



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Betty Rivera

Cabinet Secretary

December 17, 2002

Lori Wrotenberg

Director

Oil Conservation Division

Saga Petroleum
415 W. Wall, Suite 1900
Midland, Texas 79701

Attn: Ms. Bonnie Husband

RE: Injection Pressure Increase - 192
Central Corbin Queen Unit Well No. 204
Lea County, New Mexico

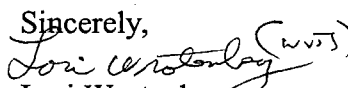
Dear Ms. Husband:

Reference is made to your request to the New Mexico Oil Conservation Division (Division) received December 12, 2002, to increase the surface injection pressure on the subject well. This request is based on a step rate test conducted December 5, 2002. Results of the test have been reviewed and we feel an increase in injection pressure on this well is justified at this time.

You are hereby authorized to inject water at pressures up to the following maximum surface tubing pressure.

Well and Location	Maximum Surface Injection Pressure
Central Corbin Queen Unit No. 204 API:30-025-29738	2200 PSIG
This well is located in Section 4, Township 18 South, Range 33 East, 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,

Lori Wrotenberg
Director

LW/wvjj

cc: Oil Conservation Division - Hobbs
File: 2002 PSI-X;
Case File 10063

PKRVO 234656642

1P1

NA

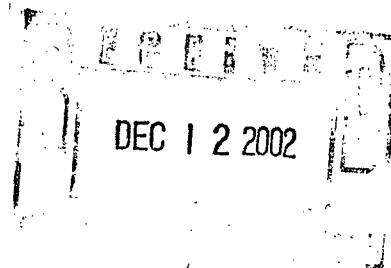


PETROLEUM

WVS

December 9, 2002

Mr. Will Jones
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505



Re: CCQU Well #204
~~660' PNL & 790' FEL~~
Sec. 4 (I), T18S, R33E
Lea County, NM
API No. 30-025-29738

AL#4
(4200-4217)

Gentlemen:

Please find enclosed statistical data – step rate tests for the referenced water injection well. Saga respectfully requests approval to increase the injection pressure to 2250 psi. The Central Corbin Queen Unit was formed under Order R9336, dated 10-19-90. Should you require any further information, please contact the undersigned or Joe Clement at 915/684-4293.

Very truly yours,

SAGA PETROLEUM LLC

Bonnie Husband

Bonnie Husband
Production Analyst

(R-9336
840psi)

Enclosures

(PSI-X 1st QTR 1995
Set 1,710psi)

R-8104



OPERATIONS LOG

COMPANY: SAGA PETROLEUM CORP.
LEASE: CENTRAL CORBIN QUEEN # 204
FIELD (FORMATION): ()
COUNTY: EDDY
STATE: NM

TEST TYPE: STEP-RATE

ENGINEER: JOE CLEMENTS
FIELD REP: RODNEY LONG
JOB RUN BY: MAX WHEELER
DATA PREPARED BY: ROD DODSON
INSTRUMENT: A-39

DATE	TIME	DWG	OPERATIONS LOG - JOB NUMBER: 56466
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12/5/02 08:00:00 AM		ON LOCATION
12/5/02 08:48:00 AM		START GAUGE #A-39
12/5/02 09:09:00 AM		IN LUBRICATOR W/ GAUGES
12/5/02 09:20:00 AM		HIT TIGHT SPOT W/ GAUGES @ 1373'
12/5/02 10:19:00 AM		BACK IN LUBRICATOR W/ GAUGES
12/5/02 10:41:30 AM		ON BOTTOM W/ GAUGES @ 4202'
12/5/02 10:47:31 AM	1938	START 1ST RATE @ 25 BPD
12/5/02 11:14:01 AM	1995	START 2ND RATE @ 50 BPD
12/5/02 11:44:31 AM	2022	START 3RD RATE @ 75 BPD
12/5/02 12:15:31 PM	2042	START 4TH RATE @ 100 BPD
12/5/02 12:45:01 PM	2064	START 5TH RATE @ 125 BPD
12/5/02 01:15:31 PM	2110	START 6TH RATE @ 150 BPD
12/5/02 01:44:31 PM	2150	START 7TH RATE @ 175 BPD
12/5/02 02:14:31 PM	2192	START 8TH RATE @ 200 BPD
12/5/02 02:44:31 PM	2242	START 9TH RATE @ 225 BPD
12/5/02 03:14:31 PM	2254	START 10TH RATE @ 250 BPD
12/5/02 03:45:01 PM	2260	END 10TH RATE

DATE	TIME	DWG	OPERATIONS LOG - JOB NUMBER: 56466
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12/5/02 03:50:31 PM

OFF BOTTOM W/ GAUGES



COMPANY: SAGA PETROLEUM CORP.
LEASE: CENTRAL CORBIN QUEEN # 204
FIELD (FORMATION): ()
COUNTY: EDDY
STATE: NM

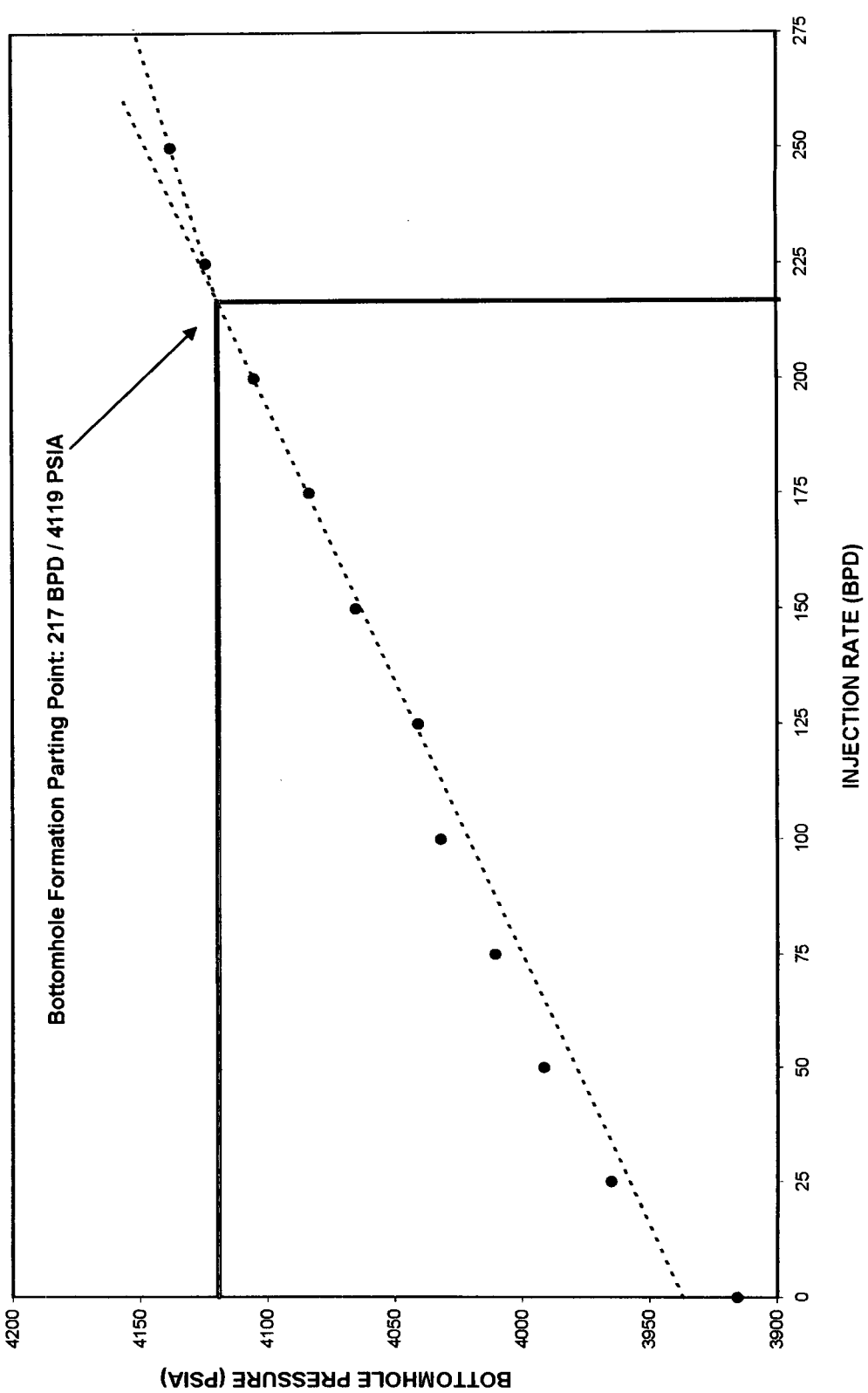
TEST DATES: 12/5/02 - 12/5/02
RUN DEPTH: 4202
INSTRUMENT: A-39

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	WELLHEAD PRESSURE, PSIG	INJECTION RATE, BPD	JOB NUMBER: 56466
12/5/02 10:47:30 AM	1.9917	3915.54	1938.00	0.00	
12/5/02 11:14:00 AM	2.4333	3965.21	1995.00	25.00	
12/5/02 11:44:30 AM	2.9417	3991.63	2022.00	50.00	
12/5/02 12:15:30 PM	3.4583	4010.51	2042.00	75.00	
12/5/02 12:45:00 PM	3.9500	4031.93	2064.00	100.00	
12/5/02 01:15:30 PM	4.4583	4040.76	2110.00	125.00	
12/5/02 01:44:30 PM	4.9417	4065.26	2150.00	150.00	
12/5/02 02:14:30 PM	5.4417	4083.38	2192.00	175.00	
12/5/02 02:44:30 PM	5.9417	4104.87	2242.00	200.00	
12/5/02 03:14:30 PM	6.4417	4123.74	2254.00	225.00	
12/5/02 03:45:00 PM	6.9500	4137.37	2260.00	250.00	



COMPANY:	SAGA PETROLEUM CORP.	FIELD:		JOB #	56466
LEASE:	CENTRAL CORBIN QUEEN	COUNTY:	EDDY	TEST DATE:	12/5/02
WELL NUMBER:	204	STATE:	NM		- 12/5/02

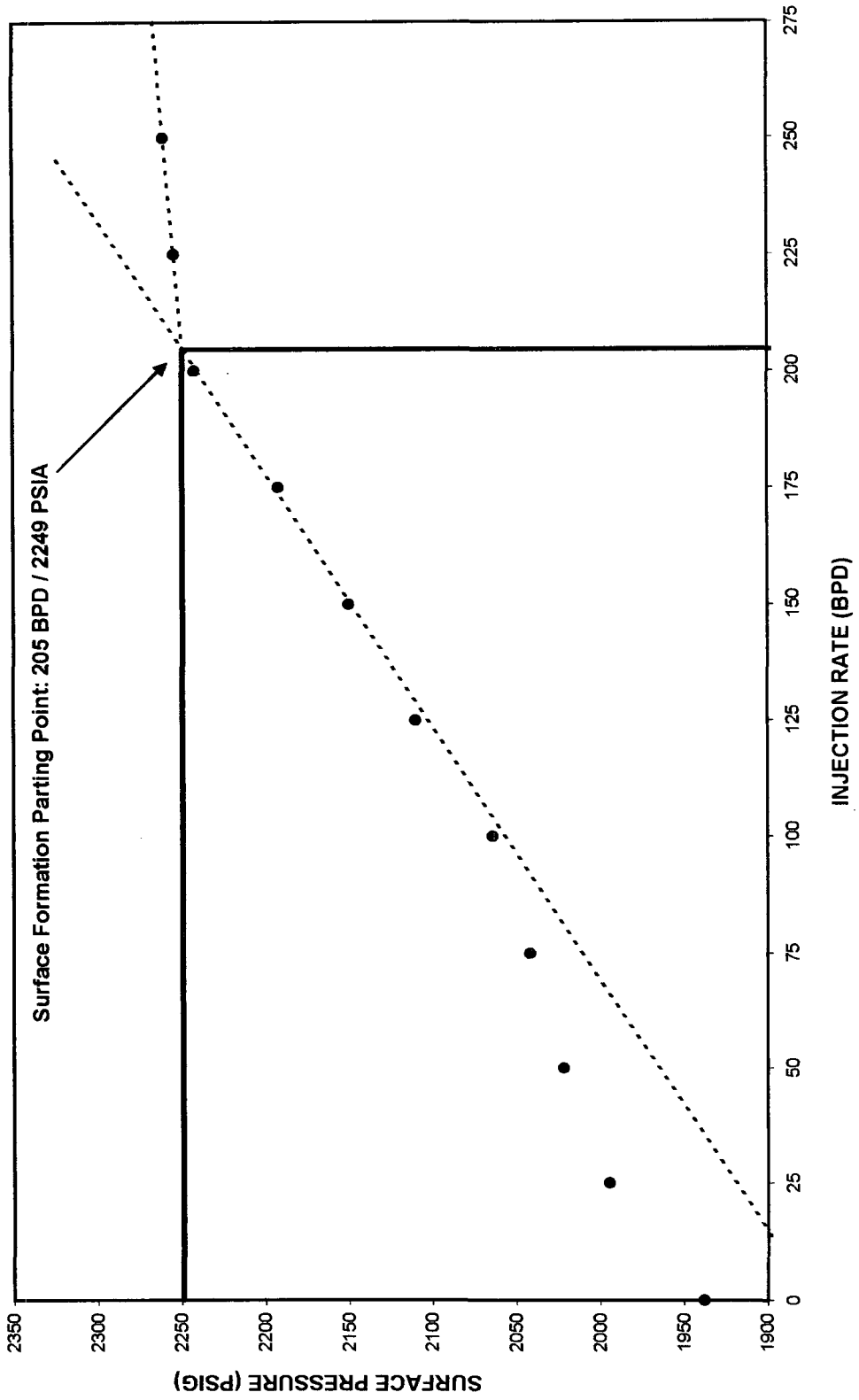
STEP-RATE TEST - BHP VS. INJECTION RATE





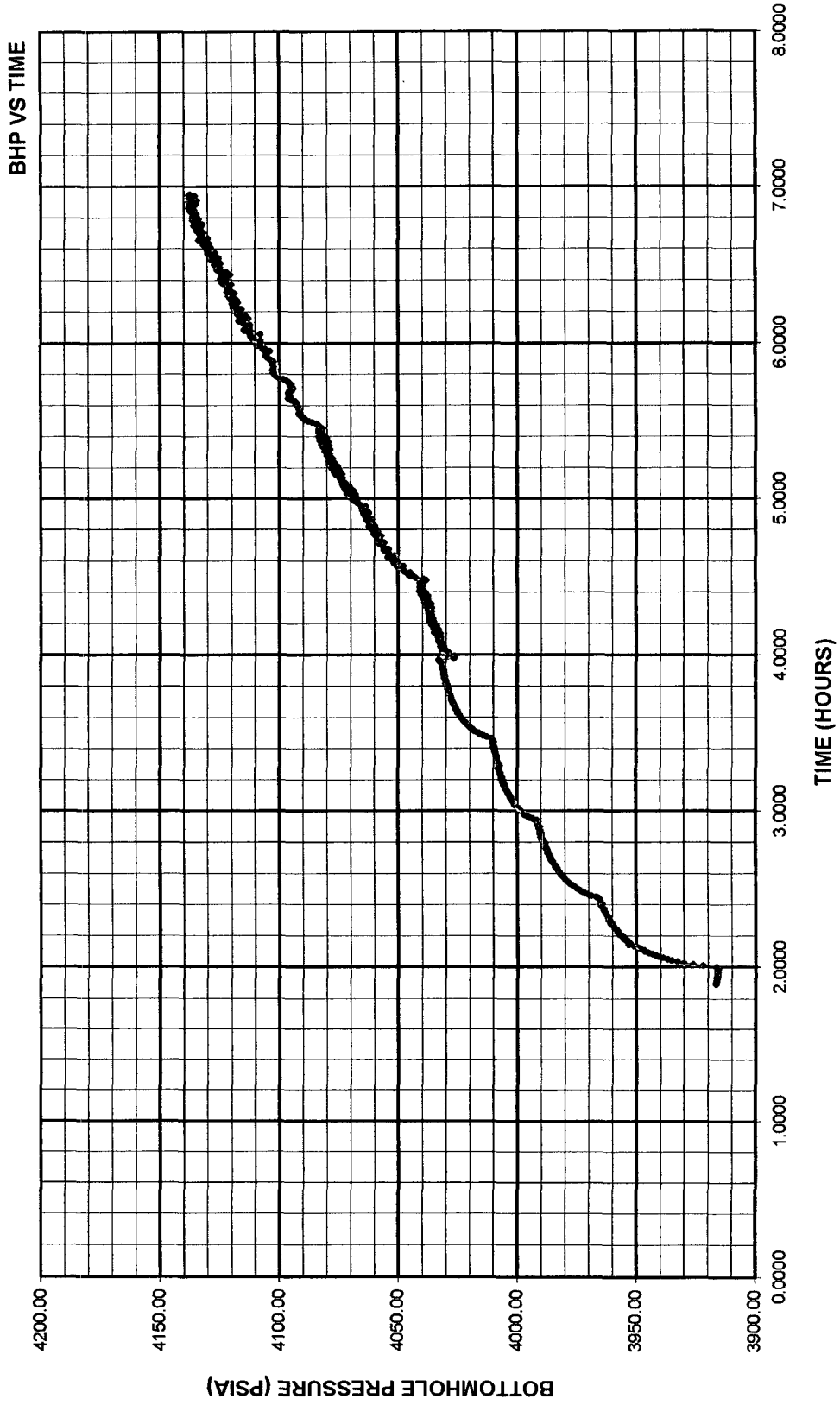
COMPANY: SAGA PETROLEUM CORP. FIELD: JOB # 56466
LEASE: CENTRAL CORBIN QUEEN COUNTY: EDDY TEST DATE: 12/5/02
WELL NUMBER: 204 STATE: NM

STEP-RATE TEST - WHP VS. INJECTION RATE



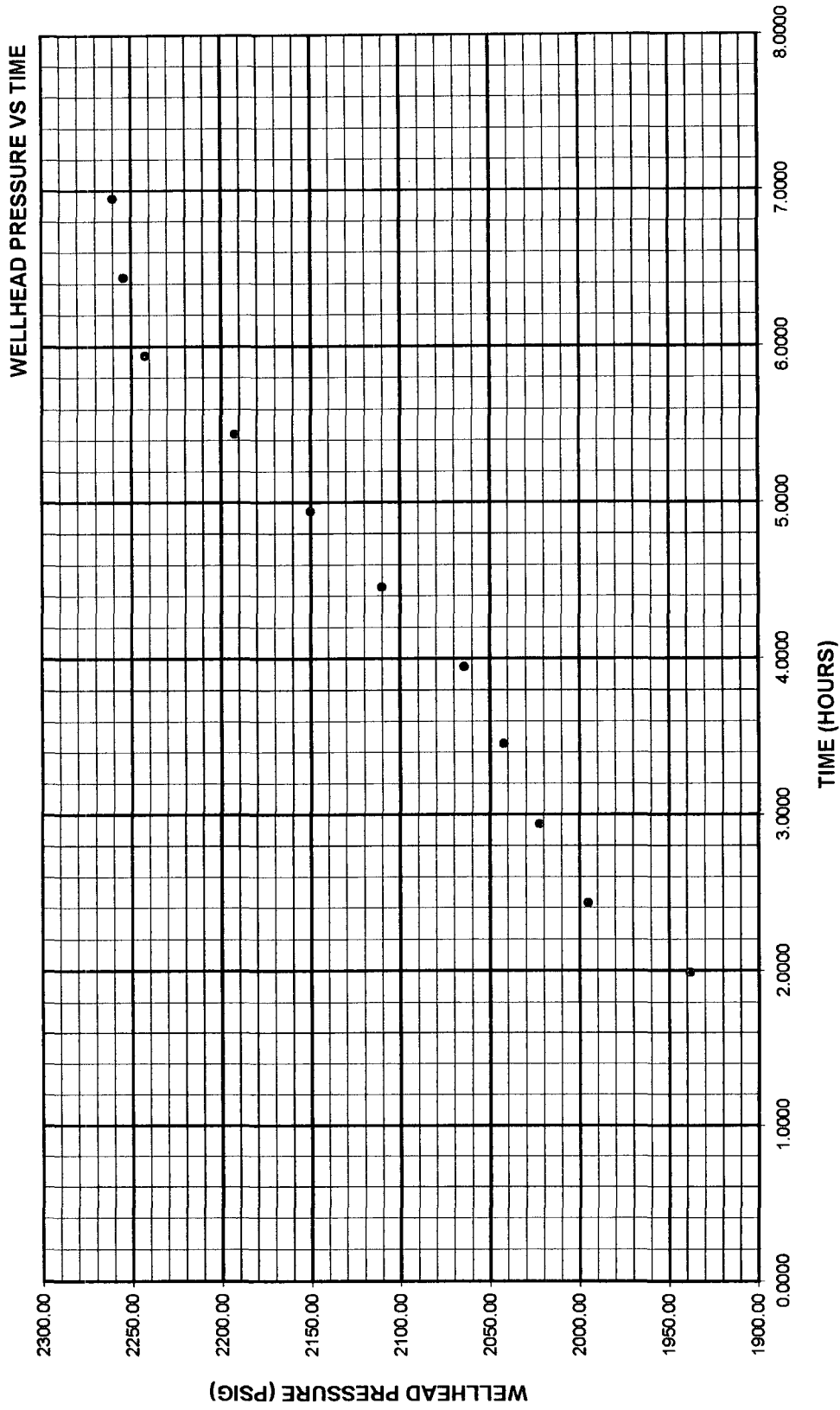


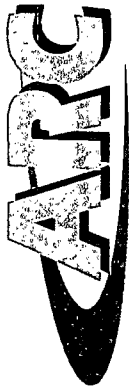
COMPANY: SAGA PETROLEUM CORP. FIELD: EDDY COUNTY: NM
LEASE: CENTRAL CORBIN QUEEN
WELL NUMBER: 204
JOB # 56466
TEST DATE: 12/5/02
12/5/02





COMPANY: SAGA PETROLEUM CORP. FIELD: EDDY COUNTY: NM
LEASE: CENTRAL CORBIN QUEEN
WELL NUMBER: 204
JOB # 58466
TEST DATE: 12/5/02

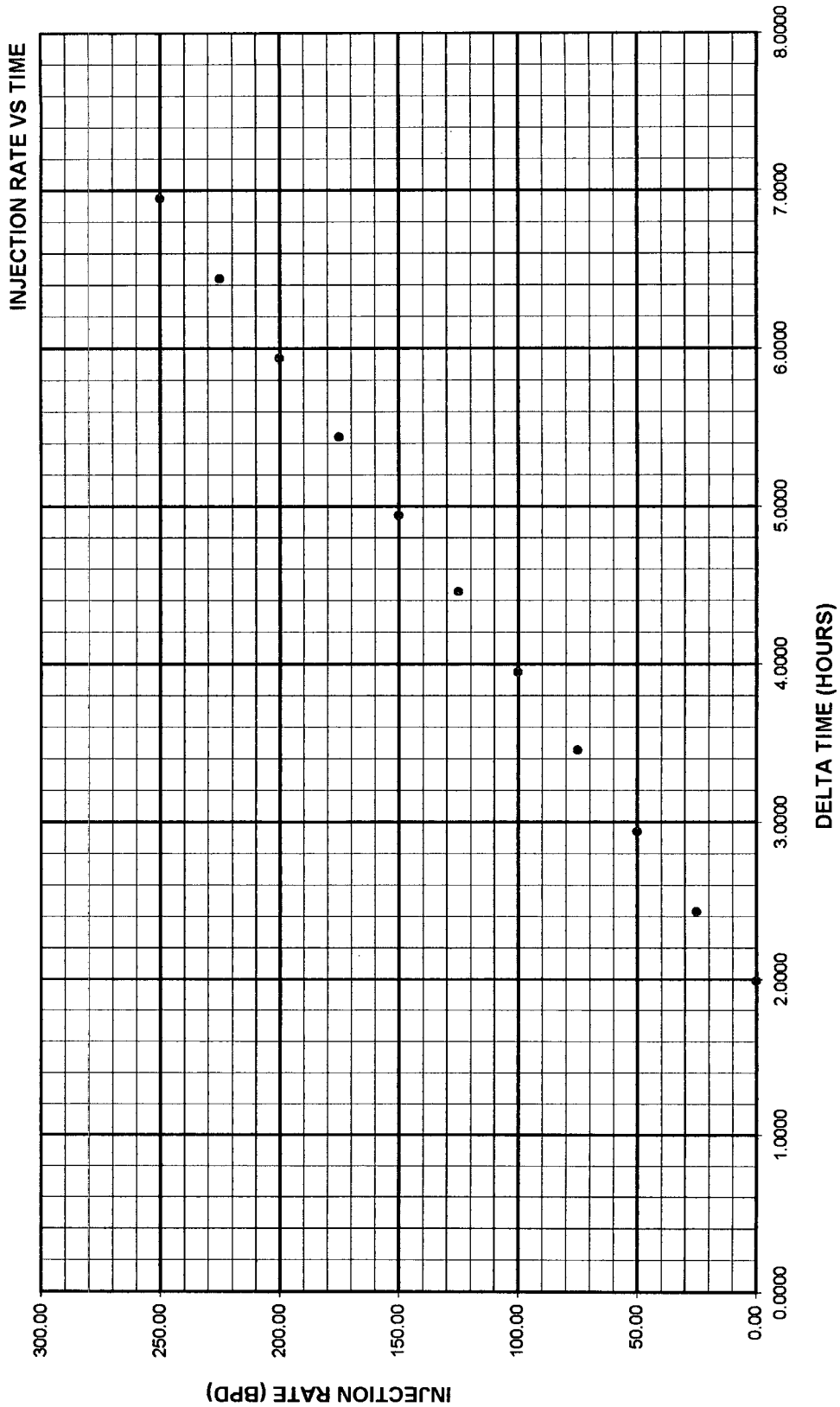




COMPANY: SAGA PETROLEUM CORP.
LEASE: CENTRAL CORBIN QUEEN
WELL NUMBER: 204

FIELD: EDDY
COUNTY: NM
STATE: NM

JOB # 58466
TEST DATE: 12/5/02 - 12/5/02





COMPANY: SAGA PETROLEUM CORP.
 LEASE: CENTRAL CORBIN QUEEN # 204
 FIELD (FORMATION): ()
 COUNTY: EDDY
 STATE: NM

TEST DATES: 12/5/02 - 12/5/02
 RUN DEPTH: 4202
 INSTRUMENT: A-39

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 08:00:00 AM			ON LOCATION
12/5/02 08:48:00 AM			START GAUGE #A-39
12/5/02 09:09:00 AM			IN LUBRICATOR W/ GAUGES
12/5/02 09:20:00 AM			HIT TIGHT SPOT W/ GAUGES @ 1373'
12/5/02 10:19:00 AM			BACK IN LUBRICATOR W/ GAUGES
12/5/02 10:41:30 AM			ON BOTTOM W/ GAUGES @ 4202'
12/5/02 10:41:30 AM	1.8917	3916.37	
12/5/02 10:42:00 AM	1.9000	3916.34	
12/5/02 10:42:30 AM	1.9083	3916.18	
12/5/02 10:43:00 AM	1.9167	3916.16	
12/5/02 10:43:30 AM	1.9250	3915.79	
12/5/02 10:44:00 AM	1.9333	3915.99	
12/5/02 10:44:30 AM	1.9417	3915.91	
12/5/02 10:45:00 AM	1.9500	3915.85	
12/5/02 10:45:30 AM	1.9583	3915.79	
12/5/02 10:46:00 AM	1.9667	3915.73	
12/5/02 10:46:30 AM	1.9750	3915.85	
12/5/02 10:47:00 AM	1.9833	3915.69	
12/5/02 10:47:30 AM	1.9917	3915.54	
12/5/02 10:47:31 AM			START 1ST RATE @ 25 BPD
12/5/02 10:48:00 AM	2.0000	3916.25	
12/5/02 10:48:30 AM	2.0083	3921.97	
12/5/02 10:49:00 AM	2.0167	3926.23	
12/5/02 10:49:30 AM	2.0250	3929.98	
12/5/02 10:50:00 AM	2.0333	3932.62	
12/5/02 10:50:30 AM	2.0417	3935.05	
12/5/02 10:51:00 AM	2.0500	3936.74	
12/5/02 10:51:30 AM	2.0583	3938.65	
12/5/02 10:52:00 AM	2.0667	3940.46	
12/5/02 10:52:30 AM	2.0750	3941.72	
12/5/02 10:53:00 AM	2.0833	3943.25	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 10:53:30 AM	2.0917	3944.75
12/5/02 10:54:00 AM	2.1000	3946.39
12/5/02 10:54:30 AM	2.1083	3946.71
12/5/02 10:55:00 AM	2.1167	3948.24
12/5/02 10:55:30 AM	2.1250	3949.10
12/5/02 10:56:00 AM	2.1333	3950.96
12/5/02 10:56:30 AM	2.1417	3953.18
12/5/02 10:57:00 AM	2.1500	3952.43
12/5/02 10:57:30 AM	2.1583	3952.87
12/5/02 10:58:00 AM	2.1667	3953.86
12/5/02 10:58:30 AM	2.1750	3953.92
12/5/02 10:59:00 AM	2.1833	3955.40
12/5/02 10:59:30 AM	2.1917	3955.45
12/5/02 11:00:00 AM	2.2000	3955.59
12/5/02 11:00:30 AM	2.2083	3957.06
12/5/02 11:01:00 AM	2.2167	3957.13
12/5/02 11:01:30 AM	2.2250	3957.83
12/5/02 11:02:00 AM	2.2333	3957.72
12/5/02 11:02:30 AM	2.2417	3958.20
12/5/02 11:03:00 AM	2.2500	3959.04
12/5/02 11:03:30 AM	2.2583	3959.32
12/5/02 11:04:00 AM	2.2667	3959.58
12/5/02 11:04:30 AM	2.2750	3960.63
12/5/02 11:05:00 AM	2.2833	3960.21
12/5/02 11:05:30 AM	2.2917	3961.04
12/5/02 11:06:00 AM	2.3000	3961.62
12/5/02 11:06:30 AM	2.3083	3961.42
12/5/02 11:07:00 AM	2.3167	3961.29
12/5/02 11:07:30 AM	2.3250	3961.75
12/5/02 11:08:00 AM	2.3333	3962.23
12/5/02 11:08:30 AM	2.3417	3962.66
12/5/02 11:09:00 AM	2.3500	3962.93
12/5/02 11:09:30 AM	2.3583	3963.47
12/5/02 11:10:00 AM	2.3667	3963.28
12/5/02 11:10:30 AM	2.3750	3963.30
12/5/02 11:11:00 AM	2.3833	3964.24
12/5/02 11:11:30 AM	2.3917	3964.78
12/5/02 11:12:00 AM	2.4000	3964.48
12/5/02 11:12:30 AM	2.4083	3964.32
12/5/02 11:13:00 AM	2.4167	3964.96
12/5/02 11:13:30 AM	2.4250	3965.13
12/5/02 11:14:00 AM	2.4333	3965.21
12/5/02 11:14:01 AM		START 2ND RATE @ 50 BPD
12/5/02 11:14:30 AM	2.4417	3965.77
12/5/02 11:15:00 AM	2.4500	3966.69
12/5/02 11:15:30 AM	2.4583	3968.73
12/5/02 11:16:00 AM	2.4667	3970.24

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 11:16:30 AM	2.4750	3971.40
12/5/02 11:17:00 AM	2.4833	3972.59
12/5/02 11:17:30 AM	2.4917	3973.43
12/5/02 11:18:00 AM	2.5000	3974.60
12/5/02 11:18:30 AM	2.5083	3975.33
12/5/02 11:19:00 AM	2.5167	3975.90
12/5/02 11:19:30 AM	2.5250	3976.80
12/5/02 11:20:00 AM	2.5333	3977.54
12/5/02 11:20:30 AM	2.5417	3978.35
12/5/02 11:21:00 AM	2.5500	3978.77
12/5/02 11:21:30 AM	2.5583	3979.52
12/5/02 11:22:00 AM	2.5667	3979.86
12/5/02 11:22:30 AM	2.5750	3980.12
12/5/02 11:23:00 AM	2.5833	3980.90
12/5/02 11:23:30 AM	2.5917	3981.31
12/5/02 11:24:00 AM	2.6000	3981.96
12/5/02 11:24:30 AM	2.6083	3982.15
12/5/02 11:25:00 AM	2.6167	3982.70
12/5/02 11:25:30 AM	2.6250	3982.99
12/5/02 11:26:00 AM	2.6333	3983.08
12/5/02 11:26:30 AM	2.6417	3983.83
12/5/02 11:27:00 AM	2.6500	3983.77
12/5/02 11:27:30 AM	2.6583	3984.30
12/5/02 11:28:00 AM	2.6667	3984.68
12/5/02 11:28:30 AM	2.6750	3984.95
12/5/02 11:29:00 AM	2.6833	3985.73
12/5/02 11:29:30 AM	2.6917	3985.67
12/5/02 11:30:00 AM	2.7000	3985.96
12/5/02 11:30:30 AM	2.7083	3986.02
12/5/02 11:31:00 AM	2.7167	3986.49
12/5/02 11:31:30 AM	2.7250	3986.60
12/5/02 11:32:00 AM	2.7333	3987.14
12/5/02 11:32:30 AM	2.7417	3987.10
12/5/02 11:33:00 AM	2.7500	3987.35
12/5/02 11:33:30 AM	2.7583	3987.49
12/5/02 11:34:00 AM	2.7667	3988.21
12/5/02 11:34:30 AM	2.7750	3988.14
12/5/02 11:35:00 AM	2.7833	3988.27
12/5/02 11:35:30 AM	2.7917	3988.37
12/5/02 11:36:00 AM	2.8000	3988.70
12/5/02 11:36:30 AM	2.8083	3988.74
12/5/02 11:37:00 AM	2.8167	3989.53
12/5/02 11:37:30 AM	2.8250	3989.52
12/5/02 11:38:00 AM	2.8333	3989.98
12/5/02 11:38:30 AM	2.8417	3989.82
12/5/02 11:39:00 AM	2.8500	3990.16
12/5/02 11:39:30 AM	2.8583	3989.82

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 11:40:00 AM	2.8667	3990.41
12/5/02 11:40:30 AM	2.8750	3990.15
12/5/02 11:41:00 AM	2.8833	3990.60
12/5/02 11:41:30 AM	2.8917	3990.83
12/5/02 11:42:00 AM	2.9000	3990.36
12/5/02 11:42:30 AM	2.9083	3991.21
12/5/02 11:43:00 AM	2.9167	3991.19
12/5/02 11:43:30 AM	2.9250	3991.46
12/5/02 11:44:00 AM	2.9333	3991.81
12/5/02 11:44:30 AM	2.9417	3991.63
12/5/02 11:44:31 AM		
12/5/02 11:45:00 AM	2.9500	3993.23
12/5/02 11:45:30 AM	2.9583	3994.55
12/5/02 11:46:00 AM	2.9667	3995.55
12/5/02 11:46:30 AM	2.9750	3996.75
12/5/02 11:47:00 AM	2.9833	3996.98
12/5/02 11:47:30 AM	2.9917	3997.81
12/5/02 11:48:00 AM	3.0000	3998.18
12/5/02 11:48:30 AM	3.0083	3998.69
12/5/02 11:49:00 AM	3.0167	3999.40
12/5/02 11:49:30 AM	3.0250	3999.91
12/5/02 11:50:00 AM	3.0333	4000.65
12/5/02 11:50:30 AM	3.0417	4000.98
12/5/02 11:51:00 AM	3.0500	4001.10
12/5/02 11:51:30 AM	3.0583	4001.48
12/5/02 11:52:00 AM	3.0667	4001.90
12/5/02 11:52:30 AM	3.0750	4001.99
12/5/02 11:53:00 AM	3.0833	4002.68
12/5/02 11:53:30 AM	3.0917	4002.71
12/5/02 11:54:00 AM	3.1000	4003.09
12/5/02 11:54:30 AM	3.1083	4003.69
12/5/02 11:55:00 AM	3.1167	4003.61
12/5/02 11:55:30 AM	3.1250	4004.06
12/5/02 11:56:00 AM	3.1333	4004.26
12/5/02 11:56:30 AM	3.1417	4004.93
12/5/02 11:57:00 AM	3.1500	4004.65
12/5/02 11:57:30 AM	3.1583	4005.24
12/5/02 11:58:00 AM	3.1667	4005.56
12/5/02 11:58:30 AM	3.1750	4005.35
12/5/02 11:59:00 AM	3.1833	4005.82
12/5/02 11:59:30 AM	3.1917	4005.77
12/5/02 12:00:00 PM	3.2000	4006.19
12/5/02 12:00:30 PM	3.2083	4006.44
12/5/02 12:01:00 PM	3.2167	4006.18
12/5/02 12:01:30 PM	3.2250	4006.66
12/5/02 12:02:00 PM	3.2333	4006.84
12/5/02 12:02:30 PM	3.2417	4006.91

START 3RD RATE @ 75 BPD

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
12/5/02 12:03:00 PM	3.2500	4007.12	
12/5/02 12:03:30 PM	3.2583	4007.39	
12/5/02 12:04:00 PM	3.2667	4007.57	
12/5/02 12:04:30 PM	3.2750	4007.97	
12/5/02 12:05:00 PM	3.2833	4007.69	
12/5/02 12:05:30 PM	3.2917	4007.59	
12/5/02 12:06:00 PM	3.3000	4007.81	
12/5/02 12:06:30 PM	3.3083	4008.09	
12/5/02 12:07:00 PM	3.3167	4008.29	
12/5/02 12:07:30 PM	3.3250	4008.69	
12/5/02 12:08:00 PM	3.3333	4008.78	
12/5/02 12:08:30 PM	3.3417	4008.79	
12/5/02 12:09:00 PM	3.3500	4008.95	
12/5/02 12:09:30 PM	3.3583	4008.70	
12/5/02 12:10:00 PM	3.3667	4009.03	
12/5/02 12:10:30 PM	3.3750	4009.32	
12/5/02 12:11:00 PM	3.3833	4009.62	
12/5/02 12:11:30 PM	3.3917	4009.65	
12/5/02 12:12:00 PM	3.4000	4009.55	
12/5/02 12:12:30 PM	3.4083	4010.02	
12/5/02 12:13:00 PM	3.4167	4009.87	
12/5/02 12:13:30 PM	3.4250	4009.99	
12/5/02 12:14:00 PM	3.4333	4010.01	
12/5/02 12:14:30 PM	3.4417	4009.97	
12/5/02 12:15:00 PM	3.4500	4010.18	
12/5/02 12:15:30 PM	3.4583	4010.51	
12/5/02 12:15:31 PM			START 4TH RATE @ 100 BPD
12/5/02 12:16:00 PM	3.4667	4010.89	
12/5/02 12:16:30 PM	3.4750	4012.66	
12/5/02 12:17:00 PM	3.4833	4014.16	
12/5/02 12:17:30 PM	3.4917	4015.67	
12/5/02 12:18:00 PM	3.5000	4015.98	
12/5/02 12:18:30 PM	3.5083	4017.22	
12/5/02 12:19:00 PM	3.5167	4018.20	
12/5/02 12:19:30 PM	3.5250	4018.70	
12/5/02 12:20:00 PM	3.5333	4019.49	
12/5/02 12:20:30 PM	3.5417	4019.77	
12/5/02 12:21:00 PM	3.5500	4020.67	
12/5/02 12:21:30 PM	3.5583	4021.05	
12/5/02 12:22:00 PM	3.5667	4021.52	
12/5/02 12:22:30 PM	3.5750	4022.33	
12/5/02 12:23:00 PM	3.5833	4022.80	
12/5/02 12:23:30 PM	3.5917	4023.21	
12/5/02 12:24:00 PM	3.6000	4023.73	
12/5/02 12:24:30 PM	3.6083	4023.93	
12/5/02 12:25:00 PM	3.6167	4024.23	
12/5/02 12:25:30 PM	3.6250	4024.82	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 12:26:00 PM	3.6333	4024.98
12/5/02 12:26:30 PM	3.6417	4025.03
12/5/02 12:27:00 PM	3.6500	4025.66
12/5/02 12:27:30 PM	3.6583	4025.63
12/5/02 12:28:00 PM	3.6667	4025.72
12/5/02 12:28:30 PM	3.6750	4026.31
12/5/02 12:29:00 PM	3.6833	4026.63
12/5/02 12:29:30 PM	3.6917	4026.88
12/5/02 12:30:00 PM	3.7000	4027.03
12/5/02 12:30:30 PM	3.7083	4027.42
12/5/02 12:31:00 PM	3.7167	4027.72
12/5/02 12:31:30 PM	3.7250	4027.61
12/5/02 12:32:00 PM	3.7333	4027.82
12/5/02 12:32:30 PM	3.7417	4028.16
12/5/02 12:33:00 PM	3.7500	4028.36
12/5/02 12:33:30 PM	3.7583	4028.78
12/5/02 12:34:00 PM	3.7667	4028.68
12/5/02 12:34:30 PM	3.7750	4028.94
12/5/02 12:35:00 PM	3.7833	4028.79
12/5/02 12:35:30 PM	3.7917	4029.18
12/5/02 12:36:00 PM	3.8000	4029.05
12/5/02 12:36:30 PM	3.8083	4029.22
12/5/02 12:37:00 PM	3.8167	4029.88
12/5/02 12:37:30 PM	3.8250	4029.79
12/5/02 12:38:00 PM	3.8333	4029.95
12/5/02 12:38:30 PM	3.8417	4030.05
12/5/02 12:39:00 PM	3.8500	4030.42
12/5/02 12:39:30 PM	3.8583	4030.12
12/5/02 12:40:00 PM	3.8667	4030.56
12/5/02 12:40:30 PM	3.8750	4030.54
12/5/02 12:41:00 PM	3.8833	4030.55
12/5/02 12:41:30 PM	3.8917	4030.67
12/5/02 12:42:00 PM	3.9000	4030.65
12/5/02 12:42:30 PM	3.9083	4031.11
12/5/02 12:43:00 PM	3.9167	4031.16
12/5/02 12:43:30 PM	3.9250	4031.38
12/5/02 12:44:00 PM	3.9333	4031.13
12/5/02 12:44:30 PM	3.9417	4031.53
12/5/02 12:45:00 PM	3.9500	4031.93
12/5/02 12:45:01 PM		
12/5/02 12:45:30 PM	3.9583	4032.70
12/5/02 12:46:00 PM	3.9667	4032.93
12/5/02 12:46:30 PM	3.9750	4026.50
12/5/02 12:47:00 PM	3.9833	4026.67
12/5/02 12:47:30 PM	3.9917	4026.26
12/5/02 12:48:00 PM	4.0000	4029.32
12/5/02 12:48:30 PM	4.0083	4029.57

START 5TH RATE @ 125 BPD

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 12:49:00 PM	4.0167	4028.89
12/5/02 12:49:30 PM	4.0250	4031.64
12/5/02 12:50:00 PM	4.0333	4030.34
12/5/02 12:50:30 PM	4.0417	4030.74
12/5/02 12:51:00 PM	4.0500	4032.16
12/5/02 12:51:30 PM	4.0583	4031.05
12/5/02 12:52:00 PM	4.0667	4031.72
12/5/02 12:52:30 PM	4.0750	4032.62
12/5/02 12:53:00 PM	4.0833	4031.12
12/5/02 12:53:30 PM	4.0917	4033.11
12/5/02 12:54:00 PM	4.1000	4032.62
12/5/02 12:54:30 PM	4.1083	4031.78
12/5/02 12:55:00 PM	4.1167	4033.29
12/5/02 12:55:30 PM	4.1250	4033.45
12/5/02 12:56:00 PM	4.1333	4032.13
12/5/02 12:56:30 PM	4.1417	4034.77
12/5/02 12:57:00 PM	4.1500	4034.26
12/5/02 12:57:30 PM	4.1583	4032.90
12/5/02 12:58:00 PM	4.1667	4035.08
12/5/02 12:58:30 PM	4.1750	4034.84
12/5/02 12:59:00 PM	4.1833	4033.78
12/5/02 12:59:30 PM	4.1917	4036.07
12/5/02 01:00:00 PM	4.2000	4035.44
12/5/02 01:00:30 PM	4.2083	4034.85
12/5/02 01:01:00 PM	4.2167	4036.95
12/5/02 01:01:30 PM	4.2250	4035.92
12/5/02 01:02:00 PM	4.2333	4035.38
12/5/02 01:02:30 PM	4.2417	4037.00
12/5/02 01:03:00 PM	4.2500	4035.71
12/5/02 01:03:30 PM	4.2583	4036.75
12/5/02 01:04:00 PM	4.2667	4037.13
12/5/02 01:04:30 PM	4.2750	4035.78
12/5/02 01:05:00 PM	4.2833	4037.41
12/5/02 01:05:30 PM	4.2917	4037.15
12/5/02 01:06:00 PM	4.3000	4035.86
12/5/02 01:06:30 PM	4.3083	4038.01
12/5/02 01:07:00 PM	4.3167	4038.20
12/5/02 01:07:30 PM	4.3250	4036.07
12/5/02 01:08:00 PM	4.3333	4038.88
12/5/02 01:08:30 PM	4.3417	4038.58
12/5/02 01:09:00 PM	4.3500	4037.34
12/5/02 01:09:30 PM	4.3583	4039.29
12/5/02 01:10:00 PM	4.3667	4038.93
12/5/02 01:10:30 PM	4.3750	4037.44
12/5/02 01:11:00 PM	4.3833	4040.34
12/5/02 01:11:30 PM	4.3917	4039.83
12/5/02 01:12:00 PM	4.4000	4038.60

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 01:35:30 PM	4.7917	4060.29
12/5/02 01:36:00 PM	4.8000	4059.15
12/5/02 01:36:30 PM	4.8083	4061.64
12/5/02 01:37:00 PM	4.8167	4062.22
12/5/02 01:37:30 PM	4.8250	4059.80
12/5/02 01:38:00 PM	4.8333	4061.93
12/5/02 01:38:30 PM	4.8417	4061.22
12/5/02 01:39:00 PM	4.8500	4062.46
12/5/02 01:39:30 PM	4.8583	4063.20
12/5/02 01:40:00 PM	4.8667	4061.09
12/5/02 01:40:30 PM	4.8750	4062.87
12/5/02 01:41:00 PM	4.8833	4063.52
12/5/02 01:41:30 PM	4.8917	4063.18
12/5/02 01:42:00 PM	4.9000	4064.45
12/5/02 01:42:30 PM	4.9083	4062.21
12/5/02 01:43:00 PM	4.9167	4064.27
12/5/02 01:43:30 PM	4.9250	4064.95
12/5/02 01:44:00 PM	4.9333	4064.01
12/5/02 01:44:30 PM	4.9417	4065.26
12/5/02 01:44:31 PM		
12/5/02 01:45:00 PM	4.9500	4063.61
12/5/02 01:45:30 PM	4.9583	4065.82
12/5/02 01:46:00 PM	4.9667	4066.49
12/5/02 01:46:30 PM	4.9750	4067.40
12/5/02 01:47:00 PM	4.9833	4068.08
12/5/02 01:47:30 PM	4.9917	4069.15
12/5/02 01:48:00 PM	5.0000	4066.94
12/5/02 01:48:30 PM	5.0083	4069.88
12/5/02 01:49:00 PM	5.0167	4070.33
12/5/02 01:49:30 PM	5.0250	4067.79
12/5/02 01:50:00 PM	5.0333	4071.52
12/5/02 01:50:30 PM	5.0417	4071.16
12/5/02 01:51:00 PM	5.0500	4068.82
12/5/02 01:51:30 PM	5.0583	4072.38
12/5/02 01:52:00 PM	5.0667	4071.86
12/5/02 01:52:30 PM	5.0750	4070.19
12/5/02 01:53:00 PM	5.0833	4073.07
12/5/02 01:53:30 PM	5.0917	4073.12
12/5/02 01:54:00 PM	5.1000	4072.09
12/5/02 01:54:30 PM	5.1083	4073.34
12/5/02 01:55:00 PM	5.1167	4073.60
12/5/02 01:55:30 PM	5.1250	4074.14
12/5/02 01:56:00 PM	5.1333	4073.32
12/5/02 01:56:30 PM	5.1417	4074.76
12/5/02 01:57:00 PM	5.1500	4075.79
12/5/02 01:57:30 PM	5.1583	4073.43
12/5/02 01:58:00 PM	5.1667	4076.60

START 7TH RATE @ 175 BPD

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
12/5/02 01:58:30 PM	5.1750	4076.51	
12/5/02 01:59:00 PM	5.1833	4074.60	
12/5/02 01:59:30 PM	5.1917	4077.76	
12/5/02 02:00:00 PM	5.2000	4077.32	
12/5/02 02:00:30 PM	5.2083	4075.24	
12/5/02 02:01:00 PM	5.2167	4078.80	
12/5/02 02:01:30 PM	5.2250	4077.77	
12/5/02 02:02:00 PM	5.2333	4076.66	
12/5/02 02:02:30 PM	5.2417	4078.89	
12/5/02 02:03:00 PM	5.2500	4078.29	
12/5/02 02:03:30 PM	5.2583	4077.39	
12/5/02 02:04:00 PM	5.2667	4078.92	
12/5/02 02:04:30 PM	5.2750	4079.54	
12/5/02 02:05:00 PM	5.2833	4079.47	
12/5/02 02:05:30 PM	5.2917	4078.55	
12/5/02 02:06:00 PM	5.3000	4080.15	
12/5/02 02:06:30 PM	5.3083	4080.48	
12/5/02 02:07:00 PM	5.3167	4078.59	
12/5/02 02:07:30 PM	5.3250	4080.97	
12/5/02 02:08:00 PM	5.3333	4081.60	
12/5/02 02:08:30 PM	5.3417	4079.00	
12/5/02 02:09:00 PM	5.3500	4082.20	
12/5/02 02:09:30 PM	5.3583	4082.25	
12/5/02 02:10:00 PM	5.3667	4079.52	
12/5/02 02:10:30 PM	5.3750	4082.90	
12/5/02 02:11:00 PM	5.3833	4081.74	
12/5/02 02:11:30 PM	5.3917	4080.18	
12/5/02 02:12:00 PM	5.4000	4083.35	
12/5/02 02:12:30 PM	5.4083	4082.42	
12/5/02 02:13:00 PM	5.4167	4081.50	
12/5/02 02:13:30 PM	5.4250	4083.29	
12/5/02 02:14:00 PM	5.4333	4083.05	
12/5/02 02:14:30 PM	5.4417	4083.38	
12/5/02 02:14:31 PM			START 8TH RATE @ 200 BPD
12/5/02 02:15:00 PM	5.4500	4081.67	
12/5/02 02:15:30 PM	5.4583	4082.27	
12/5/02 02:16:00 PM	5.4667	4082.94	
12/5/02 02:16:30 PM	5.4750	4083.36	
12/5/02 02:17:00 PM	5.4833	4084.24	
12/5/02 02:17:30 PM	5.4917	4085.96	
12/5/02 02:18:00 PM	5.5000	4087.75	
12/5/02 02:18:30 PM	5.5083	4089.15	
12/5/02 02:19:00 PM	5.5167	4089.29	
12/5/02 02:19:30 PM	5.5250	4090.42	
12/5/02 02:20:00 PM	5.5333	4091.00	
12/5/02 02:20:30 PM	5.5417	4091.54	
12/5/02 02:21:00 PM	5.5500	4091.74	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 02:21:30 PM	5.5583	4091.19
12/5/02 02:22:00 PM	5.5667	4091.30
12/5/02 02:22:30 PM	5.5750	4091.42
12/5/02 02:23:00 PM	5.5833	4091.41
12/5/02 02:23:30 PM	5.5917	4091.95
12/5/02 02:24:00 PM	5.6000	4092.29
12/5/02 02:24:30 PM	5.6083	4092.80
12/5/02 02:25:00 PM	5.6167	4092.65
12/5/02 02:25:30 PM	5.6250	4093.15
12/5/02 02:26:00 PM	5.6333	4094.78
12/5/02 02:26:30 PM	5.6417	4095.92
12/5/02 02:27:00 PM	5.6500	4095.10
12/5/02 02:27:30 PM	5.6583	4095.50
12/5/02 02:28:00 PM	5.6667	4095.49
12/5/02 02:28:30 PM	5.6750	4095.98
12/5/02 02:29:00 PM	5.6833	4095.72
12/5/02 02:29:30 PM	5.6917	4095.52
12/5/02 02:30:00 PM	5.7000	4094.43
12/5/02 02:30:30 PM	5.7083	4094.13
12/5/02 02:31:00 PM	5.7167	4094.35
12/5/02 02:31:30 PM	5.7250	4095.13
12/5/02 02:32:00 PM	5.7333	4094.68
12/5/02 02:32:30 PM	5.7417	4095.88
12/5/02 02:33:00 PM	5.7500	4095.71
12/5/02 02:33:30 PM	5.7583	4096.54
12/5/02 02:34:00 PM	5.7667	4098.02
12/5/02 02:34:30 PM	5.7750	4099.92
12/5/02 02:35:00 PM	5.7833	4100.55
12/5/02 02:35:30 PM	5.7917	4101.58
12/5/02 02:36:00 PM	5.8000	4101.37
12/5/02 02:36:30 PM	5.8083	4102.34
12/5/02 02:37:00 PM	5.8167	4101.67
12/5/02 02:37:30 PM	5.8250	4102.48
12/5/02 02:38:00 PM	5.8333	4102.27
12/5/02 02:38:30 PM	5.8417	4101.49
12/5/02 02:39:00 PM	5.8500	4101.56
12/5/02 02:39:30 PM	5.8583	4102.25
12/5/02 02:40:00 PM	5.8667	4102.45
12/5/02 02:40:30 PM	5.8750	4101.76
12/5/02 02:41:00 PM	5.8833	4102.60
12/5/02 02:41:30 PM	5.8917	4103.32
12/5/02 02:42:00 PM	5.9000	4104.19
12/5/02 02:42:30 PM	5.9083	4104.75
12/5/02 02:43:00 PM	5.9167	4105.62
12/5/02 02:43:30 PM	5.9250	4105.21
12/5/02 02:44:00 PM	5.9333	4104.90
12/5/02 02:44:30 PM	5.9417	4104.87

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 02:44:31 PM			START 9TH RATE @ 225 BPD
12/5/02 02:45:00 PM	5.9500	4103.66	
12/5/02 02:45:30 PM	5.9583	4106.50	
12/5/02 02:46:00 PM	5.9667	4105.79	
12/5/02 02:46:30 PM	5.9750	4106.36	
12/5/02 02:47:00 PM	5.9833	4108.92	
12/5/02 02:47:30 PM	5.9917	4109.17	
12/5/02 02:48:00 PM	6.0000	4107.56	
12/5/02 02:48:30 PM	6.0083	4109.05	
12/5/02 02:49:00 PM	6.0167	4107.89	
12/5/02 02:49:30 PM	6.0250	4111.02	
12/5/02 02:50:00 PM	6.0333	4110.83	
12/5/02 02:50:30 PM	6.0417	4111.88	
12/5/02 02:51:00 PM	6.0500	4111.56	
12/5/02 02:51:30 PM	6.0583	4107.87	
12/5/02 02:52:00 PM	6.0667	4112.61	
12/5/02 02:52:30 PM	6.0750	4111.53	
12/5/02 02:53:00 PM	6.0833	4114.70	
12/5/02 02:53:30 PM	6.0917	4113.93	
12/5/02 02:54:00 PM	6.1000	4112.44	
12/5/02 02:54:30 PM	6.1083	4113.67	
12/5/02 02:55:00 PM	6.1167	4112.22	
12/5/02 02:55:30 PM	6.1250	4114.52	
12/5/02 02:56:00 PM	6.1333	4115.28	
12/5/02 02:56:30 PM	6.1417	4116.81	
12/5/02 02:57:00 PM	6.1500	4115.15	
12/5/02 02:57:30 PM	6.1583	4112.90	
12/5/02 02:58:00 PM	6.1667	4115.73	
12/5/02 02:58:30 PM	6.1750	4113.95	
12/5/02 02:59:00 PM	6.1833	4117.22	
12/5/02 02:59:30 PM	6.1917	4116.46	
12/5/02 03:00:00 PM	6.2000	4118.27	
12/5/02 03:00:30 PM	6.2083	4117.98	
12/5/02 03:01:00 PM	6.2167	4115.77	
12/5/02 03:01:30 PM	6.2250	4119.08	
12/5/02 03:02:00 PM	6.2333	4117.91	
12/5/02 03:02:30 PM	6.2417	4119.25	
12/5/02 03:03:00 PM	6.2500	4119.41	
12/5/02 03:03:30 PM	6.2583	4117.16	
12/5/02 03:04:00 PM	6.2667	4119.62	
12/5/02 03:04:30 PM	6.2750	4117.67	
12/5/02 03:05:00 PM	6.2833	4120.23	
12/5/02 03:05:30 PM	6.2917	4119.27	
12/5/02 03:06:00 PM	6.3000	4121.04	
12/5/02 03:06:30 PM	6.3083	4119.87	
12/5/02 03:07:00 PM	6.3167	4118.62	
12/5/02 03:07:30 PM	6.3250	4121.68	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 03:08:00 PM	6.3333	4120.44
12/5/02 03:08:30 PM	6.3417	4121.40
12/5/02 03:09:00 PM	6.3500	4121.40
12/5/02 03:09:30 PM	6.3583	4121.46
12/5/02 03:10:00 PM	6.3667	4121.14
12/5/02 03:10:30 PM	6.3750	4119.95
12/5/02 03:11:00 PM	6.3833	4123.69
12/5/02 03:11:30 PM	6.3917	4122.26
12/5/02 03:12:00 PM	6.4000	4123.35
12/5/02 03:12:30 PM	6.4083	4124.36
12/5/02 03:13:00 PM	6.4167	4121.12
12/5/02 03:13:30 PM	6.4250	4123.75
12/5/02 03:14:00 PM	6.4333	4120.33
12/5/02 03:14:30 PM	6.4417	4123.74
12/5/02 03:14:31 PM		
12/5/02 03:15:00 PM	6.4500	4121.89
12/5/02 03:15:30 PM	6.4583	4124.07
12/5/02 03:16:00 PM	6.4667	4125.91
12/5/02 03:16:30 PM	6.4750	4124.81
12/5/02 03:17:00 PM	6.4833	4124.78
12/5/02 03:17:30 PM	6.4917	4125.73
12/5/02 03:18:00 PM	6.5000	4126.92
12/5/02 03:18:30 PM	6.5083	4124.43
12/5/02 03:19:00 PM	6.5167	4125.83
12/5/02 03:19:30 PM	6.5250	4126.99
12/5/02 03:20:00 PM	6.5333	4128.48
12/5/02 03:20:30 PM	6.5417	4125.17
12/5/02 03:21:00 PM	6.5500	4127.99
12/5/02 03:21:30 PM	6.5583	4128.74
12/5/02 03:22:00 PM	6.5667	4129.54
12/5/02 03:22:30 PM	6.5750	4126.57
12/5/02 03:23:00 PM	6.5833	4129.81
12/5/02 03:23:30 PM	6.5917	4130.06
12/5/02 03:24:00 PM	6.6000	4130.08
12/5/02 03:24:30 PM	6.6083	4128.50
12/5/02 03:25:00 PM	6.6167	4130.83
12/5/02 03:25:30 PM	6.6250	4131.38
12/5/02 03:26:00 PM	6.6333	4129.15
12/5/02 03:26:30 PM	6.6417	4131.78
12/5/02 03:27:00 PM	6.6500	4131.12
12/5/02 03:27:30 PM	6.6583	4133.60
12/5/02 03:28:00 PM	6.6667	4130.06
12/5/02 03:28:30 PM	6.6750	4132.05
12/5/02 03:29:00 PM	6.6833	4132.66
12/5/02 03:29:30 PM	6.6917	4133.16
12/5/02 03:30:00 PM	6.7000	4131.56
12/5/02 03:30:30 PM	6.7083	4133.45

START 10TH RATE @ 250 BPD

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 01:12:30 PM	4.4083	4040.92	
12/5/02 01:13:00 PM	4.4167	4039.62	
12/5/02 01:13:30 PM	4.4250	4039.90	
12/5/02 01:14:00 PM	4.4333	4040.67	
12/5/02 01:14:30 PM	4.4417	4039.66	
12/5/02 01:15:00 PM	4.4500	4039.77	
12/5/02 01:15:30 PM	4.4583	4040.76	
12/5/02 01:15:31 PM			START 6TH RATE @ 150 BPD
12/5/02 01:16:00 PM	4.4667	4039.17	
12/5/02 01:16:30 PM	4.4750	4038.08	
12/5/02 01:17:00 PM	4.4833	4039.15	
12/5/02 01:17:30 PM	4.4917	4042.61	
12/5/02 01:18:00 PM	4.5000	4044.57	
12/5/02 01:18:30 PM	4.5083	4043.97	
12/5/02 01:19:00 PM	4.5167	4046.01	
12/5/02 01:19:30 PM	4.5250	4044.71	
12/5/02 01:20:00 PM	4.5333	4047.20	
12/5/02 01:20:30 PM	4.5417	4047.92	
12/5/02 01:21:00 PM	4.5500	4047.94	
12/5/02 01:21:30 PM	4.5583	4050.09	
12/5/02 01:22:00 PM	4.5667	4047.73	
12/5/02 01:22:30 PM	4.5750	4050.77	
12/5/02 01:23:00 PM	4.5833	4051.55	
12/5/02 01:23:30 PM	4.5917	4049.93	
12/5/02 01:24:00 PM	4.6000	4051.82	
12/5/02 01:24:30 PM	4.6083	4050.51	
12/5/02 01:25:00 PM	4.6167	4053.02	
12/5/02 01:25:30 PM	4.6250	4054.14	
12/5/02 01:26:00 PM	4.6333	4051.55	
12/5/02 01:26:30 PM	4.6417	4053.84	
12/5/02 01:27:00 PM	4.6500	4054.18	
12/5/02 01:27:30 PM	4.6583	4054.97	
12/5/02 01:28:00 PM	4.6667	4055.98	
12/5/02 01:28:30 PM	4.6750	4054.05	
12/5/02 01:29:00 PM	4.6833	4055.98	
12/5/02 01:29:30 PM	4.6917	4056.49	
12/5/02 01:30:00 PM	4.7000	4056.68	
12/5/02 01:30:30 PM	4.7083	4058.10	
12/5/02 01:31:00 PM	4.7167	4055.96	
12/5/02 01:31:30 PM	4.7250	4057.95	
12/5/02 01:32:00 PM	4.7333	4058.44	
12/5/02 01:32:30 PM	4.7417	4057.95	
12/5/02 01:33:00 PM	4.7500	4058.85	
12/5/02 01:33:30 PM	4.7583	4057.15	
12/5/02 01:34:00 PM	4.7667	4060.05	
12/5/02 01:34:30 PM	4.7750	4060.18	
12/5/02 01:35:00 PM	4.7833	4058.51	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 56466
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12/5/02 03:31:00 PM	6.7167	4134.56
12/5/02 03:31:30 PM	6.7250	4133.06
12/5/02 03:32:00 PM	6.7333	4133.03
12/5/02 03:32:30 PM	6.7417	4133.74
12/5/02 03:33:00 PM	6.7500	4135.68
12/5/02 03:33:30 PM	6.7583	4132.18
12/5/02 03:34:00 PM	6.7667	4134.54
12/5/02 03:34:30 PM	6.7750	4134.65
12/5/02 03:35:00 PM	6.7833	4136.30
12/5/02 03:35:30 PM	6.7917	4133.66
12/5/02 03:36:00 PM	6.8000	4135.32
12/5/02 03:36:30 PM	6.8083	4136.08
12/5/02 03:37:00 PM	6.8167	4135.86
12/5/02 03:37:30 PM	6.8250	4134.70
12/5/02 03:38:00 PM	6.8333	4136.59
12/5/02 03:38:30 PM	6.8417	4137.15
12/5/02 03:39:00 PM	6.8500	4135.58
12/5/02 03:39:30 PM	6.8583	4136.05
12/5/02 03:40:00 PM	6.8667	4136.36
12/5/02 03:40:30 PM	6.8750	4138.49
12/5/02 03:41:00 PM	6.8833	4135.10
12/5/02 03:41:30 PM	6.8917	4136.96
12/5/02 03:42:00 PM	6.9000	4138.09
12/5/02 03:42:30 PM	6.9083	4134.52
12/5/02 03:43:00 PM	6.9167	4135.00
12/5/02 03:43:30 PM	6.9250	4136.77
12/5/02 03:44:00 PM	6.9333	4138.56
12/5/02 03:44:30 PM	6.9417	4135.39
12/5/02 03:45:00 PM	6.9500	4137.37
12/5/02 03:45:01 PM		
12/5/02 03:50:31 PM		

END 10TH RATE
OFF BOTTOM W/ GAUGES