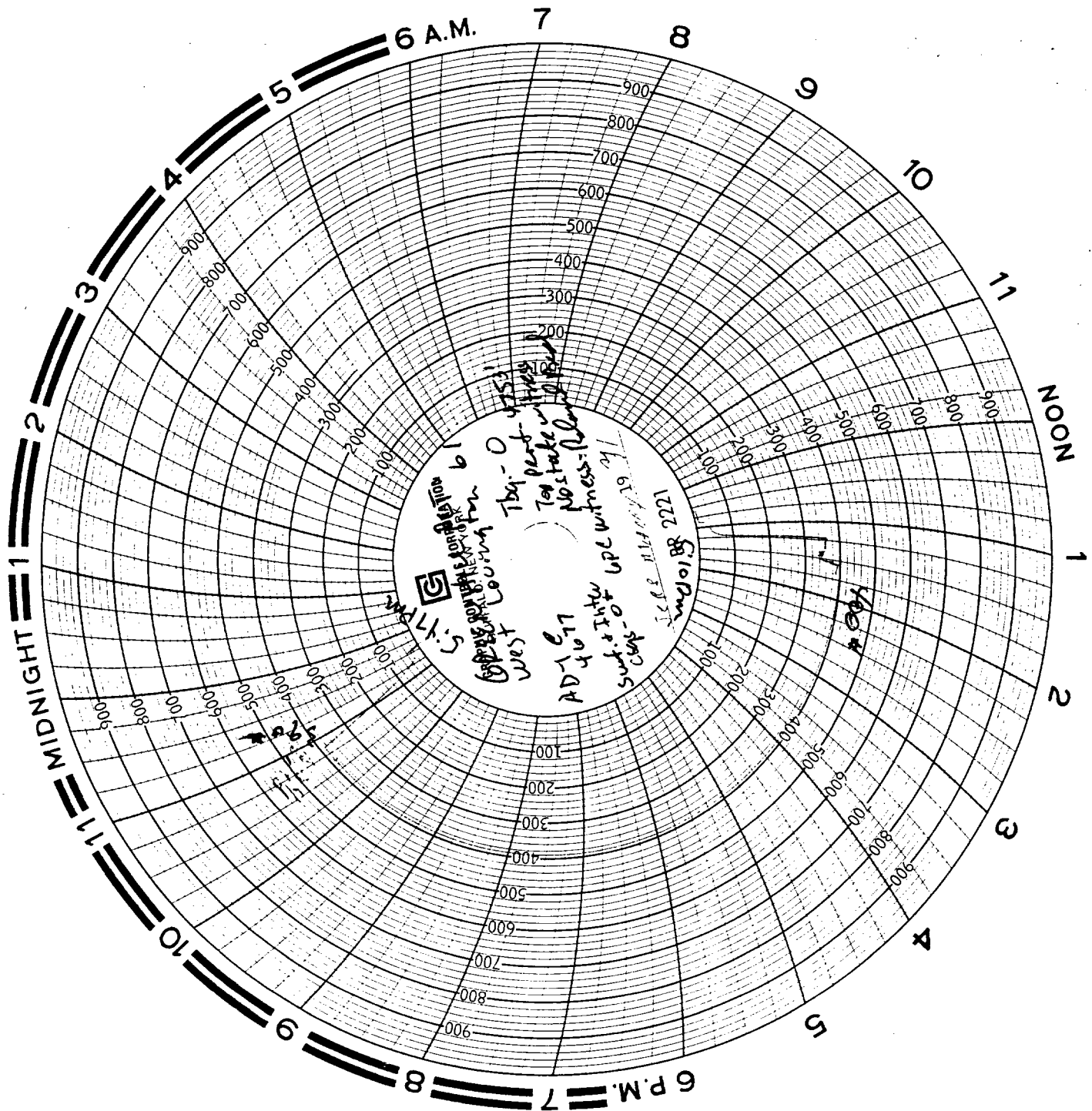
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: Conversion to injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SITP-0#-14 Hrs. TIH w/tbg. & pft tool. Tagged bottom @ 5064'. POOH w/ 2 7/8" tbg. laying down. Rack 142 jts.-2 3/8" 1PC tbg. PU-5 1/2"-14# AD-1 pkr & TIH on 142 jts 2 3/8" 1 PC tbg. to 4677'. Flange up. RU pump trk. to csg. & circulated 27 g.-KW170 pkr fld. mixed in 90 Bbls. fresh water. Set pkr @ 4677'. Pressured up on csg. to 400#-Ran chart for 37 mins. Pressured decreased to 390#. Released pressure & RD pump trk. Clean location & RDPU.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNATURE Michael Newport TITLE Landman DATE 1-29-91
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



AD-1 6-17
Subj: Intw
Case: 0
UPC witness: [unclear]
19 21
11/19/88 2221

DAILY WELL WORK REPORT

DATE: 1-23-91 WED

WELL: WEST LOVINGTON #61

AFE NUMBER: 91144

FIELD: WEST LOVINGTON

AUTHORIZED AMOUNT: 55700

RESERVOIR: SAN ANDRES

GREENHILL PETROLEUM WI: _____

TD: 5080' PBTD: 5064'

WELL TYPE: PROD _____ INJ

TYPE OF WORK: WORKOVER RECOMP _____ NEW COMPL _____

PERFS/O.H.: PERFS - 4753' - 5064'

CURRENT OPERATION: RUN PRODUCTION, TEST CSG, RUN CHART.

SITP - 0" - 14 HRS. TIT w/ tbg. + PFT tool. Tagged bottom @ 5064'. PooH w/ 2 3/8" tbg. laying down. Rack 142 jts. - 2 3/8" IPC tbg. PU - 5 1/2" - 14 # AD-1 PKR. + TIT on 142 jts. - 2 3/8" IPC tbg. to 4677'. Flange up. RU pump trk. to csq. + circulated 27q. - Kw170 PKR. fld. mixed in 90 Bbls. fresh water. Set PKR @ 4677'. Pressured up on csq. to 400# - Ran chart for 37 mins. - Pressured decreased to 390#. Released pressure + RD pump trk. Clean location + RD PU.

Chart included
 Chart time - 5:10pm - 5:47pm
 Surf. + Intercsqs. - 0"
 Tbg. - 0"
 AD-1 @ 4677'
 Top Pent - 4753'
 Kw170 PKR fld
 142 jts - 2 3/8" IPC tbg.
 No state witness
 GPC witness - Roland Beal

COST SUMMARY		DAILY	CUM TOT
RIG:	Pulling Unit - 1350	= 1350	7100
LOG/PERF:		= 0	4533
STIM:		= 0	5900
WATER:	Pmp trk - 350, Vac trk - 300	= 650	2000
RENTAL TOOLS:	B00 - 100	= 100	5000
TESTING:		= 0	0
PROD. EQUIP:	AD-1 PKR - 800, 4670' IPC @ 3.50 - 16245	= 17645	17645
OTHER:	Kw170 - 300, Transport tbg. - 450	= 750	850
	Wellhead - 400		
	Valves - 100		
TOTALS		= 20,495	43,028



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.


January 28, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: Lovington Paddock
Well No. 93
Lea County, NM

Enclosed please find the revised C-101 & C-102 describing the new location for Well No. 93. There had been an error on the plat prepared by the survey company.

Sincerely,


Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Oil Conservation Division/Mike Stogner

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.
B1505

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL <input type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				7. Lease Name or Unit Agreement Name	
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>				Lovington Paddock Unit	
SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. Well No. 93	
2. Name of Operator Greenhill Petroleum Corporation				9. Pool name or Wildcat Lovington Paddock	
3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079					
4. Well Location Unit Letter <u>K</u> : <u>2470</u> Feet From The <u>South</u> Line and <u>1355</u> Feet From The <u>West</u> Line Section <u>31</u> Township <u>16 South</u> Range <u>37 East</u> NMPM <u>1ea</u> County					
10. Proposed Depth 6350		11. Formation Lovington Paddock		12. Rotary or C.T. Rotary	
13. Elevations (Show whether DF, RT, GR, etc.) 3821.7 GR		14. Kind & Status Plug. Bond Blanket		15. Drilling Contractor TBD	
16. Approx. Date Work will start 12-15-90					
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	2050	800	Surface
7 7/8	5 1/2	15.5#	6350	500	3000

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael Newport TITLE Landman DATE 1-28-91
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate District Office
 State Lease - 4 copies
 Fee Lease - 3 copies

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Denver DD, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
 All Distances must be from the outer boundaries of the section

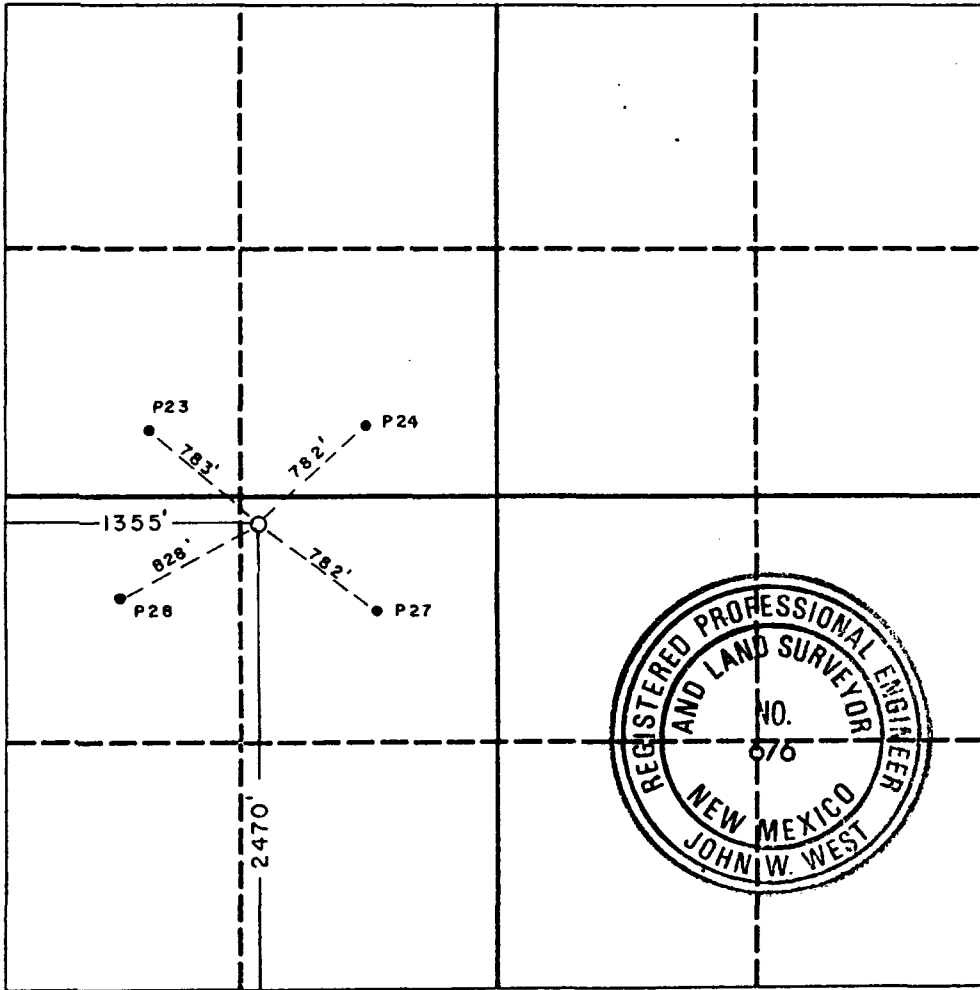
Operator GREENHILL PETROLEUM CORP.			Lease LOVINGTON PADDOCK UNIT		Well No. 93
Unit Letter K	Section 31	Township 16 SOUTH	Range 37 EAST	County LEA	
Actual Footage Location of Well: 2470 feet from the SOUTH line and 1355 feet from the WEST line					
Ground level Elev. 3821.7	Producing Formation		Pool	Dedicated Acreage: Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Yes No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

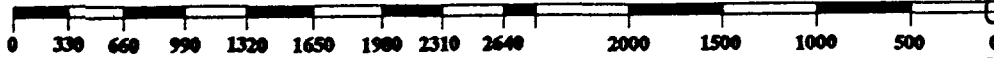
Signature
Michael J. Newport
 Printed Name
 Michael J. Newport
 Position
 Landman
 Company
 Greenhill Petroleum Corp.
 Date
 1-28-91

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
 11-27-90
 Signature & Seal of Professional Surveyor

John W. West
 Certificate No. JOHN W. WEST, 676
 RONALD J. EIDSON, 3239





GREENHILL PETROLEUM CORPORATION DIVISION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

'91 JAN 29 AM 9 24

Incorporated in Delaware, U.S.A.

January 24, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: West Lovington Unit
Well Nos. 25, 44 and 50
Lea County, NM

Enclosed please find (3) three copies of Form C-103 covering Well Nos. 25, 44 and 50.

Sincerely,

Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-4120-1

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection	7. Lease Name or Unit Agreement Name West Lovington
2. Name of Operator Greenhill Petroleum Corporation	8. Well No. 44
3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079	9. Pool name or Wildcat West Lovington-Upper San Andres
4. Well Location Unit Letter <u>C</u> : <u>1980</u> Feet From The <u>West</u> Line and <u>660</u> Feet From The <u>North</u> Line Section <u>8</u> Township <u>17S</u> Range <u>36E</u> NMPM Lea County	

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3911' DE
--

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: conversion to injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SITP-200#-13 Hrs. Flowed back 5 Bbls. water. RU pump trk. to csg. & pressured up to 520#. Ran chart for 32 mins. Ending pressure-510#-OK. Released pressure & RD pump trk. Clean location & RDP. Will acidize as soon as possible.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

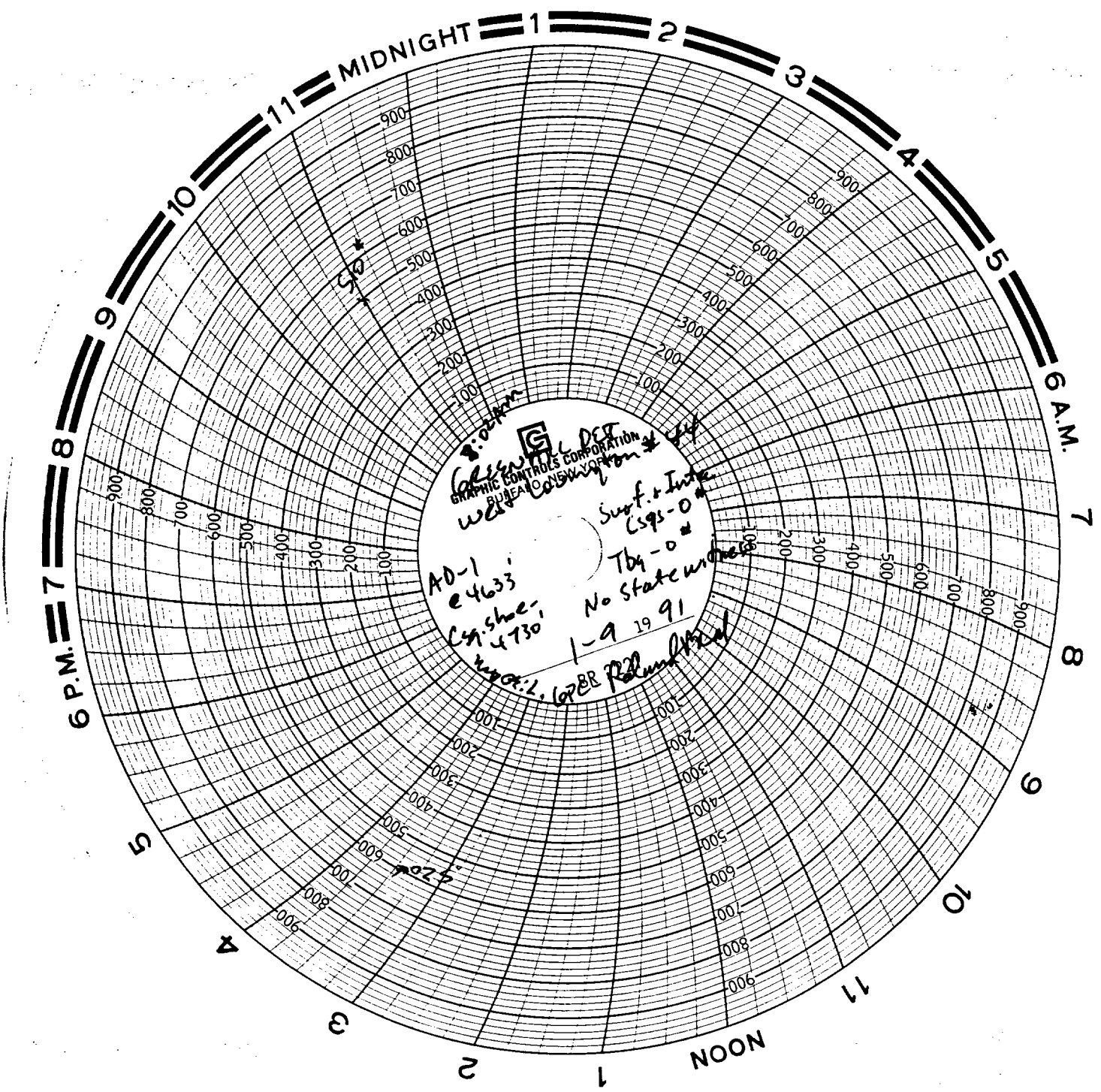
SIGNATURE Michael J. Newport TITLE Landman DATE 1-23-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



G
GRAPHIC CONTROLS CORPORATION
BUREAU OF CONSTRUCTION

AD-1
e 4633
C9-shoe
4730

Surf. + Int.
C995-0
No State un...
1-9 19 91

1-9 19 91
L. G. R. Palmer

DAILY WELL WORK REPORT

DATE: 1-9-91 WED.

WELL: WEST LOUINGTON #44

AFE NUMBER: 53091

FIELD: WEST LOUINGTON

AUTHORIZED AMOUNT: 51,000

RESERVOIR: SAN ANDREAS

GREENHILL PETROLEUM WI: _____

TD: 5160' PBTD: 5160'

WELL TYPE: PROD _____ INJ

TYPE OF WORK: WORKOVER RECOMP _____ NEW COMPL _____

PERFS/O.H.: 4 3/4 OH - 4730' - 5160'

CURRENT OPERATION: RUN PKR TEST.

SITP-200# - 13 HRS Flowed back 5 Bbls water. Ru pump trk. to csq & pressured up to 520#. Ran chart for 32 mins. Ending pressure - 510# - OK. Released pressure & RD pump trk. Clean location & RDPU. Will acidize ASAP.

Chart included

Chart time - 7:30 Am to 8:02 Am

Surface & Inter. csqs. - 0#

Tbg. - 0#

AD-1 pkr. @ 4633'

Kw 1.70 pkr. Fld.

Csq. shoe @ 4730'

149 jts. - 2 3/8" IAC tbg. (used)

No state witness

6pc witness - Roland Beal

COST SUMMARY

	DAILY	CUM TOT
RIG: <u>Pulling Unit - 520</u>	= 520	5870
LOG/PERF:	= 0	2600
STIM:	= 0	850
WATER: <u>Pump trk. - 300, Empty pit - 150</u>	= 450	11000
RENTAL TOOLS:	= 0	4900
TESTING:	= 0	0
PROD. EQUIP:	= 0	13910
OTHER:	= 0	850
TOTALS	= 970	30580

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-1553

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection	7. Lease Name or Unit Agreement Name West Lovington
2. Name of Operator Greenhill Petroleum Corporation	8. Well No. 25
3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079	9. Pool name or Wildcat West Lovington-Upper San Andres
4. Well Location Unit Letter I : 1980 Feet From The South Line and 660 Feet From The East Line Section 4 Township 17 S Range 36 E NMPM Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3885' DF	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: conversion to injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran 1/2 Baker AD-1 pkr on 142 Jts 2 3/8" IPC tbg in @ 4678'. Circulated pkr fld. Set pkr. w/22 pts tension pulled into pkr. Press tested csg. & pkr @ 300# for 30 min. Held OK. RDMO. Hooked well up for injection.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

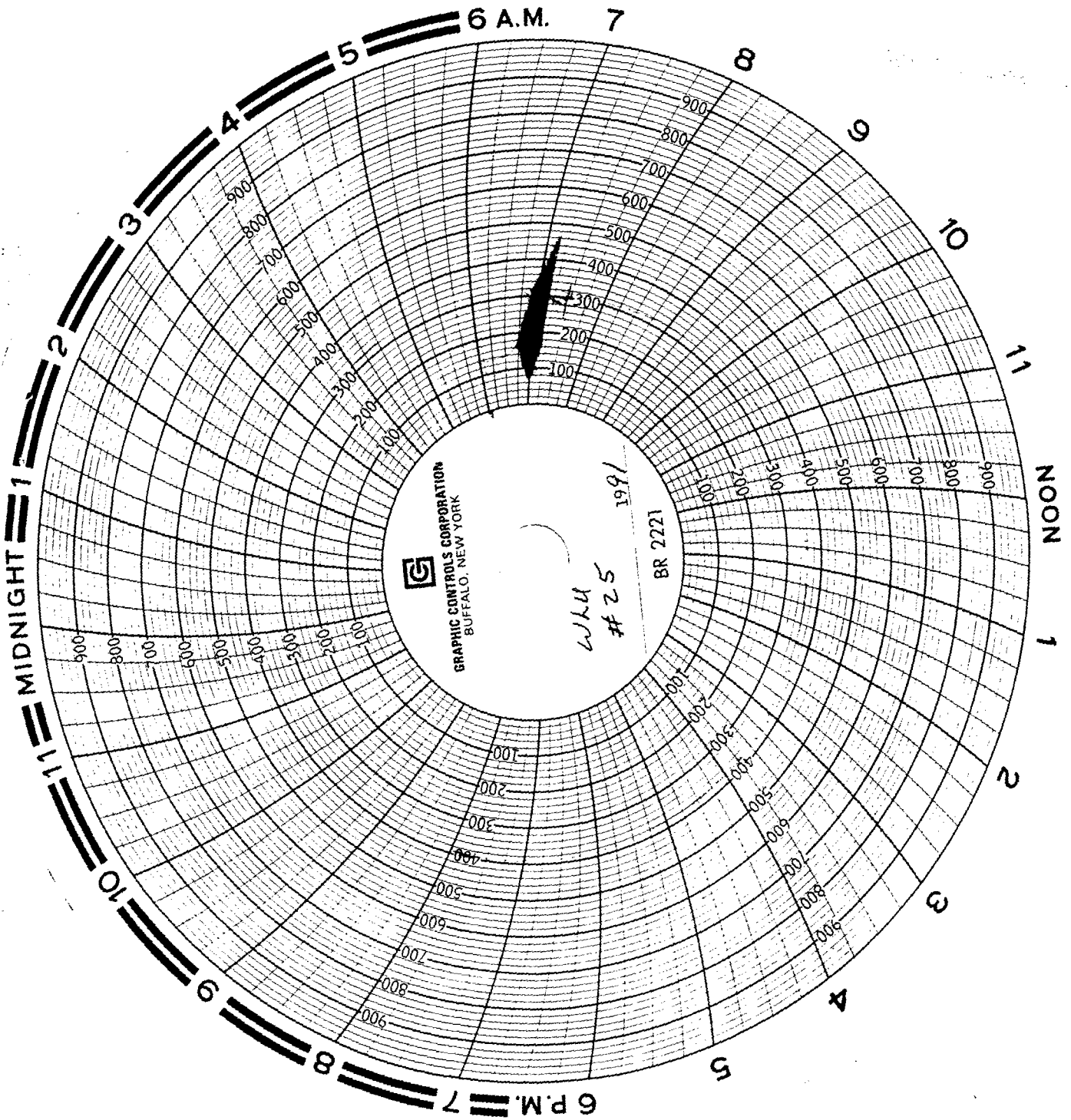
SIGNATURE Michael J. Newport TITLE Landman DATE 1-23-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



DAILY WELL WORK REPORT

DATE: 1/15/92

WELL: WLU # 25

AFE NUMBER: 53131

FIELD: West Lovington

AUTHORIZED AMOUNT: _____

RESERVOIR: San Andres

GREENHILL PETROLEUM WI: _____

TD: _____ PBD: 5088'

WELL TYPE: PROD _____ INJ _____

TYPE OF WORK: WORKOVER _____ RECOMP _____ NEW COMPL _____

PERFS/O.H.: _____

CURRENT OPERATION: _____

=====
 Ran 1/2 Baker AD-1 pkr on 142 Jts 2 3/8" IPC tbg dr @ 4678'. Circulated pkr fluid. Set pkr w/ 22 pts tension pulled into pkr. Press tested csg + pkr @ 300# for 30 min. Held OK. RDMO. Hooked well up for injections.

Last Report

4 1/2" csg set 5120' 9.5#
 8 5/8" csg set 327'
 Baker AD-1 set @ 4678'

=====
 COST SUMMARY

	DAILY	CUM TOT
RIG:	= 900 ⁰⁰	11,900
LOG/PERF:	=	1386
STIM:	=	4712
WATER:	= 500 ⁰⁰	1500
RENTAL TOOLS:	=	5740
TESTING: <i>Cont job</i>	= 3671 ⁰⁰	3671
PROD EQUIP:	=	1000
OTHER:	=	20,000
TOTALS	= 5071 ⁰⁰	\$46,461

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B4287-1
7. Lease Name or Unit Agreement Name West Lovington
8. Well No. 50
9. Pool name or Wildcat West Lovington-Upper San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3923' DF

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL GAS WELL OTHER Injection

2. Name of Operator
Greenhill Petroleum Corporation

3. Address of Operator
16010 Barkers Point, Ste., 325, Houston, TX 77079

4. Well Location
Unit Letter E : 660 Feet From The West Line and 1980 Feet From The North Line
Section 7 Township 17S Range 36E NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: Conversion to injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SICP-1150#-Flowed 5 Bbls. water. PU-5 1/2" AD-1 pkr. & TIH on 141 jts.-2 3/8" IPC tbg. to 4636'. RU pump trk to csg. & circulate 27g.-KW170 pkr. fld mixed in 90 Bbls- fresh water. Set pkr. @ 4636'. Flange up wellhead. Pressure csg. to 540#. Ran chart for 34 mins. Pressure increased to 545#. Released pressure & RD pump trk. Clean location & RDP. Move to LP #72.

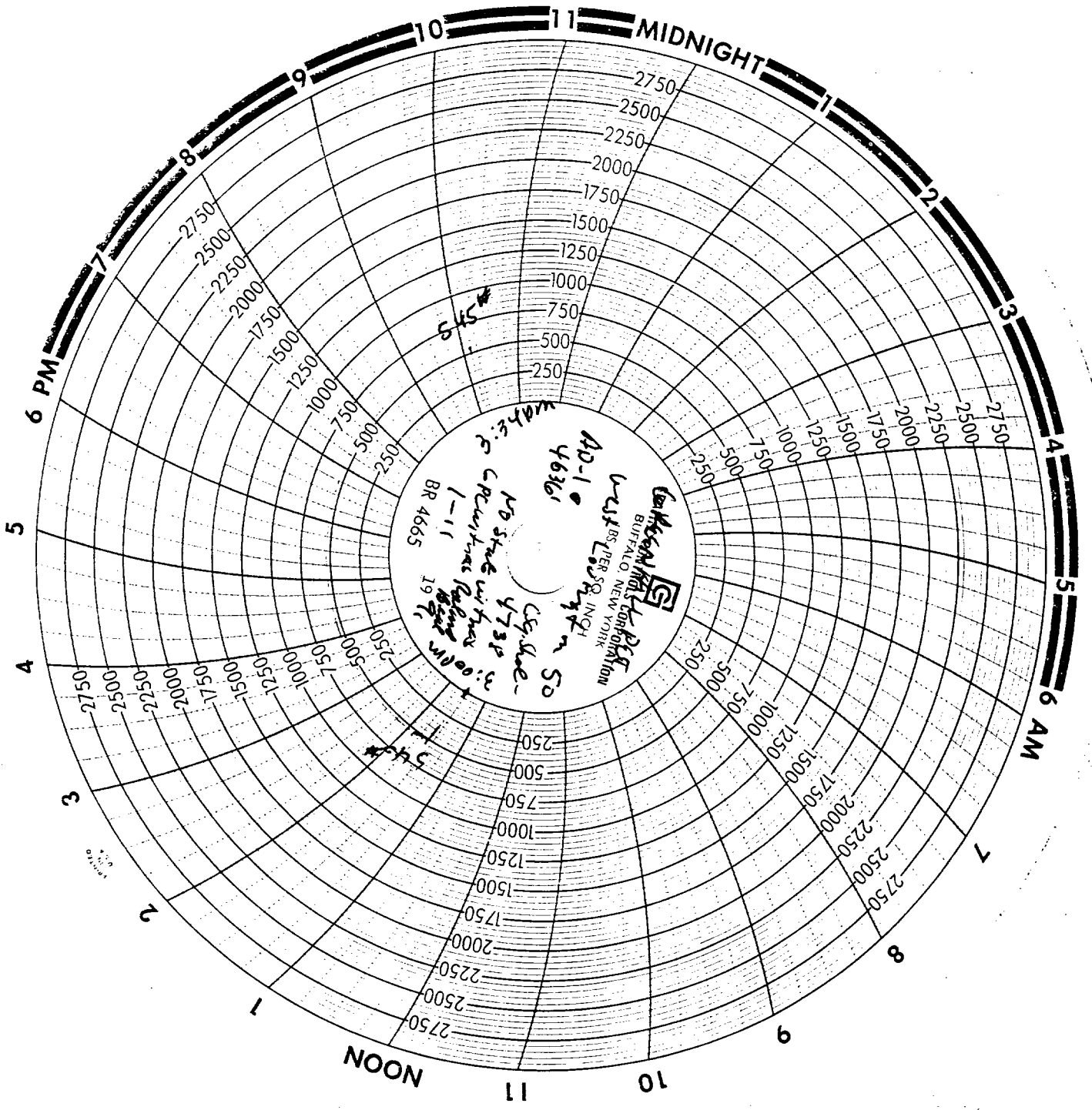
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 1-23-91
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



NOON

6 AM

MIDNIGHT

DAILY WELL WORK REPORT

DATE: 1-11-91 FRI

WELL: WEST LOVINGTON #50

AFE NUMBER: 91143

FIELD: WEST LOVINGTON

AUTHORIZED AMOUNT: 51,000

RESERVOIR: SAN ANTORES

GREENHILL PETROLEUM WI: _____

TD: 5121' PBD: 5094'

WELL TYPE: PROD _____ INJ

TYPE OF WORK: WORKOVER RECOMP _____ NEW COMPL _____

PERFS/O.H.: OH - 4³/₈" - 4738' - 5094'

CURRENT OPERATION: RUN PKR + TEST CSG.

=====
 SICP - 1150[#] - Flowed 5 Bbls. water. PU - 5¹/₂" AD-1 PKR.
 + T1H on 141 jts. - 2³/₈" IPC tbg. to 4636'. RU pump trk
 to csq. + circulate 27q. - KW170 pkr fld. mixed in 90 Bbls -
 fresh water. Set pkr. @ 4636'. Flange up wellhead.
 Pressure csq. to 540[#]. Ran chart for 34 mins. Pressure increased
 to 545[#]. Released pressure + RD pump trk. Clean location +
 RD PU. Move to LP # 72.

Chart included

Chart time - 3:00 PM to 3:34 PM

AD-1 pkr @ 4636'

Csq shoe - 4738'

Inter + Surf. csqs - 0[#]

Tbg. - 0[#]

141 jts. - 2³/₈" IPC tbg.

No state witness

GRC witness - Roland Beal

KW170 pkr fld.

=====
 COST SUMMARY

	DAILY	CUM TOT
RIG: <u>Putlmg Unit - 1100</u>	<u>1100</u>	<u>4465</u>
LOG/PERF:	<u>0</u>	<u>1980</u>
STIM:	<u>0</u>	<u>800</u>
WATER: <u>Pmp + PKR - 400, Vent PKR - 150</u>	<u>550</u>	<u>990</u>
RENTAL TOOLS:	<u>0</u>	<u>2700</u>
TESTING:	<u>0</u>	<u>0</u>
PROD. EQUIP: <u>AD-1 pkr - 800, Wellhead - 375</u>	<u>2001</u>	<u>2001</u>
OTHER: <u>27q - KW170 - 300</u>	<u>300</u>	<u>850</u>
<u>Prod Equip - 4628' - 2³/₈ IPC @ 4.07: TOTALS</u>	<u>21,961</u>	<u>31,796</u>

18836



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
ROBINSON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

'91 JAN 22 AM 10 16

January 15, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Enclosed find three copies of Form C-103 covering Well No. 23.

Sincerely,

Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

WELL API NO. 5. Indicate Type of Lease STATE [X] FEE [] 6. State Oil & Gas Lease No. B4119

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE 'APPLICATION FOR PERMIT' (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: OIL WELL [X] GAS WELL [] OTHER [] 2. Name of Operator Greenhill Petroleum Corporation 3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079 4. Well Location Unit Letter K : 1980 Feet From The South Line and 1980 Feet From The West Line Section 4 Township 17 South Range 36 East NMPM Lea County 10. Elevation (Show whether DF, RKB, RT, GR, etc.)

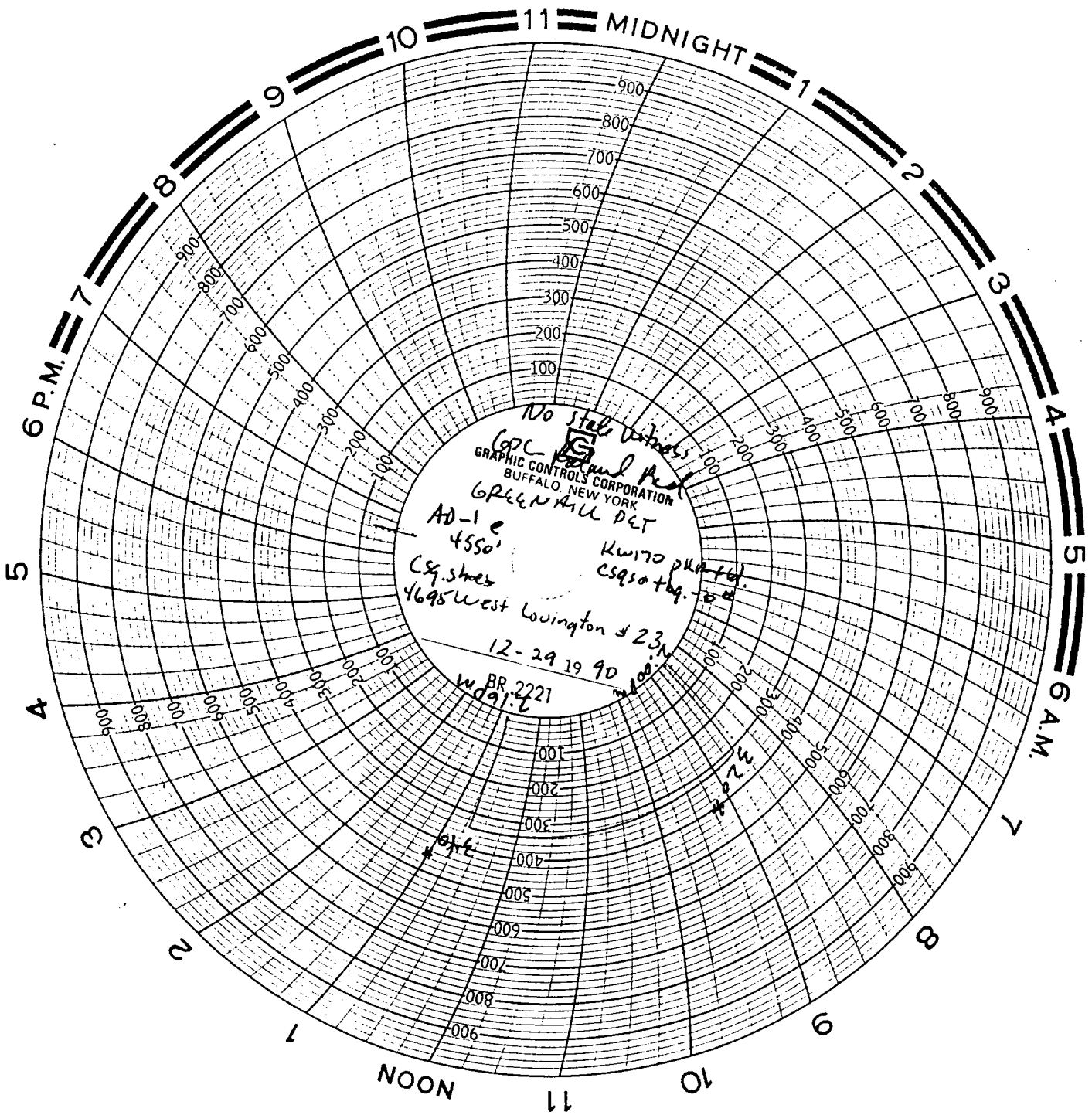
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK [] PLUG AND ABANDON [] TEMPORARILY ABANDON [] CHANGE PLANS [] PULL OR ALTER CASING [] OTHER: [] SUBSEQUENT REPORT OF: REMEDIAL WORK [] ALTERING CASING [] COMMENCE DRILLING OPNS. [] PLUG AND ABANDONMENT [] CASING TEST AND CEMENT JOB [] Conversion to Injection [X] OTHER: []

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

RU pump trk to csg. w/ pkr. set @ 4649'. Pressured up to 500#- would not hold. Released pressure & pkr. & pulled 1 jt. tbg. (141 jts. in hole) set pkr. @ 4616'. Pressured up to 400#-would not hold. Released pressure & pkr. & pulled another jt. Set pkr. @ 4583'(140 jts. in hole). Pressured up to 500#-woul'n't hold. Reisd pressure & pkr. & pulled another jt. Set pkr. @ 4550'(139 jts. in hole). Pressured up to 320#. Ran chart for 16 mins. Pressure increased to 340 #-OK. Reisd. pressure & RD pump trk. SDON.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE [Signature] TITLE Landman DATE 1-10-91 TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO 955-1146

(This space for State Use) APPROVED BY TITLE DATE CONDITIONS OF APPROVAL, IF ANY:



11 MIDNIGHT 1

900
800
700
600
500
400
300
200
100

900
800
700
600
500
400
300
200
100

900
800
700
600
500
400
300
200
100

No steel vertices
GPC Buffalo Dept
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
GREEN HILL DET
AD-1 e
4550
CSq. shoes
4695 West Livingston St 23
12-29 19 90
BR 2221
W 091.6
Kw170 pka tel
CSqsa + hq. 104

320

410

(MJN)

DAILY WELL WORK REPORT

DATE: 12-29 SAT. 12-30 SUN

WELL: WEST LOUNGTON #23

AFE NUMBER: 91124

FIELD: WEST LOUNGTON

AUTHORIZED AMOUNT: 52,100

RESERVOIR: SAN ANDRES

GREENHILL PETROLEUM WI: _____

TD: 5150' PBTD: 5139'

WELL TYPE: PRGD _____ INJ

TYPE OF WORK: WORKOVER RECOMP _____ NEW COMPL _____

PERFS/O.H.: OH - 4 3/4" - 4695' - 5139'

CURRENT OPERATION: TEST PKR/CSC.

=====
 LU pump trk. to csq w/ pkr. set @ 4649'. Pressured up to 500* - would not hold. Released pressure + pkr. + pulled 1jt. tbg. (141jts. in hole) set pkr. @ 4616'. Pressured up to 400* - would not hold. Released pressure + pkr. + pulled another jt. set pkr. @ 4583' (140jts. in hole). Pressured up to 500* - would not hold. Released pressure + pkr. + pulled another jt. set pkr. @ 4550' (139jts. in hole). Pressured up to 320*. Ran chart for 16 mins. Pressure increased to 340* - DIL. Released pressure + RD pump trk. S DON.

* Chart included

Chart time - 2:00 pm to 2:16 pm

AD-1 pkr. @ 4550'

Kw 170 pkr. fld.

Surface + inter. csqs. - 0*

Tbg. - 0*

139jts. - 2 3/8" IPC + tbg.

Csq. shoe - 4695'

No state witness

Gpc witness - Roland Beal

12-30 SUN - NO COST
 S1 DN

=====
COST SUMMARY

	DAILY	CUM TOT
RIG: <u>Pulling Unit - 850</u>	850	4850
LOG/PERF:	0	1380
STIM:	0	860
WATER: <u>Pump trk. - 350</u>	350	825
RENTAL TOOLS:	0	1050
TESTING:	0	0
PROD. EQUIP: <u>139jts - 2 3/8" IPC + tbg - 18,490</u>	18,490	19,835
OTHER:	0	320
TOTALS	19,690	29,120



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
PHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

'91 JAN 22 AM 10 14

January 15, 1991

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: Lovington San Andres
Well No. 49
Lea County, NM

Enclosed please find Form C-103 covering Well No. 49 in the Lovington San Andres Unit.

Sincerely,

Michael J. Newport
Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-3009
7. Lease Name or Unit Agreement Name Lovington San Andres Unit
8. Well No. 49
9. Pool name or Wildcat Lovington Grayburg-San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection
2. Name of Operator Greenhill Petroleum Corporation
3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079
4. Well Location Unit Letter <u>I</u> ; <u>1980</u> Feet From The <u>South</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>1</u> Township <u>17 South</u> Range <u>36 East</u> NMPM Lea County
10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: <u>Run pkr., circ. pkr. fld. returned</u> <input checked="" type="checkbox"/>	
		<u>well to active injection</u>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SITP-170#-15 Hrs. Well flowing back 5 Bbls/hr. PU-7"AD-1 pkr & TIH on 2 3/8"- Rice Duoline 10 (PVC). tbg. (140 jts) to 4429'. Removed BOP. Flanged up. RU pump trk. to csg. Circulated 55g.-KW 170 pkr fld. mixed in 130 Bbls. fresh water. Set AD-1 pkr. @ 4429'. Pressured up on csg. to 495#. Ran 30 min. chart. Pressure bled to 475#. Released pressure & RD pump trk. Clean location. RD pulling unit. Move to W.L. #23. Will install well cartridge housing & filter & put on injection.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 1-15-91

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

DAILY WELL WORK REPORT

DATE: 12-20 THURS
 WELL: LIVINGSTON SAN ANDRES #49 AFE NUMBER: 91176
 FIELD: LIVINGSTON SAN ANDRES AUTHORIZED AMOUNT: _____
 RESERVOIR: SAN ANDRES GREENHILL PETROLEUM WI: _____
 TD: 4955' PBD: 5017'-Tbq (5037'-W.L.) WELL TYPE: PROD _____ INJ
 TYPE OF WORK: WORKOVER RECOMP _____ NEW COMPL _____
 PERFS/O.H.: 6 1/8" OH - 4554' - 5017'

CURRENT OPERATION: RUN PKR, CIRCULATE PKR Fld, RUN CHART.

SITP - 170# - 15 HRS Well flowing back 5 Bbls./HR.
 PU - 7" AD-1 PKR. + THT on 2 3/8" - Rice Duoline 10 (PUC).
 tbq (140 jts.) to 4429'. Removed BOP. Flanged up.
 RU pump trk. to csq. Circulated 55g - KW 170 PKR
 fld. mixed in 130 Bbls. fresh water. Set AD-1 PKR.
 @ 4429'. Pressured up on csq. to 495#. Ran 30 min.
 chart. Pressure bled to 475#. Released pressure +
 RD pump trk. Clean location. RD pulling unit.
 Move to W.L. #23. Will install well cartridge
 housing + filter + put on injection.

* Chart included

Chart time - 1:30 to 2:01 PM

Tbq. - 0# - open

Surface + Inter. csq. - 0#

AD-1 PKR. @ 4429'

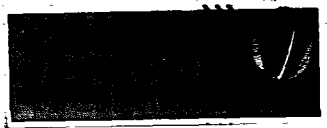
KW 170 PKR Fld.

No State witness

Git P witness - Roland Beal

COST SUMMARY

	DAILY	CUM TOT
RIG: Pulling Unit - 950	950	20805
LOG/PERF:	0	3790
STIM:	0	1061
WATER: Pump trk - 375, Vac. trk - pits - 300	675	1595
RENTAL TOOLS:	0	18300
TESTING:	0	0
PROD. EQUIP: AD-1 PKR - 1050, valves - 100	1700	1700
OTHER: Rice tech. to run tbq. - 400, KW 170 - 500	900	4995
P.E. - 4 jts. + tbq. - 550		
TOTALS	4225	52246



12/31/90

RECEIVED

JAN - 8 1991

CAMPBELL & BLACK

Campbell & Black P.A.

William F Carr

RE Greenhill expansion Lea Co NY

Dear Mr Black, Campbell, Carr

In regards to your letter of December 6, 1990 letter to Mrs Rice at the present time we are residing in Pennsylvania. We are senior citizens and will in no way be able to be in Santa Fe, January 10th 1991. We were not notified of the Nov 28 1990 meeting.

We are certainly directly affected by the above expansion and are worried that the operations will have detrimental effect on future generations. There are already several environmental situations in the area which are not being addressed and we are afraid of more. We can see what the Coal Barons did to the State of Pennsylvania and are afraid the oil Barons will do same to Lea Co.

Very truly yours
C. Robert Rice
Rebecca Caylor Rice

1/2 Section 6 T175 R37E



Dec 31 1990

Eddie Seay
New Mexico Oil Division
1000 West Broadway
Hobbs, New Mexico

Dear Eddie,

I am enclosing a copy of a letter I have sent to Greenhill attorney Mr. Carr in regards to their expansion of Sun Andres and Tovington Paddock waterflood.

We certainly oppose any expansion of the waterflood as previous operations performed do not seem to have increased production in any relation to the damage caused.

We understand there will be a hearing January 10, 1991. We unfortunately will be unable to attend as we presume will be in Santa Fe. We were never notified of the Nov 28, 1990 meeting.

Very truly yours
Robert Rice

Rebecca Taylor Rice

enclosure

letter to Wm F Carr

MR. & MRS ROBERT RICE
RD. 3 BOX 2254
BIRDSBORO, PA. 19508

CERTIFIED
P 423 675 596
MAIL



U.S. POSTAGE
2.00

Campbell + Black P.A. C/A
William F Carr 1-8-91
Jefferson Place Suite 1
110 North Guadalupe
P.O. Box 2208
Santa Fe NM 87504-2208



Tipperary

CORPORATION

First Interstate Tower North
633 Seventeenth Street
Suite 1550
Denver, Colorado 80202

OIL CONSERVATION
DIVISION
DEC
'90 DEC 31 AM 9 16

*Doc
Case File-
10/54*

December 28, 1990

Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Att: William J. Lemay

Re: Conversion Request of Greenhill Petroleum Corporation
Lovington San Andres
Lea County, NM

Dear Mr. Lemay:

Tipperary Corporation is objecting to the Greenhill Petroleum Corporation's application to convert their Lovington San Andres Unit Well No. 7 to a water injection well. This conversion has the potential to affect our Monsanto State No. 1 well, which is located 660 FSL and 1980 FEL Section 30, T-16S-R37E. This well is exactly 2640 feet from the Greenhill well No. 7.


Our objection is based upon the concern that water injection into the San Andres will ultimately lead to movement of water through the formation, which will effect our Monsanto State No. 1 well. This movement of water will increase the effects of both corrosion and pressure on the production string in our wellbore at the San Andres interval. This could eventually lead to holes in the casing and collapse of the casing in the wellbore. If this should occur it would cause substantial damages to Tipperary in the cost to restore the well to a producing status. Tipperary has completed this well in total compliance with all applicable Division regulations and has maintained it under these same regulations. It would be objectionable, at this time, to allow Greenhill Petroleum to infringe upon Tipperary's rights to produce the total hydrocarbon reserve potential from this completion. Therefore, we would request that Greenhill Petroleum be denied permission to convert their Lovington San Andres Unit Well No. 7 to a water injector well.

But if this application is approved we believe that Greenhill should be responsible for any future damages that might occur to Tipperary because of Greenhill's injection of water into the San Andres formation within such a close proximity to our currently producing Monsanto State No. 1 well.

William J. Lemay
December 28, 1990
Page Two

I appreciate the opportunity to put forth our objections and will look forward to your decision in this matter.

Sincerely,



Mark Amershek
Engineering/Production Analyst

cc: William Carr
Michael Newport
Carter Mathies
Don Sparks



GREENHILL PETROLEUM CORPORATION

OIL CONSERVATION DIVISION
HOUSTON, TEXAS

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

'90 DEC 28 AM 9 03

December 26, 1990

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: West Lovington Unit
Well Nos. 48, 11 and 13
Lea County, NM

Enclosed please find (3) three copies of Form C-103 covering Well Nos. 48, 11 and 13.

Sincerely,

Michael J. Newport ^{JB}

Michael J. Newport
Landman

MJN:jb

Enclosures

cc: Mike Stogner/Santa Fe

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B4286
7. Lease Name or Unit Agreement Name West Lovington Unit
8. Well No. 13
9. Pool name or Wildcat Lovington San Andres West
10. Elevation (Show whether DF, RKB, RT, GR, etc.)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL GAS WELL OTHER Injection

2. Name of Operator
GPC

3. Address of Operator
16010 Barkers Point, Ste., 325, Houston, TX 77079

4. Well Location
Unit Letter F : 1980 Feet From The West Line and 1980 Feet From The North Line
Section 4 Township 17 South Range 36 East NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

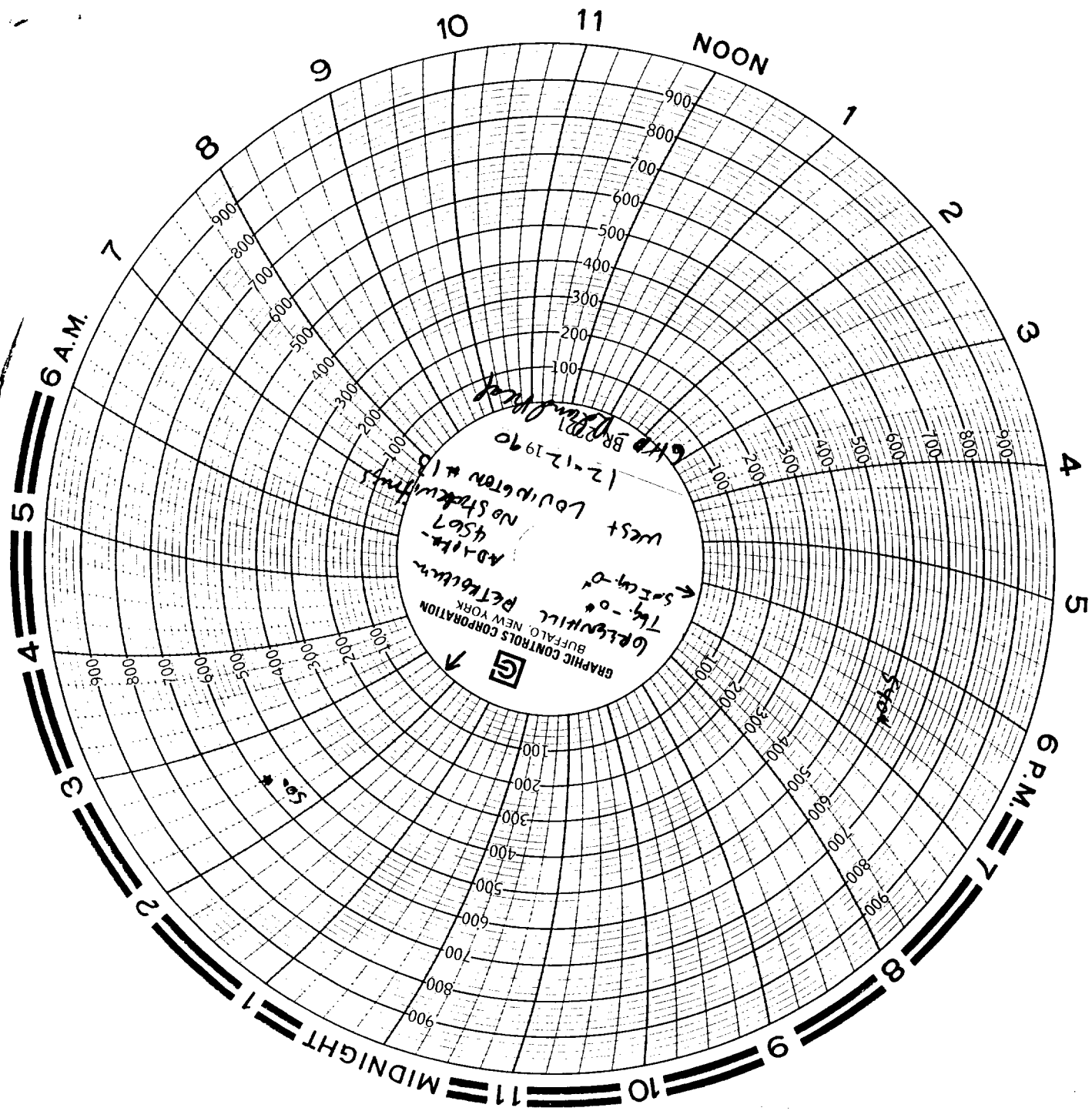
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: Conversion to Injection <input checked="" type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Remove BOP. Flanged up. RU pump trk to csg. & circulated 27 g.-KW170 pkr fld. mixed in 95 Bbls.-fresh H O. Set pkr & pressured up on csg. to 540#-leaked to 500#
2
in 30 min. - OK. Ran chart. RD pump trk. SION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNATURE Richard Newport TITLE Landman DATE 12-19-90
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



DAILY WELL WORK REPORT

DATE: 12-12 WED
 WELL: WEST LOUINGTON #13 AFE NUMBER: 53161
 FIELD: WEST LOUINGTON AUTHORIZED AMOUNT: 54,000
 RESERVOIR: SAN ANDRES GREENHILL PETROLEUM WI:
 TD: 5183' PBTD: 5135'-Tbg (5114'-w.L.) WELL TYPE: PROD INJ ✓
 TYPE OF WORK: WORKOVER ✓ RECOMP NEW COMPL
 PERFS/O.H.: 4 3/4" OH - 4710' - 5135'
 CURRENT OPERATION: PUN PKR + TEST.

SITP - 0# - 13 HRS.
 Pu 4 3/4" bit, 2-3 1/2" drill collar, + THT on 2 3/8" w.s. tbg.
 Tagged up @ 5128' - 7' of fill - OK. (5107' - w.L.) PoolH
 w/ 4 3/4" bit, 2-3 1/2" drill collar, + 2 3/8" w.s. tbg. laying
 down. Pu 5 1/2" - 14# AD-1 PKR + THT on 139 jts. - 2 3/8" -
 new IPC tbg. to 4567'. Remove BOP. Flanged up. RU
 pump trk to csq. + circulated 27g - Kw170 PKR fld.
 mixed in 95 Bbls. - fresh H₂O. Set PKR. + pressured
 up on csq. to 540# - Leaked to 500# in 30 mins. - OK
 Ran chart. RD pump trk. SLOW.

Chart included
 Chart time - 6:30 pm to 7:00 pm
 Tbg - open - 0#
 Surface + inter. csq. - 0#
 AD-1 PKR @ 4567'
 139 jts - 2 3/8" IPC tbg.
 Kw170 PKR fld.
 No state witness
 GHP witness - Roland Beal

COST SUMMARY

	DAILY	CUM TOT
RIG: <u>Pulling Unit - 1560</u>	= 1560	7360
LOG/PERF:	= 0	7400
STIM:	= 0	950
WATER: <u>Pump trk - 375, Vac. trk - empty pit - 200</u>	= 575	925
RENTAL TOOLS:	= 0	5350
TESTING:	= 0	0
PROD. EQUIP: <u>139 jts. - 2 3/8" IPC tbg. - 18468</u>	= 19393	19393
OTHER: <u>27g - Kw170 - 290</u>	= 290	840
<u>P.E. - PKR - 925</u>		
TOTALS =	21,818	42,718

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.
B7016

7. Lease Name or Unit Agreement Name

West Lovington Unit

8. Well No.
48

9. Pool name or Wildcat
Lovington San Andres West

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL GAS WELL OTHER Injection

2. Name of Operator
GPC

3. Address of Operator
16010 Barkers Point, Ste., 325, Houston, TX 77079

4. Well Location
Unit Letter C : 1980 Feet From The West Line and 660 Feet From The North Line

Section 9 Township 17 South Range 36 East NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: Conversion to Injection <input checked="" type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran new Baker AD-1 pkr on 140 Jts new 2 3/8" IPC tbg. into 4565'. Circulated pkr fluid. Set pkr & pulled 24 pts tension on pkr. Press tested pkr & csg. to-300#. Held OK. RDMO

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 12-19-90

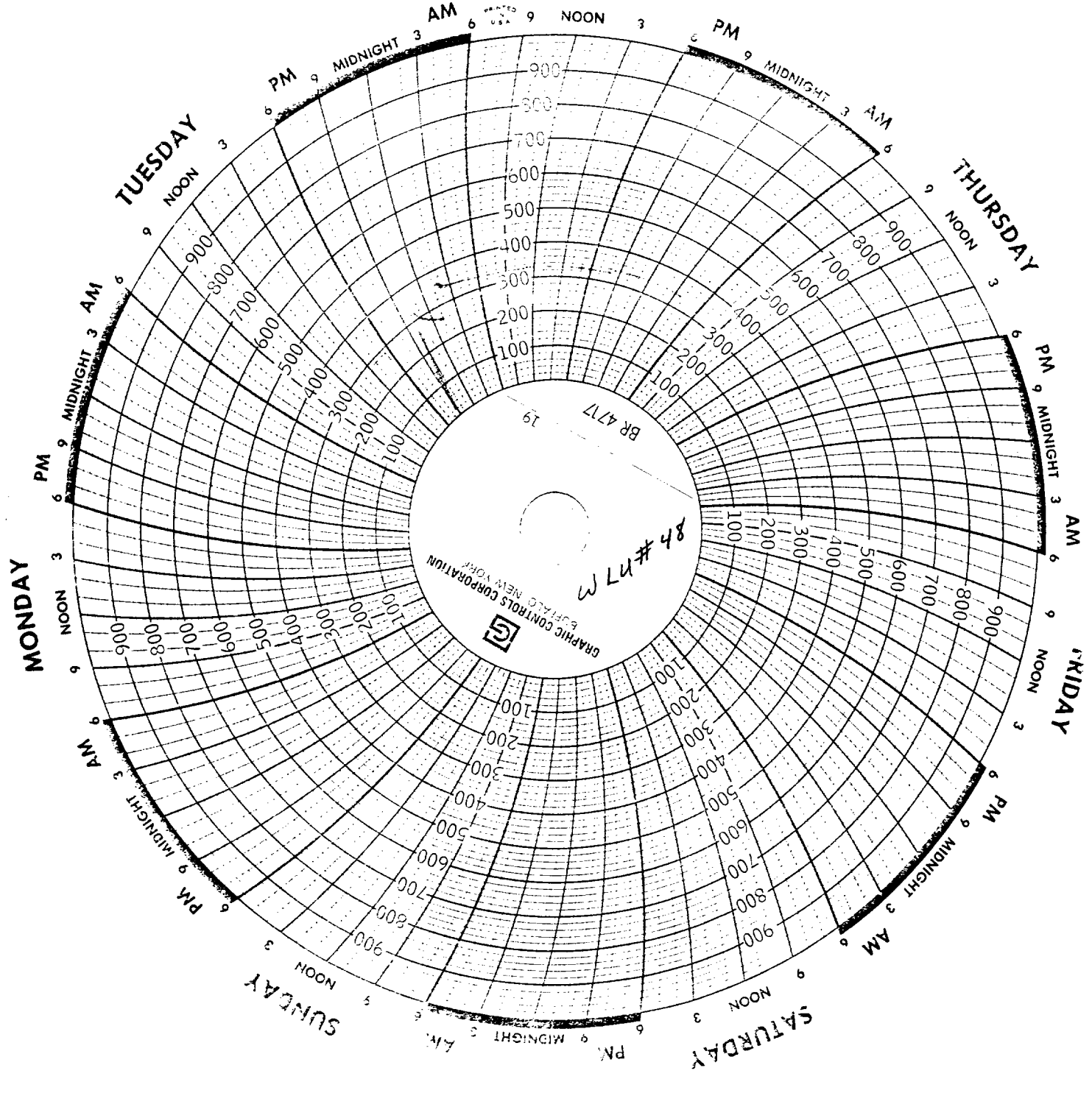
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

WEDNESDAY



PRINTED IN USA

DAILY WELL WORK REPORT

DATE: 12/3/90

WELL: West Lov Unit #48

AFE NUMBER: 53071

FIELD: West Lov

AUTHORIZED AMOUNT: \$51,600

RESERVOIR: San Andres

GREENHILL PETROLEUM WI: _____

TD: _____ PBSD: _____

WELL TYPE: PROD _____ INJ _____

TYPE OF WORK: WORKOVER _____ RECOMP _____ NEW COMPL _____

PERFS/O.H.: _____

CURRENT OPERATION: _____

=====
 Ran new Baker AD-1 pkr on 140 Jts new 2 3/8" FPC
 strg dn to 4565'. Circulated pkr fluid. Set pkr +
 pulled 24 jts tension on pkr. Press tested pkr +
 csg to 300#. Held OK. RDmo

AD-1-Pkr set @ 4565'
 Surface Csg 13" set @ 303'
 Intermediate 8 5/8" set @ 1972'
 Production Csg 5 1/2" x 14# set @ 4678
 OH from 4678 to 5100'

COST SUMMARY		DAILY	CUM TOT
RIG:	=	1000 ⁰⁰	5200
LOG/PERF:	=		2000
STIM:	=		1000
WATER:	=	800 ⁰⁰	2600
RENTAL TOOLS:	=		400
TESTING:	=		
PROD EQUIP:	=		1000
OTHER:	=		
TOTALS =		1800 ⁰⁰	15,900

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B4286

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection

7. Lease Name or Unit Agreement Name West Lovington Unit

2. Name of Operator GPC

8. Well No. 11

3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079

9. Pool name or Wildcat Lovington San Andres West
--

4. Well Location Unit Letter <u>H</u> : <u>660</u> Feet From The <u>East</u> Line and <u>1980</u> Feet From The <u>North</u> Line Section <u>5</u> Township <u>17 South</u> Range <u>36 East</u> NMPM Lea County
--

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
--

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>
OTHER: <input type="checkbox"/>
SUBSEQUENT REPORT OF:
REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: Conversion to Injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Finished POH w/bit & 2 3/8" workstring. Ran Baker AD-1 on 142 Jts. 2 3/8" IPC new tbg. into 4626'. Circulated pkr fld. Set pkr & pulled 18 pts tension into pkr. Press tested tbg. @ 400#. Held OK

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

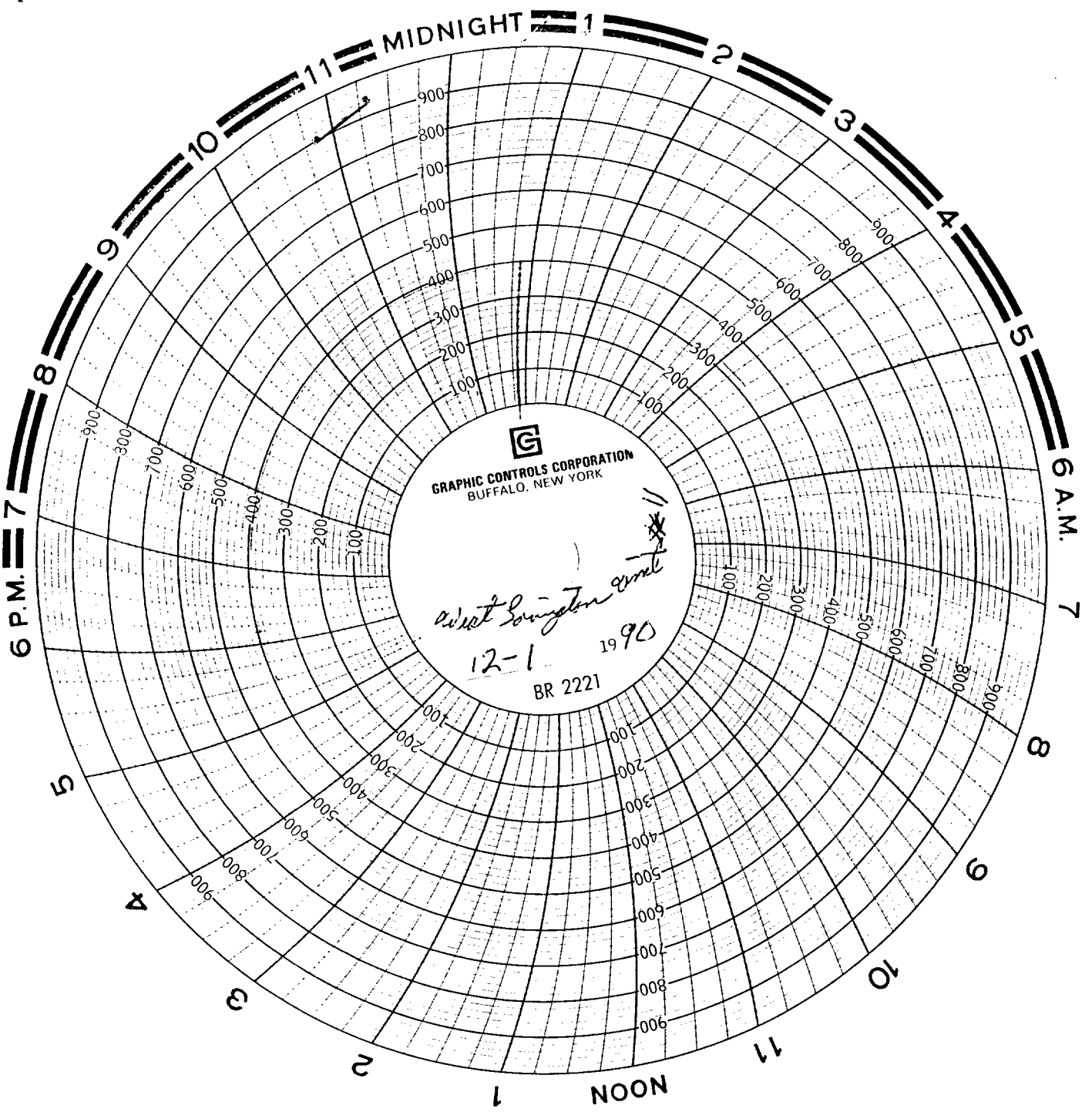
SIGNATURE Michael Newport TITLE Landman DATE 12-19-90

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

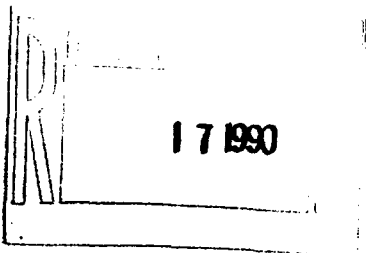


G
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

Walter Livingston

12-1 1990

BR 2221



DAILY WELL WORK REPORT

DATE: 12/1/90

WELL: West Lov Unit # 11

AFE NUMBER: 53171

FIELD: West Lov.

AUTHORIZED AMOUNT: _____

RESERVOIR: San Andres

GREENHILL PETROLEUM WI: _____

TD: _____ PBD: _____

WELL TYPE: PROD _____ INJ X

TYPE OF WORK: WORKOVER _____ RECOMP _____ NEW COMPL _____

PERFS/O.H.: _____

CURRENT OPERATION: _____

Finished POH w/ bit + 2 3/8" workstring. Ran Baker AD-1 on 142 Jts 2 3/8" IPC new string dn to 4626'. Circulated pkr fluid. Set pkr + pulled 18 jts tension into pkr. Press tested string @ 400#. Held OK.

Surface Csg 13 3/8" set @ 330'
Intermediate Csg 8 5/8" set @ 1980'
Production Csg set @ 4740' - 5 1/2" x 14#
OH from 4740' - 5115'
Baker AD-1 pkr set @ 4626'.

COST SUMMARY

	DAILY	CUM TOT
RIG:	1400 ⁰⁰	4300
LOG/PERF:		1500
STIM:		1000
WATER:	800 ⁰⁰	1300
RENTAL TOOLS:		3100
TESTING:		-
PROD EQUIP:	600 ⁰⁰	600
OTHER: <i>Replaced wellhead</i>		
<i>Injection string</i>	20,000	20,000
TOTALS	22800	31,800



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

December 13, 1990

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: West Lovington
Well No. 49
Lea County, NM

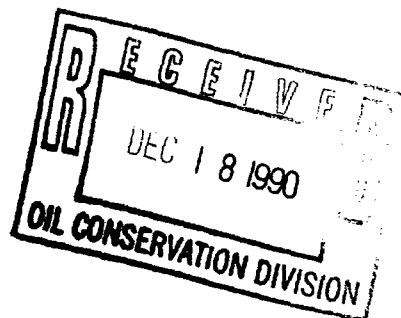
Enclosed please find three (3) copies of Form C-103 covering the work performed on Well No. 49.

Sincerely,

Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe



Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B7016

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name West Lovington Unit

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection

8. Well No. 49

2. Name of Operator GPC

9. Pool name or Wildcat Lovington San Andres Unit
--

3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079

4. Well Location Unit Letter B : 660 Feet From The North Line and 1980 Feet From The East Line Section 9 Township 17 South Range 36 East NMPM Lea County
--

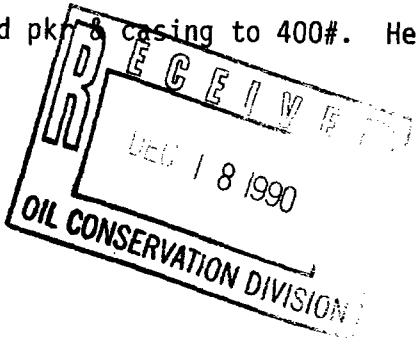
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3866 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	Returned well to active injection <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Pulled tension on pkr from 18 pts. Press tested pkr casing to 400#. Held OK RDMO



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael Newport TITLE Landman DATE 12-13-90

TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Wednesday DAILY WELL WORK REPORT

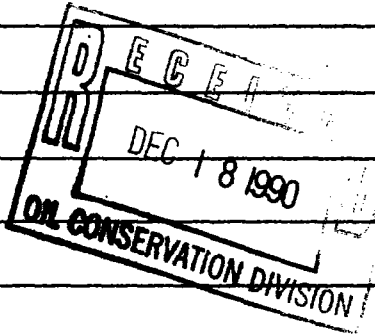
DATE: 11/28/90
 WELL: West Low Unit #49 AFE NUMBER: 53611
 FIELD: West Low AUTHORIZED AMOUNT: _____
 RESERVOIR: San Andres GREENHILL PETROLEUM WI: _____
 TD: _____ PBDT: _____ WELL TYPE: PROD _____ INJ X
 TYPE OF WORK: WORKOVER X RECOMP _____ NEW COMPL _____
 PERFS/O.H.: _____

CURRENT OPERATION: _____

=====

Pulled tension on pkr from 18pts to 24pts. Press tested pkr + csq to 400#. Held OK. RDMO.

Surface Csg. 10 3/4" set @ 315'
Intermediate 7 5/8" set @ 1980'
Production 5 1/2" set @ 5162'
Baker AD-1 pkr set @ 4665'



COST SUMMARY	DAILY	CUM TOT
RIG:	= 1100	6600
LOG/PERF:	=	
STIM:	=	6368
WATER:	= 600	2900
RENTAL TOOLS:	=	2800
TESTING:	=	-
PROD. EQUIP:	=	1600
OTHER:	=	
TOTALS	= 1700	\$19657.46

CAMPBELL & BLACK, P.A.

LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY
ANNIE-LAURIE COOGAN

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

December 12, 1990

HAND-DELIVERED

RECEIVED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

DEC 12 1990

OIL CONSERVATION DIV.
SANTA FE

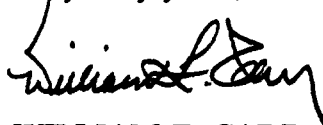
Re: Oil Conservation Division Case No. 10154
In the Matter of the Application of Greenhill Petroleum Corporation for
Waterflood Expansion, Lea County, New Mexico

Dear Mr. LeMay:

Greenhill Petroleum Corporation hereby requests that the above-referenced case be continued to the Examiner hearings scheduled for January 10, 1991.

Your attention to this request is appreciated.

Very truly yours,



WILLIAM F. CARR

WFC:mlh

cc: Mr. Mike Newport
Greenhill Petroleum Corporation

CAMPBELL & BLACK, P.A.

LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY
ANNIE-LAURIE COOGAN

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

December 11, 1990

HAND-DELIVERED

RECEIVED

Mr. David R. Catanach
Deputy Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

DEC 11 1990

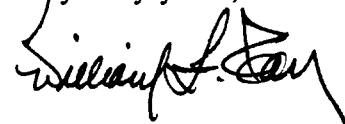
OIL CONSERVATION DIV.
SANTA FE

Re: Oil Conservation Division Case No. 10154
Application of Greenhill Petroleum Corporation for Waterflood Expansion,
Lea County, New Mexico

Dear Mr. Catanach:

Pursuant to your request, enclosed please find the proposed Order of the Division which I have prepared on behalf of Greenhill Petroleum Corporation.

Very truly yours,



WILLIAM F. CARR

WFC:mlh

cc w/enc.: Mr. Mike Newport

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION FOR THE PURPOSE OF
CONSIDERING:

RECEIVED

DEC 11 1990

OIL CONSERVATION DIV.
SANTA FE

CASE NO. 10154

ORDER NO. R-_____

APPLICATION OF GREENHILL PETROLEUM
CORPORATION FOR WATERFLOOD EXPANSION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

This cause came on for hearing at 8:15 a.m. on November 14, 1990, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this ___ day of December, 1990, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Greenhill Petroleum Corporation, seeks authority to expand the Lovington San Andres Unit Waterflood Project by converting the wells shown on Exhibit A to injection in the San Andres formation underlying portions of Townships 16 and 17 South, Ranges 36 and 37 East, Lovington - San Andres Pool, Lea County, New Mexico.

(3) The Lovington Sand Andres Unit Waterflood Project was approved by Division Order No. R-2278 and the project area is currently comprised of the following described acreage in Lea County, New Mexico:

TOWNSHIP 16 SOUTH, RANGE 36 EAST, N.M.P.M.

Section 25: S/2 SE/4
Section 35: S/2 SE/4
Section 36: E/2, E/2 NW/4 and SW/4

TOWNSHIP 16 SOUTH, RANGE 37 EAST, N.M.P.M.

Section 31: Lots 1, 2, 3, 4, SE/4 NW/4, E/2 SW/4, SW/4 NE/4, and SE/4
Section 32: W/2 SW/4

TOWNSHIP 17 SOUTH, RANGE 36 EAST, N.M.P.M.

Section 1: Lots 1, 2, 3, 4, S/2 N/2, SE/4, N/2 SW/4, and SE/4 SW/4
Section 2: Lots 1, 2, S/2 NE/4, and N/2 SE/4

TOWNSHIP 17 SOUTH, RANGE 37 EAST, N.M.P.M.

Section 5: Lot 4
Section 6: Lots 1, 2, 3, 4, 5, 6 and SE/4 NW/4

(4) The wells in the project area have been subject to extensive secondary recovery operations and are now in an advanced state of depletion and should be classified as "stripper" wells.

(5) The proposed expansion of the Lovington-San Andres Unit Waterflood Project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) The applicant should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(7) The applicant assumed operation of the subject waterflood project in December, 1989.

(8) No pressure limitation had been imposed by the Division on this older project and the former operator had been injecting water in project wells at pressures of up to 1,900 psi at the surface.

~~(9)~~ The applicant proposes to gradually reduce the pressure on the existing injection wells to approximately that of the proposed new injection wells.

(10) The pressure on the proposed new injection wells should be limited at the surface to no more than 0.2 psi per foot of depth to the top of the perforations, or in the case of open hole completions, the casing shoe.

(11) The Division Director should have the authority to increase such pressure limitation upon at least a representative showing that said pressure increase would not result in the fracturing of the confining strata.

(12) At the time of the hearing, particular wells located within the Area of Review (one-half mile) of one or more of the proposed new injection wells were identified as problem wells or possible problem wells because they were either not plugged or completed in such a manner as to assure that such wells could not serve as conduits for escape of injected fluid from the San Andres formation.

(13) At the time of the hearing, other wells in the Area of Review were identified which appear to be cemented above the injection interval but which may not be cemented to a height above the injection interval as to meet current Division requirements.

(14) Those wells referenced in Finding No. (12) and (13) above are identified on Exhibit B attached to this order.

(15) Prior to commencing injection into any proposed new injection well within one-half mile of any well identified on said Exhibit B, such steps as may be required by the Supervisor of the Division's Hobbs district should be taken to assure that any such well shall not serve as a conduit for migration of injected fluids from the injection interval.

(16) An administrative procedure should be approved whereby applicant may convert additional wells to injection at orthodox or unorthodox locations without the necessity for further hearings.

(17) The subject waterflood project, as expanded, should be governed by the provisions of Rules 701 through 708 of the Oil Conservation Division Rules and Regulations.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Greenhill Petroleum Corporation, is hereby authorized to expand its Lovington San Andres Unit Waterflood Project, by the injection of water into the San Andres formation through the proposed additional injection wells shown on Exhibit A attached to this order.

(2) The project area is comprised of the following described acreage in Lea County, New Mexico:

TOWNSHIP 16 SOUTH, RANGE 36 EAST, N.M.P.M.

Section 25: S/2 SE/4
Section 35: S/2 SE/4
Section 36: E/2, E/2 NW/4 and SW/4

TOWNSHIP 16 SOUTH, RANGE 37 EAST, N.M.P.M.

Section 31: Lots 1, 2, 3, 4, SE/4 NW/4, E/2 SW/4, SW/4 NE/4, and SE/4
Section 32: W/2 SW/4

TOWNSHIP 17 SOUTH, RANGE 36 EAST, N.M.P.M.

Section 1: Lots 1, 2, 3, 4, S/2 N/2, SE/4, N/2 SW/4, and SE/4 SW/4
Section 2: Lots 1, 2, S/2 NE/4, and N/2 SE/4

TOWNSHIP 17 SOUTH, RANGE 37 EAST, N.M.P.M.

Section 5: Lot 4
Section 6: Lots 1, 2, 3, 4, 5, 6 and SE/4 NW/4

(3) The injection wells herein authorized and/or the injection pressurization system serving such wells shall be so equipped as to limit injection pressure at the well head to no more than 0.2 psi per foot of depth to the top of the perforations, or in the case of an open hole completion, the casing shoe, provided however, the Division Director may authorize a higher surface injection pressure upon a representative and satisfactory showing that such higher pressure will not result in fracturing of the injection formation or confining strata.

(4) Injection into each injection well shall be through plastic or cement lined tubing, set in a packer which shall be located as near as practicable to the uppermost perforations or, in the case of open hole completions, the casing shoe; the casing-tubing annulus shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.

(5) Prior to commencing injection operations into any of the wells shown on Exhibit A, the applicant shall pressure-test the casing in the subject wells from the surface to the packer - setting depth to assure the integrity of said casing.

(6) Prior to commencing injection into any well authorized by this order which well is located within one-half mile of any well identified on Exhibit B attached to this order, such steps as may be required by the Supervisor of the Division's Hobbs district shall be taken to assure that any such well shall not serve as a conduit for migration of injected fluids from the injection interval.

(7) The applicant shall notify the Supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment, mechanical integrity tests, and of its workover operations on any well identified on Exhibit B attached to this order in order that said operations may be witnessed.

(8) The applicant shall immediately notify the Supervisor of the Hobbs district office of the Division of the failure of the tubing or packer in any of the injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from any plugged and abandoned wells within the project area, and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(9) The subject waterflood project, as expanded, shall be governed by the provisions of Rules 701 through 708 of the Division's Rules and Regulations.

PROVIDED HOWEVER, that the Division Director may approve the drilling ~~of~~ ^{or} conversion of additional water injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern; provided said wells are drilled no closer than 330 feet to the outer boundary of said unit waterflood project area nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided further, that the application therefore has been filed in accordance with Rule 701 B of the Division's Rules and Regulations.

CASE NO. 10154
ORDER NO. R- _____
Page 6

(10) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

WILLIAM J. LEMAY
Director

S E A L

EXHIBIT A

Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#3	660' FNL & 1980' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#5	660' FNL & 600' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#10	1980' FNL & 1980' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#12	1980' FSL & 1980' FWL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#13	1760' FSL & 440' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#25	660' FSL & 1980' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 36 TI6S R36E	#57	660' FSL & 660' FWL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 31 TI6S R37E	#7	1980' FNL & 1980' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 31 TI6S R37E	#15	1650' FSL & 1650' FWL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 31 TI6S R37E	#17	1980' FSL & 990' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 31 TI6S R37E	#58	2310' FNL & 990' FWL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 1 TI7S R36E	#31	660' FNL & 1980' FWL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 1 TI7S R36E	#43	1980' FNL & 660' FWL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 1 TI7S R36E	#40	1980' FNL & 660' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 2 TI7S R36E	#45	1980' FNL & 1980' FEL
Greenhill Petroleum Corporation	Lovington San Andres Unit Sec. 6 TI7S R37E	#35	339' FNL & 1890' FWL

EXHIBIT A (continued)

Greenhill Petroleum Corporation	Lovington San Andres Unit	#37	330' FNL & 990' FEL
	Sec. 6 T17S R37E		

Greenhill Petroleum Corporation	Lovington San Andres Unit	#39	1985' FNL & 616' FWL
	Sec. 6 T17S R37E		

EXHIBIT B

INADEQUATELY PLUGGED AND ABANDONED WELLS

Operator	Lease	Well No.	Location	Sec-Twp-Rge
Tidewater Associated Oil Co.	H.T. Monteith	#1	1650 S 2335 W	25-16-36
Phillips Petroleum Corp.	Lovington	#1	1980 S 660 E (est.)	35-16-36
Getty Oil Co.	State "M"	#3	1650 S 1650 E	36-16-36
Cities Service	State AE	#2	3630 N 4290 E	36-16-36
Getty Oil Co.	State "M"	#2	1650 S 330 E	36-16-36
Getty Oil Co.	State "P"	#5	330 S 330 W	32-16-37

REPLUGGING WILL NOT BE REQUIRED IF A SURVEY DEMONSTRATES THAT THIS WELL IS OUTSIDE THE AREA OF REVIEW

Operator	Lease	Well No.	Location	Sec-Twp-Rge
Magnolia Petroleum Co.	State "R"	#3	660 N 660 E	2-17-36

EXHIBIT B (Continued)

WELLS WITH CEMENT ON THE LONG STRING OF CASING WELL BELOW THE TOP OF THE SAN ANDRES FORMATION

Operator	Lease	Well No.	Location	Sec-Twp-Rge
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#7	330 E 330 S	25-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#13	880 N 330 W	36-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#29	2130 S 2130 W	36-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#41	810 S 2130 W	36-16-36
Penroc	State AE	#1	330 S 990 W	36-16-36
Texaco Producing Inc.	State P	#3	800 S 330 W	32-16-37
Amerada Hess	State L "A"	#8	560 N 660 E	1-17-36
Amerada Hess	State L "A"	#9	660 N 1880 E	1-17-36
Amerada Hess	State L "A"	#10	1650 N 660 E	1-17-36
Amerada Hess	State L "A"	#11	1650 N 1980 E	1-17-36
Amerada Hess	State L "A"	#12	2310 S 2310 W	1-17-36
Penroc	State "E" TR 18	#17	1650 N 2310 W	1-17-36
Penroc	State "E" TR 18	#19	1650 N 990 W	1-17-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#57	1980 N 695 E	1-17-36

EXHIBIT B (Continued)

**WELLS WHICH MAY NOT BE CEMENTED FAR ENOUGH ABOVE THE TOP OF THE SAN ANDRES FORMATION
TO MEET DIVISION REQUIREMENTS**

Operator	Lease	Well No.	Location	Sec-Twp-Rge
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#18	2310 N 330 E	35-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#32	1750 S 1650 E	36-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#39	810 S 660 E	36-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#40	810 S 1980 E	36-16-36
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#10	660 N 2440 E	31-16-37
Texaco Producing Inc.	State P	#4	1650 N 990 W	31-16-37
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#50	660 N 902 W	6-17-37
Greenhill Petroleum Corp.	Lovington Paddock Ut.	#67	2310 S 660 W	6-17-37



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

CONSERVATION DIVISION

'90 DEC 10 AM 9 46

Incorporated in Delaware, U.S.A.

December 6, 1990

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: [REDACTED]
Well No. [REDACTED]
Lea County, NM

Enclosed find three copies of Form C-103 covering the work performed on Well No. 40.

Sincerely,

Michael J. Newport
Michael J. Newport
Landman

MJN:jb
Enclosure

cc: Mike Stogner/Santa Fe

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No. B1287

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name

West Lovington Unit

1. Type of Well:
OR
WELL GAS WELL OTHER Injection

8. Well No. 40

2. Name of Operator
Greenhill Petroleum Corporation

3. Address of Operator
16010 Barkers Point, Ste., 325, Houston, TX 77079

9. Pool name or Wildcat
Lovington San Andres West

4. Well Location
Unit Letter C : 1980 Feet From The West Line and 660 Feet From The North Line

Section 7 Township 17 South Range 36 East NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING CASING TEST AND CEMENT JOB
OTHER: OTHER: Set packer and pressure tested

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Circulated pkr. fld. Set pke & pressure tested to 400#. Held OK. RDMO

OH from 4712'-5146' PBTD
Surface csg. 13 3/8" set @ 221'
Intermediate Csg. 8 5/8" set @ 2020
Baker AD-1 pkr set @ 4626' w/18 pts pulled into it.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Michael J. Newport

TITLE Landman

DATE

12-4-90

TYPE OR PRINT NAME

Michael J. Newport

TELEPHONE NO.

955-1146

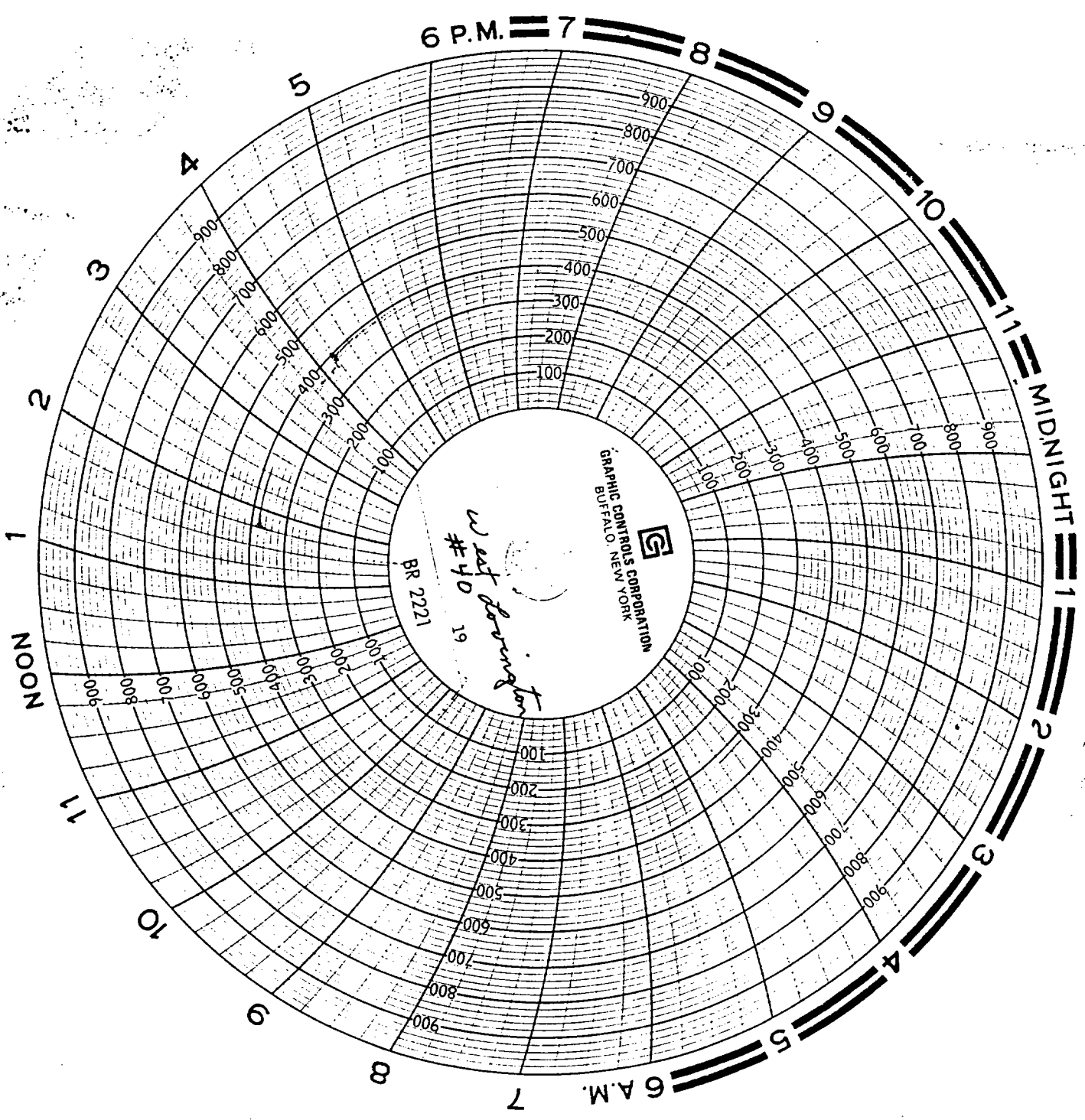
(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



Wednesday

DAILY WELL WORK REPORT

DATE: 11/28/90

WELL: West Low Unit #40

AFE NUMBER: #53201

FIELD: West Lovington

AUTHORIZED AMOUNT: \$52,600

RESERVOIR: San Andres

GREENHILL PETROLEUM WI: _____

TD: _____ PBD: _____

WELL TYPE: PROD _____ INJ _____

TYPE OF WORK: WORKOVER _____ RECOMP _____ NEW COMPL _____

PERFS/O.H.: _____

CURRENT OPERATION: _____

=====

Circulated pkr fluid. Set pkr & pressure tested to 400#. Held OK. RDMO.

OH from 4212' - 5146' PBD

Surface Csg 13 3/8" set @ 221'

Intermediate Csg 8 5/8" set @ 2020

Baker AD-1 pkr set @ 4626' w/ 18 pts pulled into it.

=====

COST SUMMARY	DAILY	CUM TOT
RIG: _____	= <u>600⁰⁰</u>	<u>4300⁰⁰</u>
LOG/PERF: _____	= _____	<u>1722.91</u>
STIM: _____	= _____	<u>1200</u>
WATER: _____	= <u>500⁰⁰</u>	<u>500</u>
RENTAL TOOLS: _____	= _____	<u>-</u>
TESTING: _____	= _____	<u>1800</u>
PROD. EQUIP: <u>AD-1 pkr</u>	= <u>1000⁰⁰</u>	<u>1000</u>
OTHER: _____	= _____	<u>2350</u>
TOTALS	= <u>\$2100⁰⁰</u>	<u>\$12,872.91</u>



GREENHILL PETROLEUM CORPORATION

12777 JONES ROAD, SUITE 375
HOUSTON, TEXAS 77070
TELEPHONE (713) 955-1146
FAX (713) 955-5105

Incorporated in Delaware, U.S.A.

December 3, 1990

Received
12/10/90

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Re: W [REDACTED]
Well Nos. [REDACTED]
Lea County, NM

Enclosed please find (3) three copies of Form C-103 covering Well Nos. 22, 27 and 62.

Sincerely,

Michael J. Newport
Michael J. Newport
Landman

MJN:jb
Enclosures

cc: Mike Stogner/Santa Fe

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-4119-8

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)</p>		<p>7. Lease Name or Unit Agreement Name West Lovington Unit</p>	
<p>1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection</p>		<p>8. Well No. 22</p>	
<p>2. Name of Operator Greenhill Petroleum</p>		<p>9. Pool name or Wildcat Lovington San Andres Unit</p>	
<p>3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079</p>			
<p>4. Well Location Unit Letter <u>L</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>4</u> Township <u>17S</u> Range <u>36E</u> NMPM <u>Lea</u> County</p>			
<p>10. Elevation (Show whether DF, RKB, RT, GR, etc.)</p>			

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran Baker AD-1 pkr on 143 Jts 2 3/8" new IPC tbg into 4648'. Circulated pkr fluid. Set pkr & pressure tested csg. to 300# for 30 min. Held OK. RDPU

Surface csg. 13" 50#
Intermediate 8 5/8"-32#
Production 5 1/2 - 17#
AD-1 pkr set @ 4648'

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 11-30-90

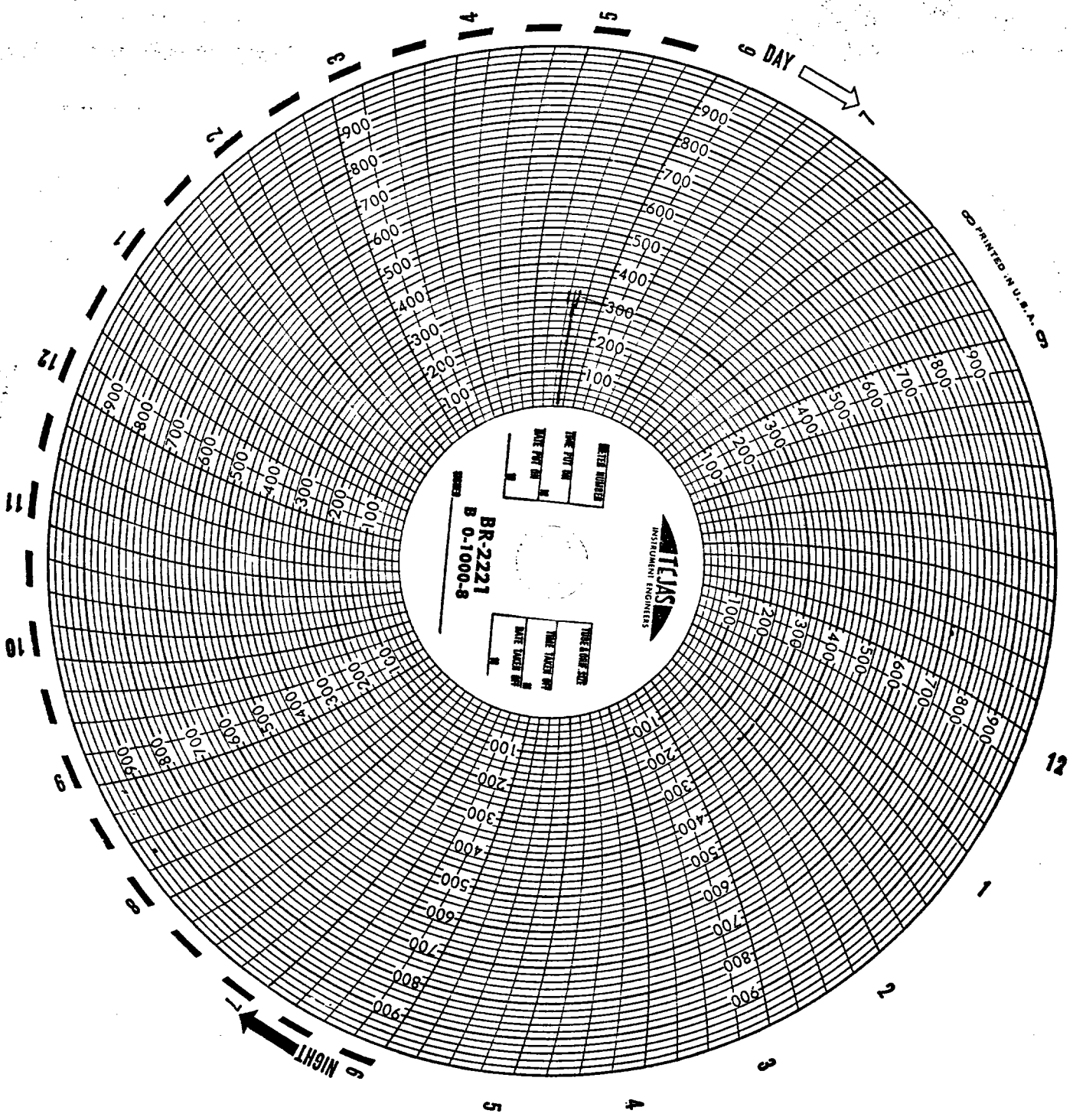
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

PRINTED IN U.S.A. ©



BR-2221
B 0-1000-8

TEMS
INSTRUMENT ENGINEERS

DATE TAKEN BY
TIME TAKEN BY

DATE TAKEN BY
TIME TAKEN BY

10
11
12

Friday

DAILY WELL WORK REPORT

DATE: 11/16/90

WELL: West Lovington #22

A/E NUMBER: 53041

FIELD: West Lovington

AUTHORIZED AMOUNT: \$32,500.00

RESERVOIR: San Andres

GREENHILL PETROLEUM WI: _____

TD: 5171' PBD: 5171'

WELL TYPE: PROD _____ INJ X

TYPE OF WORK: WORKOVER X RECOMP _____ NEW COMPL _____

PERFS/O.H.: OH 2 4703'-5171' Perfs 4676'-4698' w/2 SSPF

CURRENT OPERATION: _____

Ran Baker AD-1 pkr on 143 Jts 2 3/8" new FPC
abg dn to 4648'. Circulated pkr fluid. Set pkr +
pressure tested csg to 300# for 30 min. Held OK.
RDPH.

Surface Csg 13" 50#
Intermediate 8 5/8" 32#
Production 5 1/2" 17#
AD-1 pkr set @ 4648'

COST SUMMARY

DAILY CUM TOT

RIG:	=	1200.00	6150.00
LOG/PERF:	=		
STIM:	=		10,503
WATER:	=	500.00	2400.00
RENTAL TOOLS:	=		2100
TESTING:	=		
PROD. EQUIP:	=		
OTHER:	=		3250
TOTALS	=	1700.00	\$24,403.00

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B9106

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection	7. Lease Name or Unit Agreement Name West Lovington Unit
2. Name of Operator Greenhill Petroleum	8. Well No. 62
3. Address of Operator 16010 Barkers Point, Ste., 325, Houston, TX 77079	9. Pool name or Wildcat West Lovington San Andres
4. Well Location Unit Letter <u>J</u> : <u>2970</u> Feet From The <u>North</u> Line and <u>2310</u> Feet From The <u>East</u> Line Section <u>8</u> Township <u>17S</u> Range <u>36E</u> NMPM <u>1ea</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: _____ <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: Return Well to active injection <input checked="" type="checkbox"/>

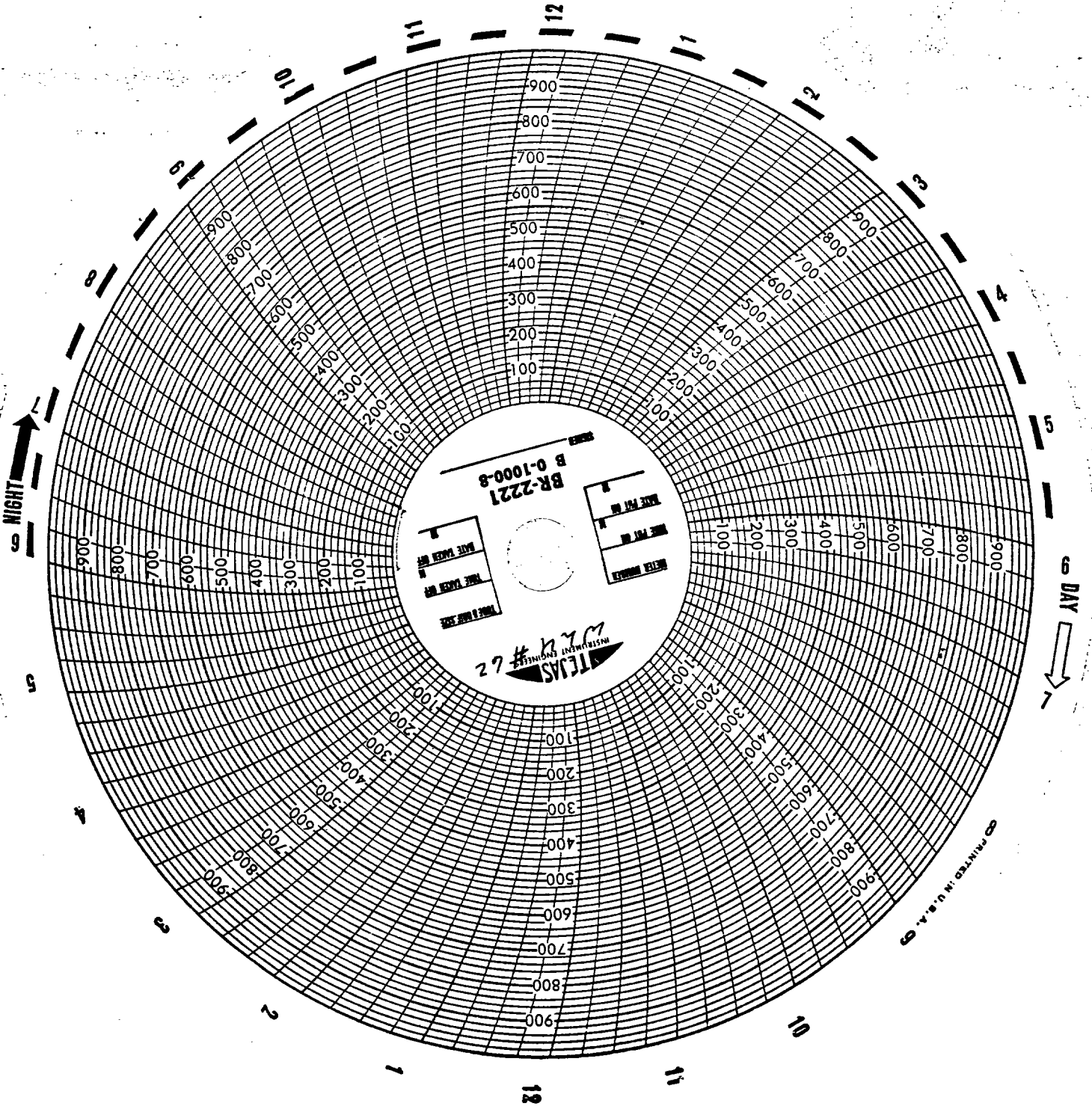
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Finished POH & laying in 2 7/8" ws. Ran 5 1/2 X 14# Baker AD-1 pkr on 145 Jts of new 2 3/8" IPC tbg. into 4680'. Cir. pkr fluid. Set pkr & pulled 18 pts into pkr. Press tested pkr & csg. to 500#. Held OK RDP

packer set @ 4680'
13 3/8" set @ 286'
8 5/8" set @ 1977'
5 1/2" set @ 4747' 14#
4 3/4" open hole from 4747'-5080'

I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNATURE Michael J. Newport TITLE Landman DATE 11-30-90
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



DAILY WELL WORK REPORT

DATE: Wednesday
11/14/90

WELL: West Lovington Unit # 62

AFE NUMBER: #53211

FIELD: West Lovington

AUTHORIZED AMOUNT: \$66,800⁰⁰

RESERVOIR: San Andres

GREENHILL PETROLEUM WI: _____

TD: 5080' PBD: 5080'

WELL TYPE: PROD _____ INJ X

TYPE OF WORK: WORKOVER X RECOMP _____ NEW COMPL _____

PERFS/O.H.: _____ 4747' - 5080' OH

CURRENT OPERATION: _____

Finished PCH + laying dn 2 7/8" ws. Ran 5 1/2 x 14# Baker AD-1 pkr on 145 lbs of new 2 3/8" IPC tbg dn to 4680'. Lin pkr fluid. Set pkr + pulled 18 lbs into pkr. Press tested pkr + csq to 500#. Held OK. RD.P.U.

packer set @ 4680'
13 3/8" set @ 286'
8 5/8" set @ 1977'
5 1/2" set @ 4747' 14#
4 3/4" open hole from 4747' - 5080'

COST SUMMARY		DAILY	CUM TOT
RIG:	=	1400 ⁰⁰	2800 ⁰⁰
LOG/PERF:	=		
STIM:	=		900 ⁰⁰
WATER:	=	800 ⁰⁰	800 ⁰⁰
RENTAL TOOLS:	=		
TESTING:	=	600 ⁰⁰	1400 ⁰⁰
PROD EQUIP:	=		
OTHER:	=	1100	2925
TOTALS =		3900 ⁰⁰	8925 ⁰⁰

AD-1 pkr

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B10639
7. Lease Name or Unit Agreement Name West Lovington Unit
8. Well No. 27
9. Pool name or Wildcat West Lovington San Andres
10. Elevation (Show whether DF, RKB, RT, GR, etc.)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL GAS WELL OTHER Injection

2. Name of Operator
Greenhill Petroleum

3. Address of Operator
16010 Barkers Point, Ste., 325, Houston, TX 77079

4. Well Location
Unit Letter N : 660 Feet From The South Line and 1980 Feet From The West Line
Section 6 Township 17S Range 36E NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
OTHER: _____ <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <u>Replace IPC tubing</u> <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MIRU. PU. Relse Baker pkr. POH laying down 2 3/8" tbg. Ran Baker AD-1 pkr on 141-jts new 2 3/8" IPC tbg. into 4653'. Circulated pkr fluid. Set pkr & pressure tested annulus to 400# for 30 min. Held OK RDPU

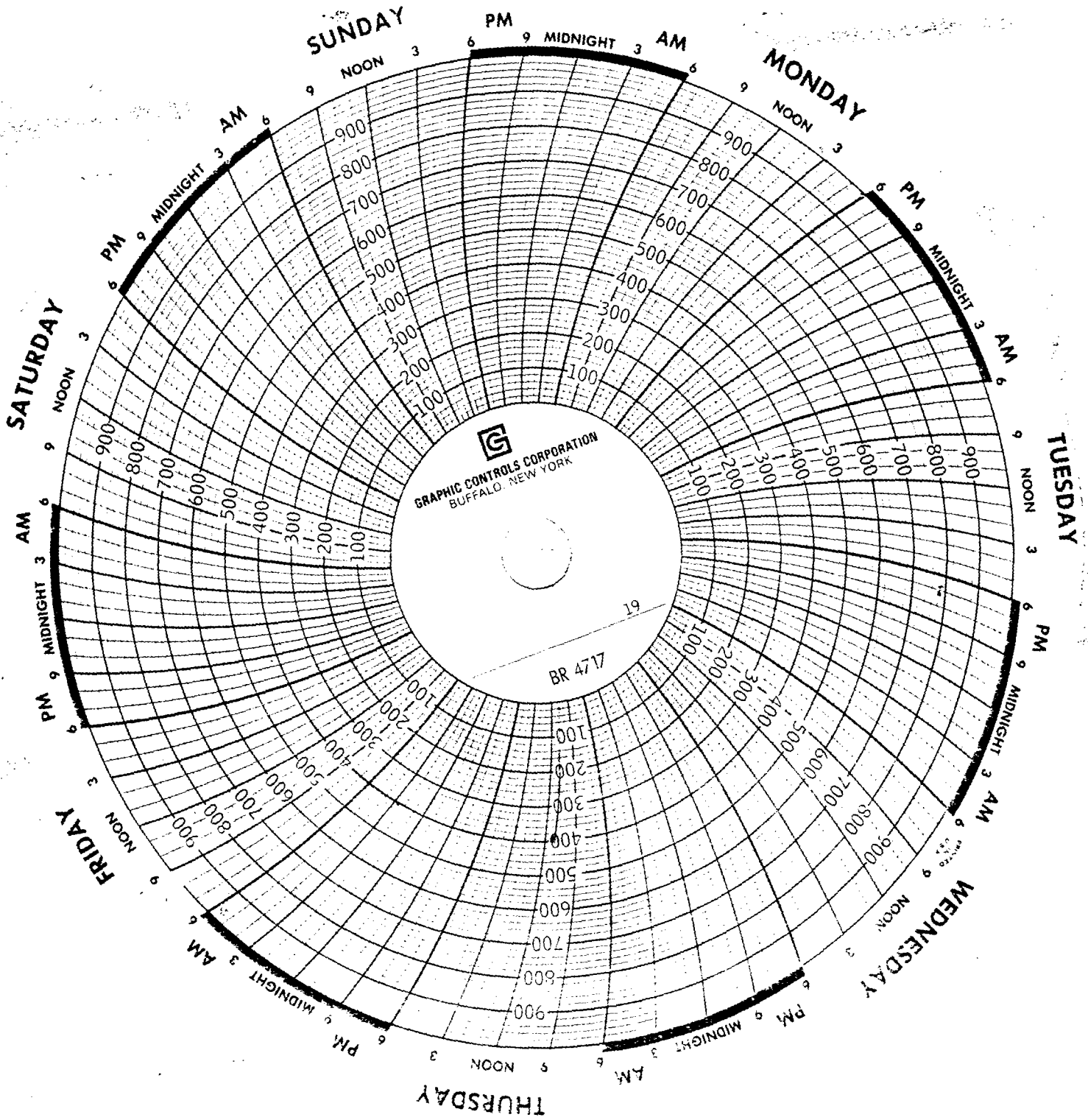
Surface csg. 13" 50#
Intermediate 8 5/8" 32#
Production 5 1/2" 14#
PBDT 5154'

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael J. Newport TITLE Landman DATE 11-30-90
TYPE OR PRINT NAME Michael J. Newport TELEPHONE NO. 955-1146

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



DAILY WELL WORK REPORT

DATE: Monday 11/19/90
 WELL: West Lovington Unit #27 AFE NUMBER: _____
 FIELD: West Lovington AUTHORIZED AMOUNT: \$23,300
 RESERVOIR: San Andres GREENHILL PETROLEUM WI: X
 TD: _____ PBSD: 5154 WELL TYPE: PROD _____ INJ X
 TYPE OF WORK: WORKOVER _____ RECOMP _____ NEW COMPL _____
 PERFS/O.H.: _____

CURRENT OPERATION: Replaced IPC tbg.

=====

M.D.R.U. P.U. Rbk Baker pkr. POH laying down
2 3/8" tbg. Ran Baker AD-1 pkr on 141-Jts new
2 3/8" IPC tbg dn to 4653. Circulated pkr fluid.
Set pkr + pressure tested annulus to 460# for
30 min. Held OK. R.D.P.U.

Surface Csg 13" 50#
Intermediate 8 5/8" 32#
Production 5 1/2" 14#
PBSD - 5154'

COST SUMMARY		DAILY	CUM TOT
RIG:	=	1100	1100
LOG/PERF:	=		
STIM:	=		
WATER:	=	1200	1200
RENTAL TOOLS:	=	600	600
TESTING:	=		
PROD EQUIP:	=		
OTHER:	=		
TOTALS =		2900	2900 ⁰⁰

OIL AND GAS CONSERVATION DIVISION
RECEIVED



'90 NOV 19 AM 9 04

Tipperary
CORPORATION

First Interstate Tower North
633 Seventeenth Street
Suite 1550
Denver, Colorado 80202

November 13, 1990

Case 10154

Oil and Gas Conservation Commission
Box 2088
Santa Fe, New Mexico 875004

Att: William J. Lemay

Re: Conversion Request of Greenhill Petroleum Corporation
Lovington San Andres
Lea County, NM

Dear Mr. Lemay:

Tipperary Corporation is objecting to the Greenhill Petroleum Corporation's application to convert several producing wells in the Lovington San Andres Unit Area to injection wells. This conversion has the potential to affect our Monsanto State No. 1 well, which is located 660 FSL and 1980 FEL Section 30, T-16S-R37E. This well is exactly 2640 feet from the Greenhill well No. 7.

This objection is due to the lack of adequate notice of the scheduled November 14, 1990 hearing. Tipperary has not had sufficient time to evaluate the effects of Greenhill's injection project on our well. Therefore, we cannot file a formal protest at this time. However, we are concerned that the pressuring of this formation through injection could have a detrimental effect on the casing of our wellbore in the future. Should this happen, we believe that Greenhill should be responsible for any damages that might occur to Tipperary because of this injection program.

Sincerely,

Mark Amershek
Engineering Analyst

cc: Bill Carr
Jeff Sparks
Michael Newport
Carter Mathies

Results of meeting with Jerry Sexton
Status of work required on P&A wells -

- 4) Lynx # 1 - OK.
- 5) Velma - We will check out - show on the Schematic whether the casing was pulled.
- 14) OK.
- 52) OK - San Andres - 300' perforate squeeze and reset surface plug - (protect the fresh water supply).
- 54) run a bond log to see if bonded get off if is - if not perforate on top of San Andres squeeze.
- 62) re-enter reset a plug at 400' - drill top of retainer and squeeze.
- 68) OK to San Andres.
- 84) OK.
- 94) Re-enter set one plug in 5 1/2 at top of San Andres - (If can't re-enter, come back to Commission - produce well and keep pressure off area).
- 96) OK.
- 111) OK.
- 113) OK.
- 117) OK.
- 126) OK.
- 138) OK.
- 145) OK - (Surface ?).
- 161) OK - possibly set plug ~~at~~ perforate squeeze 300'.
- 162) OK - possibly set plug ~~at~~ perforate squeeze 300'.
- 169) Re-enter and fill up if within 1/2 mile ^{radius} - Have Cy look at it (verify location).

Tidewater # 1 Monteith
Phillips # 1 Lovington

LOVINGTON SAN ANDRES CONVERSIONS
PROBLEM WELLS

OPERATOR	WELL NAME	LONG STRING TOP OF CEMENT	P & A DATE
4) Lynx Pet., Corp.	Doughty #1	2056' 80% calc	P & A 12/87
<i>check for more detail</i> 5) Velma Pet., Corp.	Sinclair State #1	4754'	P & A 3/62
11) GPC	Paddock #7	4859'	
14) Texas Crude	State 31 #1	3194' 80% calc	P & A 9/68
15) GPC	Paddock #10	4470' 80% calc	
19) GPC	Paddock #13	5185' 70% calc	
25) GPC	Paddock #18	4430' temp survey	
52) Getty	State M #2	5820' C-103	P & A 6/73
54) Getty	State M #3	4966' 80% calc	P & A 2/75
?? 55) GPC	Paddock #32	4400' temp survey	
59) GPC	Paddock #29	5205' temp survey	
62) Citiles Service	State AE #2	5600' temp survey	P & A 6/69
TS OK 66) GPC	Paddock #44	4844' 80% calc	
?? 68) Texaco	Skelly"S" State #2	3568' 80% calc	<u>P & A 6/69</u>
71) Penroc	State "AE" #1	6251' 80% calc	
73) GPC	Paddock #41	4700' temp survey	
75) GPC	Paddock #40	4565' 80% calc	
77) GPC	Paddock #39	4632' temp survey	
81) Texaco	State "O" Battery2	4959' 80% calc	
84) Arco	State 182 "A"	5261' 80% calc	P & A 2/76
92) Texaco	State P #3D	5210' C-103	
94) Texaco	State P #5	3405' 80% calc	P & A 2/76
96) E.F. Moran Inc.	Shipp State"A" #1	2485' 80% calc	P & A 8/53
105) Amerada Hess	State L "A" #8	4985' temp survey	
107) Amerada Hess	State L "A" #9	5597' temp survey	
111) Amoco	State "E" Tr.18-15	1855' temp survey	P & A 7/84
113) Amoco	State "E" Tr.18-16	4550' temp survey	P & A 4/84
117) Amoco	State "E" Tr.18-18	553' 80% calc	P & A 11/83
126) Penroc	State "E" Tr.18-20	2138' 80% calc	P & A 4/84
128) Penroc	State "E" Tr.18-19	6775' temp survey	
130) Penroc	State "E" Tr.18-17	5175' temp survey	
132) Amerada Hess	State L"A" No. 11	4972' temp survey	
135) Amerada Hess	State L"A" No 10	4972' temp survey	
137) GPC	Paddock #57	4820' temp survey	
138) Sun Oil	Caylor #6	3270' temp survey	P & A 3/70
145) Samedan	Caylor #1	2814' 80% calc	P & A 10/39
?? 148) GPC	Paddock #67	4525' temp survey	
155) Amerada Hess	State L"A" No.12	5614' temp survey	
✓ 161) Magnolia	State "R" #3	1828' 80% calc	P & A 4/49
✓ 162) Magnolia	State "R" #4	3164' 80% calc	P & A 4/47

165) GPC
 166) GPC
 169) Tidewater Ass Oil
 Company

Paddock No. 71 5019' 80% calc
 Paddock No. 70 4900' temp survey
 H.T. Monteith No 1 4144' 80% calc P & A 6/10/48

Texaco
 Texaco
 GPC

state P #4 E 32-16-37 } Top of liner uncemented
 state P #6 K 32-16-37 } ??
 Lov. Pd. 4+ #50 D 6-17-37 cmt top

PENROC

Penroc Oil Corporation / P. O. Box 2088 / Hobbs, New Mexico 88241 / Telephone (505) 397-3596 / Telecopier (505) 393-7051

RECEIVED
'90 OCT 25 AM 8 54

October 23, 1990

*Did
CASE FILE -
10/15/90*

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. David Catanach

Re: Greenhill Petroleum Corporation
Lovington San Andres Unit
Lea County, New Mexico

Dear Mr. Catanach:

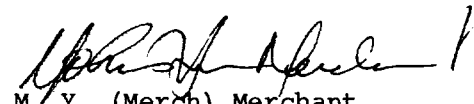
This letter is to file PENROC OIL CORPORATION's objection to Greenhill's plan for the captioned unit. Penroc also has objections to the hearing date of November 14, 1990 for two reasons:

- 1) The package provided by Greenhill is not the best in the world. We have trouble reading some of the copies.
- 2) Three (3) weeks is not enough time to prepare for a possible opposition at the hearing.

Your cooperation, as always, is greatly appreciated.

Sincerely,

PENROC OIL CORPORATION



M. Y. (Merch) Merchant
President

MYM/br

CC: Greenhill Petroleum Corporation
12777 Jones Road, Suite 375
Houston, Texas 77070