



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

June 7, 2002

Lori Wrotenbery
Director
Oil Conservation Division

Vista Services
PO Box 758
Eunice, New Mexico 88231

Attn: Mr. Mike Pilcher

**RE: Injection Pressure Increase, -177
Royalty Holdings No. 4 (API No. 30-025-22943)
Lea County, New Mexico**

Reference is made to your request received in this office on May 28, 2002, to increase the surface injection pressure on the above-referenced well. This request is based on a step rate test conducted on April 30, 2002. After reviewing this test, we feel an increase in injection pressure on this well is justified at this time.

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

<i>Well and Location</i>	<i>Maximum Surface Injection Pressure</i>
Royalty Holdings No. 4	1620 PSIG
Located in Unit A, Section 25, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.	

This maximum surface injection pressure limit is valid only through the existing 2 7/8 inch plastic coated injection tubing.

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,

Lori Wrotenbery
Director

cc: Oil Conservation Division - Hobbs
Files: SWD-818, IPI-2002

WELL API NO.
30-025-22943

5. Indicate Type of Lease

STATE ☒ FEE ☐6. State Oil & Gas Lease No.
SWD 818

7. Lease Name or Unit Agreement Name:

Royalty Holdings #4

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 Well

2. Name of Operator

Vista Services

3. Address of Operator

P.O. Box 758 Eunice, NM 88231

8. Well No.

4

9. Pool name or Wildcat
San Andres

4. Well Location

Unit Letter A : 660 feet from the North line and 660 feet from the East lineSection 25 Township 21S Range 37E NMPM Lea County NM10. Elevation (Show whether DR, RKB, RT, GR, etc.)
11 ft. RKB

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 ☐ MULTIPLE COMPLETION ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐CASING TEST AND CEMENT JOB ☐OTHER: Step-rate test - determine parting pressure ☒

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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Step-rate procedure completed on 04/30/2002 to determine formation fracture injection rate and pressure for safe injection operating conditions.

- a) rigged up slickline unit and deployed pressure gauges to the mid-point of perforations
- b) rigged up pump truck with supply water
- c) from static condition and starting at 600 BPD, pumped for 15 minutes each at 200 BPD rate increments
- d) after pumping a total of 24 stabilized rates, rigged down and retrieved data
- e) processed surface pressures, injection rates, and down-hole pressure data
- f) determined a formation parting point at 2871 BPD rate and 3559 psia bottomhole pressure based on slope change on a plot of the end-points of each rate: bottomhole pressure versus injection rate.

* see attached plots, data listing, and operations log

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

SIGNATURE

Mike P. Pilcher

TITLE Vice President

DATE 5/1/02

Type or print name

Mike Pilcher

Telephone No. (505) 394-4084

(This space for State use)

APPROVED BY

Harry W. Wink

OC FIELD REPRESENTATIVE II/STAFF MANAGER

TITLE

DATE MAY 23 2002

Conditions of approval, if any:

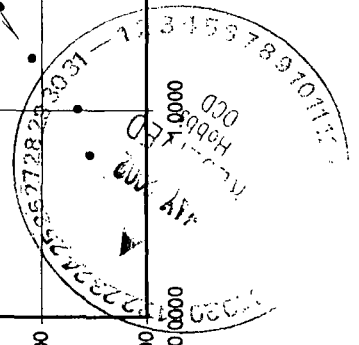
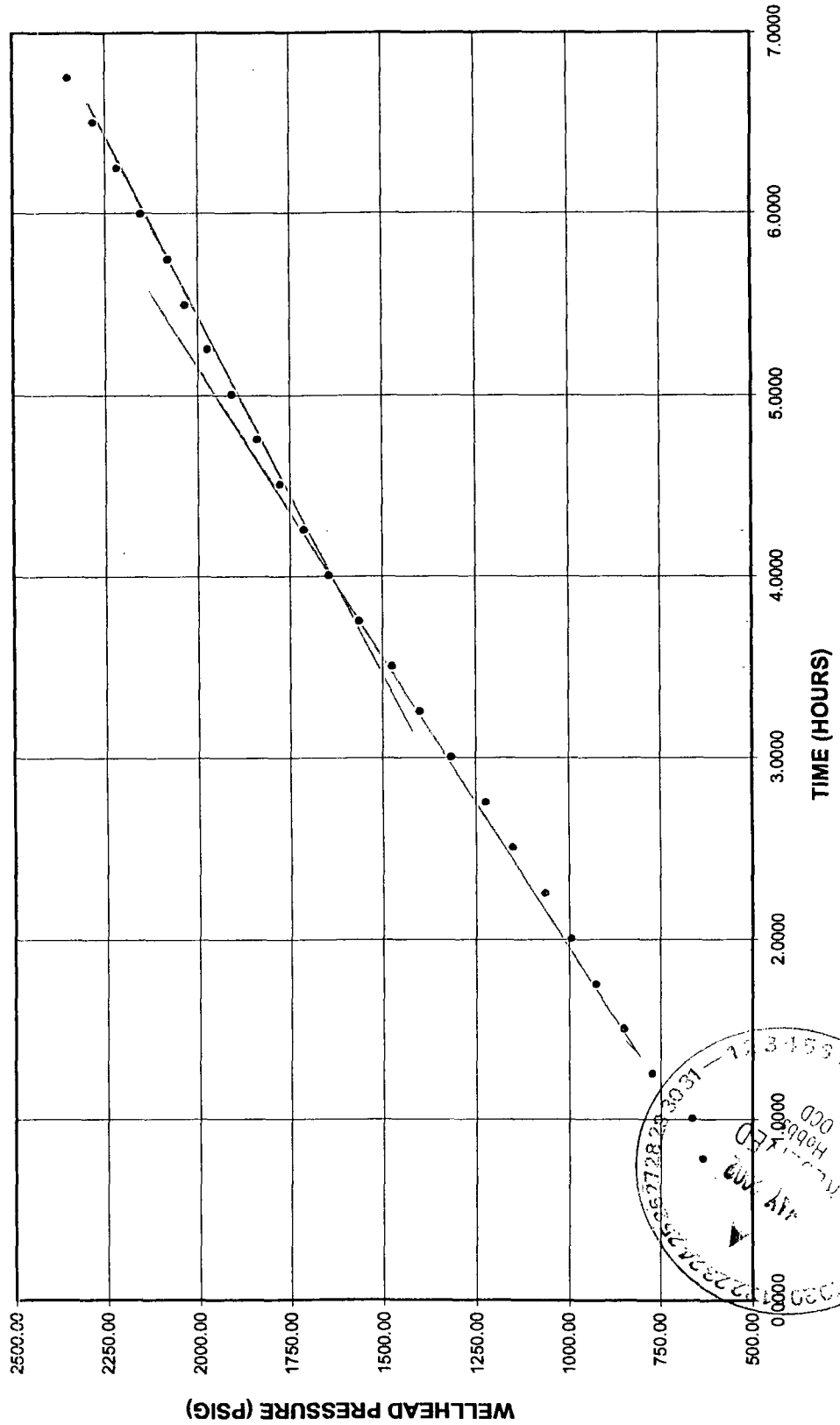
AIRC **PRESSURE DATA** **INCORPORATED**

COMPANY: VISTA SERVICES
 LEASE: ROYALTY HOLDING
 WELL NUMBER: 4

FIELD: UNDESIGNATED
 COUNTY: LEA
 STATE: NM

JOB #: 55079
 TEST DATE: 4/30/02

WELLHEAD PRESSURE VS TIME



AARC

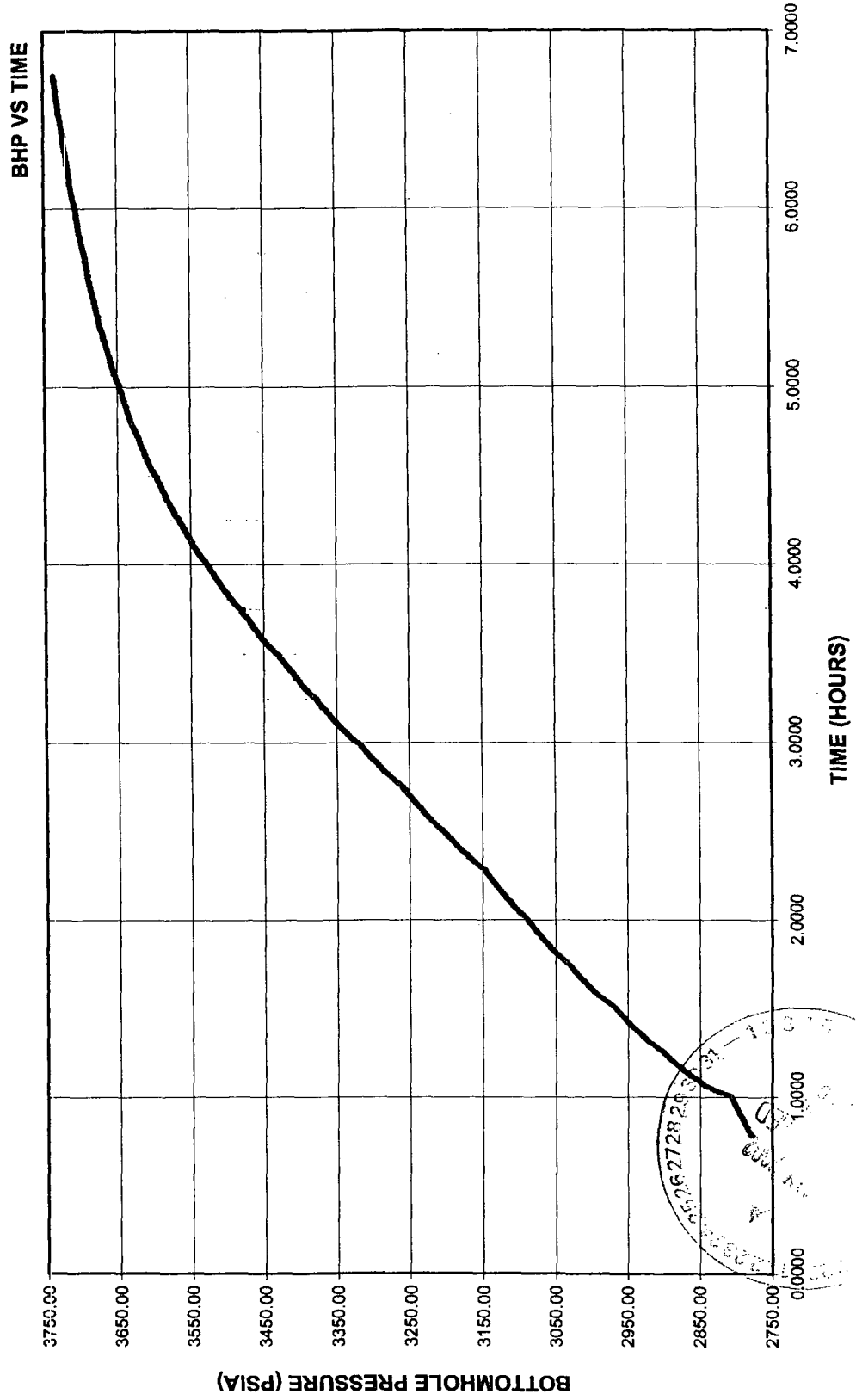
PRESSURE DATA

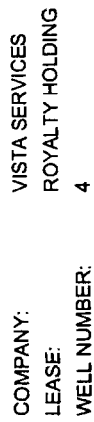
INCORPORATED

COMPANY: VISTA SERVICES
 LEASE: ROYALTY HOLDING
 WELL NUMBER: 4

FIELD: UNDESIGNATED
 COUNTY: LEA
 STATE: NM

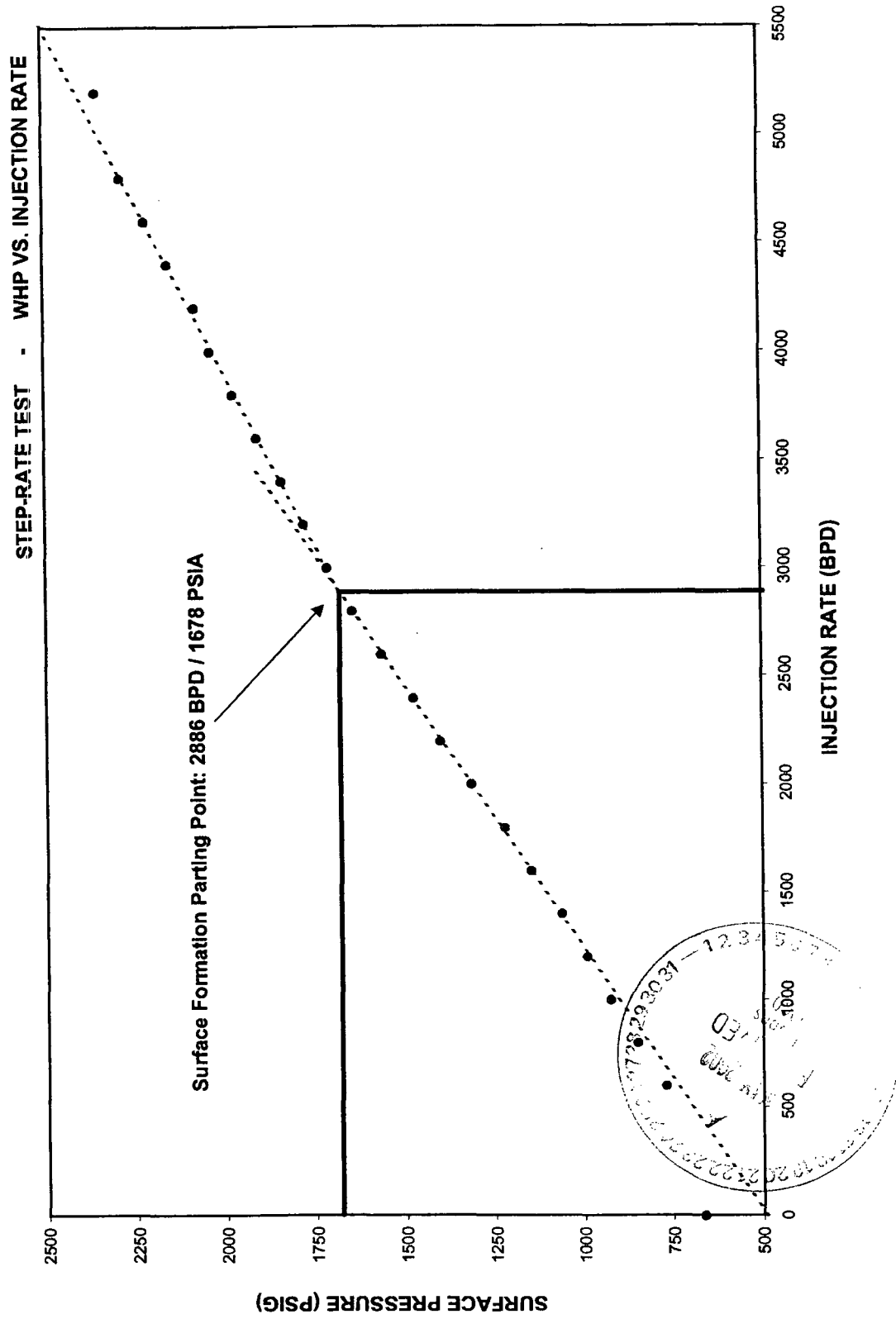
JOB # 55079
 TEST DATE: 4/30/02





FIELD:	UNDESIGNATED
COUNTY:	LEA
STATE:	NM

JOB #	55079	
TEST DATE:	4/30/02	- 4/30/02





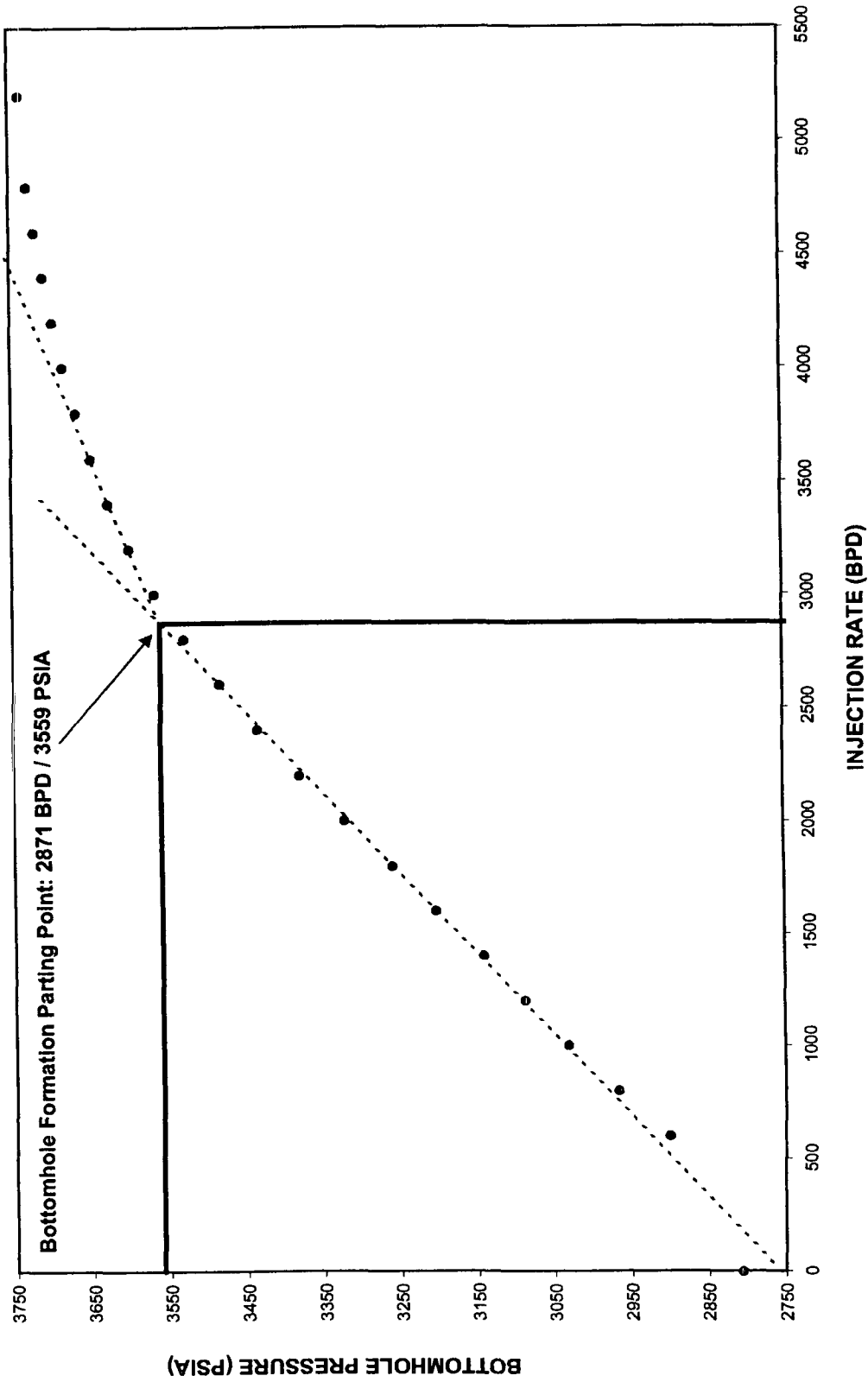
COMPANY: VISTA SERVICES
LEASE: ROYALTY HOLDING
WELL NUMBER: 4

FIELD: UNDESIGNATED
COUNTY: LEA
STATE: NM

JOB # 55079
TEST DATE: 4/30/02

4/30/02

STEP-RATE TEST - BHP VS. INJECTION RATE





OPERATIONS LOG

COMPANY: VISTA SERVICES
LEASE: ROYALTY HOLDING # 4
FIELD (FORMATION): UNDESIGNATED (SAN ANDRES)
COUNTY: LEA
STATE: NM

TEST TYPE: STEP-RATE

ENGINEER: MIKE PILCHER
FIELD REP:
JOB RUN BY: MAX WHEELER
DATA PREPARED BY: ROD DODSON
INSTRUMENT: Z-3

DATE	TIME	DWG	OPERATIONS LOG - JOB NUMBER: 55079
4/30/02	09:00:00 AM		ON LOCATION
4/30/02	09:15:00 AM		START GAUGE Z-3
4/30/02	09:45:00 AM		IN LUBRICATOR W/ GAUGES
4/30/02	10:01:59 AM	634	ON BOTTOM W/ GAUGES @ 4695'
4/30/02	10:15:31 AM	662	START 1ST RATE @ 600 BPD
4/30/02	10:30:31 AM	772	START 2ND RATE @ 800 BPD
4/30/02	10:45:31 AM	850	START 3RD RATE @ 1000 BPD
4/30/02	11:00:31 AM	926	START 4TH RATE @ 1200 BPD
4/30/02	11:15:31 AM	992	START 5TH RATE @ 1400 BPD
4/30/02	11:30:31 AM	1062	START 6TH RATE @ 1600 BPD
4/30/02	11:45:31 AM	1150	START 7TH RATE @ 1800 BPD
4/30/02	12:00:31 PM	1222	START 8TH RATE @ 2000 BPD
4/30/02	12:15:31 PM	1314	START 9TH RATE @ 2200 BPD
4/30/02	12:30:31 PM	1400	START 10TH RATE @ 2400 BPD
4/30/02	12:45:31 PM	1474	START 11TH RATE @ 2600 BPD
4/30/02	01:00:31 PM	1564	START 12TH RATE @ 2800 BPD
4/30/02	01:15:31 PM	1644	START 13TH RATE @ 3000 BPD
4/30/02	01:30:31 PM	1712	START 14TH RATE @ 3200 BPD
4/30/02	01:45:31 PM	1776	START 15TH RATE @ 3400 BPD
4/30/02	02:00:31 PM	1838	START 16TH RATE @ 3600 BPD



DATE	TIME	DWG	OPERATIONS LOG - JOB NUMBER: 55079
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4/30/02 02:15:31 PM	1906	START 17TH RATE @ 3800 BPD
4/30/02 02:30:31 PM	1972	START 18TH RATE @ 4000 BPD
4/30/02 02:45:01 PM	2034	START 19TH RATE @ 4200 BPD
4/30/02 03:00:01 PM	2078	START 20TH RATE @ 4400 BPD
4/30/02 03:15:01 PM	2152	START 21TH RATE @ 4600 BPD
4/30/02 03:30:01 PM	2216	START 22TH RATE @ 4800 BPD
4/30/02 03:45:01 PM	2282	START 23TH RATE @ 5200 BPD
4/30/02 04:00:01 PM	2349	END FINAL RATE, CONCLUDE TEST

ARC

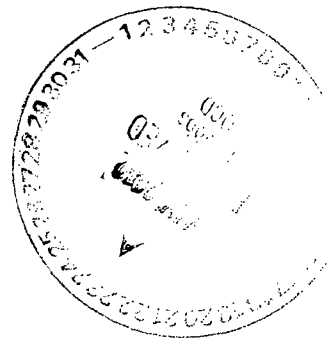
PRESSURE DATA

INCORPORATED

COMPANY: VISTA SERVICES
 LEASE: ROYALTY HOLDING # 4
 FIELD (FORMATION): UNDESIGNATED (SAN ANDRES)
 COUNTY: LEA
 STATE: NM

TEST DATES: 4/30/02 - 4/30/02
 RUN DEPTH: 4695
 INSTRUMENT: Z-3

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	WELLHEAD PRESSURE, PSIG	INJECTION RATE, BPD	JOB NUMBER: 55079
4/30/02 10:15:30 AM	1.0083	2806.45	662.00	0.00	
4/30/02 10:30:30 AM	1.2583	2899.82	772.00	600.00	
4/30/02 10:45:30 AM	1.5083	2966.77	850.00	800.00	
4/30/02 11:00:30 AM	1.7583	3031.71	926.00	1000.00	
4/30/02 11:15:30 AM	2.0083	3088.50	992.00	1200.00	
4/30/02 11:30:30 AM	2.2583	3141.69	1062.00	1400.00	
4/30/02 11:45:30 AM	2.5083	3203.70	1150.00	1600.00	
4/30/02 12:00:30 PM	2.7583	3259.52	1222.00	1800.00	
4/30/02 12:15:30 PM	3.0083	3321.38	1314.00	2000.00	
4/30/02 12:30:30 PM	3.2583	3379.34	1400.00	2200.00	
4/30/02 12:45:30 PM	3.5083	3432.60	1474.00	2400.00	
4/30/02 01:00:30 PM	3.7583	3482.23	1564.00	2600.00	
4/30/02 01:15:30 PM	4.0083	3527.79	1644.00	2800.00	
4/30/02 01:30:30 PM	4.2583	3565.39	1712.00	3000.00	
4/30/02 01:45:30 PM	4.5083	3598.03	1776.00	3200.00	
4/30/02 02:00:30 PM	4.7583	3624.55	1838.00	3400.00	
4/30/02 02:15:30 PM	5.0083	3646.66	1906.00	3600.00	
4/30/02 02:30:30 PM	5.2583	3666.04	1972.00	3800.00	
4/30/02 02:45:00 PM	5.5000	3682.07	2034.00	4000.00	
4/30/02 03:00:00 PM	5.7500	3694.72	2078.00	4200.00	
4/30/02 03:15:00 PM	6.0000	3706.83	2152.00	4400.00	
4/30/02 03:30:00 PM	6.2500	3717.30	2216.00	4600.00	
4/30/02 03:45:00 PM	6.5000	3726.94	2282.00	4800.00	
4/30/02 04:00:00 PM	6.7500	3735.76	2349.00	5200.00	



ARC PRESSURE DATA INCORPORATED

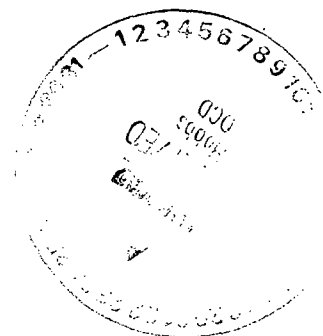
COMPANY: VISTA SERVICES
LEASE: ROYALTY HOLDING # 4
FIELD (FORMATION): UNDESIGNATED (SAN ANDRES)
COUNTY: LEA
STATE: NM

TEST DATES: 4/30/02 - 4/30/02
RUN DEPTH: 4695
INSTRUMENT: Z-3

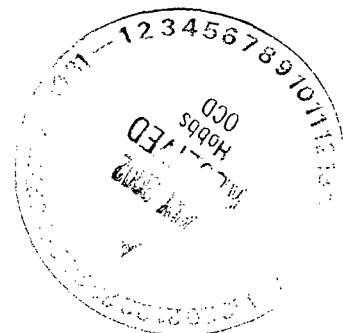
REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 09:00:00 AM			ON LOCATION
4/30/02 09:15:00 AM			START GAUGE Z-3
4/30/02 09:45:00 AM			IN LUBRICATOR W/ GAUGES
4/30/02 10:01:59 AM			ON BOTTOM W/ GAUGES @ 4695'
4/30/02 10:02:00 AM	0.7833	2777.24	
4/30/02 10:02:30 AM	0.7917	2779.17	
4/30/02 10:03:00 AM	0.8000	2779.65	
4/30/02 10:03:30 AM	0.8083	2781.52	
4/30/02 10:04:00 AM	0.8167	2782.68	
4/30/02 10:04:30 AM	0.8250	2783.17	
4/30/02 10:05:00 AM	0.8333	2784.97	
4/30/02 10:05:30 AM	0.8417	2786.13	
4/30/02 10:06:00 AM	0.8500	2787.24	
4/30/02 10:06:30 AM	0.8583	2788.33	
4/30/02 10:07:00 AM	0.8667	2788.72	
4/30/02 10:07:30 AM	0.8750	2790.51	
4/30/02 10:08:00 AM	0.8833	2790.86	
4/30/02 10:08:30 AM	0.8917	2792.61	
4/30/02 10:09:00 AM	0.9000	2793.64	
4/30/02 10:09:30 AM	0.9083	2794.69	
4/30/02 10:10:00 AM	0.9167	2795.68	
4/30/02 10:10:30 AM	0.9250	2796.69	
4/30/02 10:11:00 AM	0.9333	2797.74	
4/30/02 10:11:30 AM	0.9417	2798.65	
4/30/02 10:12:00 AM	0.9500	2799.70	
4/30/02 10:12:30 AM	0.9583	2800.65	
4/30/02 10:13:00 AM	0.9667	2801.67	
4/30/02 10:13:30 AM	0.9750	2802.61	
4/30/02 10:14:00 AM	0.9833	2803.58	
4/30/02 10:14:30 AM	0.9917	2804.60	
4/30/02 10:15:00 AM	1.0000	2805.50	
4/30/02 10:15:30 AM	1.0083	2806.45	
4/30/02 10:15:31 AM			START 1ST RATE @ 600 BPD
4/30/02 10:16:00 AM	1.0167	2812.72	
4/30/02 10:16:30 AM	1.0250	2818.60	
4/30/02 10:17:00 AM	1.0333	2823.63	



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 10:17:30 AM	1.0417	2828.65	
4/30/02 10:18:00 AM	1.0500	2833.04	
4/30/02 10:18:30 AM	1.0583	2837.27	
4/30/02 10:19:00 AM	1.0667	2841.02	
4/30/02 10:19:30 AM	1.0750	2844.66	
4/30/02 10:20:00 AM	1.0833	2847.90	
4/30/02 10:20:30 AM	1.0917	2850.99	
4/30/02 10:21:00 AM	1.1000	2854.25	
4/30/02 10:21:30 AM	1.1083	2857.30	
4/30/02 10:22:00 AM	1.1167	2860.21	
4/30/02 10:22:30 AM	1.1250	2863.05	
4/30/02 10:23:00 AM	1.1333	2865.95	
4/30/02 10:23:30 AM	1.1417	2868.56	
4/30/02 10:24:00 AM	1.1500	2870.97	
4/30/02 10:24:30 AM	1.1583	2873.61	
4/30/02 10:25:00 AM	1.1667	2875.89	
4/30/02 10:25:30 AM	1.1750	2878.25	
4/30/02 10:26:00 AM	1.1833	2880.59	
4/30/02 10:26:30 AM	1.1917	2883.01	
4/30/02 10:27:00 AM	1.2000	2885.18	
4/30/02 10:27:30 AM	1.2083	2887.39	
4/30/02 10:28:00 AM	1.2167	2889.87	
4/30/02 10:28:30 AM	1.2250	2892.03	
4/30/02 10:29:00 AM	1.2333	2894.12	
4/30/02 10:29:30 AM	1.2417	2896.12	
4/30/02 10:30:00 AM	1.2500	2898.16	
4/30/02 10:30:30 AM	1.2583	2899.82	
4/30/02 10:30:31 AM			START 2ND RATE @ 800 BPD
4/30/02 10:31:00 AM	1.2667	2902.26	
4/30/02 10:31:30 AM	1.2750	2905.79	
4/30/02 10:32:00 AM	1.2833	2909.19	
4/30/02 10:32:30 AM	1.2917	2912.12	
4/30/02 10:33:00 AM	1.3000	2914.91	
4/30/02 10:33:30 AM	1.3083	2917.90	
4/30/02 10:34:00 AM	1.3167	2920.66	
4/30/02 10:34:30 AM	1.3250	2922.98	
4/30/02 10:35:00 AM	1.3333	2925.51	
4/30/02 10:35:30 AM	1.3417	2928.01	
4/30/02 10:36:00 AM	1.3500	2930.13	
4/30/02 10:36:30 AM	1.3583	2932.13	
4/30/02 10:37:00 AM	1.3667	2934.49	
4/30/02 10:37:30 AM	1.3750	2936.73	
4/30/02 10:38:00 AM	1.3833	2938.65	
4/30/02 10:38:30 AM	1.3917	2940.80	
4/30/02 10:39:00 AM	1.4000	2943.07	
4/30/02 10:39:30 AM	1.4083	2945.09	
4/30/02 10:40:00 AM	1.4167	2947.01	
4/30/02 10:40:30 AM	1.4250	2949.17	
4/30/02 10:41:00 AM	1.4333	2951.14	
4/30/02 10:41:30 AM	1.4417	2952.91	
4/30/02 10:42:00 AM	1.4500	2954.60	
4/30/02 10:42:30 AM	1.4583	2956.53	

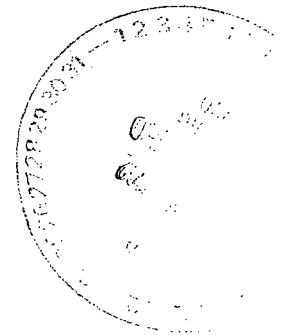


REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 10:43:00 AM	1.4667	2958.33	
4/30/02 10:43:30 AM	1.4750	2959.92	
4/30/02 10:44:00 AM	1.4833	2961.74	
4/30/02 10:44:30 AM	1.4917	2963.56	
4/30/02 10:45:00 AM	1.5000	2965.20	
4/30/02 10:45:30 AM	1.5083	2966.77	
4/30/02 10:45:31 AM			START 3RD RATE @ 1000 BPD
4/30/02 10:46:00 AM	1.5167	2969.60	
4/30/02 10:46:30 AM	1.5250	2972.95	
4/30/02 10:47:00 AM	1.5333	2976.24	
4/30/02 10:47:30 AM	1.5417	2978.82	
4/30/02 10:48:00 AM	1.5500	2981.58	
4/30/02 10:48:30 AM	1.5583	2984.12	
4/30/02 10:49:00 AM	1.5667	2986.46	
4/30/02 10:49:30 AM	1.5750	2989.33	
4/30/02 10:50:00 AM	1.5833	2991.28	
4/30/02 10:50:30 AM	1.5917	2993.81	
4/30/02 10:51:00 AM	1.6000	2995.92	
4/30/02 10:51:30 AM	1.6083	2998.14	
4/30/02 10:52:00 AM	1.6167	3000.48	
4/30/02 10:52:30 AM	1.6250	3002.21	
4/30/02 10:53:00 AM	1.6333	3004.63	
4/30/02 10:53:30 AM	1.6417	3006.25	
4/30/02 10:54:00 AM	1.6500	3008.37	
4/30/02 10:54:30 AM	1.6583	3010.50	
4/30/02 10:55:00 AM	1.6667	3012.17	
4/30/02 10:55:30 AM	1.6750	3014.38	
4/30/02 10:56:00 AM	1.6833	3015.86	
4/30/02 10:56:30 AM	1.6917	3017.76	
4/30/02 10:57:00 AM	1.7000	3019.70	
4/30/02 10:57:30 AM	1.7083	3021.29	
4/30/02 10:58:00 AM	1.7167	3023.33	
4/30/02 10:58:30 AM	1.7250	3024.69	
4/30/02 10:59:00 AM	1.7333	3026.51	
4/30/02 10:59:30 AM	1.7417	3028.21	
4/30/02 11:00:00 AM	1.7500	3029.65	
4/30/02 11:00:30 AM	1.7583	3031.71	
4/30/02 11:00:31 AM			START 4TH RATE @ 1200 BPD
4/30/02 11:01:00 AM	1.7667	3034.11	
4/30/02 11:01:30 AM	1.7750	3036.98	
4/30/02 11:02:00 AM	1.7833	3039.33	
4/30/02 11:02:30 AM	1.7917	3041.48	
4/30/02 11:03:00 AM	1.8000	3043.75	
4/30/02 11:03:30 AM	1.8083	3046.18	
4/30/02 11:04:00 AM	1.8167	3048.26	
4/30/02 11:04:30 AM	1.8250	3050.38	
4/30/02 11:05:00 AM	1.8333	3052.45	
4/30/02 11:05:30 AM	1.8417	3054.36	
4/30/02 11:06:00 AM	1.8500	3056.40	
4/30/02 11:06:30 AM	1.8583	3058.24	
4/30/02 11:07:00 AM	1.8667	3060.43	
4/30/02 11:07:30 AM	1.8750	3061.53	



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 11:08:00 AM	1.8833	3064.11
4/30/02 11:08:30 AM	1.8917	3065.77
4/30/02 11:09:00 AM	1.9000	3067.69
4/30/02 11:09:30 AM	1.9083	3069.40
4/30/02 11:10:00 AM	1.9167	3070.96
4/30/02 11:10:30 AM	1.9250	3072.91
4/30/02 11:11:00 AM	1.9333	3074.60
4/30/02 11:11:30 AM	1.9417	3076.23
4/30/02 11:12:00 AM	1.9500	3077.65
4/30/02 11:12:30 AM	1.9583	3079.41
4/30/02 11:13:00 AM	1.9667	3080.87
4/30/02 11:13:30 AM	1.9750	3082.37
4/30/02 11:14:00 AM	1.9833	3084.03
4/30/02 11:14:30 AM	1.9917	3085.63
4/30/02 11:15:00 AM	2.0000	3087.14
4/30/02 11:15:30 AM	2.0083	3088.50
4/30/02 11:15:31 AM		START 5TH RATE @ 1400 BPD
4/30/02 11:16:00 AM	2.0167	3090.14
4/30/02 11:16:30 AM	2.0250	3092.46
4/30/02 11:17:00 AM	2.0333	3095.03
4/30/02 11:17:30 AM	2.0417	3097.20
4/30/02 11:18:00 AM	2.0500	3099.44
4/30/02 11:18:30 AM	2.0583	3101.35
4/30/02 11:19:00 AM	2.0667	3103.70
4/30/02 11:19:30 AM	2.0750	3105.55
4/30/02 11:20:00 AM	2.0833	3107.25
4/30/02 11:20:30 AM	2.0917	3109.24
4/30/02 11:21:00 AM	2.1000	3111.19
4/30/02 11:21:30 AM	2.1083	3112.94
4/30/02 11:22:00 AM	2.1167	3114.62
4/30/02 11:22:30 AM	2.1250	3116.60
4/30/02 11:23:00 AM	2.1333	3118.29
4/30/02 11:23:30 AM	2.1417	3119.91
4/30/02 11:24:00 AM	2.1500	3121.59
4/30/02 11:24:30 AM	2.1583	3123.45
4/30/02 11:25:00 AM	2.1667	3125.00
4/30/02 11:25:30 AM	2.1750	3126.46
4/30/02 11:26:00 AM	2.1833	3128.34
4/30/02 11:26:30 AM	2.1917	3129.77
4/30/02 11:27:00 AM	2.2000	3131.16
4/30/02 11:27:30 AM	2.2083	3132.16
4/30/02 11:28:00 AM	2.2167	3134.31
4/30/02 11:28:30 AM	2.2250	3135.83
4/30/02 11:29:00 AM	2.2333	3137.24
4/30/02 11:29:30 AM	2.2417	3139.01
4/30/02 11:30:00 AM	2.2500	3140.28
4/30/02 11:30:30 AM	2.2583	3141.69
4/30/02 11:30:31 AM		START 6TH RATE @ 1600 BPD
4/30/02 11:31:00 AM	2.2667	3143.42
4/30/02 11:31:30 AM	2.2750	3144.64
4/30/02 11:32:00 AM	2.2833	3145.96
4/30/02 11:32:30 AM	2.2917	3146.65



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 11:33:00 AM	2.3000	3150.58
4/30/02 11:33:30 AM	2.3083	3153.64
4/30/02 11:34:00 AM	2.3167	3156.59
4/30/02 11:34:30 AM	2.3250	3159.14
4/30/02 11:35:00 AM	2.3333	3161.73
4/30/02 11:35:30 AM	2.3417	3164.15
4/30/02 11:36:00 AM	2.3500	3166.58
4/30/02 11:36:30 AM	2.3583	3168.93
4/30/02 11:37:00 AM	2.3667	3170.40
4/30/02 11:37:30 AM	2.3750	3173.31
4/30/02 11:38:00 AM	2.3833	3175.48
4/30/02 11:38:30 AM	2.3917	3177.64
4/30/02 11:39:00 AM	2.4000	3179.72
4/30/02 11:39:30 AM	2.4083	3181.70
4/30/02 11:40:00 AM	2.4167	3183.68
4/30/02 11:40:30 AM	2.4250	3185.50
4/30/02 11:41:00 AM	2.4333	3187.43
4/30/02 11:41:30 AM	2.4417	3188.62
4/30/02 11:42:00 AM	2.4500	3191.32
4/30/02 11:42:30 AM	2.4583	3192.40
4/30/02 11:43:00 AM	2.4667	3194.93
4/30/02 11:43:30 AM	2.4750	3196.70
4/30/02 11:44:00 AM	2.4833	3198.38
4/30/02 11:44:30 AM	2.4917	3200.15
4/30/02 11:45:00 AM	2.5000	3201.88
4/30/02 11:45:30 AM	2.5083	3203.70
4/30/02 11:45:31 AM		START 7TH RATE @ 1800 BPD
4/30/02 11:46:00 AM	2.5167	3206.11
4/30/02 11:46:30 AM	2.5250	3208.74
4/30/02 11:47:00 AM	2.5333	3211.05
4/30/02 11:47:30 AM	2.5417	3213.15
4/30/02 11:48:00 AM	2.5500	3215.28
4/30/02 11:48:30 AM	2.5583	3217.54
4/30/02 11:49:00 AM	2.5667	3219.67
4/30/02 11:49:30 AM	2.5750	3221.05
4/30/02 11:50:00 AM	2.5833	3223.77
4/30/02 11:50:30 AM	2.5917	3225.72
4/30/02 11:51:00 AM	2.6000	3227.59
4/30/02 11:51:30 AM	2.6083	3229.53
4/30/02 11:52:00 AM	2.6167	3231.43
4/30/02 11:52:30 AM	2.6250	3233.26
4/30/02 11:53:00 AM	2.6333	3234.39
4/30/02 11:53:30 AM	2.6417	3236.83
4/30/02 11:54:00 AM	2.6500	3238.58
4/30/02 11:54:30 AM	2.6583	3239.57
4/30/02 11:55:00 AM	2.6667	3242.12
4/30/02 11:55:30 AM	2.6750	3243.84
4/30/02 11:56:00 AM	2.6833	3245.62
4/30/02 11:56:30 AM	2.6917	3247.33
4/30/02 11:57:00 AM	2.7000	3248.25
4/30/02 11:57:30 AM	2.7083	3250.50
4/30/02 11:58:00 AM	2.7167	3252.11



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 11:58:30 AM	2.7250	3253.75	
4/30/02 11:59:00 AM	2.7333	3255.35	
4/30/02 11:59:30 AM	2.7417	3257.02	
4/30/02 12:00:00 PM	2.7500	3258.71	
4/30/02 12:00:30 PM	2.7583	3259.52	
4/30/02 12:00:31 PM			START 8TH RATE @ 2000 BPD
4/30/02 12:01:00 PM	2.7667	3262.36	
4/30/02 12:01:30 PM	2.7750	3264.77	
4/30/02 12:02:00 PM	2.7833	3267.47	
4/30/02 12:02:30 PM	2.7917	3269.40	
4/30/02 12:03:00 PM	2.8000	3272.64	
4/30/02 12:03:30 PM	2.8083	3274.32	
4/30/02 12:04:00 PM	2.8167	3276.54	
4/30/02 12:04:30 PM	2.8250	3279.44	
4/30/02 12:05:00 PM	2.8333	3281.61	
4/30/02 12:05:30 PM	2.8417	3283.75	
4/30/02 12:06:00 PM	2.8500	3285.88	
4/30/02 12:06:30 PM	2.8583	3287.96	
4/30/02 12:07:00 PM	2.8667	3289.14	
4/30/02 12:07:30 PM	2.8750	3291.70	
4/30/02 12:08:00 PM	2.8833	3292.77	
4/30/02 12:08:30 PM	2.8917	3294.71	
4/30/02 12:09:00 PM	2.9000	3297.37	
4/30/02 12:09:30 PM	2.9083	3299.35	
4/30/02 12:10:00 PM	2.9167	3300.57	
4/30/02 12:10:30 PM	2.9250	3303.02	
4/30/02 12:11:00 PM	2.9333	3304.85	
4/30/02 12:11:30 PM	2.9417	3305.87	
4/30/02 12:12:00 PM	2.9500	3308.35	
4/30/02 12:12:30 PM	2.9583	3309.99	
4/30/02 12:13:00 PM	2.9667	3311.09	
4/30/02 12:13:30 PM	2.9750	3313.65	
4/30/02 12:14:00 PM	2.9833	3315.48	
4/30/02 12:14:30 PM	2.9917	3316.49	
4/30/02 12:15:00 PM	3.0000	3319.00	
4/30/02 12:15:30 PM	3.0083	3321.38	
4/30/02 12:15:31 PM			START 9TH RATE @ 2200 BPD
4/30/02 12:16:00 PM	3.0167	3324.48	
4/30/02 12:16:30 PM	3.0250	3326.99	
4/30/02 12:17:00 PM	3.0333	3328.79	
4/30/02 12:17:30 PM	3.0417	3331.65	
4/30/02 12:18:00 PM	3.0500	3333.77	
4/30/02 12:18:30 PM	3.0583	3335.23	
4/30/02 12:19:00 PM	3.0667	3337.11	
4/30/02 12:19:30 PM	3.0750	3339.85	
4/30/02 12:20:00 PM	3.0833	3342.09	
4/30/02 12:20:30 PM	3.0917	3344.05	
4/30/02 12:21:00 PM	3.1000	3345.92	
4/30/02 12:21:30 PM	3.1083	3347.76	
4/30/02 12:22:00 PM	3.1167	3349.59	
4/30/02 12:22:30 PM	3.1250	3351.33	
4/30/02 12:23:00 PM	3.1333	3353.39	



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 12:23:30 PM	3.1417	3355.34	
4/30/02 12:24:00 PM	3.1500	3357.09	
4/30/02 12:24:30 PM	3.1583	3358.69	
4/30/02 12:25:00 PM	3.1667	3360.38	
4/30/02 12:25:30 PM	3.1750	3362.17	
4/30/02 12:26:00 PM	3.1833	3363.50	
4/30/02 12:26:30 PM	3.1917	3365.24	
4/30/02 12:27:00 PM	3.2000	3367.63	
4/30/02 12:27:30 PM	3.2083	3369.26	
4/30/02 12:28:00 PM	3.2167	3371.10	
4/30/02 12:28:30 PM	3.2250	3372.79	
4/30/02 12:29:00 PM	3.2333	3374.44	
4/30/02 12:29:30 PM	3.2417	3375.28	
4/30/02 12:30:00 PM	3.2500	3376.75	
4/30/02 12:30:30 PM	3.2583	3379.34	
4/30/02 12:30:31 PM			START 10TH RATE @ 2400 BPD
4/30/02 12:31:00 PM	3.2667	3381.81	
4/30/02 12:31:30 PM	3.2750	3383.85	
4/30/02 12:32:00 PM	3.2833	3385.78	
4/30/02 12:32:30 PM	3.2917	3387.71	
4/30/02 12:33:00 PM	3.3000	3389.67	
4/30/02 12:33:30 PM	3.3083	3391.56	
4/30/02 12:34:00 PM	3.3167	3393.47	
4/30/02 12:34:30 PM	3.3250	3395.31	
4/30/02 12:35:00 PM	3.3333	3397.24	
4/30/02 12:35:30 PM	3.3417	3398.95	
4/30/02 12:36:00 PM	3.3500	3399.94	
4/30/02 12:36:30 PM	3.3583	3401.65	
4/30/02 12:37:00 PM	3.3667	3403.99	
4/30/02 12:37:30 PM	3.3750	3405.71	
4/30/02 12:38:00 PM	3.3833	3407.33	
4/30/02 12:38:30 PM	3.3917	3408.34	
4/30/02 12:39:00 PM	3.4000	3409.94	
4/30/02 12:39:30 PM	3.4083	3412.32	
4/30/02 12:40:00 PM	3.4167	3413.98	
4/30/02 12:40:30 PM	3.4250	3415.62	
4/30/02 12:41:00 PM	3.4333	3417.27	
4/30/02 12:41:30 PM	3.4417	3419.00	
4/30/02 12:42:00 PM	3.4500	3419.87	
4/30/02 12:42:30 PM	3.4583	3422.16	
4/30/02 12:43:00 PM	3.4667	3423.69	
4/30/02 12:43:30 PM	3.4750	3425.14	
4/30/02 12:44:00 PM	3.4833	3426.69	
4/30/02 12:44:30 PM	3.4917	3428.05	
4/30/02 12:45:00 PM	3.5000	3429.28	
4/30/02 12:45:30 PM	3.5083	3432.60	
4/30/02 12:45:31 PM			START 11TH RATE @ 2600 BPD
4/30/02 12:46:00 PM	3.5167	3434.21	
4/30/02 12:46:30 PM	3.5250	3436.24	
4/30/02 12:47:00 PM	3.5333	3438.79	
4/30/02 12:47:30 PM	3.5417	3440.76	
4/30/02 12:48:00 PM	3.5500	3441.94	



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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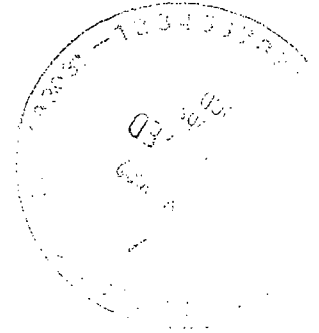
4/30/02 12:48:30 PM	3.5583	3444.51
4/30/02 12:49:00 PM	3.5667	3446.38
4/30/02 12:49:30 PM	3.5750	3447.46
4/30/02 12:50:00 PM	3.5833	3449.81
4/30/02 12:50:30 PM	3.5917	3451.46
4/30/02 12:51:00 PM	3.6000	3453.22
4/30/02 12:51:30 PM	3.6083	3454.83
4/30/02 12:52:00 PM	3.6167	3456.40
4/30/02 12:52:30 PM	3.6250	3458.09
4/30/02 12:53:00 PM	3.6333	3459.10
4/30/02 12:53:30 PM	3.6417	3461.30
4/30/02 12:54:00 PM	3.6500	3462.68
4/30/02 12:54:30 PM	3.6583	3464.45
4/30/02 12:55:00 PM	3.6667	3465.26
4/30/02 12:55:30 PM	3.6750	3467.44
4/30/02 12:56:00 PM	3.6833	3468.26
4/30/02 12:56:30 PM	3.6917	3469.72
4/30/02 12:57:00 PM	3.7000	3471.43
4/30/02 12:57:30 PM	3.7083	3472.64
4/30/02 12:58:00 PM	3.7167	3474.97
4/30/02 12:58:30 PM	3.7250	3476.51
4/30/02 12:59:00 PM	3.7333	3477.95
4/30/02 12:59:30 PM	3.7417	3479.33
4/30/02 01:00:00 PM	3.7500	3477.60
4/30/02 01:00:30 PM	3.7583	3482.23
4/30/02 01:00:31 PM		
4/30/02 01:01:00 PM	3.7667	3484.77
4/30/02 01:01:30 PM	3.7750	3487.03
4/30/02 01:02:00 PM	3.7833	3488.66
4/30/02 01:02:30 PM	3.7917	3490.25
4/30/02 01:03:00 PM	3.8000	3491.91
4/30/02 01:03:30 PM	3.8083	3493.44
4/30/02 01:04:00 PM	3.8167	3495.01
4/30/02 01:04:30 PM	3.8250	3496.38
4/30/02 01:05:00 PM	3.8333	3497.70
4/30/02 01:05:30 PM	3.8417	3499.21
4/30/02 01:06:00 PM	3.8500	3500.87
4/30/02 01:06:30 PM	3.8583	3502.49
4/30/02 01:07:00 PM	3.8667	3504.43
4/30/02 01:07:30 PM	3.8750	3505.97
4/30/02 01:08:00 PM	3.8833	3507.53
4/30/02 01:08:30 PM	3.8917	3509.02
4/30/02 01:09:00 PM	3.9000	3510.56
4/30/02 01:09:30 PM	3.9083	3510.98
4/30/02 01:10:00 PM	3.9167	3512.89
4/30/02 01:10:30 PM	3.9250	3514.30
4/30/02 01:11:00 PM	3.9333	3515.69
4/30/02 01:11:30 PM	3.9417	3517.15
4/30/02 01:12:00 PM	3.9500	3517.63
4/30/02 01:12:30 PM	3.9583	3519.62
4/30/02 01:13:00 PM	3.9667	3521.00
4/30/02 01:13:30 PM	3.9750	3522.32

START 12TH RATE @ 2800 BPD

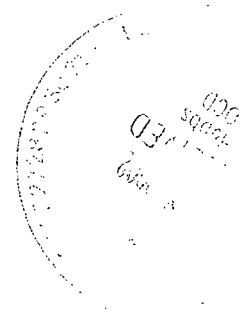


REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 01:14:00 PM	3.9833	3523.65	
4/30/02 01:14:30 PM	3.9917	3523.90	
4/30/02 01:15:00 PM	4.0000	3525.92	
4/30/02 01:15:30 PM	4.0083	3527.79	
4/30/02 01:15:31 PM			START 13TH RATE @ 3000 BPD
4/30/02 01:16:00 PM	4.0167	3528.76	
4/30/02 01:16:30 PM	4.0250	3530.31	
4/30/02 01:17:00 PM	4.0333	3532.60	
4/30/02 01:17:30 PM	4.0417	3534.02	
4/30/02 01:18:00 PM	4.0500	3535.35	
4/30/02 01:18:30 PM	4.0583	3536.79	
4/30/02 01:19:00 PM	4.0667	3538.20	
4/30/02 01:19:30 PM	4.0750	3539.55	
4/30/02 01:20:00 PM	4.0833	3540.98	
4/30/02 01:20:30 PM	4.0917	3542.19	
4/30/02 01:21:00 PM	4.1000	3543.51	
4/30/02 01:21:30 PM	4.1083	3544.79	
4/30/02 01:22:00 PM	4.1167	3546.08	
4/30/02 01:22:30 PM	4.1250	3547.29	
4/30/02 01:23:00 PM	4.1333	3548.38	
4/30/02 01:23:30 PM	4.1417	3549.77	
4/30/02 01:24:00 PM	4.1500	3550.98	
4/30/02 01:24:30 PM	4.1583	3552.13	
4/30/02 01:25:00 PM	4.1667	3553.36	
4/30/02 01:25:30 PM	4.1750	3554.54	
4/30/02 01:26:00 PM	4.1833	3555.08	
4/30/02 01:26:30 PM	4.1917	3556.93	
4/30/02 01:27:00 PM	4.2000	3557.24	
4/30/02 01:27:30 PM	4.2083	3559.14	
4/30/02 01:28:00 PM	4.2167	3560.22	
4/30/02 01:28:30 PM	4.2250	3560.60	
4/30/02 01:29:00 PM	4.2333	3562.37	
4/30/02 01:29:30 PM	4.2417	3563.36	
4/30/02 01:30:00 PM	4.2500	3564.45	
4/30/02 01:30:30 PM	4.2583	3565.39	
4/30/02 01:30:31 PM			START 14TH RATE @ 3200 BPD
4/30/02 01:31:00 PM	4.2667	3566.66	
4/30/02 01:31:30 PM	4.2750	3568.66	
4/30/02 01:32:00 PM	4.2833	3569.93	
4/30/02 01:32:30 PM	4.2917	3571.09	
4/30/02 01:33:00 PM	4.3000	3571.60	
4/30/02 01:33:30 PM	4.3083	3572.72	
4/30/02 01:34:00 PM	4.3167	3573.90	
4/30/02 01:34:30 PM	4.3250	3575.66	
4/30/02 01:35:00 PM	4.3333	3576.80	
4/30/02 01:35:30 PM	4.3417	3577.14	
4/30/02 01:36:00 PM	4.3500	3578.18	
4/30/02 01:36:30 PM	4.3583	3579.24	
4/30/02 01:37:00 PM	4.3667	3581.00	
4/30/02 01:37:30 PM	4.3750	3582.08	
4/30/02 01:38:00 PM	4.3833	3583.13	
4/30/02 01:38:30 PM	4.3917	3584.23	



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 01:39:00 PM	4.4000	3585.26	
4/30/02 01:39:30 PM	4.4083	3586.31	
4/30/02 01:40:00 PM	4.4167	3587.26	
4/30/02 01:40:30 PM	4.4250	3588.29	
4/30/02 01:41:00 PM	4.4333	3588.55	
4/30/02 01:41:30 PM	4.4417	3590.20	
4/30/02 01:42:00 PM	4.4500	3591.13	
4/30/02 01:42:30 PM	4.4583	3591.31	
4/30/02 01:43:00 PM	4.4667	3592.22	
4/30/02 01:43:30 PM	4.4750	3593.80	
4/30/02 01:44:00 PM	4.4833	3594.72	
4/30/02 01:44:30 PM	4.4917	3594.94	
4/30/02 01:45:00 PM	4.5000	3596.81	
4/30/02 01:45:30 PM	4.5083	3598.03	
4/30/02 01:45:31 PM			START 15TH RATE @ 3400 BPD
4/30/02 01:46:00 PM	4.5167	3599.16	
4/30/02 01:46:30 PM	4.5250	3599.65	
4/30/02 01:47:00 PM	4.5333	3601.47	
4/30/02 01:47:30 PM	4.5417	3602.49	
4/30/02 01:48:00 PM	4.5500	3603.45	
4/30/02 01:48:30 PM	4.5583	3604.47	
4/30/02 01:49:00 PM	4.5667	3605.44	
4/30/02 01:49:30 PM	4.5750	3606.44	
4/30/02 01:50:00 PM	4.5833	3607.34	
4/30/02 01:50:30 PM	4.5917	3608.29	
4/30/02 01:51:00 PM	4.6000	3609.26	
4/30/02 01:51:30 PM	4.6083	3610.13	
4/30/02 01:52:00 PM	4.6167	3610.35	
4/30/02 01:52:30 PM	4.6250	3611.92	
4/30/02 01:53:00 PM	4.6333	3612.91	
4/30/02 01:53:30 PM	4.6417	3612.95	
4/30/02 01:54:00 PM	4.6500	3614.52	
4/30/02 01:54:30 PM	4.6583	3615.40	
4/30/02 01:55:00 PM	4.6667	3616.24	
4/30/02 01:55:30 PM	4.6750	3617.03	
4/30/02 01:56:00 PM	4.6833	3617.79	
4/30/02 01:56:30 PM	4.6917	3618.60	
4/30/02 01:57:00 PM	4.7000	3619.33	
4/30/02 01:57:30 PM	4.7083	3620.10	
4/30/02 01:58:00 PM	4.7167	3620.17	
4/30/02 01:58:30 PM	4.7250	3620.95	
4/30/02 01:59:00 PM	4.7333	3622.36	
4/30/02 01:59:30 PM	4.7417	3623.09	
4/30/02 02:00:00 PM	4.7500	3624.02	
4/30/02 02:00:30 PM	4.7583	3624.55	
4/30/02 02:00:31 PM			START 16TH RATE @ 3600 BPD
4/30/02 02:01:00 PM	4.7667	3626.24	
4/30/02 02:01:30 PM	4.7750	3627.26	
4/30/02 02:02:00 PM	4.7833	3628.11	
4/30/02 02:02:30 PM	4.7917	3628.94	
4/30/02 02:03:00 PM	4.8000	3629.77	
4/30/02 02:03:30 PM	4.8083	3630.61	



REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 02:04:00 PM	4.8167	3631.41	
4/30/02 02:04:30 PM	4.8250	3632.19	
4/30/02 02:05:00 PM	4.8333	3632.87	
4/30/02 02:05:30 PM	4.8417	3633.71	
4/30/02 02:06:00 PM	4.8500	3634.43	
4/30/02 02:06:30 PM	4.8583	3635.17	
4/30/02 02:07:00 PM	4.8667	3635.92	
4/30/02 02:07:30 PM	4.8750	3636.64	
4/30/02 02:08:00 PM	4.8833	3636.68	
4/30/02 02:08:30 PM	4.8917	3637.41	
4/30/02 02:09:00 PM	4.9000	3638.82	
4/30/02 02:09:30 PM	4.9083	3639.52	
4/30/02 02:10:00 PM	4.9167	3640.19	
4/30/02 02:10:30 PM	4.9250	3640.20	
4/30/02 02:11:00 PM	4.9333	3641.69	
4/30/02 02:11:30 PM	4.9417	3642.37	
4/30/02 02:12:00 PM	4.9500	3643.04	
4/30/02 02:12:30 PM	4.9583	3642.91	
4/30/02 02:13:00 PM	4.9667	3643.59	
4/30/02 02:13:30 PM	4.9750	3644.27	
4/30/02 02:14:00 PM	4.9833	3644.88	
4/30/02 02:14:30 PM	4.9917	3646.17	
4/30/02 02:15:00 PM	5.0000	3646.85	
4/30/02 02:15:30 PM	5.0083	3646.66	
4/30/02 02:15:31 PM			START 17TH RATE @ 3800 BPD
4/30/02 02:16:00 PM	5.0167	3647.39	
4/30/02 02:16:30 PM	5.0250	3648.88	
4/30/02 02:17:00 PM	5.0333	3649.01	
4/30/02 02:17:30 PM	5.0417	3650.51	
4/30/02 02:18:00 PM	5.0500	3651.12	
4/30/02 02:18:30 PM	5.0583	3651.23	
4/30/02 02:19:00 PM	5.0667	3652.04	
4/30/02 02:19:30 PM	5.0750	3653.40	
4/30/02 02:20:00 PM	5.0833	3653.39	
4/30/02 02:20:30 PM	5.0917	3654.00	
4/30/02 02:21:00 PM	5.1000	3655.38	
4/30/02 02:21:30 PM	5.1083	3656.06	
4/30/02 02:22:00 PM	5.1167	3656.70	
4/30/02 02:22:30 PM	5.1250	3657.38	
4/30/02 02:23:00 PM	5.1333	3657.35	
4/30/02 02:23:30 PM	5.1417	3658.59	
4/30/02 02:24:00 PM	5.1500	3659.15	
4/30/02 02:24:30 PM	5.1583	3659.79	
4/30/02 02:25:00 PM	5.1667	3660.36	
4/30/02 02:25:30 PM	5.1750	3660.99	
4/30/02 02:26:00 PM	5.1833	3661.66	
4/30/02 02:26:30 PM	5.1917	3662.20	
4/30/02 02:27:00 PM	5.2000	3662.15	
4/30/02 02:27:30 PM	5.2083	3663.30	
4/30/02 02:28:00 PM	5.2167	3663.84	
4/30/02 02:28:30 PM	5.2250	3664.40	
4/30/02 02:29:00 PM	5.2333	3664.98	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 02:29:30 PM	5.2417	3665.60	
4/30/02 02:30:00 PM	5.2500	3665.38	
4/30/02 02:30:30 PM	5.2583	3666.04	
4/30/02 02:30:31 PM			START 18TH RATE @ 4000 BPD
4/30/02 02:31:00 PM	5.2667	3667.75	
4/30/02 02:31:30 PM	5.2750	3667.75	
4/30/02 02:32:00 PM	5.2833	3668.99	
4/30/02 02:32:30 PM	5.2917	3669.03	
4/30/02 02:33:00 PM	5.3000	3669.53	
4/30/02 02:33:30 PM	5.3083	3670.22	
4/30/02 02:34:00 PM	5.3167	3670.63	
4/30/02 02:34:30 PM	5.3250	3671.96	
4/30/02 02:35:00 PM	5.3333	3672.52	
4/30/02 02:35:30 PM	5.3417	3672.95	
4/30/02 02:36:00 PM	5.3500	3673.59	
4/30/02 02:36:30 PM	5.3583	3674.04	
4/30/02 02:37:00 PM	5.3667	3674.60	
4/30/02 02:37:30 PM	5.3750	3674.39	
4/30/02 02:38:00 PM	5.3833	3674.87	
4/30/02 02:38:30 PM	5.3917	3675.41	
4/30/02 02:39:00 PM	5.4000	3676.49	
4/30/02 02:39:30 PM	5.4083	3677.07	
4/30/02 02:40:00 PM	5.4167	3677.57	
4/30/02 02:40:30 PM	5.4250	3677.93	
4/30/02 02:41:00 PM	5.4333	3678.45	
4/30/02 02:41:30 PM	5.4417	3678.20	
4/30/02 02:42:00 PM	5.4500	3679.29	
4/30/02 02:42:30 PM	5.4583	3679.83	
4/30/02 02:43:00 PM	5.4667	3679.64	
4/30/02 02:43:30 PM	5.4750	3680.67	
4/30/02 02:44:00 PM	5.4833	3681.11	
4/30/02 02:44:30 PM	5.4917	3681.72	
4/30/02 02:45:00 PM	5.5000	3682.07	
4/30/02 02:45:01 PM			START 19TH RATE @ 4200 BPD
4/30/02 02:45:30 PM	5.5083	3682.83	
4/30/02 02:46:00 PM	5.5167	3683.36	
4/30/02 02:46:30 PM	5.5250	3683.82	
4/30/02 02:47:00 PM	5.5333	3683.63	
4/30/02 02:47:30 PM	5.5417	3684.75	
4/30/02 02:48:00 PM	5.5500	3685.23	
4/30/02 02:48:30 PM	5.5583	3685.59	
4/30/02 02:49:00 PM	5.5667	3686.10	
4/30/02 02:49:30 PM	5.5750	3686.39	
4/30/02 02:50:00 PM	5.5833	3686.99	
4/30/02 02:50:30 PM	5.5917	3687.28	
4/30/02 02:51:00 PM	5.6000	3687.77	
4/30/02 02:51:30 PM	5.6083	3688.16	
4/30/02 02:52:00 PM	5.6167	3688.64	
4/30/02 02:52:30 PM	5.6250	3688.34	
4/30/02 02:53:00 PM	5.6333	3689.38	
4/30/02 02:53:30 PM	5.6417	3689.89	
4/30/02 02:54:00 PM	5.6500	3689.49	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 02:54:30 PM	5.6583	3690.61	
4/30/02 02:55:00 PM	5.6667	3691.03	
4/30/02 02:55:30 PM	5.6750	3691.36	
4/30/02 02:56:00 PM	5.6833	3691.78	
4/30/02 02:56:30 PM	5.6917	3692.07	
4/30/02 02:57:00 PM	5.7000	3692.59	
4/30/02 02:57:30 PM	5.7083	3692.89	
4/30/02 02:58:00 PM	5.7167	3693.20	
4/30/02 02:58:30 PM	5.7250	3692.99	
4/30/02 02:59:00 PM	5.7333	3693.92	
4/30/02 02:59:30 PM	5.7417	3694.38	
4/30/02 03:00:00 PM	5.7500	3694.72	
4/30/02 03:00:01 PM			START 20TH RATE @ 4400 BPD
4/30/02 03:00:30 PM	5.7583	3695.48	
4/30/02 03:01:00 PM	5.7667	3696.00	
4/30/02 03:01:30 PM	5.7750	3696.43	
4/30/02 03:02:00 PM	5.7833	3696.81	
4/30/02 03:02:30 PM	5.7917	3697.34	
4/30/02 03:03:00 PM	5.8000	3697.75	
4/30/02 03:03:30 PM	5.8083	3698.13	
4/30/02 03:04:00 PM	5.8167	3697.85	
4/30/02 03:04:30 PM	5.8250	3699.09	
4/30/02 03:05:00 PM	5.8333	3699.45	
4/30/02 03:05:30 PM	5.8417	3699.26	
4/30/02 03:06:00 PM	5.8500	3700.34	
4/30/02 03:06:30 PM	5.8583	3700.77	
4/30/02 03:07:00 PM	5.8667	3701.14	
4/30/02 03:07:30 PM	5.8750	3701.59	
4/30/02 03:08:00 PM	5.8833	3701.96	
4/30/02 03:08:30 PM	5.8917	3701.57	
4/30/02 03:09:00 PM	5.9000	3702.70	
4/30/02 03:09:30 PM	5.9083	3703.00	
4/30/02 03:10:00 PM	5.9167	3703.38	
4/30/02 03:10:30 PM	5.9250	3703.72	
4/30/02 03:11:00 PM	5.9333	3704.12	
4/30/02 03:11:30 PM	5.9417	3704.44	
4/30/02 03:12:00 PM	5.9500	3704.81	
4/30/02 03:12:30 PM	5.9583	3705.15	
4/30/02 03:13:00 PM	5.9667	3705.44	
4/30/02 03:13:30 PM	5.9750	3705.80	
4/30/02 03:14:00 PM	5.9833	3706.12	
4/30/02 03:14:30 PM	5.9917	3706.46	
4/30/02 03:15:00 PM	6.0000	3706.83	
4/30/02 03:15:01 PM			START 21TH RATE @ 4600 BPD
4/30/02 03:15:30 PM	6.0083	3707.59	
4/30/02 03:16:00 PM	6.0167	3708.07	
4/30/02 03:16:30 PM	6.0250	3707.67	
4/30/02 03:17:00 PM	6.0333	3708.77	
4/30/02 03:17:30 PM	6.0417	3709.19	
4/30/02 03:18:00 PM	6.0500	3709.56	
4/30/02 03:18:30 PM	6.0583	3709.90	
4/30/02 03:19:00 PM	6.0667	3710.27	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
4/30/02 03:19:30 PM	6.0750	3710.64	
4/30/02 03:20:00 PM	6.0833	3710.99	
4/30/02 03:20:30 PM	6.0917	3711.33	
4/30/02 03:21:00 PM	6.1000	3711.59	
4/30/02 03:21:30 PM	6.1083	3711.99	
4/30/02 03:22:00 PM	6.1167	3712.32	
4/30/02 03:22:30 PM	6.1250	3712.69	
4/30/02 03:23:00 PM	6.1333	3712.99	
4/30/02 03:23:30 PM	6.1417	3713.38	
4/30/02 03:24:00 PM	6.1500	3713.69	
4/30/02 03:24:30 PM	6.1583	3713.99	
4/30/02 03:25:00 PM	6.1667	3714.36	
4/30/02 03:25:30 PM	6.1750	3714.59	
4/30/02 03:26:00 PM	6.1833	3715.00	
4/30/02 03:26:30 PM	6.1917	3715.23	
4/30/02 03:27:00 PM	6.2000	3715.52	
4/30/02 03:27:30 PM	6.2083	3715.85	
4/30/02 03:28:00 PM	6.2167	3716.18	
4/30/02 03:28:30 PM	6.2250	3716.42	
4/30/02 03:29:00 PM	6.2333	3716.78	
4/30/02 03:29:30 PM	6.2417	3717.03	
4/30/02 03:30:00 PM	6.2500	3717.30	
4/30/02 03:30:01 PM			START 22TH RATE @ 4800 BPD
4/30/02 03:30:30 PM	6.2583	3718.05	
4/30/02 03:31:00 PM	6.2667	3717.66	
4/30/02 03:31:30 PM	6.2750	3718.75	
4/30/02 03:32:00 PM	6.2833	3719.11	
4/30/02 03:32:30 PM	6.2917	3719.40	
4/30/02 03:33:00 PM	6.3000	3719.74	
4/30/02 03:33:30 PM	6.3083	3720.06	
4/30/02 03:34:00 PM	6.3167	3719.64	
4/30/02 03:34:30 PM	6.3250	3720.69	
4/30/02 03:35:00 PM	6.3333	3720.97	
4/30/02 03:35:30 PM	6.3417	3721.23	
4/30/02 03:36:00 PM	6.3500	3721.54	
4/30/02 03:36:30 PM	6.3583	3721.91	
4/30/02 03:37:00 PM	6.3667	3722.18	
4/30/02 03:37:30 PM	6.3750	3722.49	
4/30/02 03:38:00 PM	6.3833	3722.74	
4/30/02 03:38:30 PM	6.3917	3723.03	
4/30/02 03:39:00 PM	6.4000	3723.37	
4/30/02 03:39:30 PM	6.4083	3722.94	
4/30/02 03:40:00 PM	6.4167	3723.94	
4/30/02 03:40:30 PM	6.4250	3724.19	
4/30/02 03:41:00 PM	6.4333	3724.51	
4/30/02 03:41:30 PM	6.4417	3724.82	
4/30/02 03:42:00 PM	6.4500	3725.10	
4/30/02 03:42:30 PM	6.4583	3725.39	
4/30/02 03:43:00 PM	6.4667	3725.66	
4/30/02 03:43:30 PM	6.4750	3725.97	
4/30/02 03:44:00 PM	6.4833	3726.27	
4/30/02 03:44:30 PM	6.4917	3726.52	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 55079
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4/30/02 03:45:00 PM	6.5000	3726.94	
4/30/02 03:45:01 PM			START 23TH RATE @ 5200 BPD
4/30/02 03:45:30 PM	6.5083	3727.54	
4/30/02 03:46:00 PM	6.5167	3727.80	
4/30/02 03:46:30 PM	6.5250	3727.45	
4/30/02 03:47:00 PM	6.5333	3728.41	
4/30/02 03:47:30 PM	6.5417	3728.79	
4/30/02 03:48:00 PM	6.5500	3729.04	
4/30/02 03:48:30 PM	6.5583	3728.72	
4/30/02 03:49:00 PM	6.5667	3729.01	
4/30/02 03:49:30 PM	6.5750	3730.05	
4/30/02 03:50:00 PM	6.5833	3730.22	
4/30/02 03:50:30 PM	6.5917	3729.88	
4/30/02 03:51:00 PM	6.6000	3730.89	
4/30/02 03:51:30 PM	6.6083	3731.14	
4/30/02 03:52:00 PM	6.6167	3731.44	
4/30/02 03:52:30 PM	6.6250	3731.83	
4/30/02 03:53:00 PM	6.6333	3732.01	
4/30/02 03:53:30 PM	6.6417	3732.29	
4/30/02 03:54:00 PM	6.6500	3732.56	
4/30/02 03:54:30 PM	6.6583	3732.79	
4/30/02 03:55:00 PM	6.6667	3733.09	
4/30/02 03:55:30 PM	6.6750	3733.37	
4/30/02 03:56:00 PM	6.6833	3733.62	
4/30/02 03:56:30 PM	6.6917	3733.92	
4/30/02 03:57:00 PM	6.7000	3734.22	
4/30/02 03:57:30 PM	6.7083	3734.45	
4/30/02 03:58:00 PM	6.7167	3734.84	
4/30/02 03:58:30 PM	6.7250	3734.28	
4/30/02 03:59:00 PM	6.7333	3735.30	
4/30/02 03:59:30 PM	6.7417	3735.53	
4/30/02 04:00:00 PM	6.7500	3735.76	
4/30/02 04:00:01 PM			END FINAL RATE, CONCLUDE TEST

