

W MEXICO		NO. 2	FILE
File Number	16,567		
Elevation	KB. D.F. GL		
To	4740		
Bottom	10,895		

<< Fold Here >>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

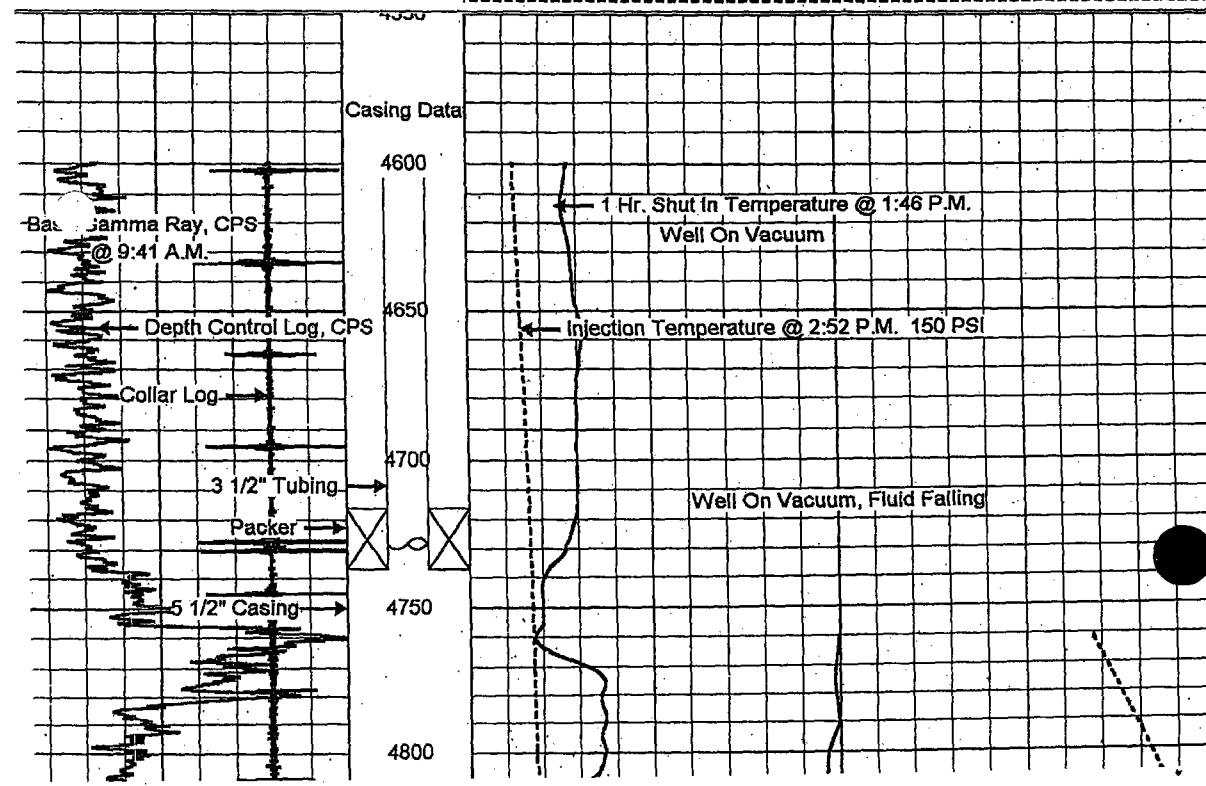
Comments:

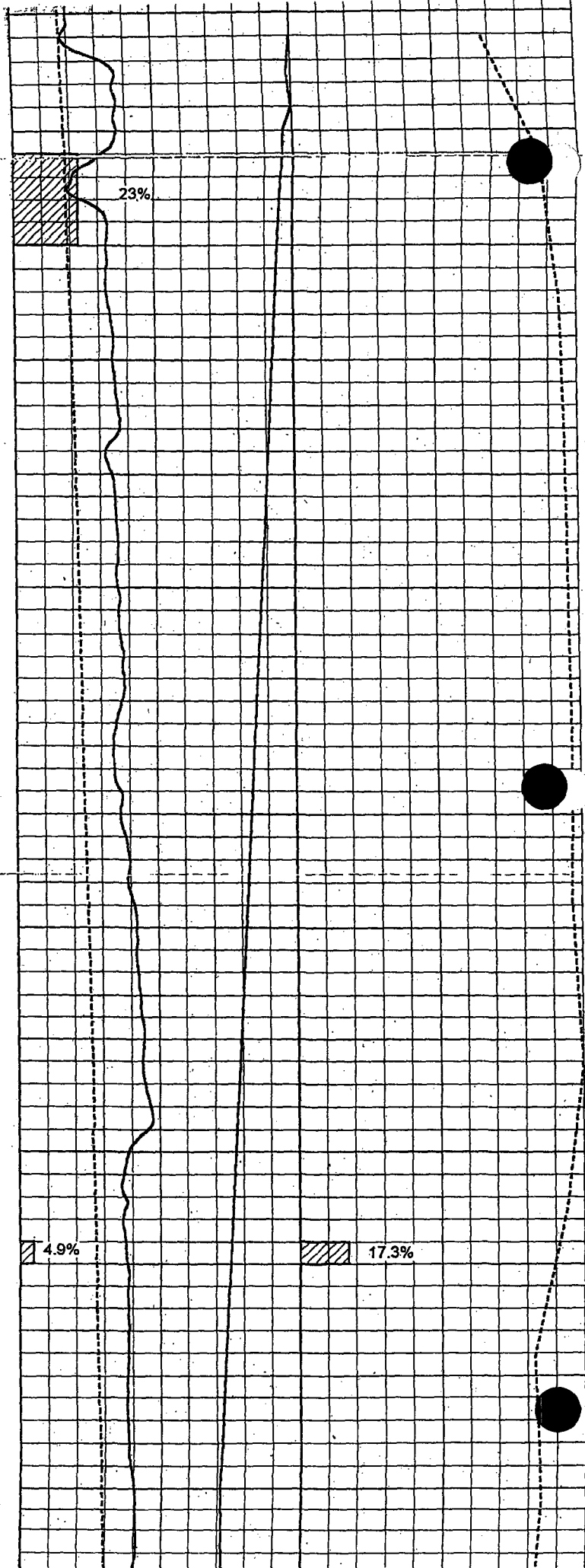
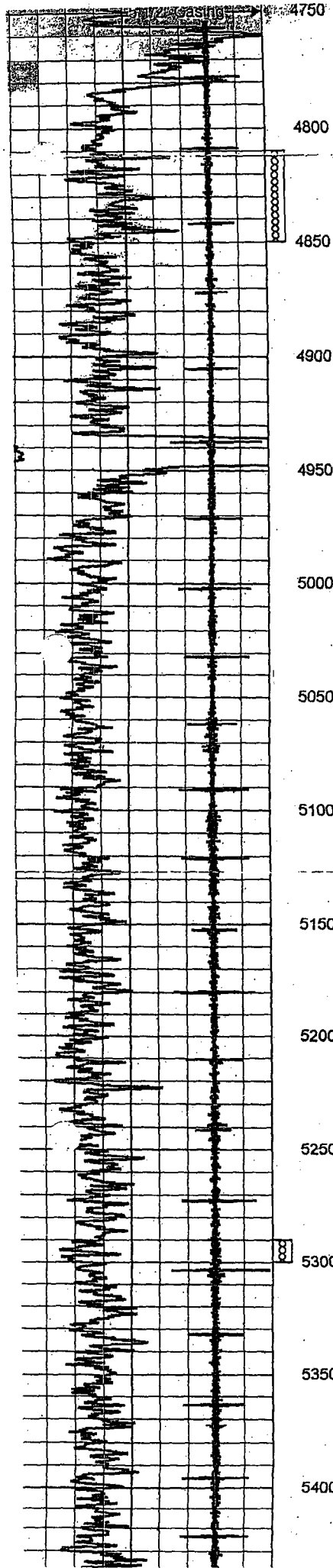
WITNESS BY: DALE GANDY, DEVON GARNER w/ GANDY CORPORATION AND BILL PRICHARD w/ NM OGD
 TOOL CONFIGURATION: TEMP, DET, CCL, SB, SB, EJECT. (1 3/8") SCINTILLATION DETECTOR
 PERFORATIONS: 4810'-50', 5290'-5300', 6210'-60', 6300'-60', 6440'-55', 6610'-30', 6770'-6880'

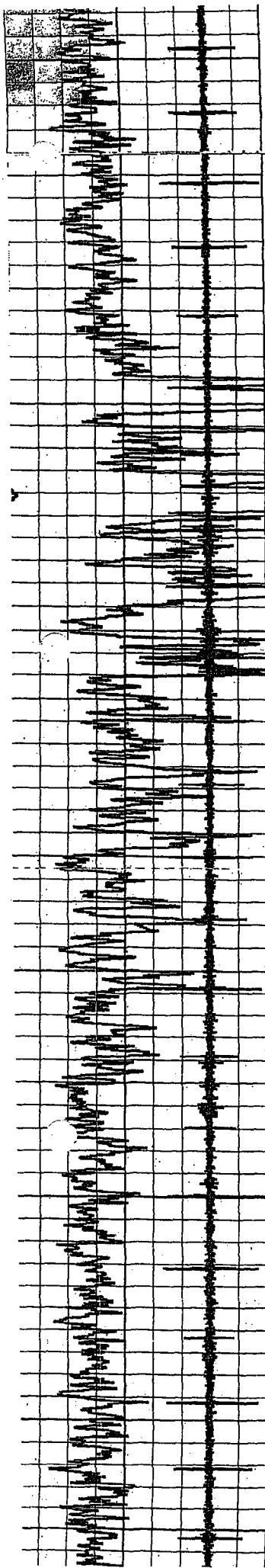
CONCLUSION: Reported injection rate 4 BPM @ 150 PSI.
 Averaged slug no's. 12-15 to obtain 100% rate. Used rate obtained, 4179.1 BPD, to calculate velocity profile.
 Averaged runs 1 & 2 to obtain 100% area. Used runs 9-13, 16-19, 21 and 23 to plot intensity profile.
 Intensity profile and upward channel check do not show a channel above the top perforations @ 4810'-50'.
 Intensities indicate movement down from 6260'.
 No flow inside pipe @ 6363'. Slug no 2.
 Temperatures indicate communication down to 6330'.
 No channel up from top of perms indicated. Slug no. 12.
 No packer leak indicated. Slug no. 16.

Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: merge1
 Presentation Format: sc54455.prs
 Dataset Creation Date: Tue Jul 20 13:32:53 2004
 Started by: Depth in Feet scaled 1:600

Collar Log	2	0	Velocity Flow, (b/d)	4230	0	Intensity Flow, (%)	100
Base Gamma Ray, CPS	1000	0	Velocity Loss, %	100	0	Intensity Loss, %	100
Depth Control Log, CPS	45	92	1 Hr. Shut In Temperature (degF)				112
		92	Injection Temperature (degF)				112







5400

5450

5500

5550

5600

5650

5700

5750

5800

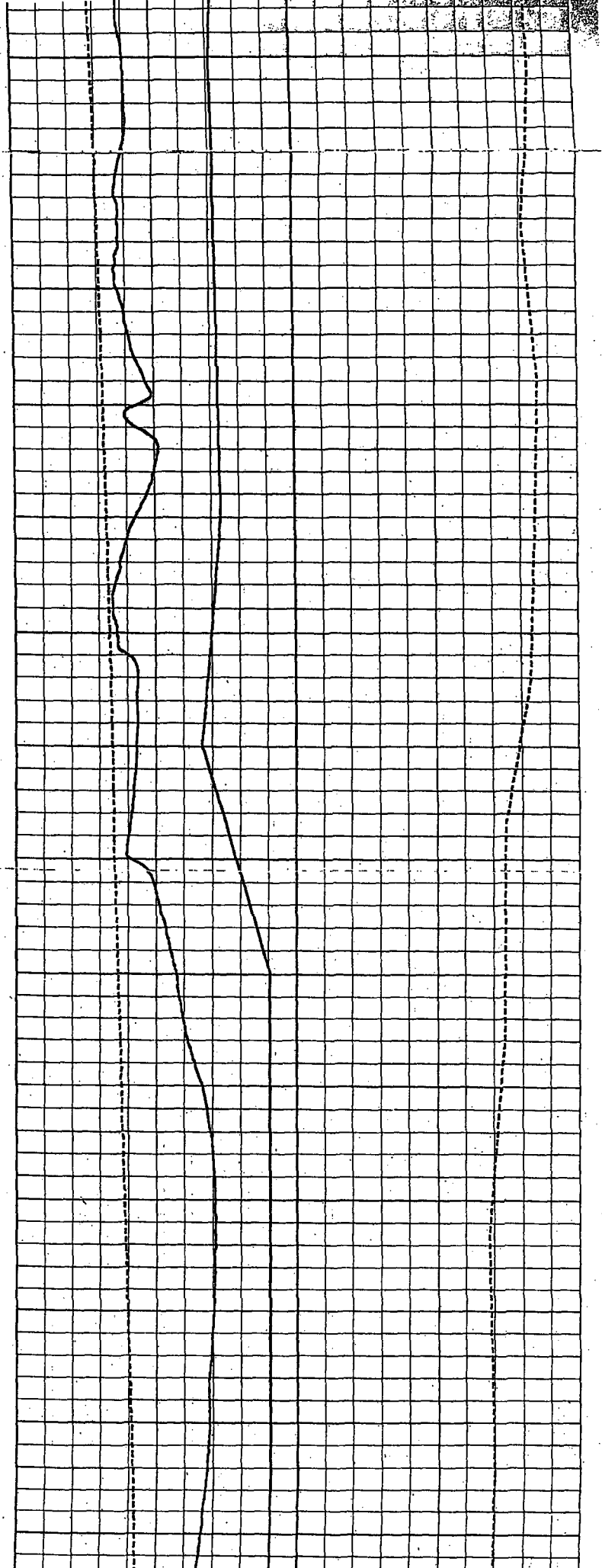
5850

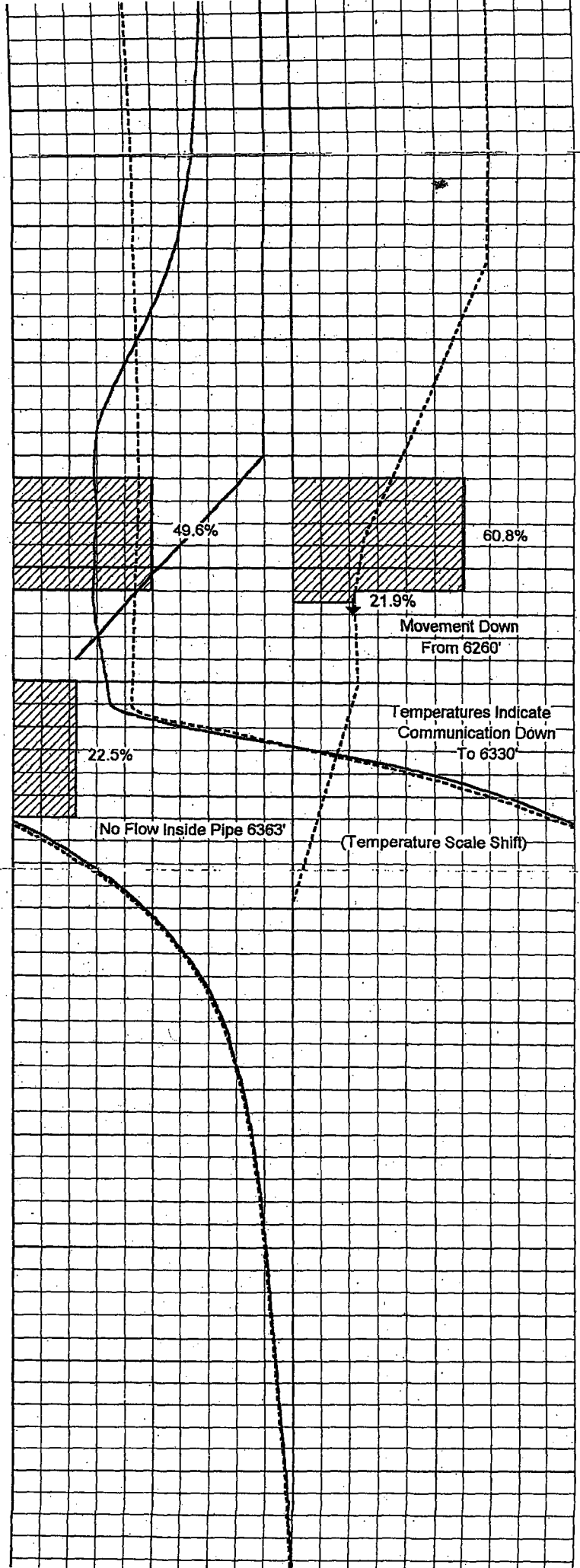
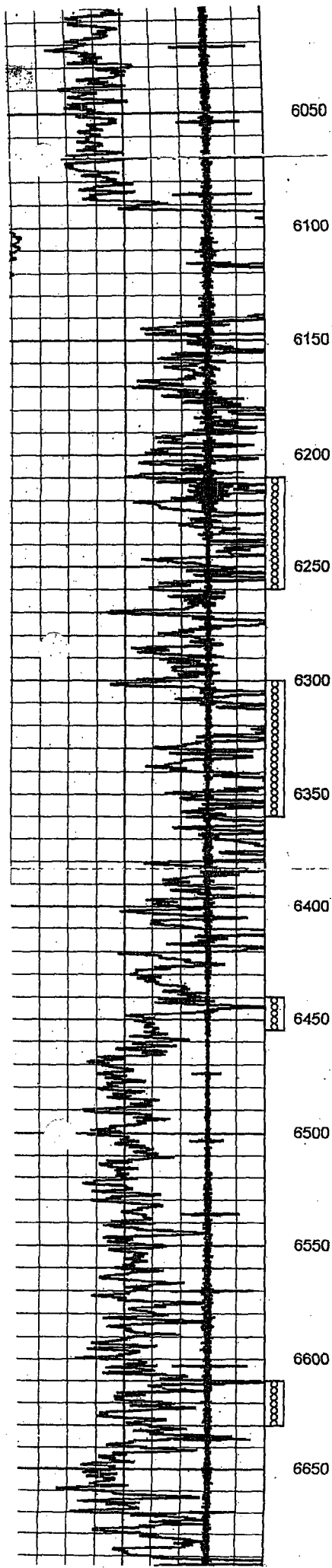
5900

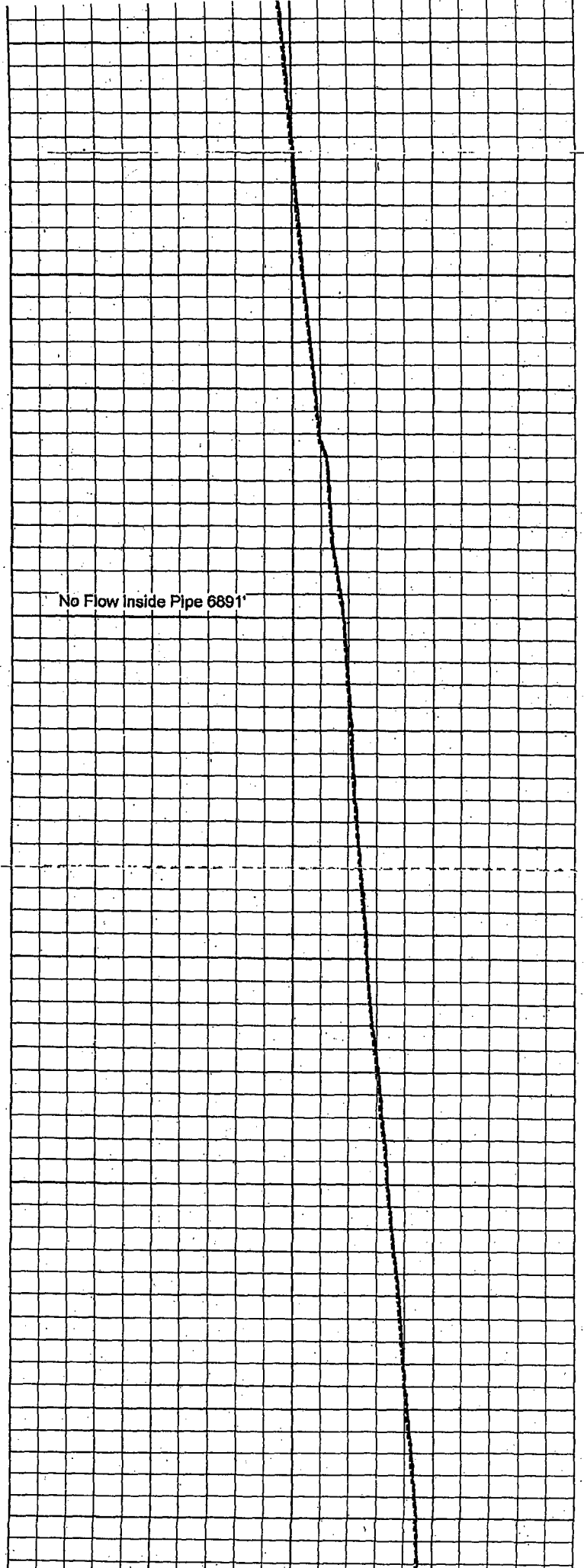
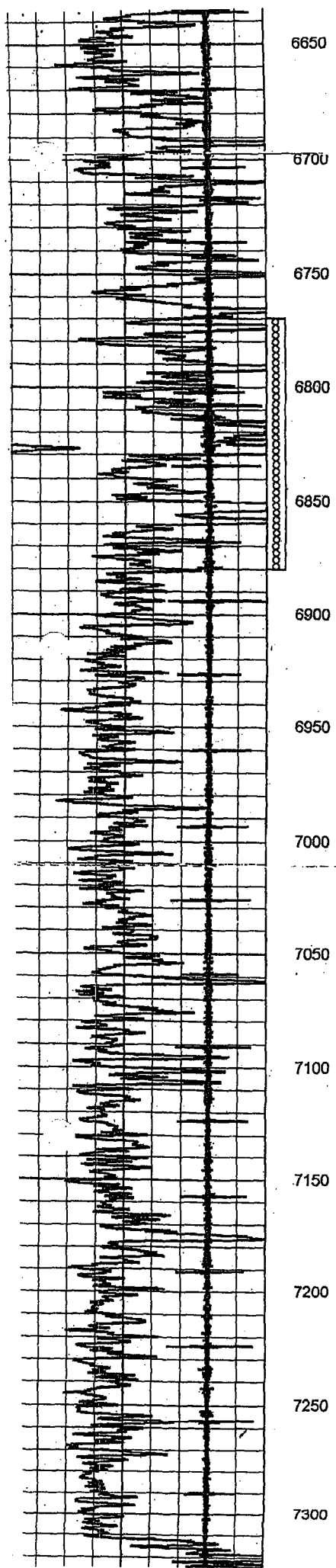
5950

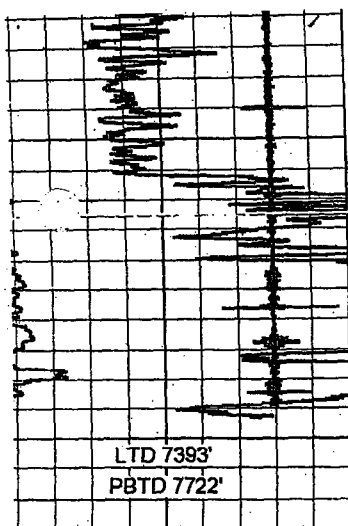
6000

6050



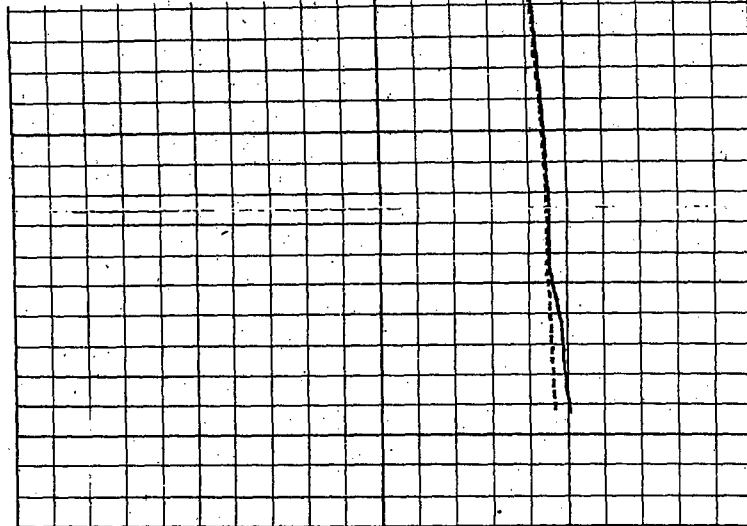






Collar Log	2
Base Gamma Ray, CPS	1000
Depth Control Log, CPS	45

7300
7350
7400



0	Velocity Flow, (b/d)	4230	0	Intensity Flow, (%)	100
0	Velocity Loss, %	100	0	Intensity Loss, %	100
92	1 Hr. Shut In Temperature (degF)				112
92	Injection Temperature (degF)				112

Company:
Well:
File: c:\warrior\data\sc54455.db
Database: field\well\run2\tracer_shottab1_1
Reference Rate: 4179.1 b/d

VELOCITY RESULTS

Depth (ft)	Time	D Space (ft)	D Time (sec)	Csg ID (in)	Flow (b/d)	Flow (%)	Delta (%)	Comment
4715.35	12:41:07	17.38	2.66	0.00	5570.61	100.00		Slug #17 Pkr. Ck.
4760.23	12:34:59	17.38	7.80	4.95	4226.61	100.00	0.00	Slug #15 100%
4775.44	12:34:02	17.38	7.90	4.95	4172.79	99.85	0.15	Slug #14 100%
4790.33	12:32:49	17.38	7.80	4.95	4226.61	100.00	-0.15	Slug #13 100%
4800.37	12:29:42	17.38	8.06	4.95	4090.38	97.88	2.12	Slug #12 Ch. Ck.
5280.33	12:16:23	17.38	10.24	4.95	3219.62	77.04	20.84	Slug #11
5400.15	12:14:45	17.38	10.94	4.95	3013.30	72.10	4.94	Slug #10
5600.51	12:12:20	17.38	10.60	4.95	3109.89	74.42	-2.31	Slug #9
5700.26	12:11:04	17.38	11.70	4.95	2817.62	67.42	6.99	Slug #8
5800.14	12:09:32	17.38	8.60	4.95	3833.07	91.72	-24.30	Slug #7
6000.43	12:07:46	17.38	8.60	4.95	3833.07	91.72	0.00	Slug #6
6200.47	12:04:40	17.38	8.70	4.95	3789.19	90.67	1.05	Slug #5
6290.35	12:02:45	17.38	35.10	4.95	939.23	22.47	68.20	Slug #4

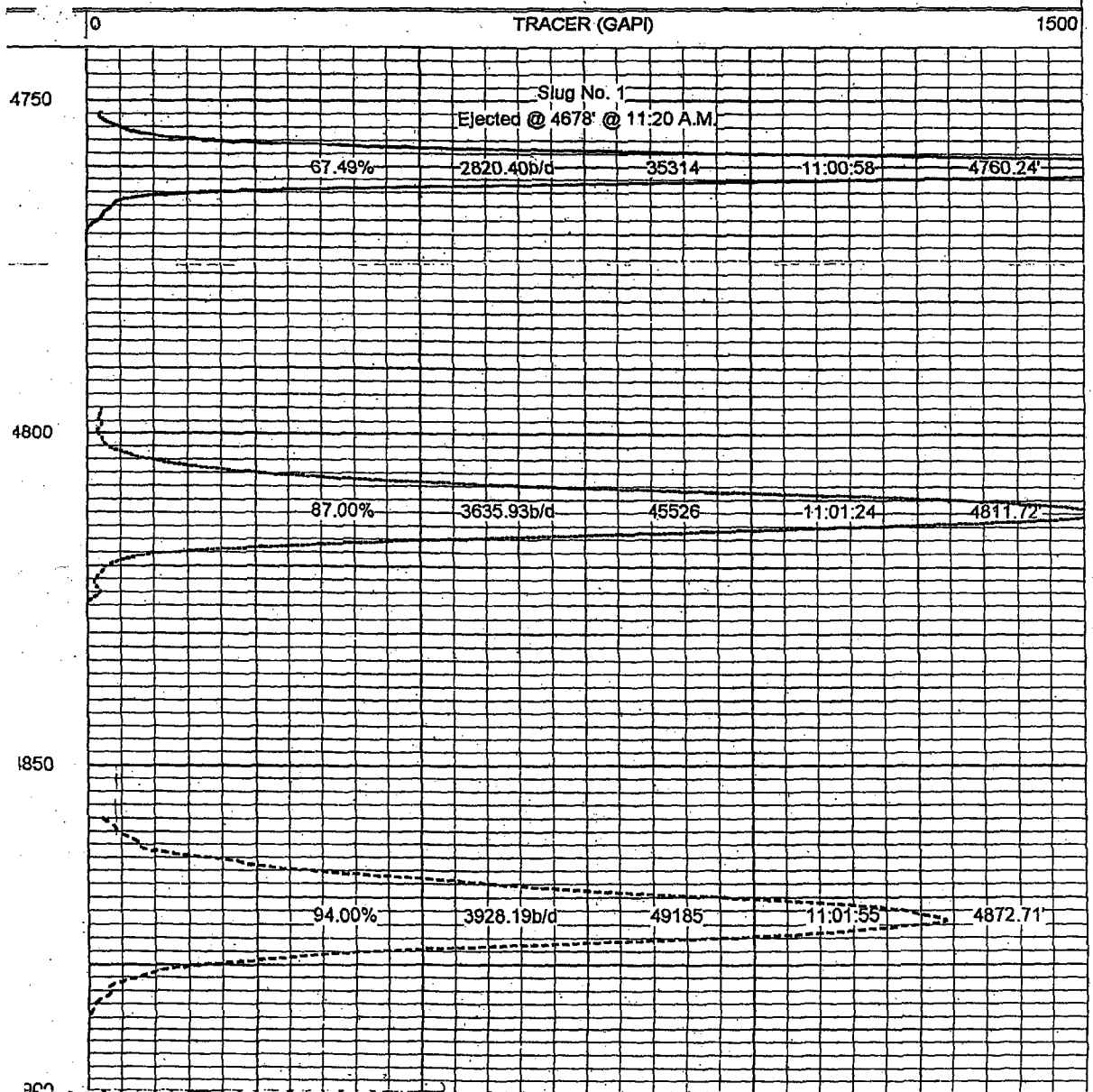
Company:
Well:
File: c:\warrior\data\sc54455.db
Database: field\well\run1\tracer_shottab1_1
Reference Rate: 4179.1 b/d

TRACER RESULTS

Depth (ft)	Time	Integration	Flow (%)	Delta (%)	Comment
4760.24	11:01:04	35314.30	67.49		
4811.72	11:01:31	45525.60	87.00	-19.51	
4872.71	11:02:01	49185.10	94.00	-6.99	
4930.71	11:02:32	49948.90	95.46	-1.46	
4996.71	11:03:08	50453.70	96.42	-0.96	
5067.96	11:03:44	50796.50	97.08	-0.66	
5136.45	11:04:20	50586.00	96.67	0.40	
5210.98	11:04:59	52326.70	100.00	-3.33	
5272.72	11:05:40	40297.70	64.39	5.62	

4930.71	11:02:32	49948.90	95.46	-1.46	
4996.71	11:03:08	50453.70	96.42	-0.96	
5067.96	11:03:44	50796.50	97.08	-0.66	
5136.45	11:04:20	50586.00	96.67	0.40	
5210.98	11:04:59	52326.70	100.00	-3.33	
5273.73	11:05:40	49387.70	94.38	5.62	
5371.71	11:06:23	43280.40	82.71	11.67	
5405.99	11:07:06	44208.50	84.49	-1.77	
5469.96	11:07:47	42378.10	80.99	3.50	
5540.45	11:08:34	45141.60	86.27	-5.28	
5603.70	11:09:18	44608.10	85.25	1.02	
5671.74	11:10:03	43620.90	83.36	1.89	
5734.49	11:10:47	38852.20	74.25	9.11	
5828.49	11:11:38	38675.10	73.91	0.34	
5916.23	11:12:25	35730.90	68.28	5.63	
6014.99	11:13:18	36587.70	69.92	-1.64	
6116.95	11:14:16	36279.80	69.33	0.59	
6237.21	11:15:41	13199.90	25.23	44.11	
6262.49	11:16:40	11464.00	21.91	3.32	
6301.47	11:18:06	12040.00	23.01	-1.10	
6397.00	11:19:31	232.57	0.44	22.56	

Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: _profile2_
 Representation Format: trcpro1.prs
 Dataset Creation Date: Thu Jul 22 16:19:31 2004
 Charted by: Depth in Feet scaled 1:240



4900

4950

5000

5050

5100

5150

95.46%

3989.20b/d

49949

11:02:24

4930.71'

96.42%

4029.51b/d

50454

11:02:58

4996.71'

97.08%

4056.89b/d

50796

11:03:35

5067.96'

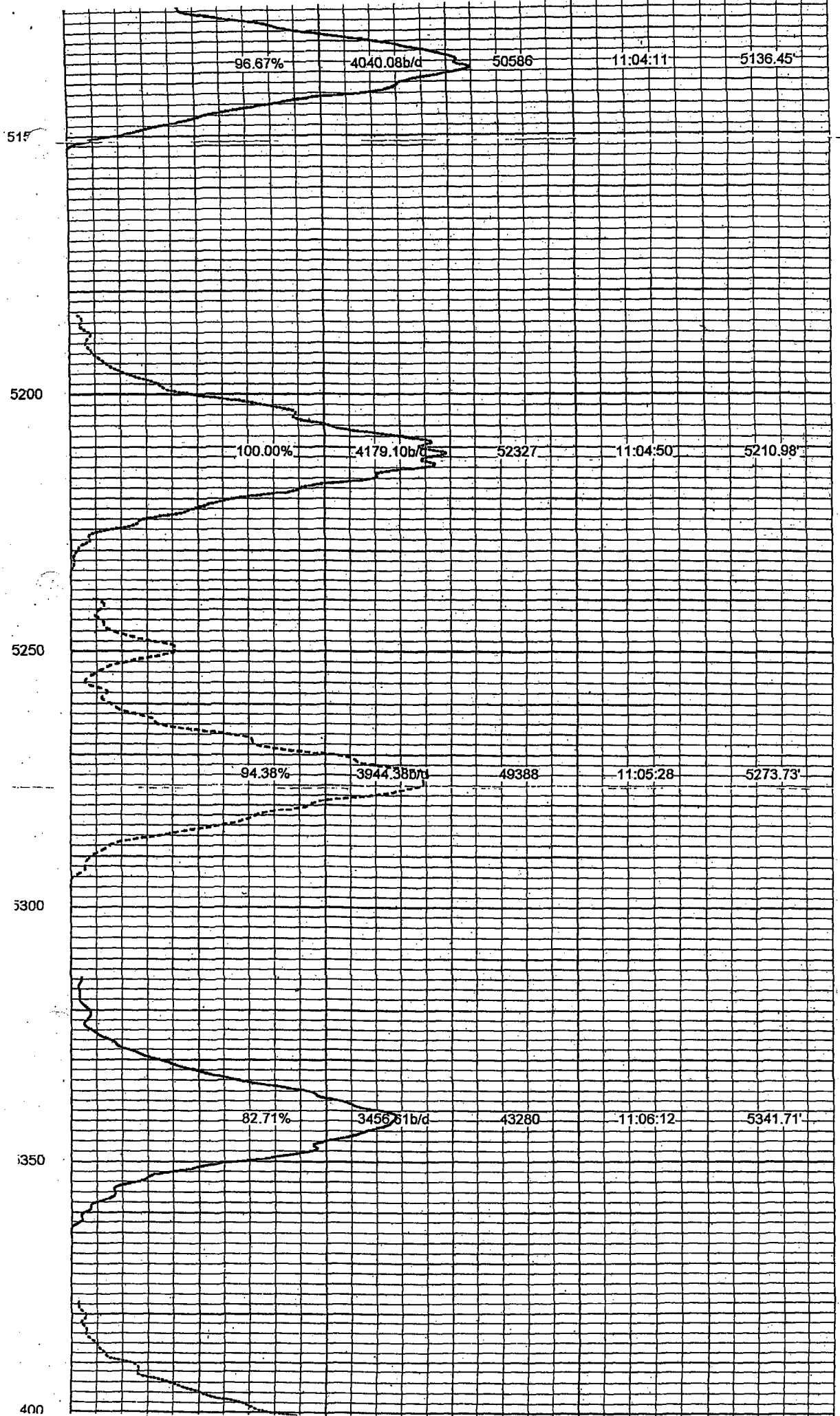
96.67%

4040.08b/d

50586

11:04:11

5136.45'



5400 84.49% 3630.74b/d 44208 11:06:55 5405.99'

5450 80.99% 3384.55b/d 42378 11:07:38 5469.96'

5500 86.27% 3605.26b/d 45142 11:08:24 5540.45'

5550 85.25% 3562.65b/d 44608 11:09:06 5603.70'

5600

5650

5650

83.36%

3483.81b/d

43621

11:09:53

5671.74'

5700

74.25%

3102.95b/d

38852

11:10:34

5734.49'

5750

5800

73.91%

3088.81b/d

38675

11:11:27

5828.49'

850

300

5900

68.28%

2853.67b/d

35731

11:12:13

5916.23'

5950

6000

69.92%

2922.10b/d

36588

11:13:05

6014.99'

6050

6100

69.33%

2897.51b/d

36280

11:14:02

6116.95'

6150

150

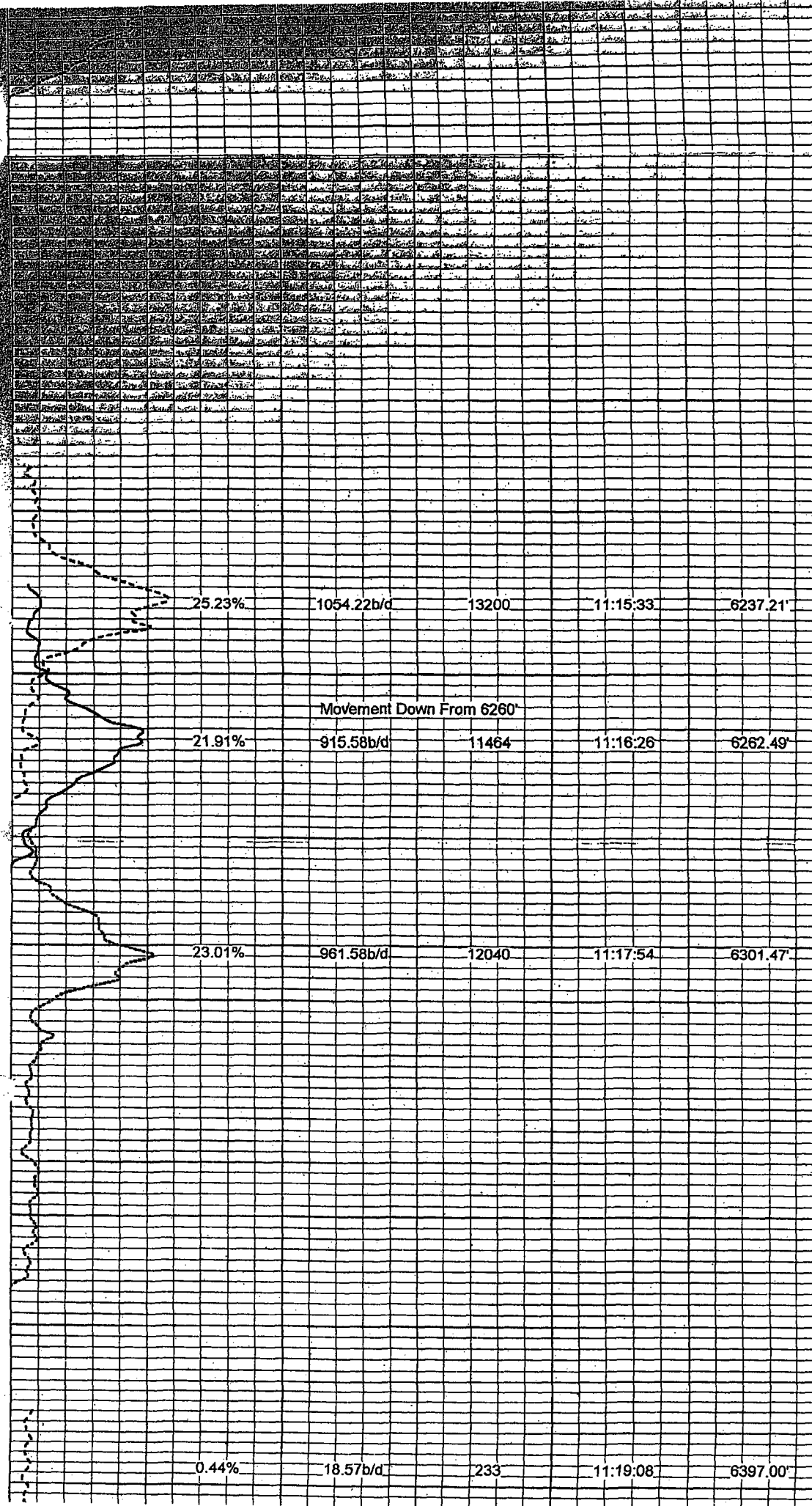
200

250

300

350

400



25.23%

1054.22b/d

13200

11:15:33

6237.21'

Movement Down From 6260'

21.91%

915.58b/d

11464

11:16:26

6262.49'

23.01%

961.58b/d

12040

11:17:54

6301.47'

0.44%

18.57b/d

233

11:19:08

6397.00'

6400

0.44%

18.57b/d

233

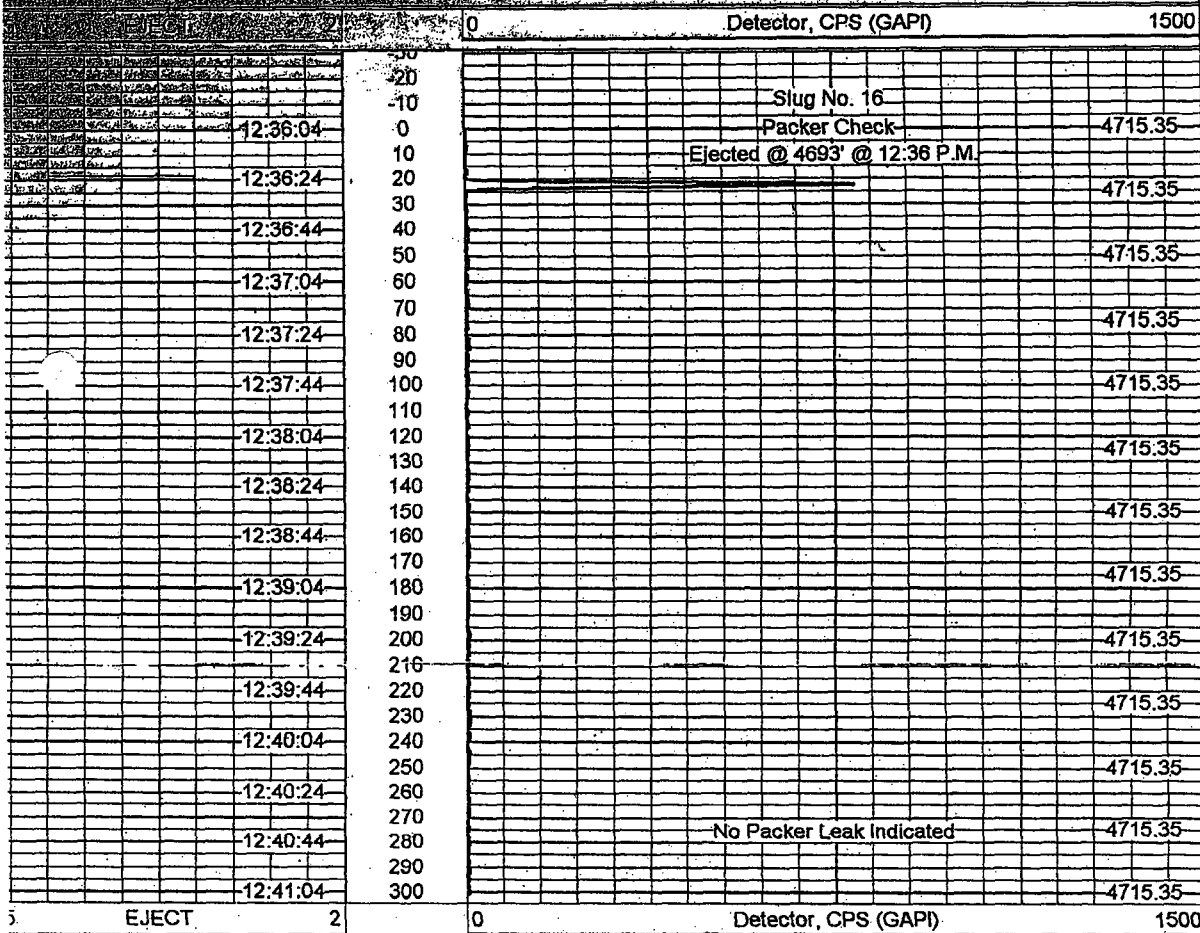
11:19:08

6397.00'

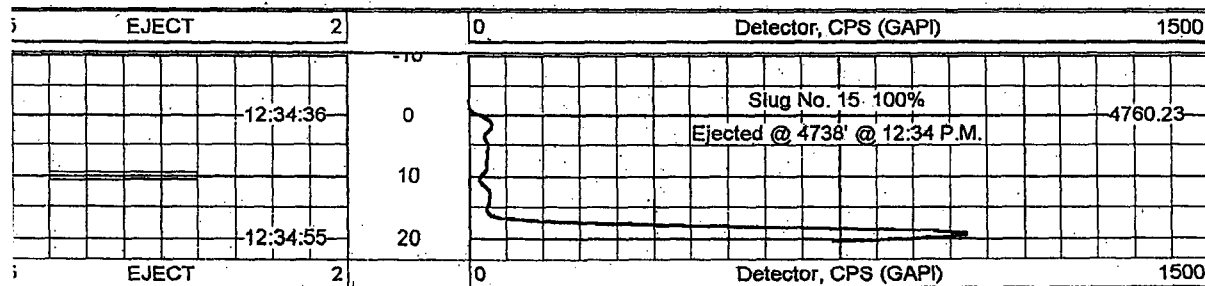
PAGE (GAPI)

1500

Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel13
 Representation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:36:36 2004
 Started by: Time scaled 144"/hour

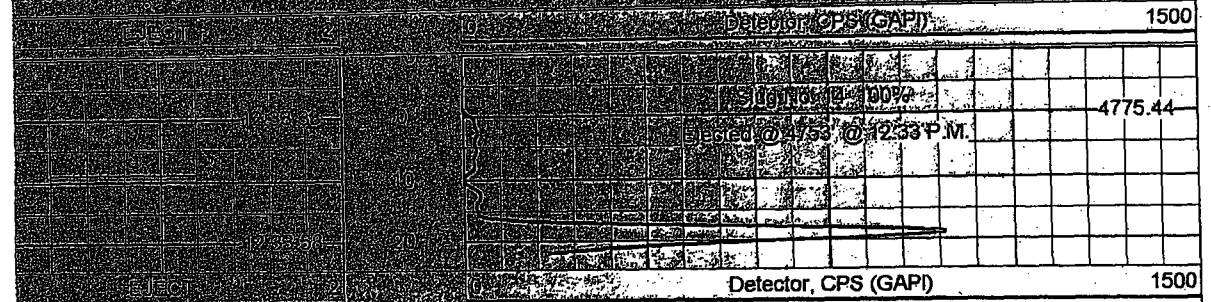


Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel13
 Representation Format: tracer.prs
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 Started by: Time scaled 144"/hour

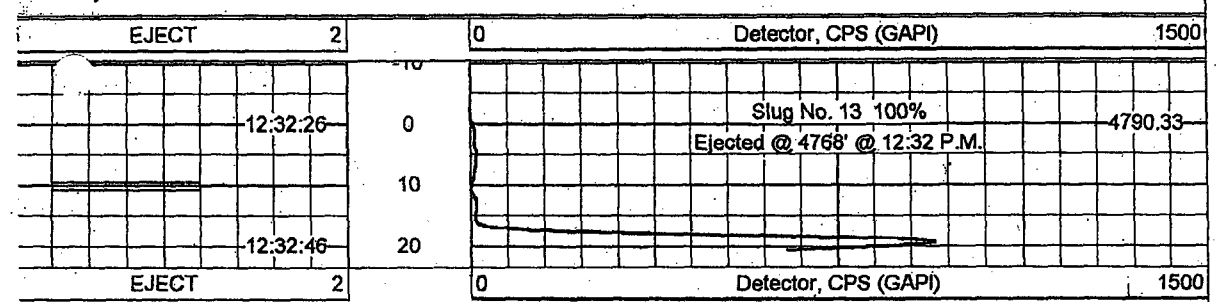


Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel12

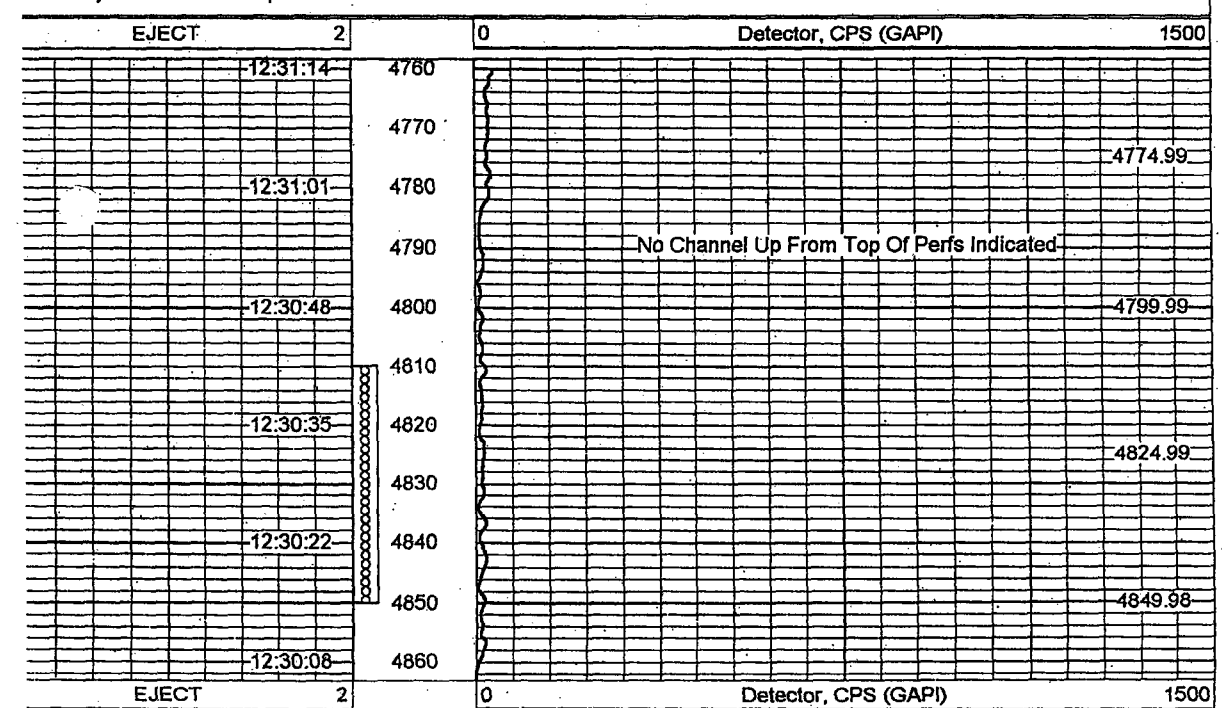
Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel12
 Presentation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:32:26 2004
 Started by: Time scaled 144"/hour

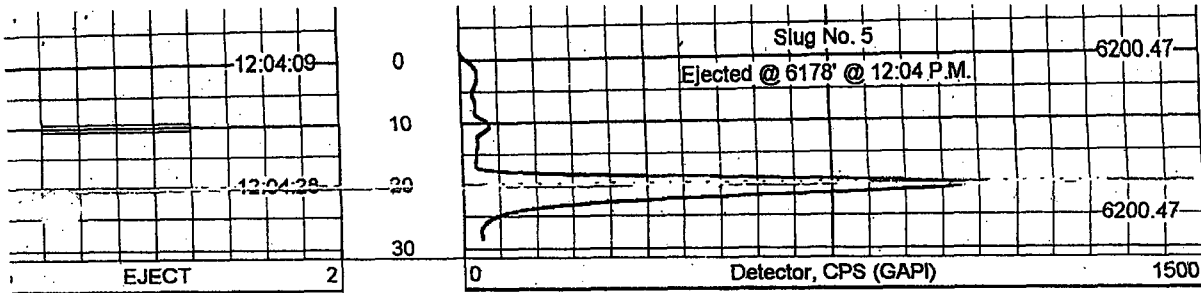


Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel11
 Presentation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:32:26 2004
 Started by: Time scaled 144"/hour

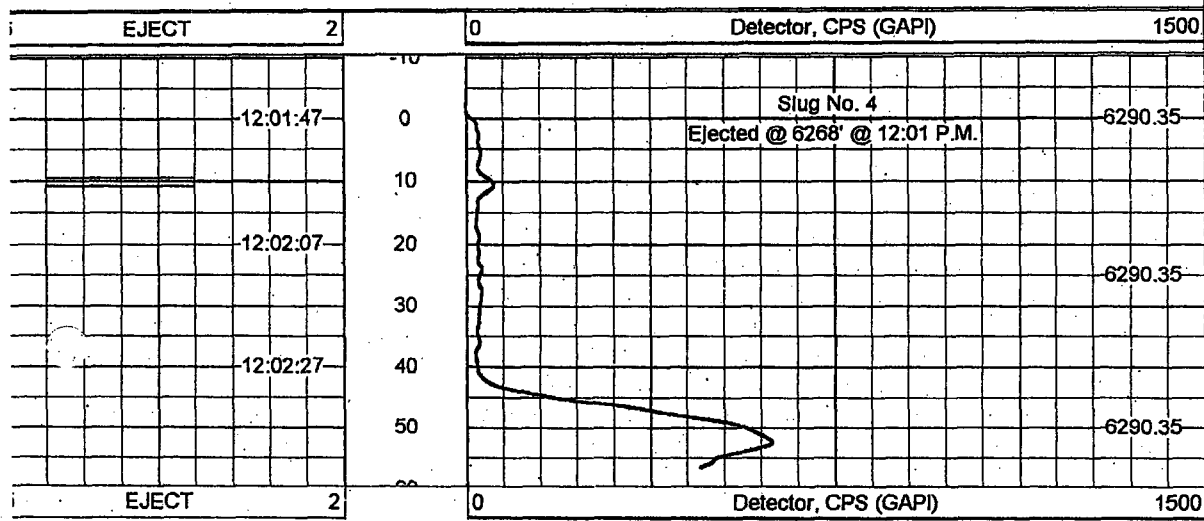


Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel10
 Presentation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:30:07 2004
 Started by: Depth in Feet scaled 1:300

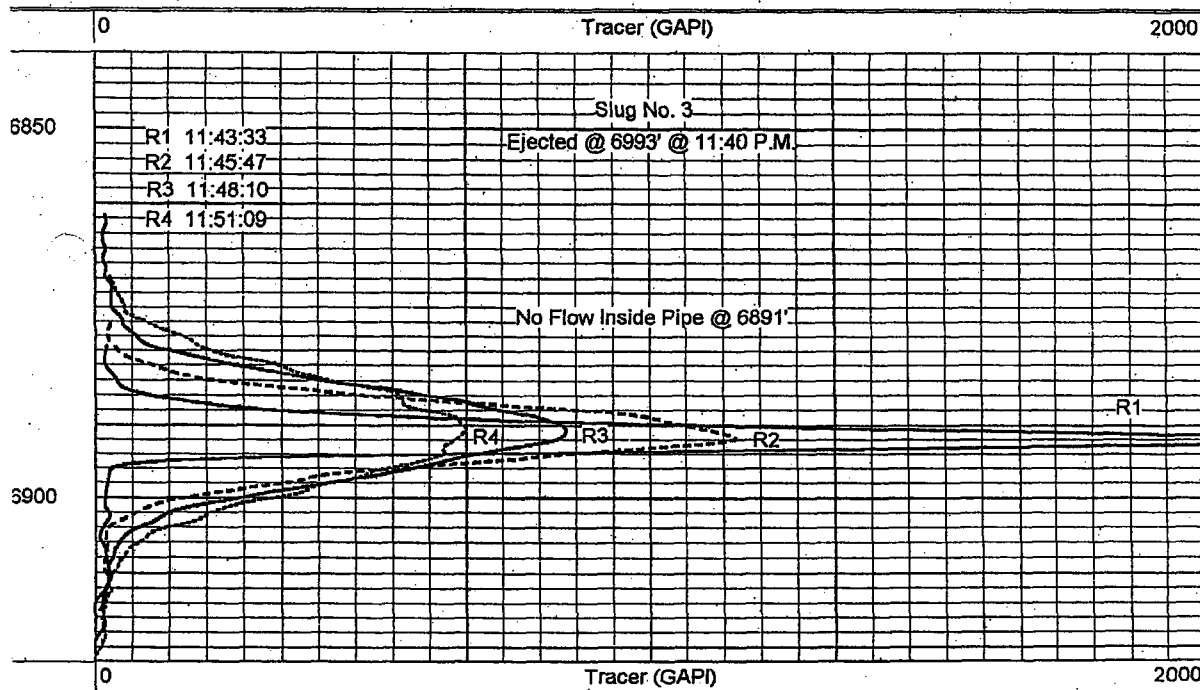




Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2\vel1
 Presentation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:01:46 2004
 Charted by: Time scaled 144"/hour

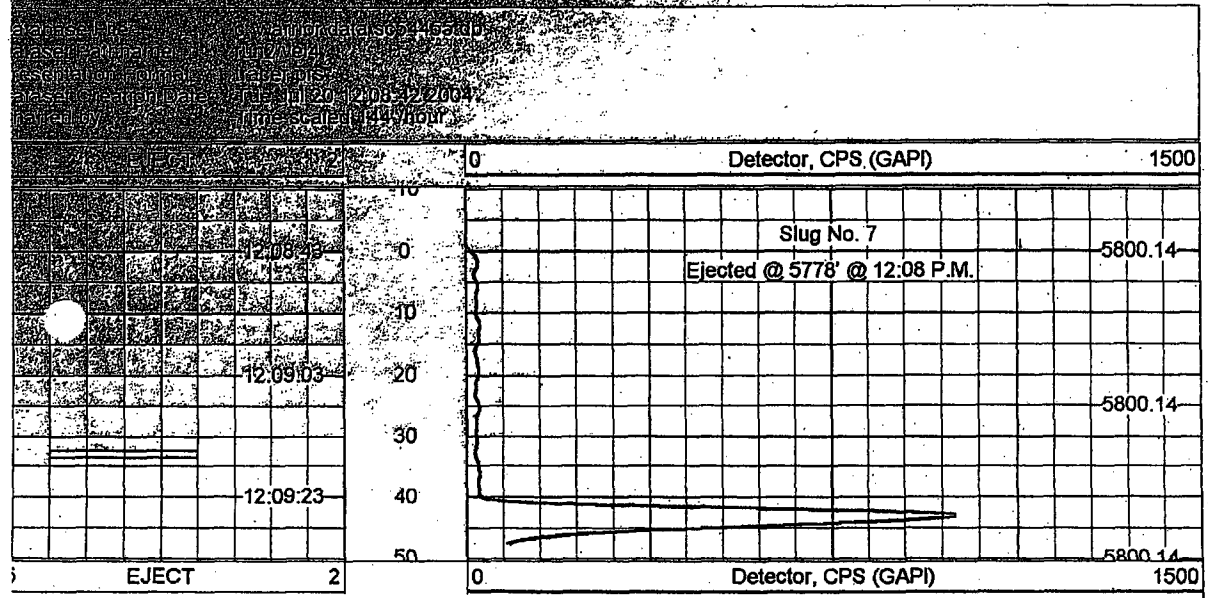
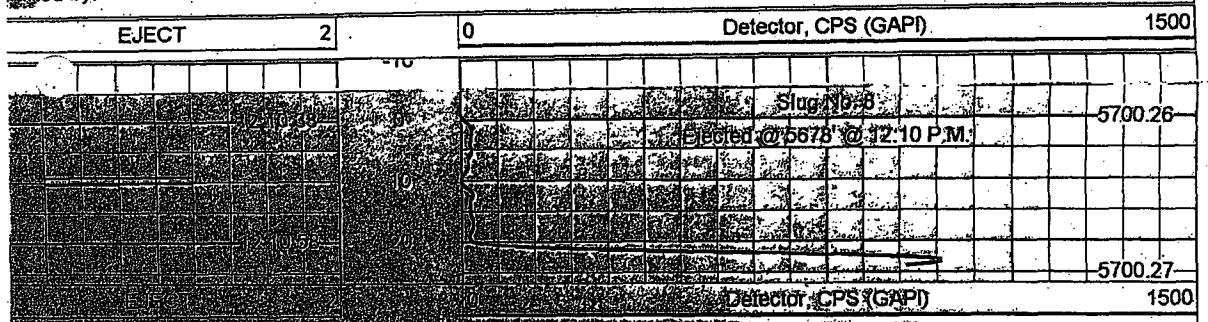


Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2_profile3_
 Presentation Format: trcprof.prs
 Dataset Creation Date: Tue Jul 20 11:51:57 2004
 Charted by: Depth in Feet scaled 1:240

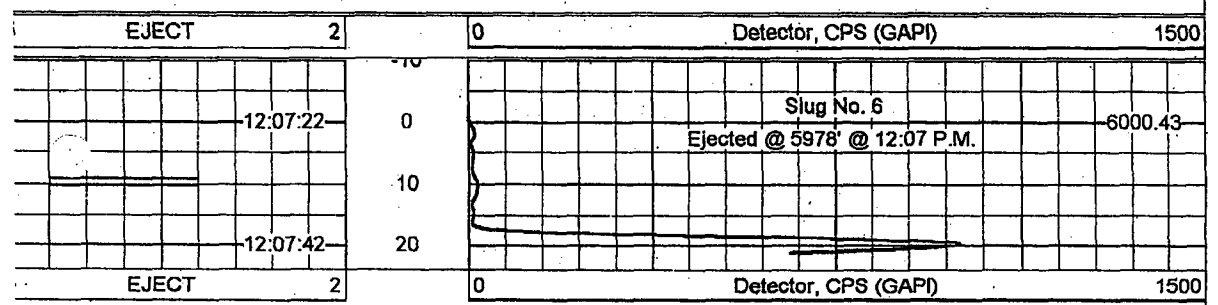


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 Dataset Pathname: run2_profile3_
 Presentation Format: trcprof.prs
 Dataset Creation Date: Tue Jul 20 11:51:57 2004
 Charted by: Depth in Feet scaled 1:240

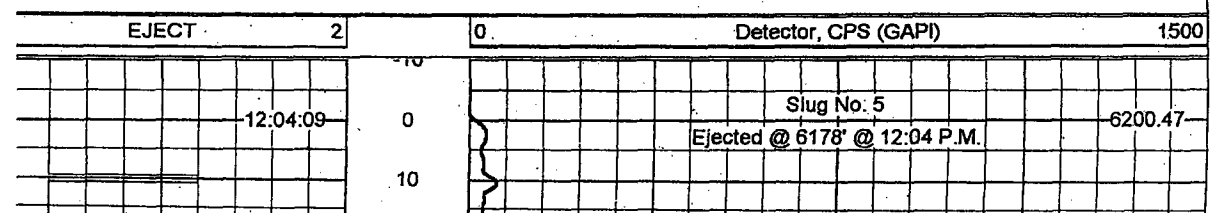
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 Dataset Pathname: run2/vel5
 Presentation Format: tracer.prs
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 Started by: Time scaled 144"/hour



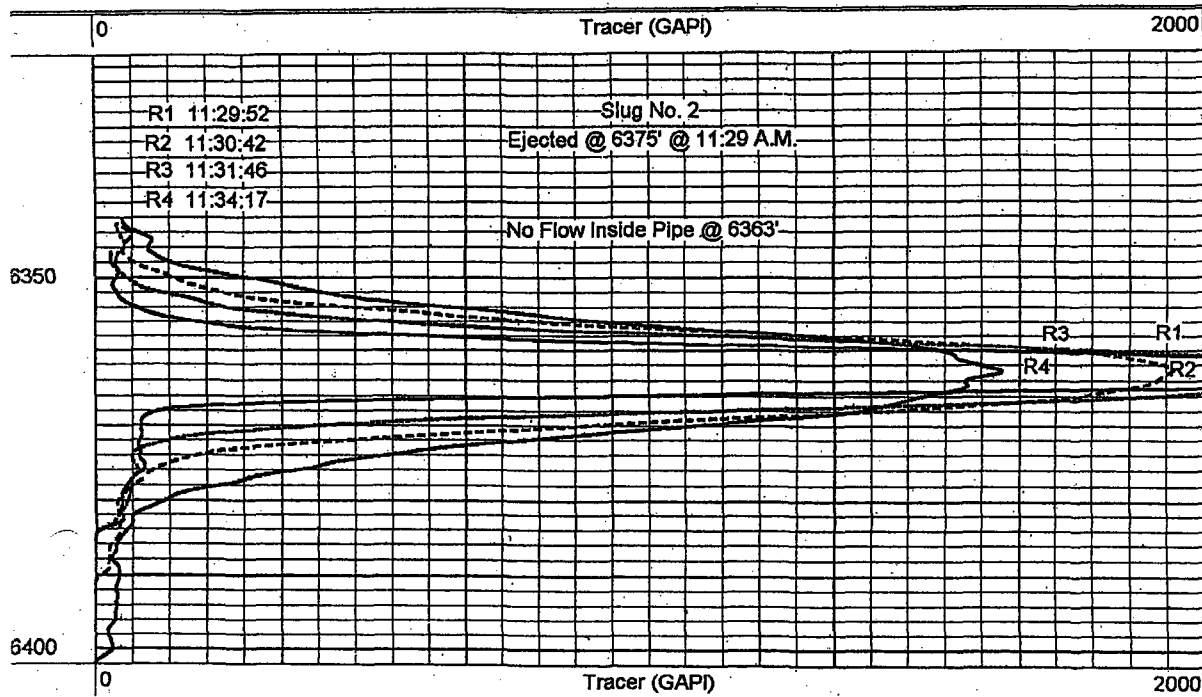
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 Dataset Pathname: run2/vel3
 Presentation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:07:22 2004
 Started by: Time scaled 144"/hour



Database File: c:\warrior\data\sc54455.db
 Dataset Pathname: run2/vel2
 Presentation Format: tracer.prs
 Dataset Creation Date: Tue Jul 20 12:04:08 2004
 Started by: Time scaled 144"/hour



File: c:\warrior\data\sc54455.db
 Run Name: run21_profile2
 Presentation Format: trcprof.prs
 Dataset Creation Date: Tue Jul 20 11:37:53 2004
 Started by: Depth in Feet scaled 1:240



Tracer profile raw data (Velocity Profile):

	Depth	Rate	Slug No
1	4,760.0	A 4226.6	15 100%
2	4,775.4	A 4172.8	14 100%
3	4,790.3	A 4226.6	13 100%
4	4,800.3	A 4090.4	12 100% Channel Check
5	5,280.3	* 3219.6	11
6	5,400.1	* 3013.3	10
7	5,600.5	* 3110.0	9 (Assumed to be 3013.3)
8	5,700.3	* 2817.6	8
9	5,800.1	D 3833.1	7
10	6,000.4	D 3833.1	6
11	6,200.4	* 3789.2	5 (Assumed to be 2817.6)
12	6,290.3	* 939.2	4
13	6,363.0	* .0	2 No Flow
14	6,891.0	* .0	3 No Flow

- Used to plot profile A - Averaged D - Do not use

Average 100% rate = 4,179.1

Losses/entries versus depth corrected
 for material balance inconsistency:

Depth From	Depth To	Rate Loss/Entry
4,800.3	5,280.3	23.0
5,280.3	5,400.1	4.9
5,400.1	5,700.3	4.7
5,700.3	6,290.3	44.9
6,290.3	6,363.0	0.0
6,363.0	6,891.0	0.0

Losses/entries assigned to open intervals:

Depth From	Depth To	Rate Loss/Entry
4,810.0	4,850.0	23.0
5,290.0	5,300.0	4.9
6,210.0	6,260.0	49.6
6,300.0	6,360.0	22.5

D - Do not use

Tracer profile raw data (Intensity Profile):

No	Depth		Rate	
1	4,760.0	A	100.0	(Changed to 100%)
2	4,805.0	A	100.0	(Changed to 100%)
3	4,811.6	D	87.0	
4	4,872.6	D	94.0	
5	4,930.6	D	95.5	
6	4,996.6	D	96.4	
7	5,067.9	D	97.1	
8	5,136.4	D	96.7	
9	5,210.9	*	100.0	
10	5,273.6	*	94.4	
11	5,341.6	*	82.7	
12	5,405.9	*	84.5	(Assumed to be 82.7)
13	5,469.9	*	81.0	
14	5,540.4	D	86.3	
15	5,603.6	D	85.2	
16	5,671.6	*	83.4	(Assumed to be 81.0)
17	5,734.4	*	74.2	
18	5,828.4	*	73.9	
19	5,916.1	*	68.3	
20	6,014.9	D	69.9	
21	6,116.9	*	69.3	(Assumed to be 68.3)
22	6,237.1	D	25.2	
23	6,262.4	*	21.9	

- Used to plot profile A - Averaged D - Do not use

Average 100% rate = 100.0

Losses/entries versus depth corrected
for material balance inconsistency:

Depth From	Depth To	Rate Loss/Entry
5,210.9	5,273.6	5.6
5,273.6	5,341.6	11.7
5,405.9	5,469.9	1.7
5,671.6	5,734.4	6.7
5,734.4	5,828.4	.3
5,828.4	5,916.1	5.6
6,116.9	6,262.4	46.4

Losses/entries assigned to open intervals:

Depth From	Depth To	Rate Loss/Entry
5,290.0	5,300.0	17.3
6,210.0	6,260.0	60.8

Remaining: 21.9%

D - Do not use

