

WV LIMA

Peruian

Well file

L016-11

FLOWPETROL S.A.

24HRS BUILD UP

COMPANY: PETRO-TECH PERUANA S.A.

WELL: L016-11

FIELD: LOBITOS OFFSHORE

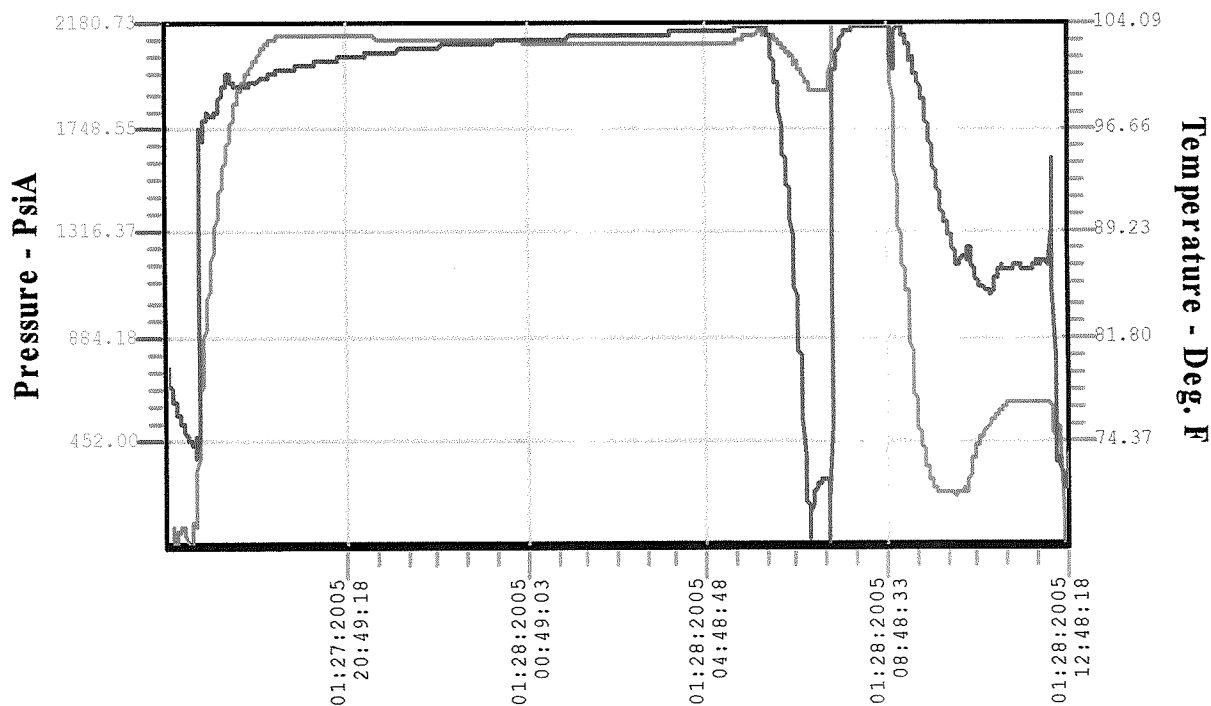
DATE: JANUARY 26-28TH, 2005

Well Test Data

Test name: L016-11

Company: FLOWPETROL S.A.
Client: PETRO-TECH S.A
Gauge number: 91180
Well name: L016-11
Well number: 11
Test number: 65
Field name: LOBITOS OFFSHORE
County: TALARA
State: PIURA
Date of test: JANUARY 27-28th, 2005
Type of test: BUILD UP
Well status: IN EVALUATION
BHP on bottom: 2130.42 PSIG
BHP off bottom: 2140.99 PSIG
Bottom gauge number: 91180
Starting tubing pressure: 600 PSIG
Starting casing pressure: 25 PSIG
Ending tubing pressure: 380 PSIG
Ending casing pressure: 66 PSIG
Depth of tool: 4900'
Surface elevation:
Tool zero point:
Tubing size:
Bottom hole temperature: 103.83 deg °F
:
:
:
Test operator: MILAGROS SILDARRIAGA
Comments:
:
:
:

Temperature / Pressure Data



BUILD UP

Field : Lobitos Offshore
Well : LO16-11

Sand(s) : *Mogollón*
Interval(s) : *Pariñas*
(5042'-4976')

Well Status : In Evaluation
Installation : tub/PKR

FIELD REPORT :

*2/6/5. flow after cut
5000'*

January 26th, 2005

23:00 Arrive to platform LO16

Personal in stand by

January 27th, 2005

16:49 Activate Memory Gauges s/n 91180

16:50 Activate Memory Gauges s/n 91176

P(tubing)=600 psig, P(casing)=25 psig

17:30 RIH Gauges

17:36 Gauges at 4900' X 12hrs

P(tubing)=600 psig, P(casing)=25 psig

18:30 P(tubing)=1650 psig, P(casing)=25 psig

19:30 P(tubing)=1800 psig, P(casing)=25 psig

20:30 P(tubing)=1800 psig, P(casing)=30 psig

21:30 P(tubing)=1800 psig, P(casing)=34 psig

22:30 P(tubing)=1800 psig, P(casing)=38 psig

23:30 P(tubing)=1800 psig, P(casing)=40 psig

January 28th, 2005

00:30 P(tubing)=1800 psig, P(casing)=42 psig

01:30 P(tubing)=1800 psig, P(casing)=44 psig

02:30 P(tubing)=1800 psig, P(casing)=46 psig

03:30 P(tubing)=1800 psig, P(casing)=48 psig

04:30 P(tubing)=1800 psig, P(casing)=50 psig

05:30 P(tubing)=1800 psig, P(casing)=52 psig

06:04 POOH Gauges with steps as follows:

4900'-4800' -4700'-4600' - 4400'-4200'-4000'

3800'- 3500'-3200'-2900'-2600'-2200'- 1800'

1400'-1000'- 600'-0'

07:05 Gauges in lubricator

07:10 P(tubing)=1800 psig, P(casing)=57 psig

07:27 RIH Gauges

07:37 Gauges at 4900'

07:50 P(tubing)=1800 psig, P(casing)=58 psig

08:30 P(tubing)=1800 psig, P(casing)=60 psig

08:45 Bleed off well to separator

09:30 P(tubing)= 100 psig P(casing)= 62 psig

10:30 P(tubing)= 80-120 psig P(casing)= 63 psig

10:45 P(tubing)= 350 psig with bean 3/8"

P(casing)= 63 psig

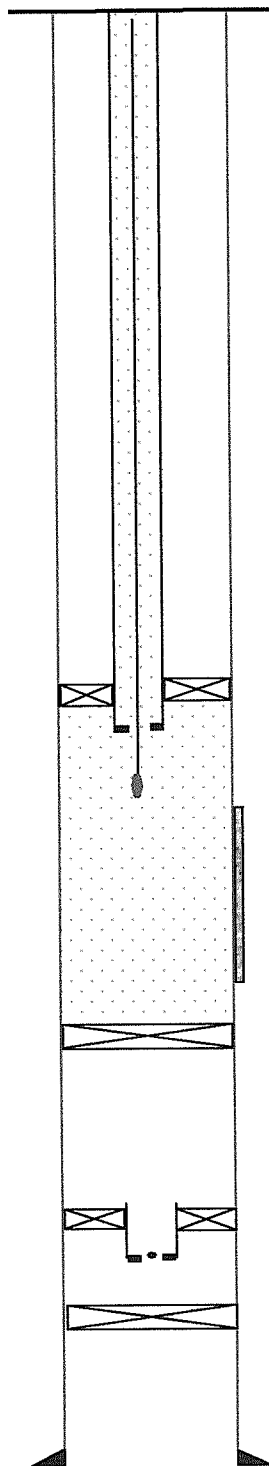
11:30 P(tubing)= 380 psig P(casing)=66 psig

12:24 POOH Gauges

12:43 Gauges on surface

12:48 Desactivated memory gauge

14:00 Rig Down.



PK at 4805'

Gauges at 4900'

4976'

Pariñas

5042'

RBP 5150'

Fish 7080'

Elite BP 7250'

WHP: 1800 ps

Gauge
Level

GAUGE

MPP

0.0512 psi/ft

→ 4900' MD (4706' VD) ⇒ 2140 psi

→ 5009' MD (4807' VD) ⇒ 2135 psi

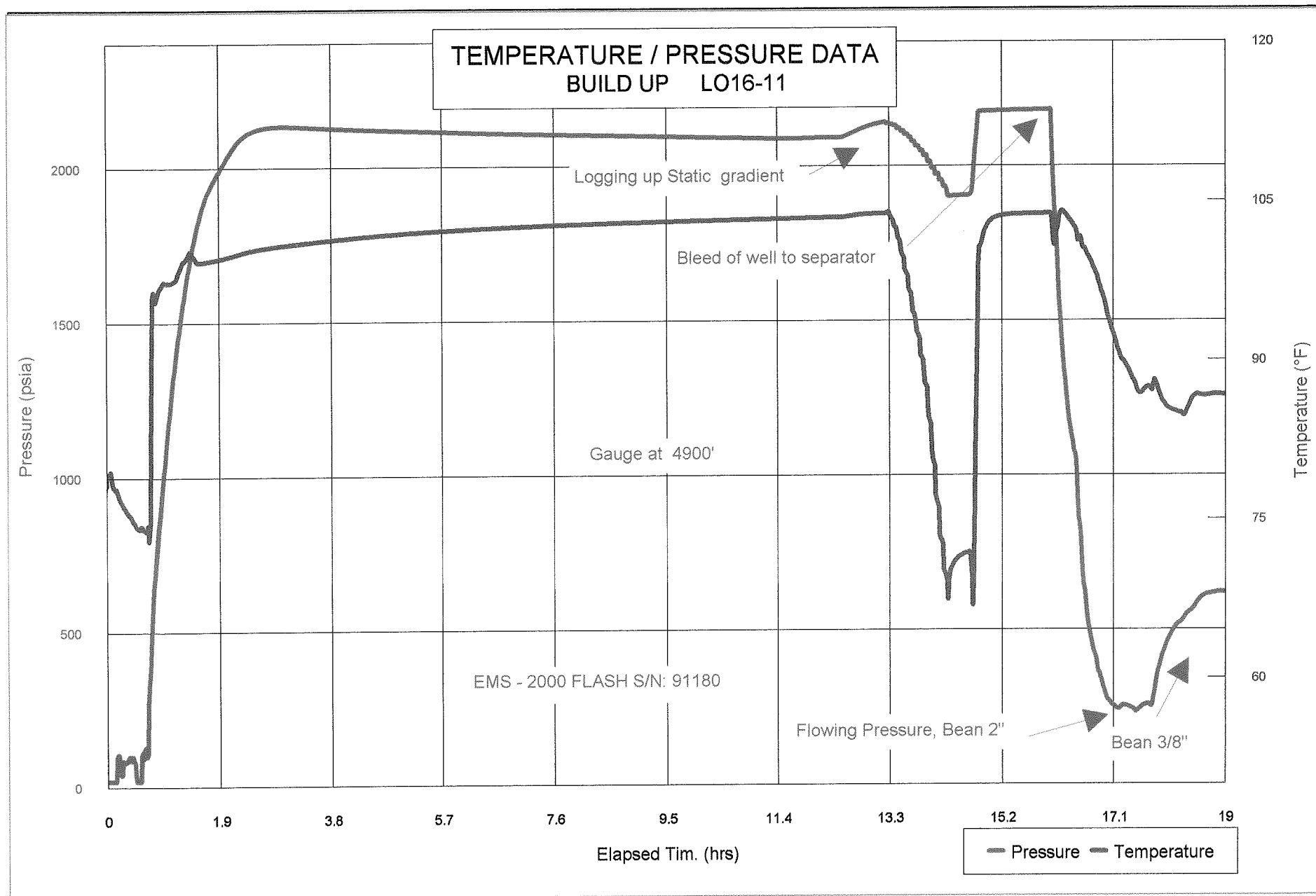
J. Nencas = 50 psi
last MPP

Field Operator: Jorge Sanjinez

Field Supervisor : Pilar Saldarriaga

MOG:

$P_{est} = 2135 \text{ psi} (0.44 \text{ psi/ft}) FBHP = 612 \text{ psi}$



Fluid Level at Static Condition (while POOH gauges)

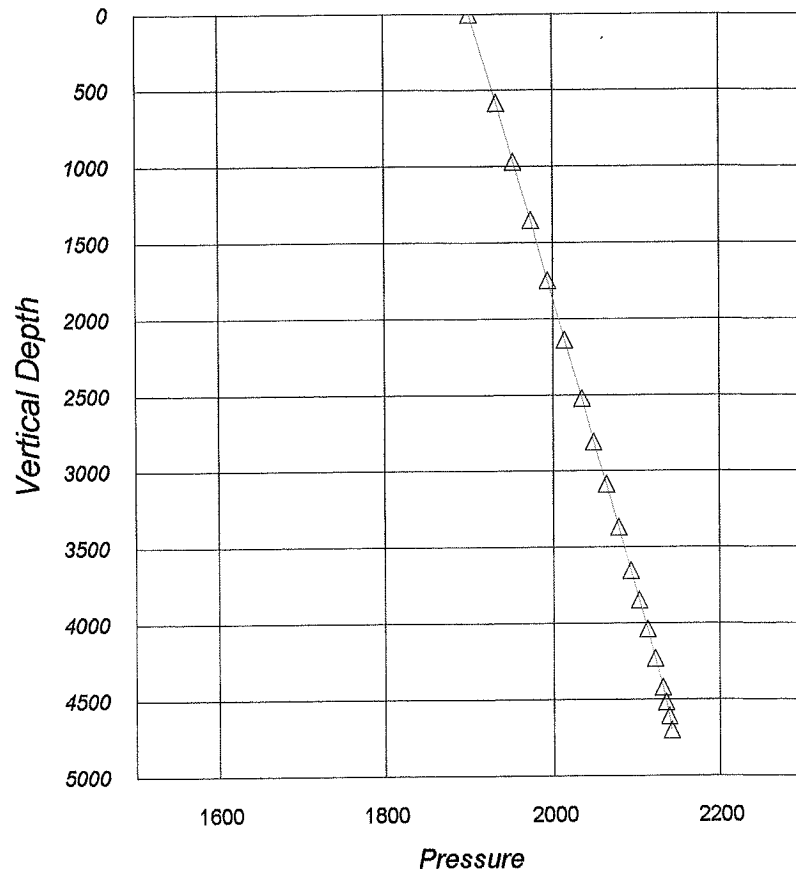
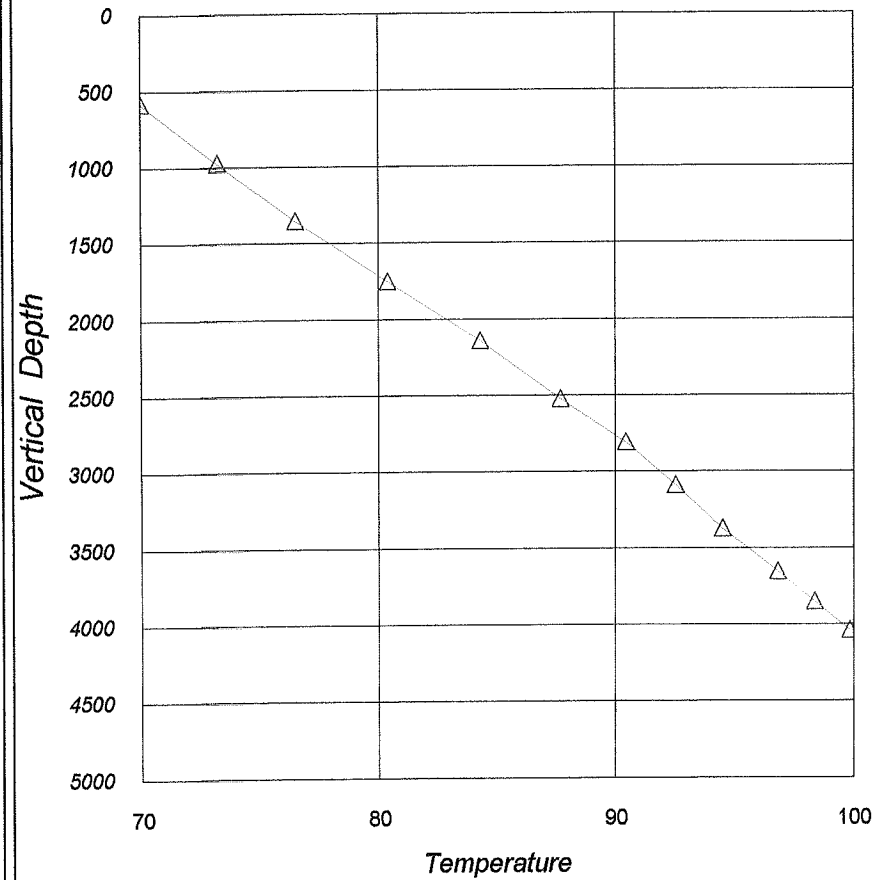
Measured depth (ft)	Vertical depth (ft)	Pressure (psia)	Gradient (psi/ft)
0	0.00	1901.56	
600	582.18	1933.89	0.0555
1000	970.37	1953.82	0.0513
1400	1352.54	1974.19	0.0533
1800	1748.96	1994.11	0.0502
2200	2139.26	2014.25	0.0516
2600	2521.26	2034.37	0.0527
2900	2807.77	2048.31	0.0487
3200	3088.14	2063.38	0.0538
3500	3369.68	2078.01	0.0520
4800	3654.50	2092.43	0.0506
4000	3848.52	2102.24	0.0506
4200	4039.73	2112.04	0.0513
4400	4230.31	2121.28	0.0485
4600	4420.90	2130.49	0.0483
4700	4516.19	2133.95	0.0363
4800	4610.94	2137.84	0.0411
4900	4704.67	2140.99	0.0336

Levels & Gradients

	Static levels		Gradient (psi/ft)
	Measured (ft)	Vertical (ft)	
Gas =	0	0	0.0512
Gauges =	4900	4705	0.4551

Summary of Results Well: LO16-11

Date of Test	January 27-28th, 2005	
Formation	Pariñas	(5042' - 4976')
Depth of gauges	4,900	M.D. ft
	4,705	V.D. ft
<u>12hr at Static Condition</u>		
Static Pressure at 4900' MD	2140.99	psia (Memory)
Static Temperature at 4900' MD	103.83	°F
Static Gradient at 4900' MD	0.4551	psi/ft
Gas Gradient	0.0512	psi/ft
<u>03hrs Flowing Condition (Bleed of well to separator)</u>		
Flowing Pressure at 4900' MD with bean 2"	257.71	psia (Memory)
Flowing Gradient at 4900' MD	0.0548	psi/ft
Flowing Temperature at 4900' MD	87.13	°F
Flowing Pressure with bean 3/8"	612.43	psia (Memory)

Pressure Static LO16-11 Well*Temperature Static LO16-11 Well*

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)	Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
27/01/2005	10:56:18	18.11250	496.29	85.27	27/01/2005	12:37:18	19.79583	500.96	73.17
27/01/2005	10:57:18	18.12917	501.37	85.23	27/01/2005	12:38:18	19.81250	483.13	73.03
27/01/2005	10:58:18	18.14583	506.85	85.21	27/01/2005	12:39:18	19.82917	468.33	72.90
27/01/2005	10:59:18	18.16250	509.93	85.17	27/01/2005	12:40:18	19.84583	456.98	72.79
27/01/2005	11:00:18	18.17917	513.78	85.14	27/01/2005	12:41:18	19.86250	119.35	72.01
27/01/2005	11:01:18	18.19583	517.34	85.10	27/01/2005	12:42:18	19.87917	20.53	71.27
27/01/2005	11:02:18	18.21250	520.51	85.06	27/01/2005	12:43:18	19.89583	19.96	71.24
27/01/2005	11:03:18	18.22917	522.93	85.04	27/01/2005	12:44:18	19.91250	19.96	71.25
27/01/2005	11:04:18	18.24583	524.15	85.07	27/01/2005	12:45:18	19.92917	19.96	71.26
27/01/2005	11:05:18	18.26250	526.52	85.00	27/01/2005	12:46:18	19.94583	19.96	71.26
27/01/2005	11:06:18	18.27917	530.72	84.88	27/01/2005	12:47:18	19.96250	19.93	71.29
27/01/2005	11:07:18	18.29583	535.80	84.78	27/01/2005	12:48:18	19.97917	19.90	73.66
27/01/2005	11:08:18	18.31250	540.59	84.81	Desactivate				
27/01/2005	11:09:18	18.32917	545.06	84.96					
27/01/2005	11:10:18	18.34583	549.25	85.17					
27/01/2005	11:11:18	18.36250	552.60	85.42					
27/01/2005	11:12:18	18.37917	555.58	85.66					
27/01/2005	11:13:18	18.39583	558.14	85.88					
27/01/2005	11:14:18	18.41250	559.88	86.07					
27/01/2005	11:15:18	18.42917	562.12	86.24					
27/01/2005	11:16:18	18.44583	565.97	86.41					
27/01/2005	11:17:18	18.46250	569.77	86.55					
27/01/2005	11:18:18	18.47917	573.55	86.61					
27/01/2005	11:19:18	18.49583	579.08	86.69					
27/01/2005	11:20:18	18.51250	584.45	86.75					
27/01/2005	11:21:18	18.52917	588.96	86.78					
27/01/2005	11:22:18	18.54583	593.30	86.76					
27/01/2005	11:23:18	18.56250	597.24	86.71					
27/01/2005	11:24:18	18.57917	600.46	86.69					
27/01/2005	11:25:18	18.59583	603.73	86.67					
27/01/2005	11:26:18	18.61250	606.11	86.66					
27/01/2005	11:27:18	18.62917	608.65	86.65					
27/01/2005	11:28:18	18.64583	610.48	86.65					
27/01/2005	11:29:18	18.66250	612.36	86.66					
27/01/2005	11:30:18	18.67917	613.33	86.65					
27/01/2005	11:31:18	18.69583	614.34	86.66					
27/01/2005	11:32:18	18.71250	614.73	86.66					
27/01/2005	11:33:18	18.72917	615.69	86.68					
27/01/2005	11:34:18	18.74583	615.87	86.70					
27/01/2005	11:35:18	18.76250	616.55	86.71					
27/01/2005	11:36:18	18.77917	617.73	86.75					
27/01/2005	11:37:18	18.79583	618.54	86.76					
27/01/2005	11:38:18	18.81250	618.87	86.77					
27/01/2005	11:39:18	18.82917	620.02	86.79					
27/01/2005	11:40:18	18.84583	620.29	86.78					
27/01/2005	11:41:18	18.86250	620.71	86.76					
27/01/2005	11:42:18	18.87917	620.85	86.77					
27/01/2005	11:43:18	18.89583	621.32	86.77					
27/01/2005	11:44:18	18.91250	621.11	86.78					
27/01/2005	11:45:18	18.92917	621.25	86.77					
27/01/2005	11:46:18	18.94583	621.32	86.75					
27/01/2005	11:47:18	18.96250	621.09	86.73					
27/01/2005	11:48:18	18.97917	621.04	86.73					
27/01/2005	11:49:18	18.99583	620.53	86.72					
27/01/2005	11:50:18	19.01250	620.01	86.71					
27/01/2005	11:51:18	19.02917	620.06	86.71					
27/01/2005	11:52:18	19.04583	620.10	86.71					
27/01/2005	11:53:18	19.06250	619.98	86.71					
27/01/2005	11:54:18	19.07917	620.08	86.71					
27/01/2005	11:55:18	19.09583	619.95	86.71					
27/01/2005	11:56:18	19.11250	619.67	86.71					
27/01/2005	11:57:18	19.12917	619.45	86.69					
27/01/2005	11:58:18	19.14583	619.51	86.70					
27/01/2005	11:59:18	19.16250	619.29	86.71					
27/01/2005	12:00:18	19.17917	619.17	86.72					
27/01/2005	12:01:18	19.19583	619.02	86.72					
27/01/2005	12:02:18	19.21250	618.55	86.74					
27/01/2005	12:03:18	19.22917	618.30	86.78					
27/01/2005	12:04:18	19.24583	617.65	86.85					
27/01/2005	12:05:18	19.26250	617.27	86.90					
27/01/2005	12:06:18	19.27917	617.05	86.97					
27/01/2005	12:07:18	19.29583	616.91	87.02					
27/01/2005	12:08:18	19.31250	616.50	87.06					
27/01/2005	12:09:18	19.32917	616.40	87.07					
27/01/2005	12:10:18	19.34583	616.54	87.08					
27/01/2005	12:11:18	19.36250	616.14	87.06					
27/01/2005	12:12:18	19.37917	615.95	87.02					
27/01/2005	12:13:18	19.39583	615.91	87.02					
27/01/2005	12:14:18	19.41250	615.67	87.05					
27/01/2005	12:15:18	19.42917	615.03	87.07					
27/01/2005	12:16:18	19.44583	614.88	87.07					
27/01/2005	12:17:18	19.46250	614.17	87.06					
27/01/2005	12:18:18	19.47917	613.43	87.03					
27/01/2005	12:19:18	19.49583	613.01	87.03					
27/01/2005	12:20:18	19.51250	612.58	87.01					
27/01/2005	12:21:18	19.52917	612.78	87.00					
with bean 3/8"									
27/01/2005	12:22:18	19.54583	612.43	87.00					
27/01/2005	12:23:18	19.56250	612.64	86.97					
27/01/2005	12:24:18	19.57917	612.72	86.97					
27/01/2005	12:25:18	19.59583	594.08	89.57					
27/01/2005	12:26:18	19.61250	575.23	93.62					
27/01/2005	12:27:18	19.62917	555.36	94.39					
27/01/2005	12:28:18	19.64583	535.89	92.67					
27/01/2005	12:29:18	19.66250	515.46	89.42					
27/01/2005	12:30:18	19.67917	494.60	85.17					
27/01/2005	12:31:18	19.69583	485.01	80.25					
27/01/2005	12:32:18	19.71250	502.47	75.46					
27/01/2005	12:33:18	19.72917	536.40	72.87					
27/01/2005	12:34:18	19.74583	540.78	73.35					
27/01/2005	12:35:18	19.76250	527.08	73.37					
27/01/2005	12:36:18	19.77917	515.09	73.28					