



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICEBRUCE KING
GOVERNORLARRY KEHOE
SECRETARY

August 20, 1981

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-0161

Mr. James B. Kelly
Operating Department
El Paso Natural Gas Company
P.O. Box 1492
El Paso, TX 79978

SUBJECT: Shell State SWD #13-L 32-23-37

Dear Mr. Kelly:

Since the above well was completed in a manner other than the one outlined in SWD-214, it is my understanding from our recent telephone conversation concerning the above disposal well that El Paso will run a tracer or an inspection log each year to verify that the water is going all the way down to the perforated interval at 3866 --2882 feet before leaving the wellbore.

We would appreciate your giving us a letter confirming the above. Also, you will need to furnish this office with a copy of each log or tracer run on the above well.

According to a letter dated March 12, 1981, from a Mr. John W. McCarthy with your firm, the above well was put into service on March 7, 1981, and as of this date we have received no monthly disposal reports, Form C-120A. After disposal is commenced, this form should be submitted monthly whether water is disposed into the well or not.

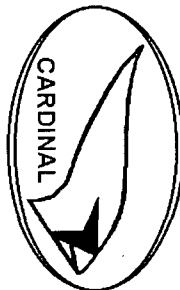
Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

ed

cc: File



CARDINAL SURVEYS COMPANY

MECHANICAL INTEGRITY TEST

Shell State "13" SWD
Langlie Mattix
Lea
New MexicoCompany WESTERN REFINING
Well SHELL STATE "13" SWD
Field LANGLEIE MATTIX
County LEA State NEW MEXICOLocation
NW 1/4 & SW 1/4
SEC. 32, TWP. 23-S, RGE. 37-EFile Number
18,777Well
Field
County
StatePermanent Datum
Log Measured From
Drilling Measured FromG.L.
K.B.
K.B.
Elevation
3304'Elevation
K.B.
D.F.
G.L. 3304'

07-03-2008

3998'

3998'

3934'

3934'

3500'

3500'

NEWMAN/GARRETT

MR. KEN PARKER

ODESSA, TX

8723

ADKINS/PELLISSIER

DISPOSAL

INJECTING

WATER

SURFACE

11 GPM

"0" PSI

493.4 BPD
11-17
493.4 BPD
11-17

Borehole Record

Bit From To

Size

Weight

From To

To

Tubing Record

From To

Size

Weight

From To

Size

Weight

From To

ing Record

ace String

med. String

uction String

Size

7 5/8"

4 1/2"

2 7/8"

Wgt/Ft

24#

9.5#

6.5#

Top

SURFACE

SURFACE

SURFACE

Bottom

266'

2719'

3996'

<<< 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

TOOL CONFIGURATION: TEMP, CCL, DET, EJECT. (1 3/8") SCINTILLATION DETECTOR
CORRELATED TO: CARDINAL SURVEYS, 07-31-2007, FILE NO. 18,129
PERFORATIONS: 3866'-3926'

CONCLUSION: Reported injection rate 11 GPM @ "0" PSI.
Averaged slug no's. 11-17 to obtain 100% rate. Used rate obtained, 493.4 BPD, to calculate velocity profile.
Averaged runs 1-4 to obtain 100% area. Used runs 5 & 6 to plot intensity profile.
No flow inside pipe @ 3905'. Slug no. 3.
Intensities indicate movement down to 3910'.
No channel up from top of perfs indicated. Slug no. 11.

Database File: sc57463.db
Dataset Pathname: MERGE1
Presentation Format: SC57463
Dataset Creation: Thu Jul 03 13:04:22 2008
Charted by: Depth in Feet scaled 1:240

Chavez, Carl J, EMNRD

From: Parker, Ken [Ken.Parker@wnr.com]
Sent: Tuesday, July 08, 2008 12:47 PM
To: Chavez, Carl J, EMNRD
Cc: Williams, Chris, EMNRD
Subject: FW: Log ready to download, Shell State 13 SWD Tracer Log

Attachments: Darrell Norris.vcf



Darrell Norris.vcf
(764 B)

Carl & Chris

Do you need a hard copy or will this do?

Ken

From: Darrell Norris [mailto:dnorris@swbell.net]
Sent: Tue 7/8/2008 11:01 AM
To: Parker, Ken
Subject: Log ready to download

<http://www.cardinalsurveys.com/westernrefining/>

Please follow the above link to download your log.

Ken we did not detect a channel on the R/A Tracer or on the Upward Channel Check.

Thanks
Darrell

CARDINAL SURVEYS COMPANY

Darrell Norris

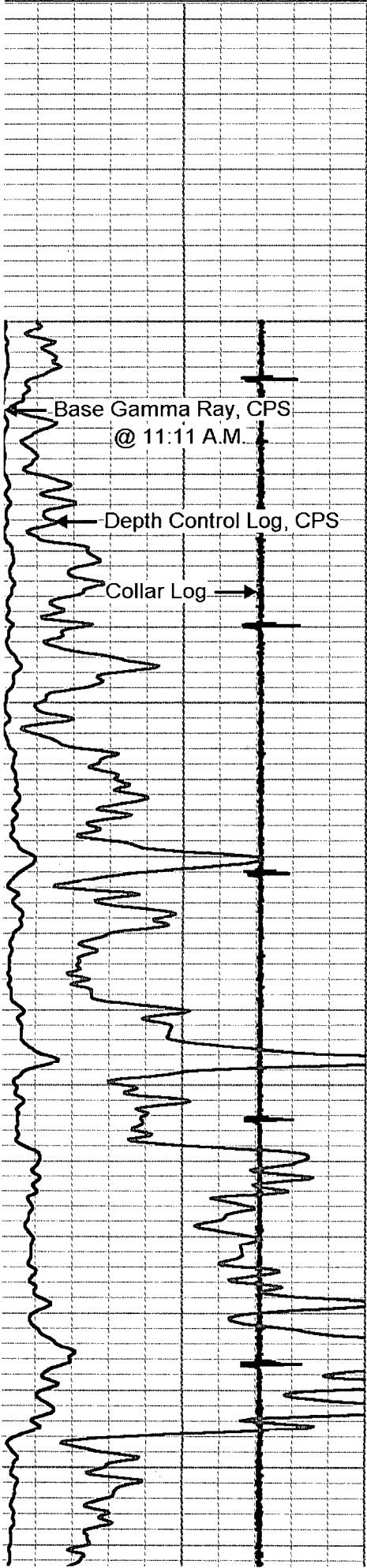
Division Sales Manager

432-580-8061

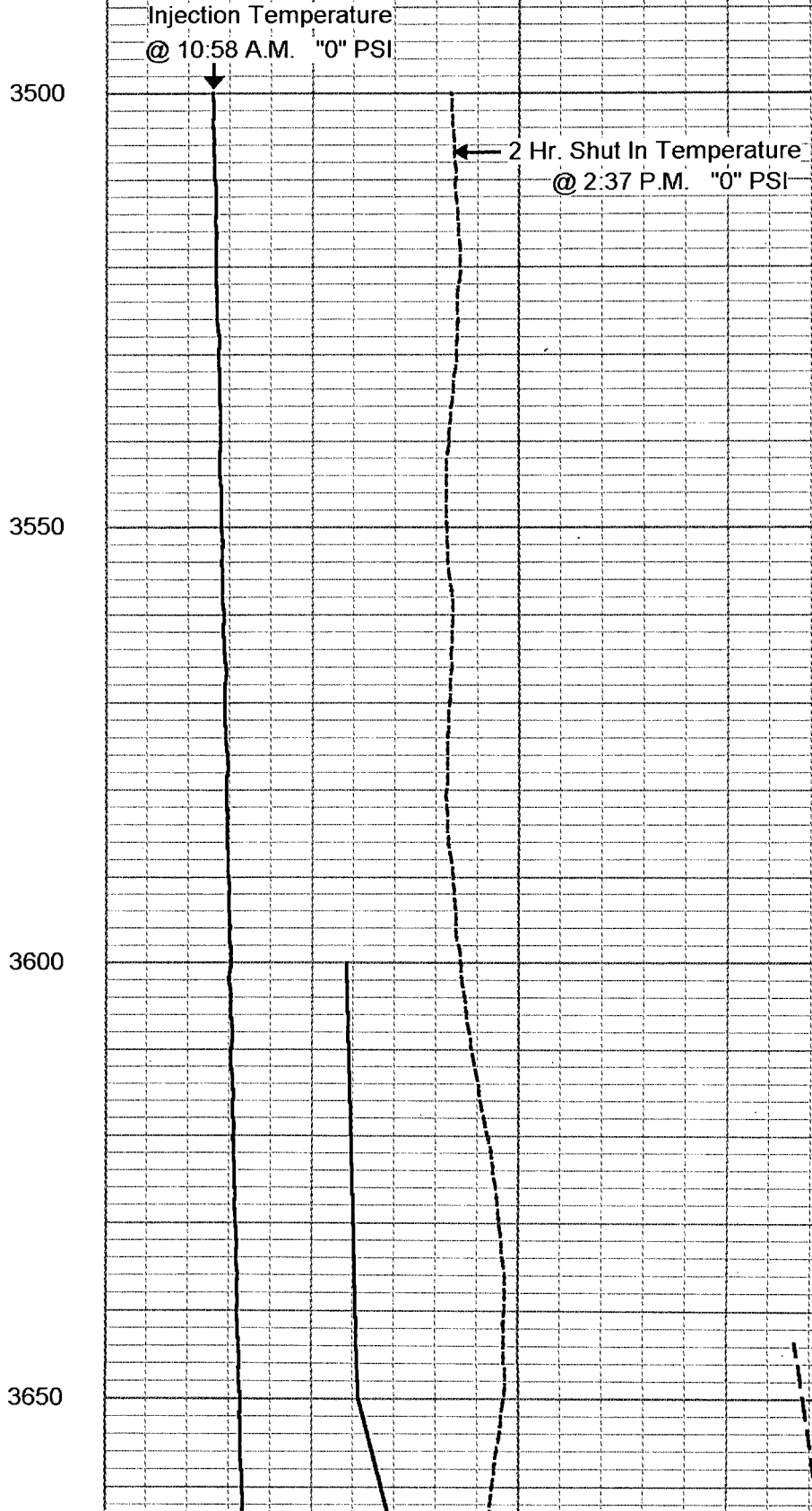
432-580-0547 (fax)

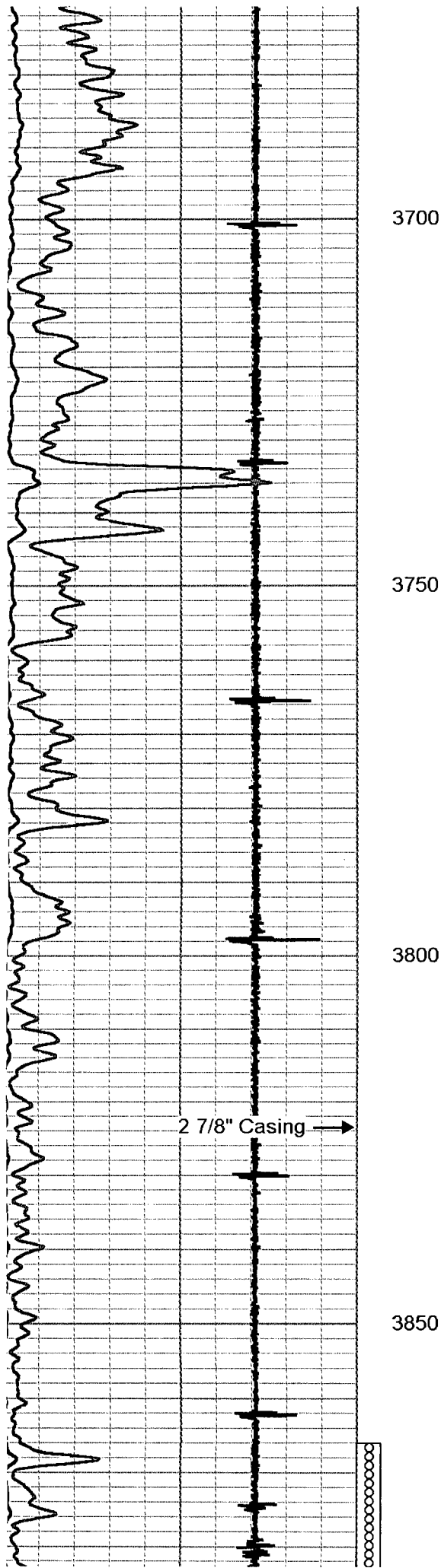
dnorris@cardinalsurveys.com

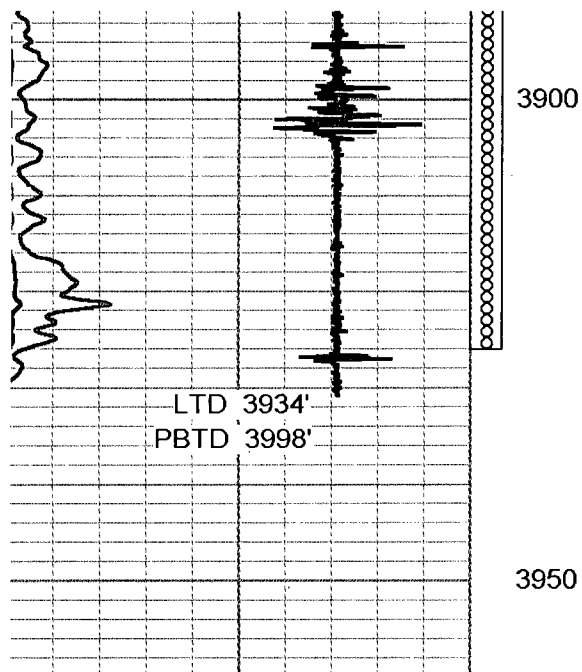
This inbound email has been scanned by the MessageLabs Email Security System.



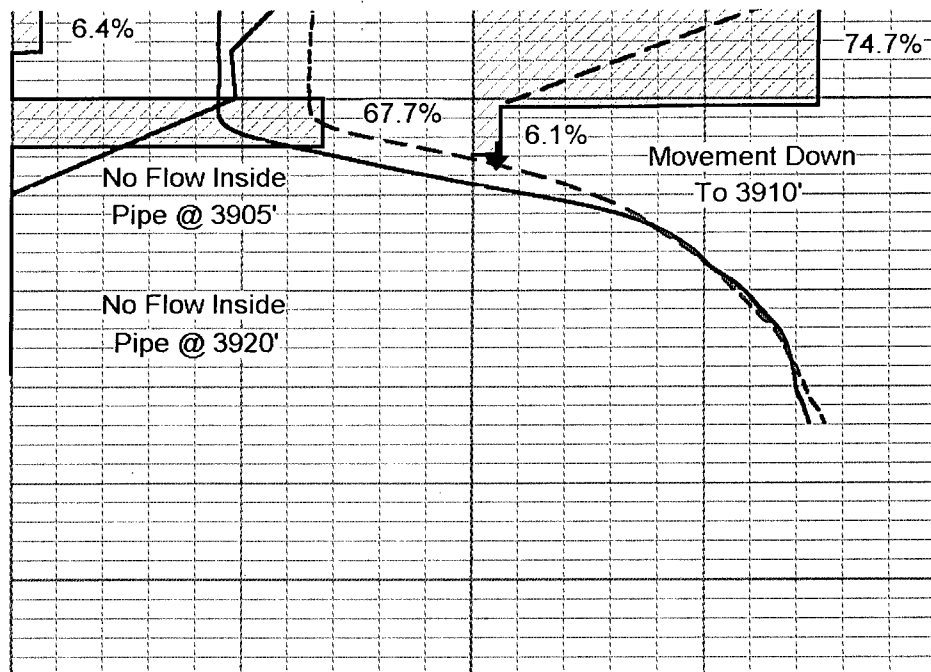
Casing Data







-10	Collar Log	4
0	Base Gamma Ray, CPS	750
0	Depth Control Log, CPS	100



77	Injection Temperature (degF)		87
77	2 Hr. Shut In Temperature (degF)		87
0	Velocity Loss, %	100	0
0	Velocity Flow, (b/d)	700	0
	Intensity Loss, %		100
	Intensity Flow, (%)		100

Company:
 Well:
 File: c:\warrior\data\sc57463.db
 Dataset: field/well/run1/_tracer/_shottabl_/1
 Reference Rate: 493.4 b/d

VELOCITY RESULTS

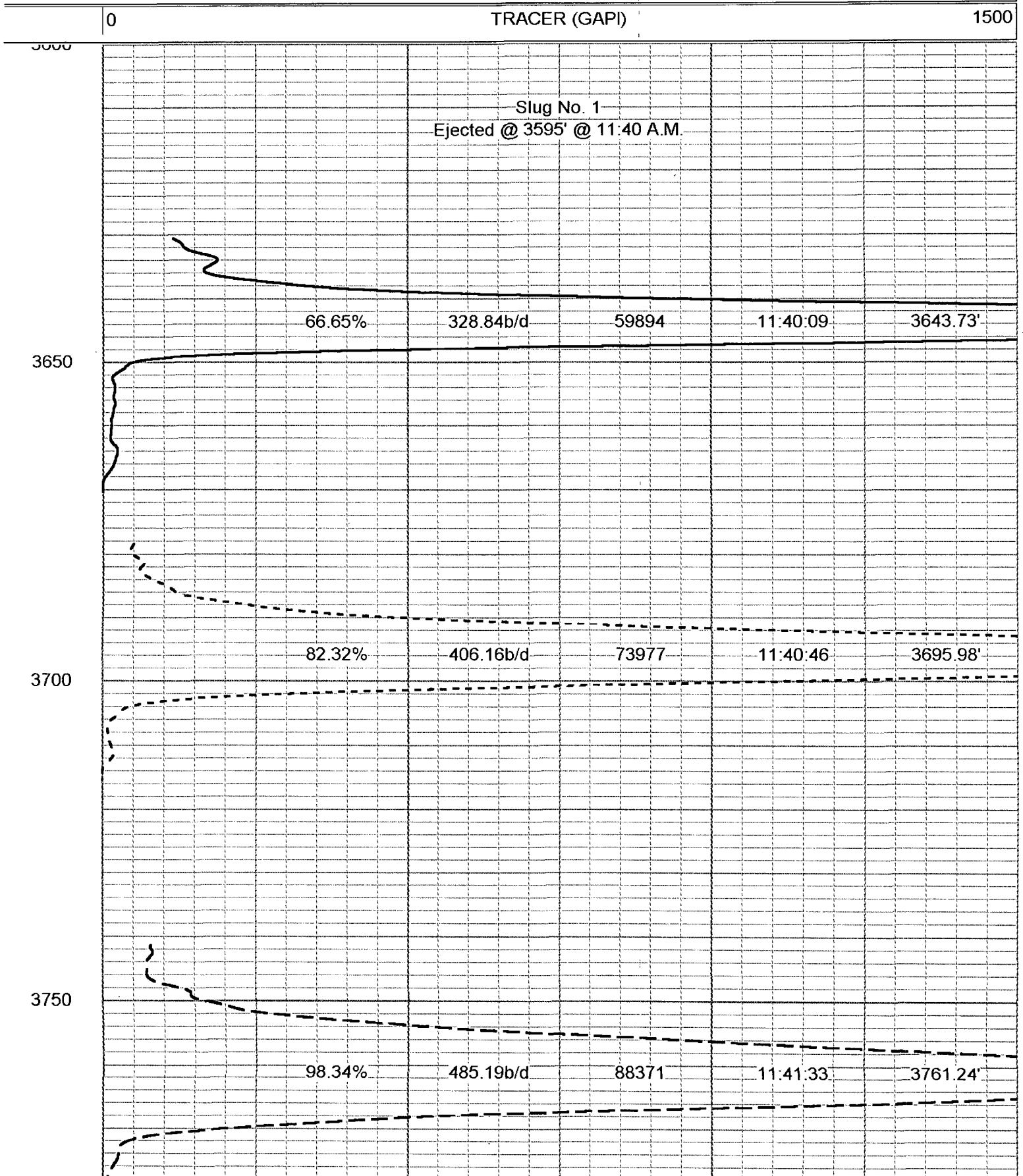
#	Depth (ft)	Time	D Space (ft)	D Time (sec)	Csg ID (in)	Flow (b/d)	Flow (%)	Delta (%)	Comment
33	3600.14	11:29:01	5.00	4.16	2.44	409.75	83.05		Slug #17 100
32	3650.12	11:27:44	5.00	3.96	2.44	430.46	87.24	-4.20	Slug #16 100
31	3700.47	11:26:33	5.00	2.74	2.44	622.29	100.00	-12.76	Slug #15 100
30	3750.08	11:25:24	5.00	3.26	2.44	522.77	100.00	0.00	Slug #14 100
29	3830.21	11:23:25	5.00	3.10	2.44	549.95	100.00	0.00	Slug #13 100
28	3850.39	11:22:24	5.00	4.00	2.44	426.16	86.37	13.63	Slug #12 100
26	3860.36	11:18:59	5.00	3.46	2.44	492.67	99.85	-13.48	Slug #11 Ch.
25	3870.25	11:13:22	5.00	4.34	2.44	392.79	79.61	20.24	Slug #10
24	3875.20	11:12:35	5.00	3.00	2.44	568.21	100.00	-20.39	Slug #9
23	3880.29	11:11:40	5.00	2.90	2.44	587.82	100.00	0.00	Slug #8
22	3885.28	11:10:54	5.00	4.66	2.44	365.79	74.14	25.86	Slug #7
21	3890.19	11:10:04	5.00	4.20	2.44	405.84	82.25	-8.12	Slug #6
20	3895.21	11:09:03	5.00	5.10	2.44	334.27	67.75	14.51	Slug #5
19	3900.10	11:07:49	5.00	5.00	2.44	340.92	69.10	-1.35	Slug #4
17	3910.13	11:05:18	5.00	1000000000.00	2.44	0.00	0.00	69.10	Slug #3 No F
15	3929.00	10:58:45	5.00	1000000000.00	2.44	0.00	0.00	-0.00	Slug #2 No F

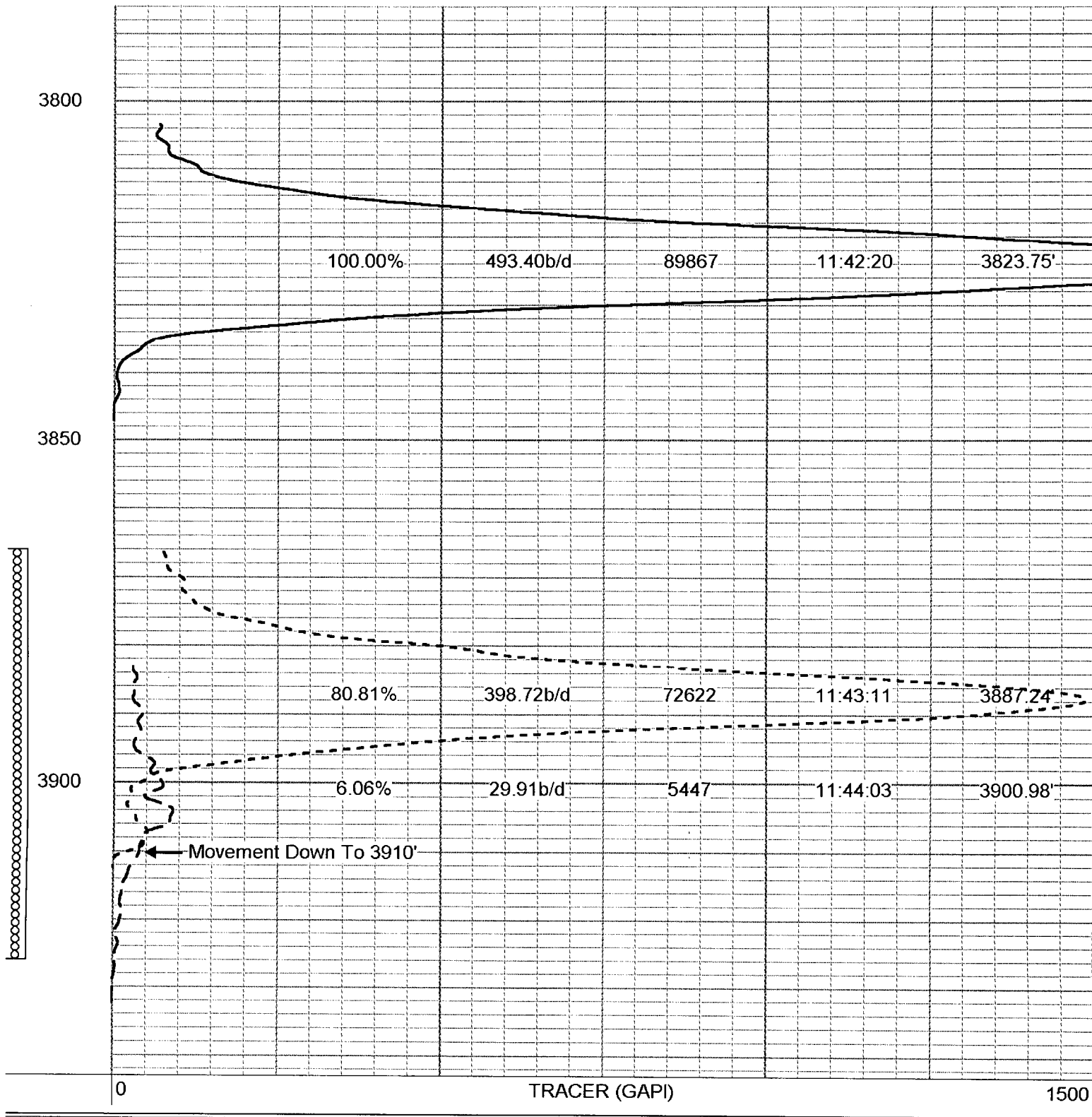
TRACER RESULTS

#	Depth (ft)	Time	Integration	Flow (%)	Delta (%)	Comment
9	3643.73	10:40:18	59893.80	66.65		s2
10	3605.00	10:40:50	72077.20	82.22	15.67	s2

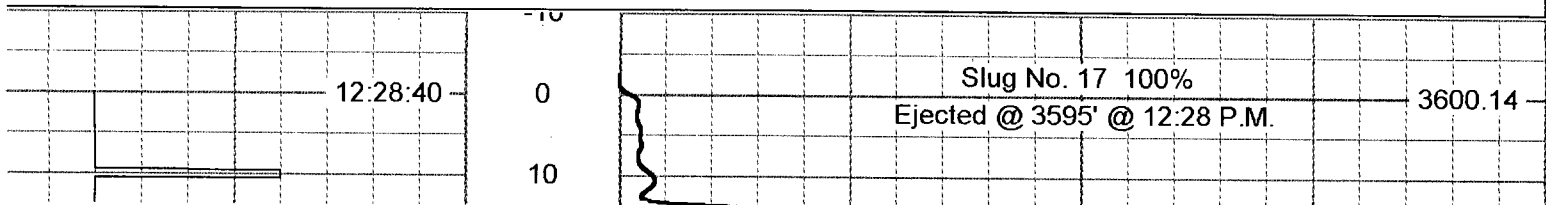
12	3929.19	10:42:52	69000.10	100.00	-1.00	s2
13	3887.24	10:43:26	72622.10	80.81	19.19	s2
14	3900.98	10:44:17	5447.09	6.06	74.75	s2

Database File: sc57463.db
 Dataset Pathname: _profile2_
 Presentation Format: TRCPR01
 Dataset Creation: Tue Jul 08 10:21:35 2008
 Charted by: Depth in Feet scaled 1:240





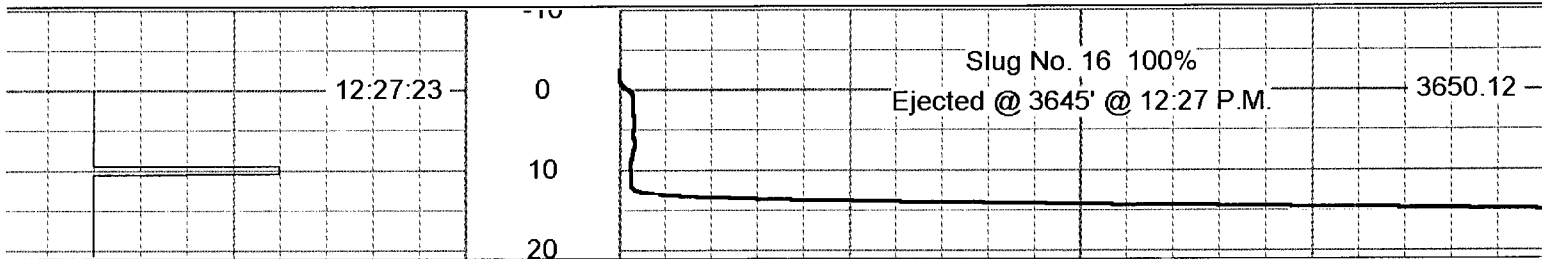
Database File: sc57463.db
 Dataset Pathname: vel19
 Presentation Format: TRACER
 Dataset Creation: Thu Jul 03 12:28:40 2008
 Charted by: Time scaled 144"/hour



-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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Database File: sc57463.db
Dataset Pathname: vel18
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:27:23 2008
Charted by: Time scaled 144"/hour

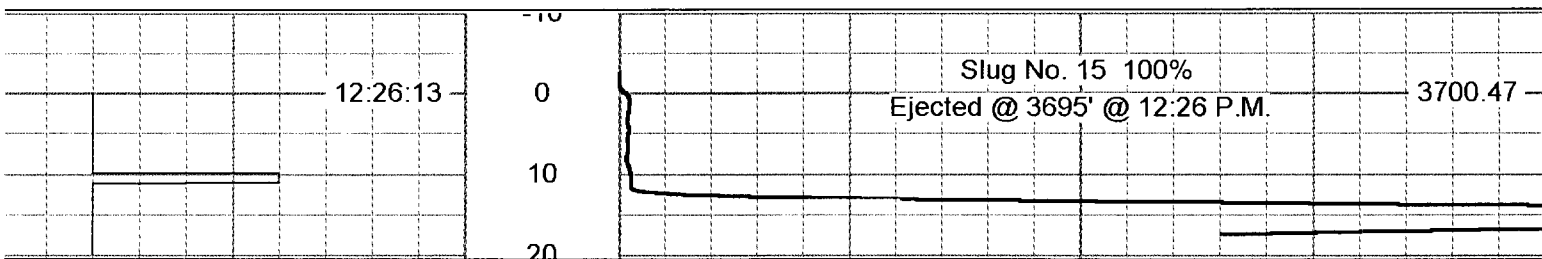
-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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Database File: sc57463.db
Dataset Pathname: vel17
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:26:12 2008
Charted by: Time scaled 144"/hour

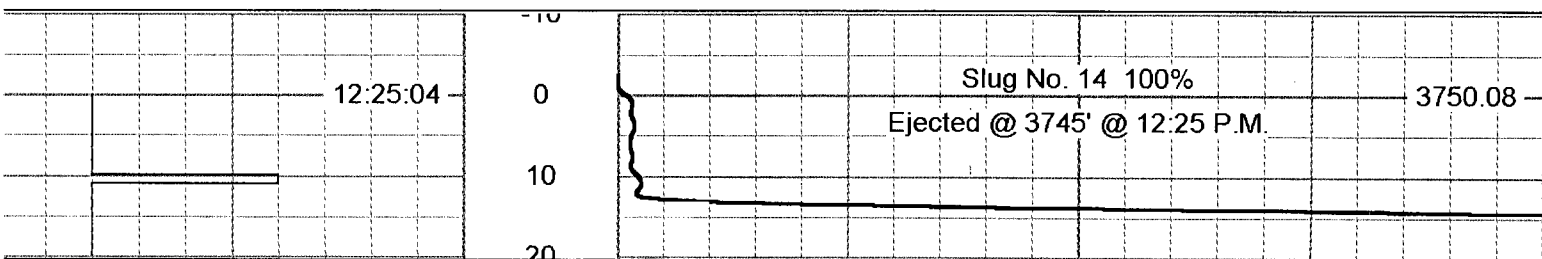
-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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Database File: sc57463.db
Dataset Pathname: vel16
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:25:03 2008
Charted by: Time scaled 144"/hour

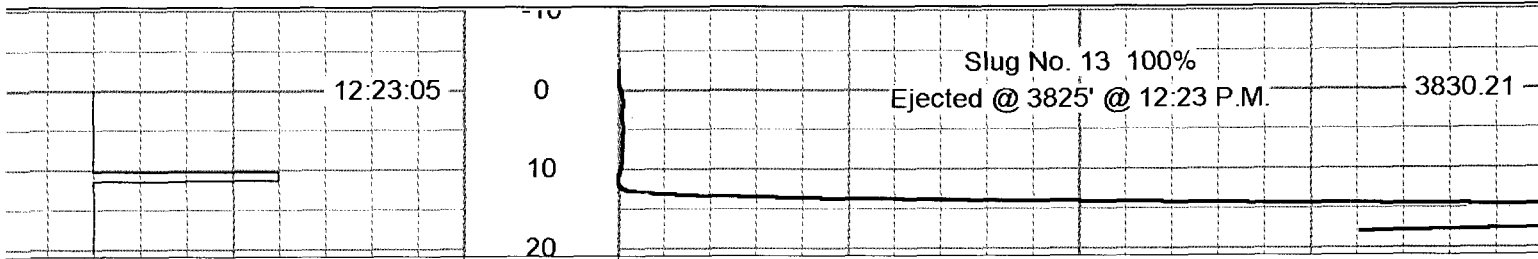
-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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Database File: sc57463.db
Dataset Pathname: vel15

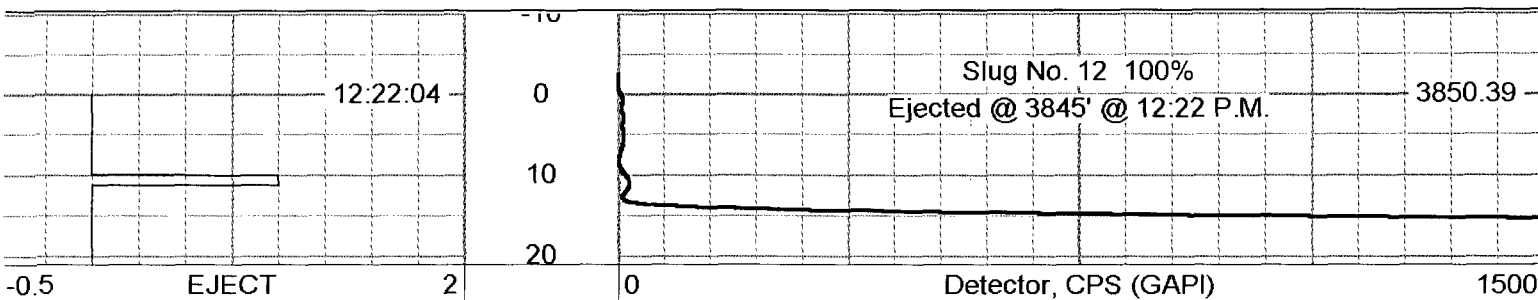
-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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Database File: sc57463.db
Dataset Pathname: vel14
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:22:03 2008
Charted by: Time scaled 144"/hour

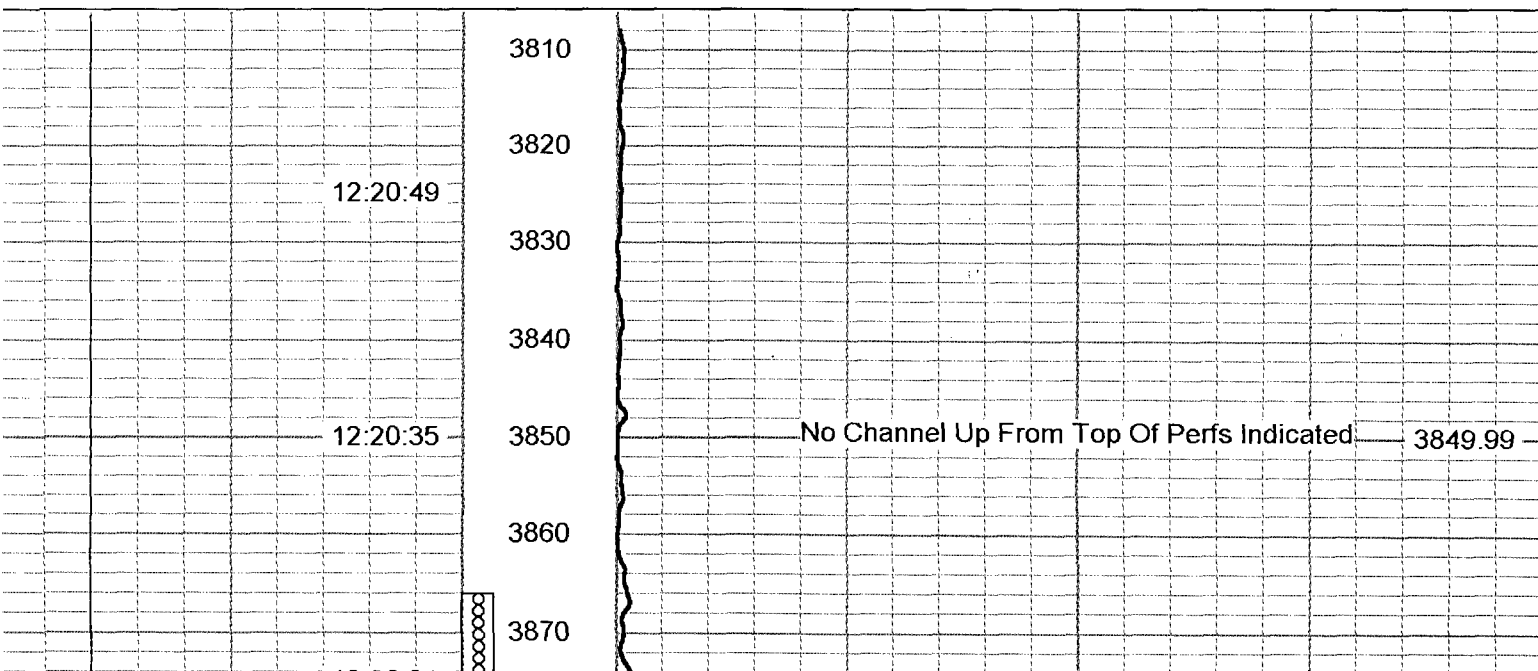
-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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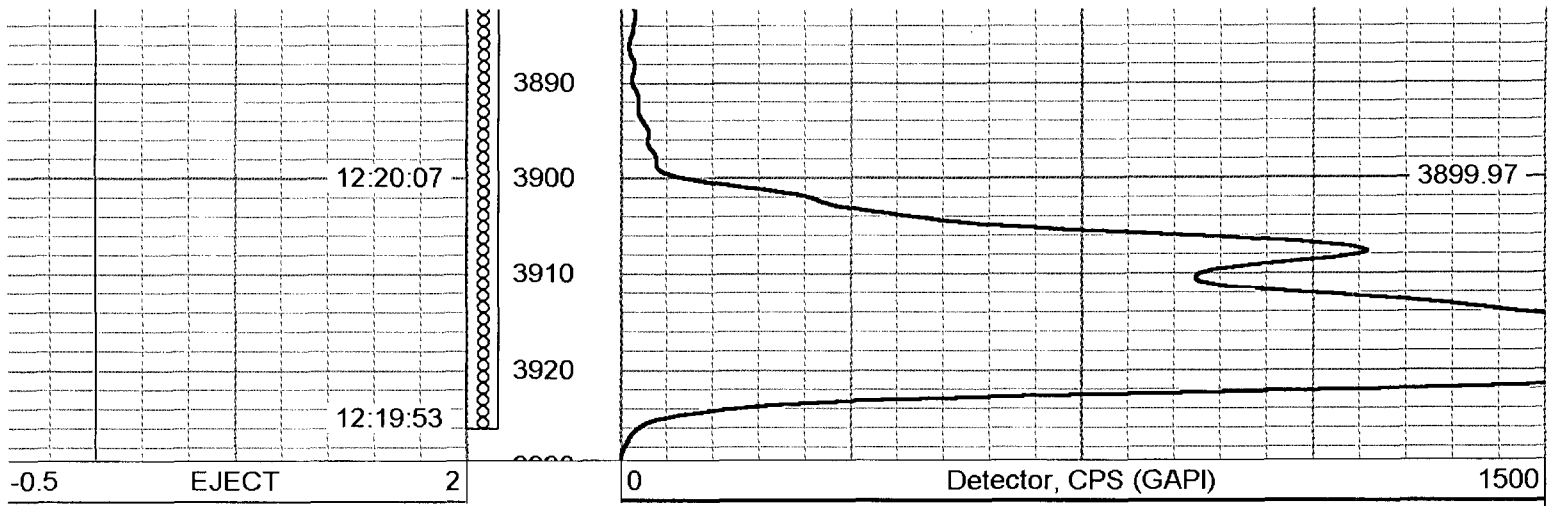


-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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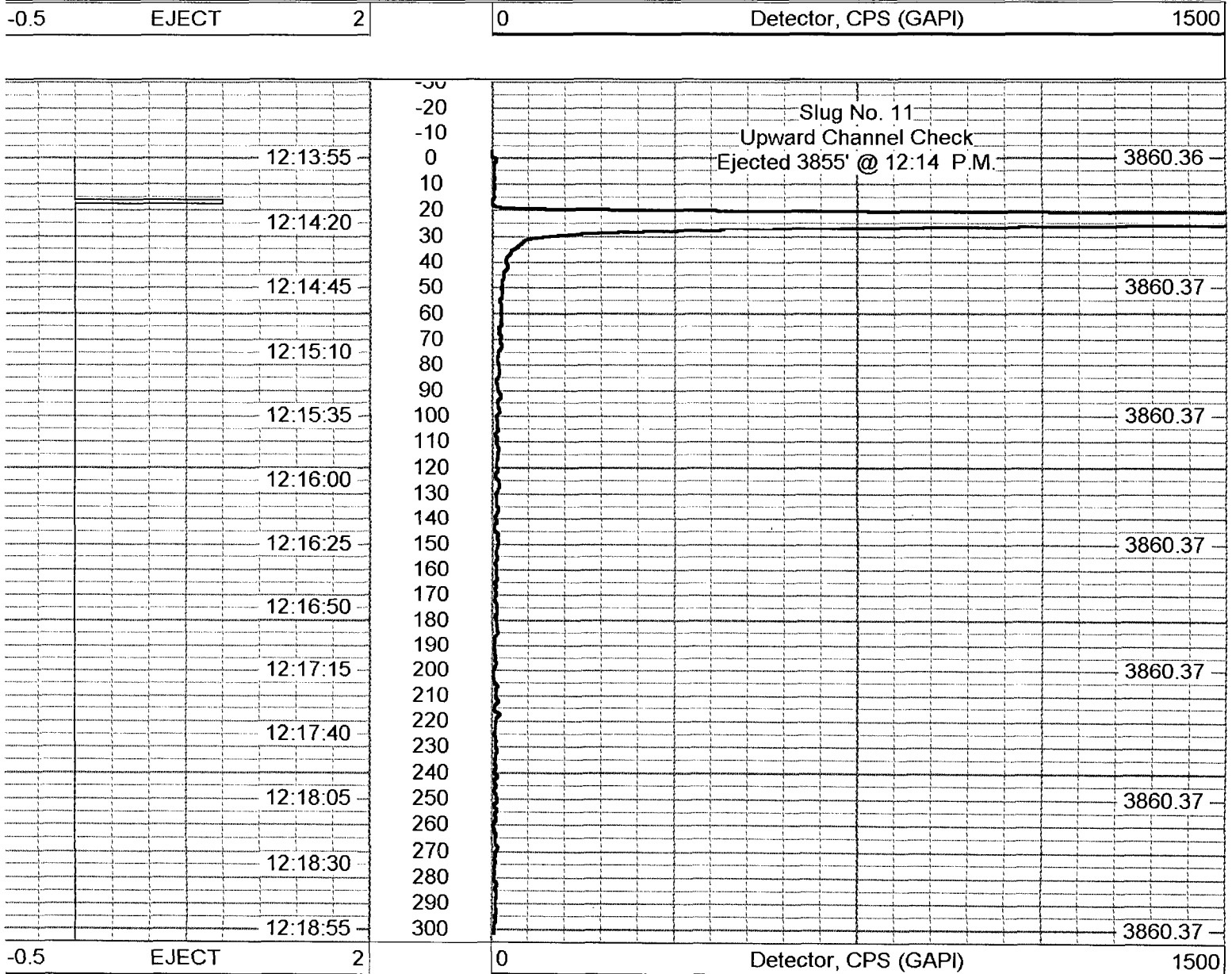
Database File: sc57463.db
Dataset Pathname: vel13
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:19:47 2008
Charted by: Depth in Feet scaled 1:240

-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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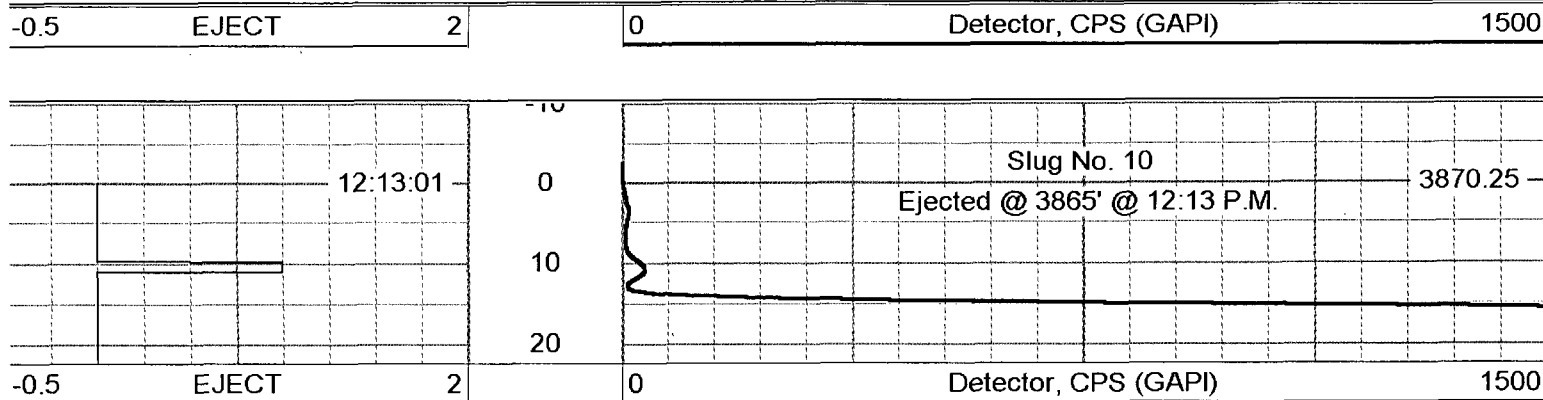


Database File: sc57463.db
Dataset Pathname: vel12
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:13:54 2008
Charted by: Time scaled 60"/hour

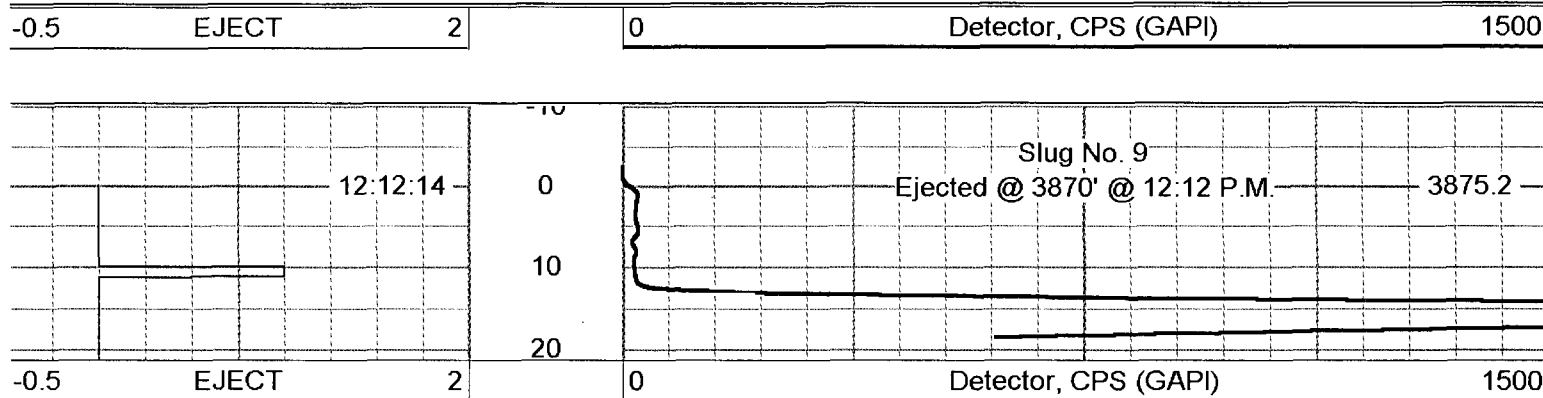


Database File: sc57463.db

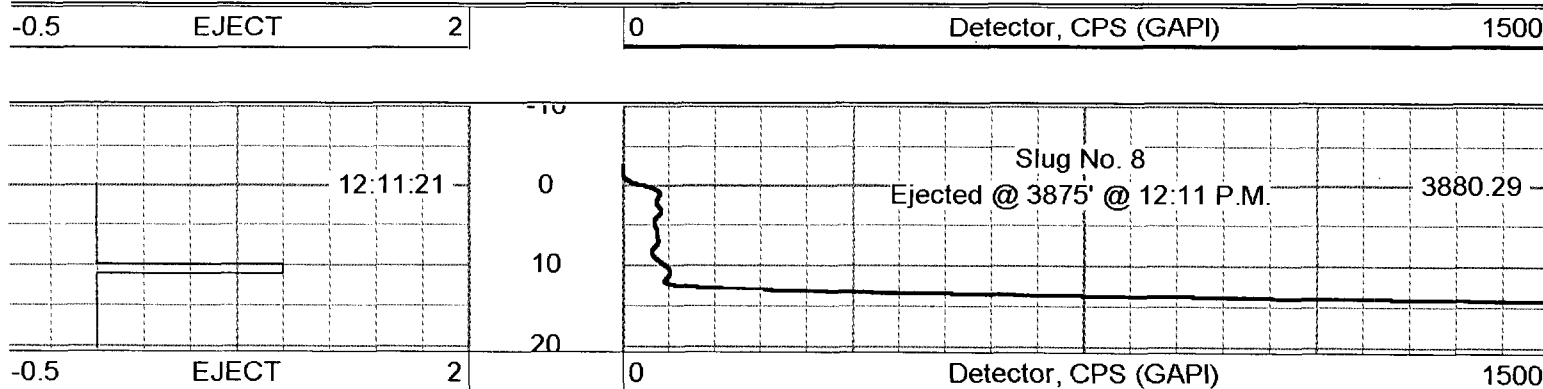
Dataset Creation: Thu Jul 03 12:13:00 2008
Charted by: Time scaled 144"/hour



Database File: sc57463.db
Dataset Pathname: vel10
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:12:13 2008
Charted by: Time scaled 144"/hour

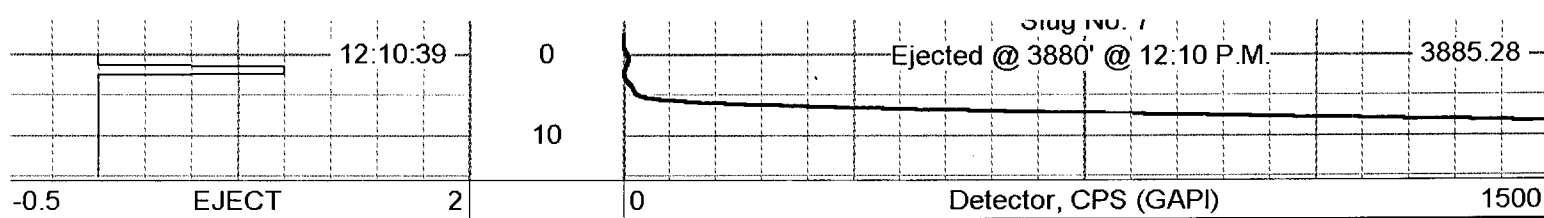


Database File: sc57463.db
Dataset Pathname: vel9
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:11:19 2008
Charted by: Time scaled 144"/hour

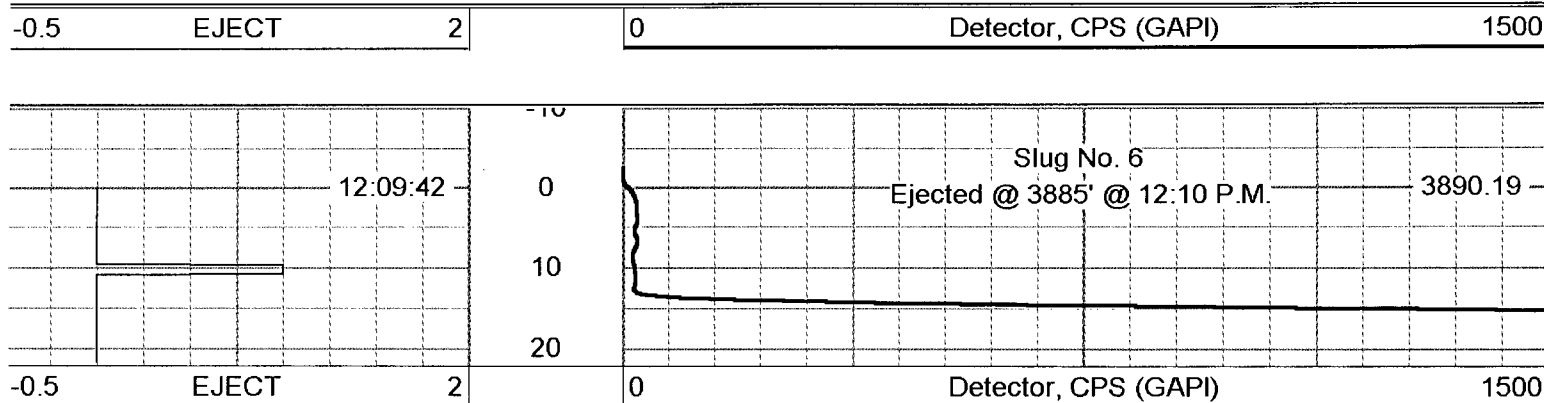


Database File: sc57463.db
Dataset Pathname: vel8
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:10:39 2008
Charted by: Time scaled 144"/hour

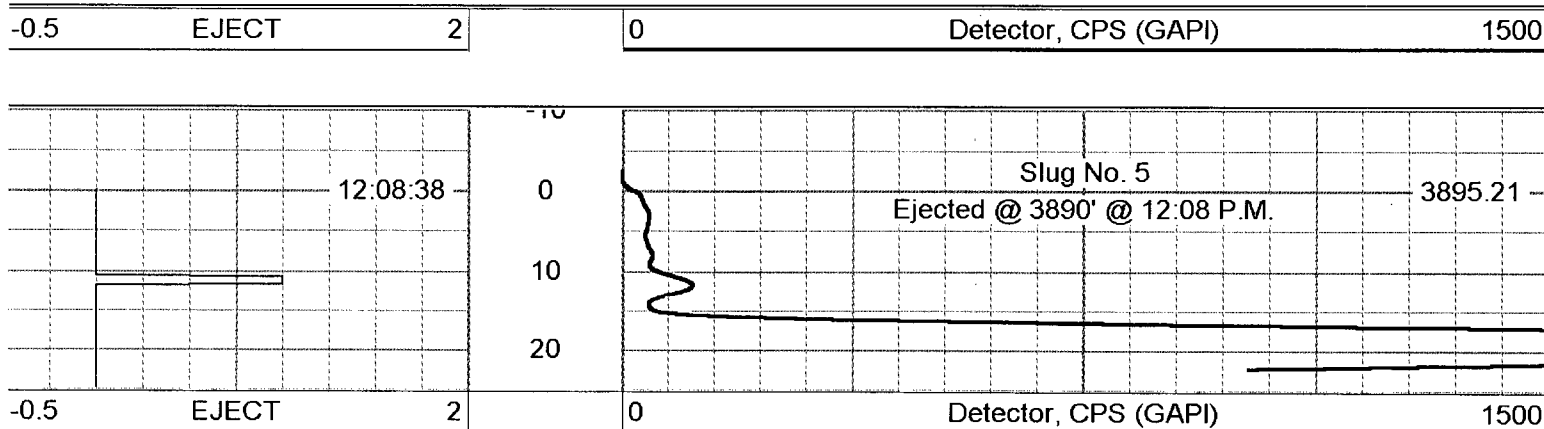




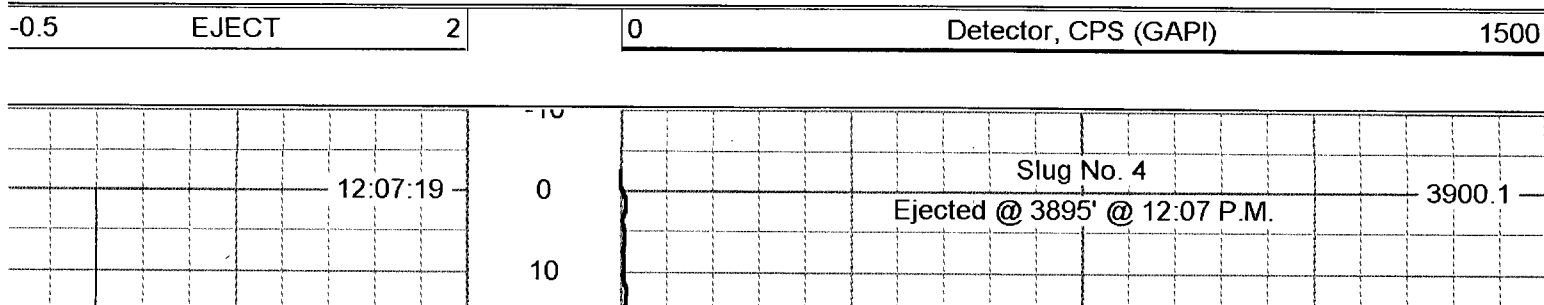
Database File: sc57463.db
Dataset Pathname: vel7
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:09:41 2008
Charted by: Time scaled 144"/hour



Database File: sc57463.db
Dataset Pathname: vel6
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:08:38 2008
Charted by: Time scaled 144"/hour



Database File: sc57463.db
Dataset Pathname: vel5
Presentation Format: TRACER
Dataset Creation: Thu Jul 03 12:07:18 2008
Charted by: Time scaled 144"/hour



-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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12:05:47

12:05:32

3870

3880

3890

3900

3910

No Flow Inside Casing @ 3905'

3899.99

-0.5

EJECT

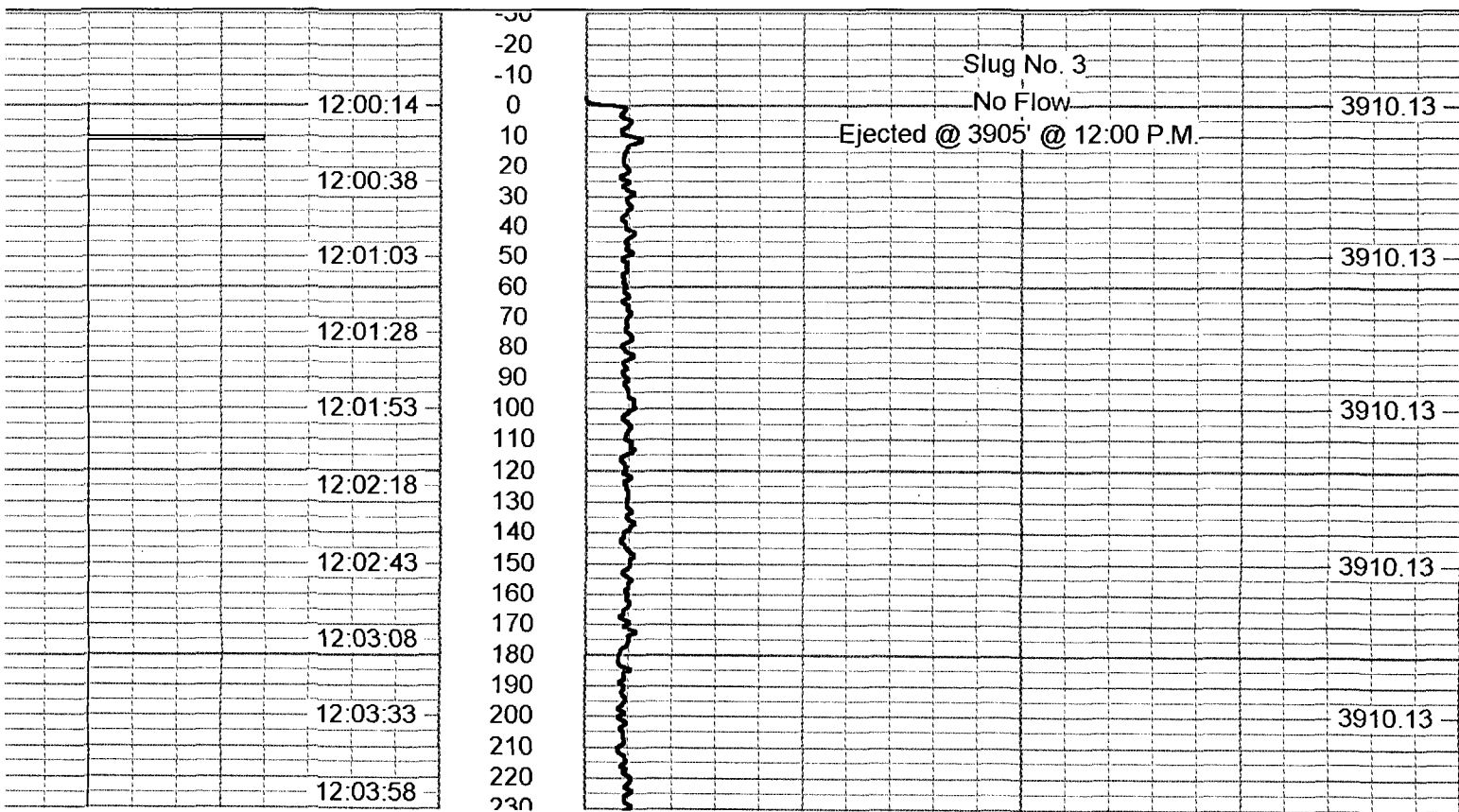
2

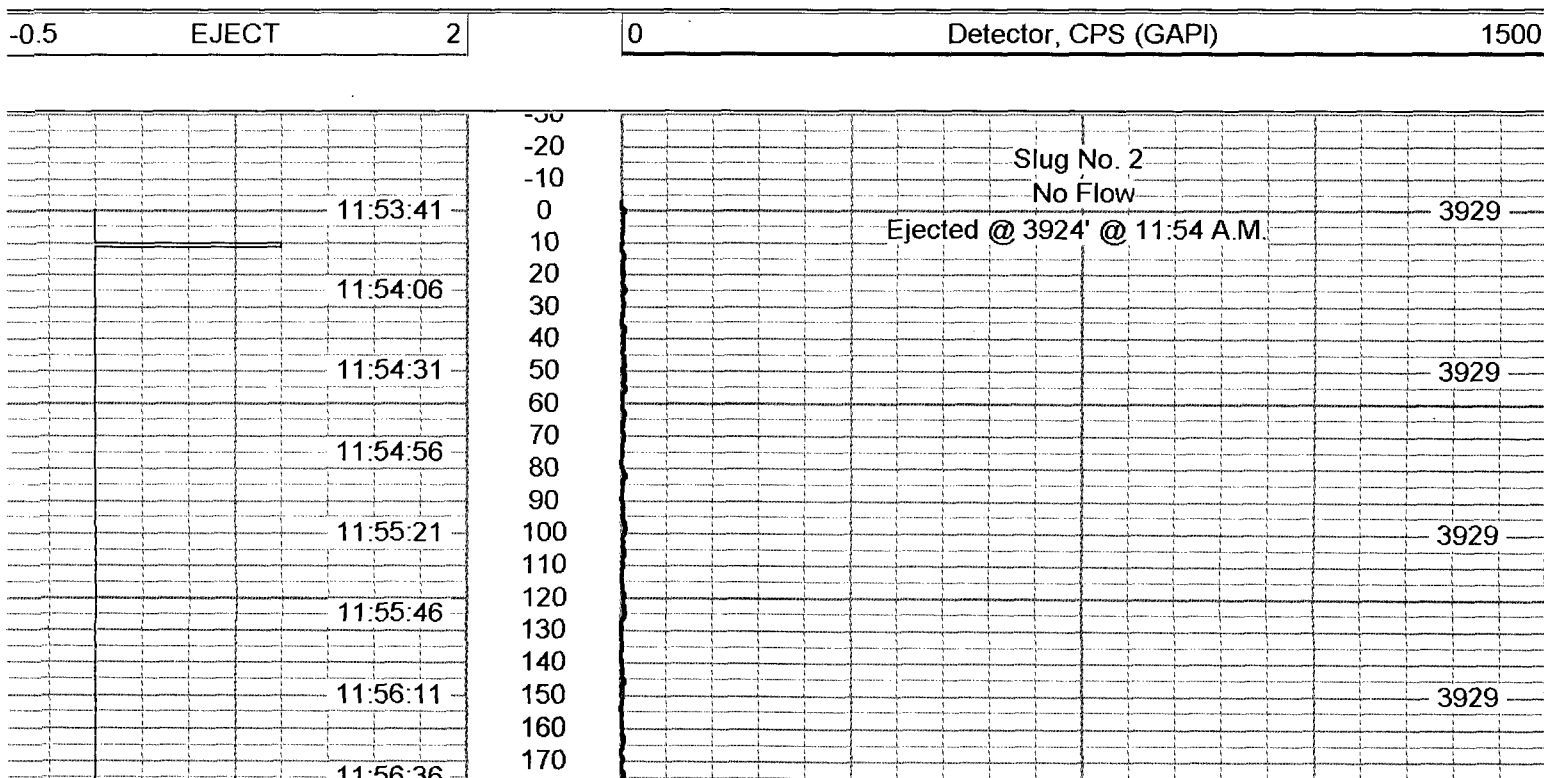
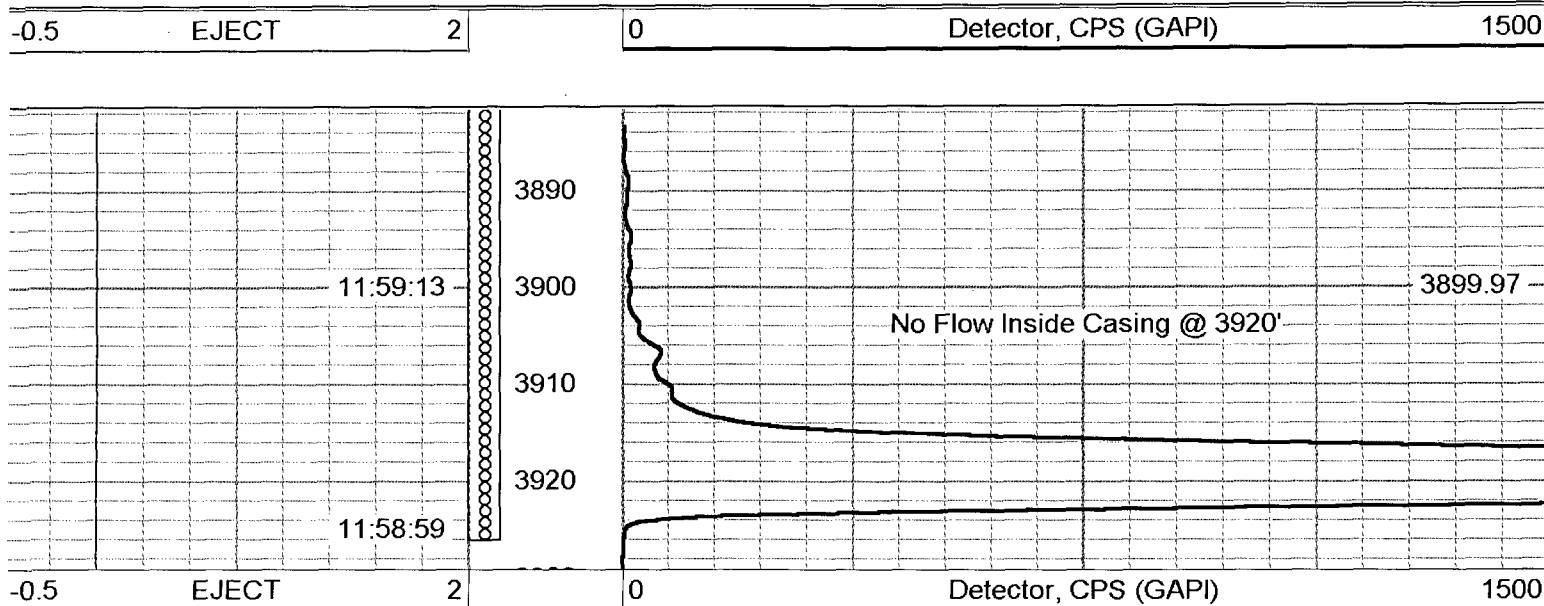
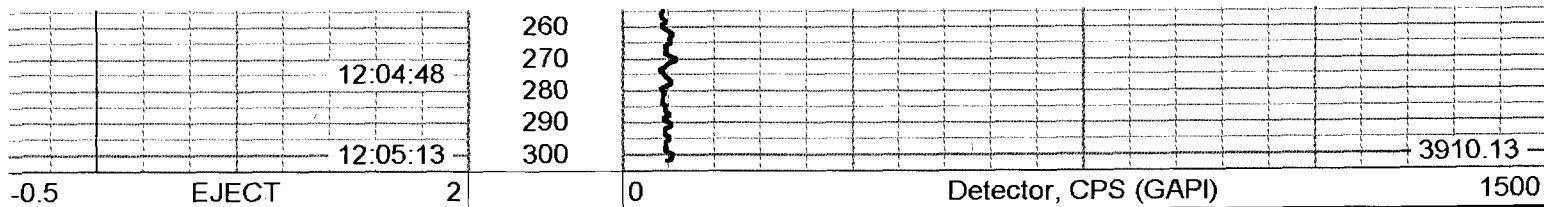
0

Detector, CPS (GAPI)

1500

-0.5	EJECT	2	0	Detector, CPS (GAPI)	1500
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		11:57:01	200						3929
			210						
		11:57:26	220						
			230						
			240						
		11:57:51	250						3929
			260						
		11:58:16	270						
			280						
			290						
		11:58:41	300						3929
-0.5	EJECT	2	0	Detector, CPS (GAPI)					1500

Tracer profile raw data (Velocity Profile):

No	Depth		Rate	Slug No	
1	3,600.0	A	409.7	17	100%
2	3,650.0	A	430.5	16	100%
3	3,700.4	A	622.3	15	100%
4	3,750.0	A	522.8	14	100%
5	3,830.2	A	549.9	13	100%
6	3,850.4	A	426.2	12	100%
7	3,860.3	A	492.7	11	100% Channel Check
8	3,870.3	*	392.8	10	
9	3,875.2	D	568.2	9	
10	3,880.3	*	587.8	8	(Assumed to be 392.8)
11	3,885.3	*	365.8	7	
12	3,890.2	*	405.8	6	(Assumed to be 365.8)
13	3,895.2	*	334.3	5	
14	3,900.0	*	340.9	4	(Assumed to be 334.3)
15	3,905.0	*	.0	3	No Flow
16	3,910.0	*	.0	2	No Flow

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

Average 100% rate = 493.4

Losses/entries versus depth corrected
for material balance inconsistency:

Depth From	Depth To	Rate Loss/Entry
3,860.3	3,870.3	20.4
3,880.3	3,885.3	5.5
3,890.2	3,895.2	6.4
3,900.0	3,905.0	67.7

Losses/entries assigned to open intervals:

Depth From	Depth To	Rate Loss/Entry
3,866.0	3,870.3	20.4
3,880.3	3,885.3	5.5
3,890.2	3,895.2	6.4

D - Do not use

Tracer profile raw data (Intensity Profile):

No	Depth	Rate
1	3,643.5	A 100.0 (Changed to 100%)
2	3,695.9	A 100.0 (Changed to 100%)
3	3,761.2	A 100.0 (Changed to 100%)
4	3,823.8	A 100.0
5	3,887.2	* 80.8
6	3,900.9	* 6.1

* - 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
3,823.8	3,887.2	19.2
3,887.2	3,900.9	74.7

Losses/entries assigned to open intervals:

Depth From	Depth To	Rate Loss/Entry
3,866.0	3,887.2	19.2
3,887.2	3,900.9	74.7

Remaining: 6.1%

D - Do not use