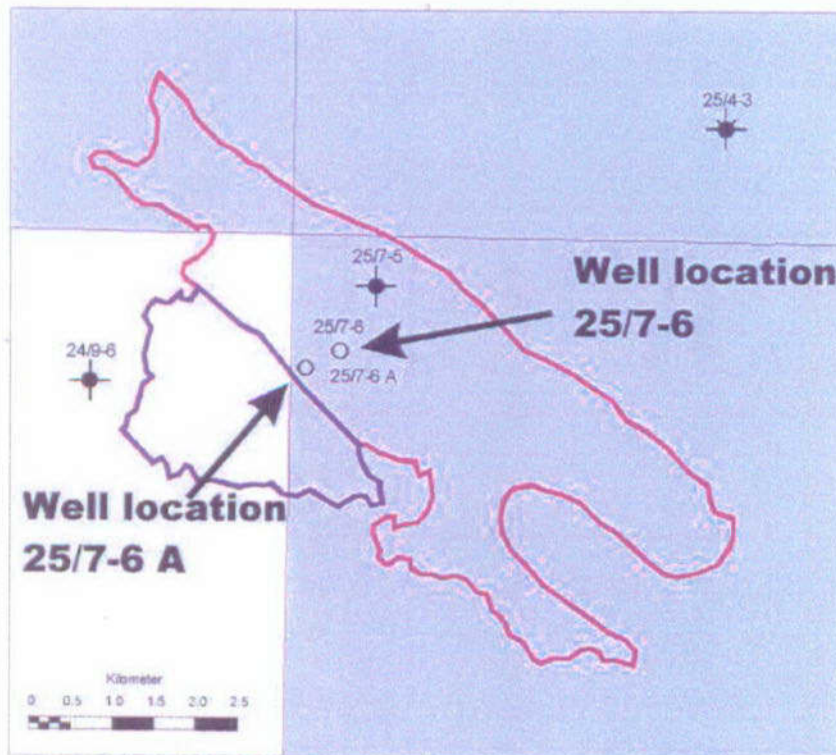




25/7-6 PL203



Operator:



Partners:

SDØE



NORSK HYDRO
FINAL WELL REPORT

WELL 25/7-6

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PREFACE

The licensees' percentage share of the block is as follows:

Norsk Hydro (operator)	35 %
ØE	30 %
Conoco	20 %
BP Amoco	15 %

The well was drilled by Norsk Hydro ASA., on behalf of the group, during September-October 2000 (see Location Map, page 3).

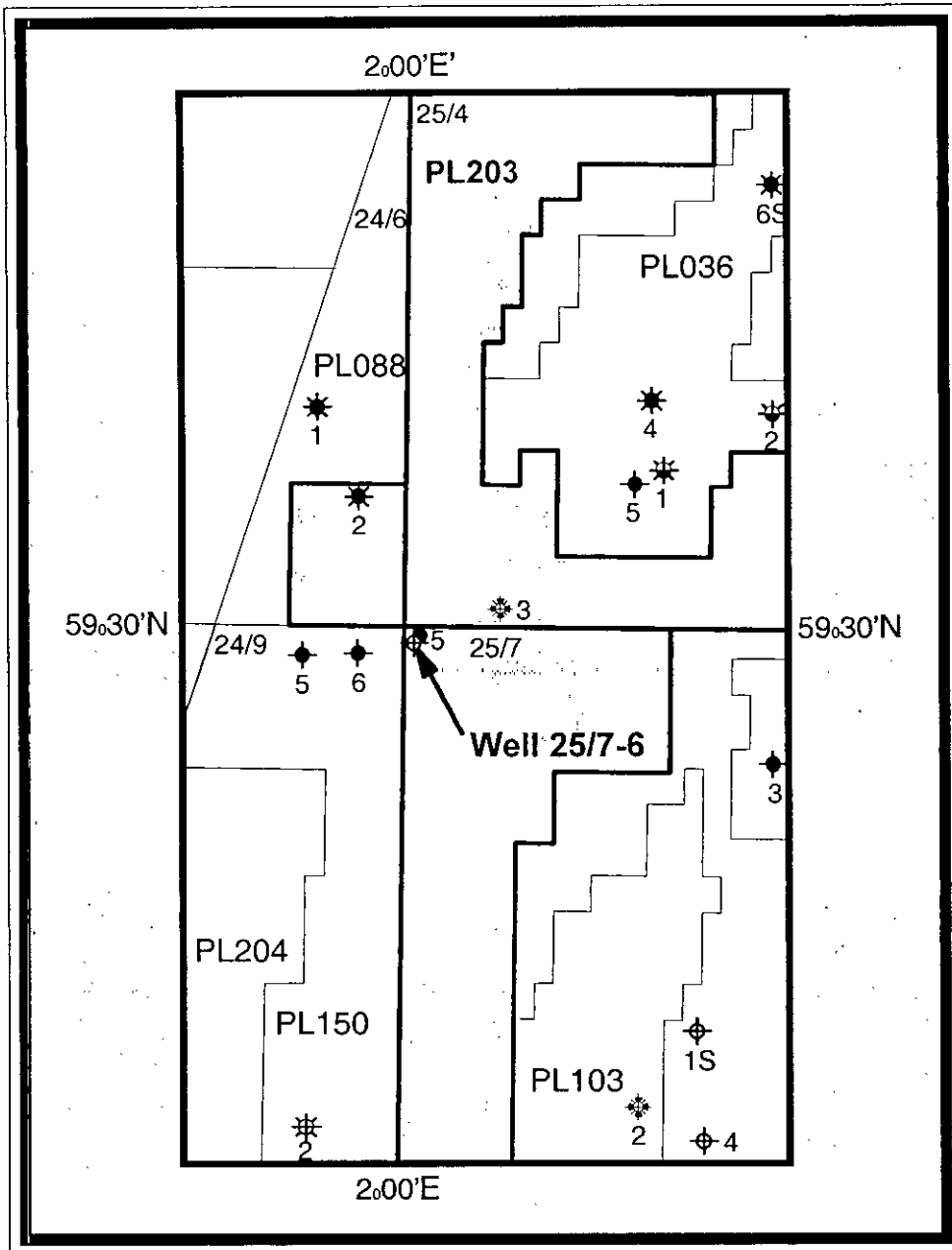
All depths in this report are mMD RKB unless otherwise stated



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Location map well 25/7-6



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SUMMARY OF WELL DATA

LOCATION:	59° 29' 15.04"N 02° 00' 37.34" E UTM 6 594 908.8mN 443 947.9mE ED 50, UTM Zone 31, CM 03°E
OPERATOR: RIG:	Norsk Hydro Scarabeo 6
CONTRACTOR:	Saipem
KB ELEVATION (to MSL):	26m
WATER DEPTH (MSL):	124m
START OF OPERATIONS:	12.09.2000
WELL SPUDDED:	13.09.2000
WELL REENTERED:	
REACHED TD ON:	09.10.2000
COMPLETED:	14.10.2000
STATUS:	Permanently plugged and abandoned
FORMATION AT TD:	Heimdal Sandstone of Lista Fm.
TD DRILLER (mRKB):	2250,0m MD
TD LOGGER (mRKB):	Not logged
DRILLING DEPTHS:	36" to 225 m 17 1/2" to 1345 m Opened to 24" to 1345 m 12 1/4" to 1891m 8 1/2" to 2250m
CASING DEPTHS:	30" to 223m 13 3/8" to 1331m 9 5/8" to 1884m



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SECTION A

GEOLOGY



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1 Objectives

The well 25/7-6 is a delineation of the Kobra oil discovery made by well 25/7-5 in 1997. The main objectives of the well was to prove sufficient volumes to be able to initiate an oil development, and to identify an oil-water contact in an at least 20 m thick Hermod T80 sand member of the Sele Formation.



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2 Results

The well was spudded 13th Sept. 2000 and reached a total depth of 2250m RKB in Lista Fm. on 09th October 2000. The well was permanently plugged and abandoned as a dry well 14th October 2000.

The main results were as follows:

13 m of water bearing Hermod T80 sandstone was encountered at 2069m RKB. The sandstone had no residual hydrocarbons.

The well was cored (1 core) from 2061m in the top of the Sele Formation and into the Hermod sandstone member, coring stopped at 2079.65m.

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3 Biostratigraphy

The biostratigraphical evaluation of well 25/7-6 was carried out by Robertson Research. The analysed interval is 1350m - 2250m. Micropaleontological and palynological analyses have formed the basis for the biostratigraphical interpretation of the well. The analyses were carried out on cuttings and core samples. A total of 70 ditch cuttings and 8 core samples were analysed for palynology and mikropaleontology. The results are documented in the report "Norsk Hydro 25/7-6 well, Biostratigraphy, interval 1350m - 2250m TD".

Tables 3.1a and 3.1b show a summarised lithostratigraphic and geochronological subdivision of the well, respectively. The interpretation is in accordance with Norsk Hydro's standard zonation for the area.

Some major points are summarised below,

- The youngest sediments analysed at 1350 m are of Middle Eocene age
- The oldest sediments at 2250m are of Late Palaeocene age
- The Rogaland Group was penetrated at 1930.5m
- There are no unconformities between the Late Paleocene and the Middle Eocene
- The Hermod and the Heimdal sandstones were encountered in the well

The Hermod member is assigned to palynosubzone PT3A-1, benthic microfaunal subzone MPB4 and planktonic microfaunal subzone MPP6A, T80 (Early Eocene).

The Heimdal member is assigned to palynosubzone PT2B-2, benthic microfaunal subzone MPB2A, and planktonic microfaunal subzone MPP5, T60-T50 (Late Paleocene).



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Table 3.1a LITHOSTRATIGRAPHICAL BREAKDOWN, WELL 25/7-6

GROUP	FORMATION	MEMBER	DEPTH mMDRKB
Hordaland			1350 (top not seen)
Rogaland	Balder Formation	Balder shaly member	1930.5
		Balder tuffaceous member	1994
	Sele Formation		2042
		Hermod member	2069 - 2082
	Lista Formation		2103
		Heimdal member	2149.5
			2250 TD

Table 3.1b:

Geochronological breakdown well 25/7-6				
SAMPLE DEPTH m	PERIODE	AGE	Palyno Zone	Mikro Zone
1350	TERTIARY	Middle Eocene (top not seen)	PT4A	
1450		Early Eocene	PT3C-3	MEP3
2095		Late Paleocene	PT2C	
2250 TD				

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4 Lithostratigraphy

All depths are in mMD RKB (RKB elevation is 26m).

This summary is compiled predominantly from ditch cuttings descriptions. 1 conventional core was cut in the interval from 2161m to 2179m in the well, see Table 6.1

Wireline and MWD logs were used to aid lithological interpretation and the placement of formation boundaries.

The well was drilled with returns to seabed from the seafloor at 150 m to 1345 m before setting the 13 3/8" casing at 1331 m. Lithology interpretation through this interval is based on MWD logs and drilling parameters. The first drill cuttings samples were taken at 1350 m.

4.1 Nordland Group (150 - 717m)

150-333m

This interval comprises Clay interbedded with Sand.

Age: Quaternary

333-447m

This interval comprise Sand with minor clay and silty Clay.

Age: Pliocene

Utsira Formation (447-717m)

This interval comprises of massive Sand units separated with thinner Clay intervalls

Age: Miocene

4.2 Hordaland Group (717-1930.5m)

717-1011.5m

This interval comprises Claystone with minor Sandstone and Limestone. Predominantly Sandstone in the lowermost part.



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Age: Oligocene

1011.5-1203m

This interval consists of Claystone.

Age: Oligocene

Op Grid member 1203 -1303m

This interval consists of Claystones with Sandstone layers.

Age: Eocene

1303 - 1743 m

This interval consist of Claystones with traces of Limestones and Sandstones and rare traces of Dolomites.

CLAYSTONES: olive grey to medium grey, rare dark green grey, firm, blocky to subfissile, generally non calcareous, micromicaceous, Trace carbonaceous, generally very silty grading siltstone, varying Trace Pyrite, locally Trace Glauconite.

LIMESTONES: light grey to light olive grey, pale yellow brown, friable to moderately hard, blocky, microcrystalline to cryptocrystalline, locally amorphous, locally very argillaceous grading Marl.

SANDSTONES: light grey, clear to milky Quartz, generally very fine to fine, angular to subrounded, moderately sorted, friable to moderately hard, occasional calcareous cemented, rare Pyrite cemented, in part very argillaceous, gen Trace Glauconite. No visible porosity.

DOLOMITES: pale yellow brown, hard, brittle, microcrystalline, partly sucrosic.

Age: Eocene

1743 - 1930.5m (Frigg member equivalent)

This interval consist of Claystones with Limestone and Dolomite stringers, rare Sandstone

CLAYSTONES: generally dark green grey, firm, subfissile to fissile, non calcareous, micromicaceous, generally silty locally grading Siltstone, occasional very fine sandy, Trace Glauconite.

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CLAYSTONES: olive grey - medium dark grey, firm, subfissile, non calcareous, micromicaceous locally very silty grading Siltstone, generally very fine sandy in part grading Sandstone, Trace micropyrritic.

LIMESTONES: light olive grey to light grey, trace pale yellow brown to brown grey, friable to hard, microcrystalline to cryptocrystalline, locally very argillaceous grading Marl.

SANDSTONES: light grey to medium grey, clear to milky Quartz, very fine to fine, subangular to rounded, moderately sorted, friable to loose, occasional calcareous cemented, locally very argillaceous, locally micromicaceous, carbonaceous. No visible porosity.

DOLOMITES: moderately brown, hard, blocky, cryptocrystalline.

Age: Eocene

4.3 Rogaland Group (1930.5-TD @ 2250m)

Balder Formation (1930.5-2042m)

1930.5 - 1994m (Balder Claystone Member)

This interval consist of Claystones with Limestone stringers

CLAYSTONE: brown grey - brown black, occasionally dusky yellowish brown - dusky brown, moderately hard - hard, subblocky - blocky, silty, non calcareous, micromicaceous, pyrite, Trace carbonaceous, rare - Trace Pyrite nodules

LIMESTONE: pale yellow brown - grey orange, moderately hard - very hard, blocky, microcrystalline, becoming micro - cryptocrystalline, locally slightly argillaceous

LIMESTONE: white - very light grey, light grey, moderately hard - hard, micro - cryptocrystalline, blocky, locally slightly argillaceous

Age: Eocene

1994 - 2042 (Balder Tuffaceous Member)

This interval consist of tuffaceous Claystone and Limestone stringers

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CLAYSTONE: predominantly brown grey - olive grey, dusky brown - dusky yellowish brown, moderately hard, subblocky - blocky, silty, non calcareous, micromicaceous, carbonaceous, rare - Trace Pyrite

CLAYSTONE: light grey - medium grey, medium bluish grey, firm - moderately hard, subblocky - blocky, silty, ashy, glass fragments.

LIMESTONE: white - very light grey, light grey, hard - very hard, blocky, micro - cryptocrystallin, locally slightly argillaceous

LIMESTONE: pale yellow brown - grey orange, moderately hard - hard, blocky, micro - cryptocrystallin, locally slightly argillaceous

Age: Eocene

Sele Formation (2042- 2103m)

2042 - 2069m

This interval consist of Claystones with stringers of limestone

CLAYSTONE: olive grey - olive black, brown grey - brown black, moderately hard - hard, subfissile - fissile, locally blocky, non calcareous, micromicaceous, carbonaceous, locally Trace Pyrite nodules

LIMESTONE: white - very light grey, pale yellow brown, moderately hard - hard, locally firm, blocky, micro - cryptocrystallin

Age: Early Eocene

Hermod Sandstone Member (2069 - 2082m)

This interval consist of Sandstone

SANDSTONE: medium light grey, clear - milky Quartz, fine, locally trace medium, locally trace pebbly (intraclasts), subangular - subrounded, moderately sorted, locally well sorted, friable - loose, weak silica cement, locally moderat silica cement, Trace micromicaceous, locally Trace carbonaceous, locally rare carbonaceous, fair visible porosity

Age: Early Eocene

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2082 - 2103m

This intervall consist of Claystone with stringers of Sandstone

CLAYSTONE: brown grey - olive grey,medium dark grey - dark grey,moderately hard, subblocky - blocky, slightly silty,non calcareous,micromicaceous,Trace Pyrite, trace carbonaceous

SANDSTONE: light grey,clear - translucent,occasionally milky quartz,very fine - fine, generally as loose grains,subangular - subrounded,moderately sorted, occasionally weak silica cement

Age: Late Paleocene-Early Eocene

Lista Formation 2103 - TD @ 2250m.**2103 - 2149.5m**

This interval consist of Claystones with rare Limestone stringers.

CLAYSTONE: dark green grey,medium dark grey - dark grey,locally dusky yellow green,rare moderate brown,moderate hard,subblocky - blocky, slightly silty,locally silty grading to Siltstone,becomming non - slightly silty,non - slightly calcareous, trace micromicaceous,rare Pyrite,rare carbonaceous

CLAYSTONE: brown grey - olive grey, dark grey,moderatley hard,subblocky - blocky, silty - very silty,In Part grading Siltstone,non calcareous,micromicaceous,Pyrite, carbonaceous,locally In Part very fine Sandy

LIMESTONE: white - very light grey,pale yellow orange,moderately hard,subblocky - blocky,locally slightly argillaceous,In Part very fine Sandy,microcrystalline

Age: Late Paleocene

Heimdal Sandstone Member (2149.5 - 2250m)

This interval consist of Sandstone with trace of Claystone and Limestone

SANDSTONE: clear - translucent,occasional milky,occasional dark grey Quartz,fine - coarse, predominantly fine - medium,as loose grains,moderate - poorly sorted,Trace Mica

CLAYSTONE: dark green grey,olive grey,occasional dusky green grey,moderately hard, subblocky,slightly silty,non - slightly calcareous,rare - Trace micromicaceous, rare - Trace carbonaceous



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LIMESTONE: white - very light grey, moderately hard, subblocky, microcrystallin, argillaceous, locally
In Part very fine Sandy

Age: Late Paleocene



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5 Shows

The evaluation of hydrocarbon shows at the wellsite was carried out in a conventional manner. A standard (Sperry Sun) hydrocarbon total gas detector system (THA) together with a gas chromatograph for automatic and continuous gas analysis, recorded as ppm by volume of C1 through nC4, were operational below 1345 m down to the TD of the well.

Hydrocarbon shows on ditch cuttings and core were evaluated according to procedures described in Norsk Hydro's "Wellsite Geologist's Manual".

5.1 Gas Record

381 - 1345m: This interval was drilled with returns to sea bed.

1345-2250m: The gas summary for the well is presented in the Gas Ratio Log.

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5.2 Oil stain and Fluorescence

A summary of the observed shows is given in Table 5.2 below:

INTERVAL (mRKB)	SOURCE	LITHOLOGY	SHOWS DESCRIPTION
2062 - 2063	Core	Sandstone	weak hydrocarbon odour, no visible stain, no direct Fluorescence, slow - moderate weak yellow white Fluorescence cut, no visible cut, dull orange Fluorescence Residual, no visible Residual
2069 - 2079.5	Core	Sandstone	weak sticky hydrocarbon odour, no oil stain, no direct Fluorescence, slow - moderate streaming yellow white - blue white Fluorescence cut, no visible cut, dull orange Fluorescence Residual, no visible Residual

Table 5.1 Shows summary 25/7-6

6 Coring**6.1 Conventional Cores**

1 core (60') was cut in the Sele Formation. A summary of the core is presented in Table 6.1 below and the core description can be found in Appendix I.

No	C: Cut(m) R: Recovery(m)	Rec. %	Lithology	Formations
1	C: 2161 - 2179.65 R: 2161 - 2179.65	100	Claystone and Sandstone	Sele

Table 6.1: Conventional cores 25/7-6

6.2 Sidewall Cores

No sidewall cores were taken.

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7 Logging**7.1 MWD Logs**

A MWD service (Schlumberger Anadrill) yielding gamma ray, resistivity, survey measurements was run in the following sections:

Run no.	Log Depth Interval m RT	Hole section	Tool	Comments
1	150 - 209/214	36"	MWD-CDR	
2	226 - 518	17 1/2"	MWD-CDR	POOH due to tool failure caused by jarring after stuck pipe.
3	518 - 1335	17 1/2"	MWD-CDR	
4	1335 - 1335	17 1/2"	MWD-CDR	Wiper trip
5	-	24"	MWD	Opened the 17 1/2" hole to 24".
6	1335 - 1881	12 1/4"	MWD-CDR	
7	1891-2061	8 1/2"	MWD-CDR	
8	2061-2246	8 1/2"	MWD-CDR	Reamed over cored interval 2061-2079.5m

Table 7.1: MWD runs

More detailed MWD results can be found in the report "End of Well Report/Logs (Schlumberger) Well 25/7-6."

7.2 Wireline Logs

The following table is a summary of wireline logs run in the well and shows log type, date run, logged intervals and run number for each log.

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Logs	Date	Logged interval (mRKB)	Run / Comments
PEX/DSI	09.10.00	2237-1881/1400	1A
MDT/GR	09.10.00	2237-2070	1A, 11 pretests
VSI/GR	10.10.00	2230-1400 check shoots with top shuttle at 1400m during RIH	1A

Table 7.2: Wireline logs 25/7-6

7.3 MDT sampling

No fluid sampling were performed

7.4 Velocity survey

A zero offset VSI was aquired and processed by Schlumberger. There was no problems during the acquisition,

For more information see the VSI report.

Type of log	Run No.	Interval m MD	Operational Comments
VSI	1A	2230-1400	

Table 7.3: VSI run 25/7-6

7.5 Bottom hole temperatures from wireline logs

The table below gives a summary of the bottom hole temperatures measured from wireline logs.

Log suite	Run	Depth (mRKB)	Temp ° C	Time since circ. (hrs)
PEX/DSI	1A	2237	58	9.4
MDT	1A	2 237	63	16.7
VSI/GR	1A	2 230	65	24.3

Table 7.4: Bottom hole temperatures 25/7-6



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8 Petrophysical results

8.1 Log data aquisition

Schlumberger performed the logging in well 25/7-6. The well was drilled with water based mud with a salinity of 88000 ppm and a density of 1.2 g/cc. The planned and actual logging programme for a dry well scenario is shown in Table 8.1. The wireline logs were run in the entire 8 1/2'' section down to TD at 2243.68 m. The DSI was recorded up to 1400 m in casing. Casing depth is at 1881.5 m (logger). The bottom hole temperature was 72 DEG.

Holesize	Casing	Planned logging program	Actual logging program
36''	30''	MWD: GR/RES/DIR (CDR)	MWD: GR/RES/DIR (CDR)
17 1/2''	13 3/8''	MWD: GR/RES/DIR (CDR)	MWD: GR/RES/DIR (CDR)
12 1/4''	9 5/8''	MWD: GR/RES/DIR (CDR)	MWD: GR/RES/DIR (CDR)
8 1/2''	7''liner	MWD: GR/RES/DIR PEX:ALS/TLD/ DSI/ HGNS/ SP MDT/GR VSP 0-offset CST	MWD: GR/CDR (RES)/DIR PEX/DSI MDT VSP

Table 8.1 25/7-6; planned and actual logging runs (MWD & wireline)

There were no major operational problems associated during data acquisition. Wellbore conditions were good.

8.2 Log data Quality

Overall the general log quality is good.

In addition to the open hole section, the DSI was logged behind casing, from 1881.5 m to 1400 m. The quality of raw and stacked waveforms is reasonable good, bud the labeling in the cased hole section is partly incorrect. Over long intervals casing arrival is picked instead of the compressional and compressional instead of shear slowness. After editing, this results in a missing shear slowness and an



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incomplete compressional curve within the cased hole section. In the open hole section the quality of labeling is good for both, compressional and shear arrival.

8.3 Core data

One core was cut in 25/7-6 from 2061 - 2079.65 m RKB. Conventional core measurements were carried out by ResLab on a total of 67 cleaned and dried plugs. These measurements yielded spectral gamma ray, Helium porosity, grain density, horizontal and vertical gas permeabilities. A detailed summary of this is given in the report "*Conventional Core Analysis Well 25/7-6*" by ResLab. The core has been block shifted -0.6353 m up to match log data. A cross-plot of core porosity vs. core permeability is shown in Figure 8.1a. Figure 8.1b shows the relation between horizontal and vertical permeability.

8.4 MDT pressure

A Modular Formation Dynamics Tester (MDT) with a combined Quartz Gauge sensor (CQG) was used to obtain formation pressure measurements. The MDT wellsite worksheet is presented in Table 8.2. From 11 attempts to take a pretest, 10 were successful and 1 of fair quality. A interpretation of the results is presented in Figure 8.2. The observed water gradient of 0.099 bar/m translates in a fluid density of 1.01 g/cc. There is no oil-water contact encountered.

PRESSURE UNITS: BAR			Well: 25/7-6	RIG: Scarabeo 6				DATE: 09.10.2000	
				RKB-MSL: 26.0 m	MSL-SBed: 124 m			Witnessed by: C.Carstens/Å.Halvorsen	
RUN #:	DEPTH MD	DEPTH TVD	IN. HYDROST PRESSURE	FORMATION PRESSURE	FIN. HYDROST PRESSURE	TEMP degC	MOB. INDEX	REMARKS	
TEST #	RKB	RKB	Quarz	sg EMD	Quarz	Quarz			
1	2237	2236.8	261.58	0.977	214.432	261.54	63.3	254.5	v good
2	2218.9	2218.7	259.49	0.976	212.534	259.47	64.2	407.2	v good
3	2211.9	2211.7	258.67	0.976	211.841	258.65	64.6	1297.6	v good
4	2194.1	2193.9	256.62	0.976	210.005	256.59	64.7	685.2	v good
5	2165.1	2164.9	253.26	0.975	207.071	253.23	64.5	1070.6	v good
6	2150.5	2150.3	251.56	0.976	205.974	251.53	63.8	11.4	Fair / plugging?
7	2177.8	2077.6	243.14	1.007	205.162	243.13	61.9	892	v good
8	2076.9	2076.7	243.04	1.007	205.097	243.05	61.1	1041.1	v good
9	2074.1	2073.9	242.73	1.007	204.815	242.72	60.3	1247.5	v good
10	2071.2	2071.0	242.41	1.007	204.533	242.40	60.1	1556.9	v good
11	2070.1	2069.9	242.28	1.007	204.442	242.27	59.4	66.8	good

Table 8.2 MDT wellsite worksheet



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8.5 Petrophysical Evaluation Procedure

Petrophysical analysis was carried out using logs, pressure measurements and core plug data. The computed petrophysical interpretation is shown in Figure 8.3.

The cross-plot of density/neutron has been used to calculate the shale volume. The density log has been used for porosity calculations. Deep resistivity readings have been used as input into the Poupon-Leveaux (Indonesia) equation for water saturation calculation. The electrical parameters (lithology constant "a", cementation factor "m", saturation exponent "n") were taken from well 25/7-5. All input parameters are listed in Table 8.3. Log permeability was estimated using the following equation:

$$KLOG = (155*PHIE+37315*PHIE**2+800*(10*PHIE)**10)/10000$$

Net reservoir cutoff criteria were defined using shale volume and effective porosity as discriminators. A porosity cutoff of 12 % has been selected on the basis of the core permeability vs. porosity crossplot shown in Figure 8.1 and an assumed core permeability cutoff of 0.1 mD. A shale cutoff of 40 % has been applied.

Matrix density [g/cc]	2.64
Fluid density [g/cc]	1.15
Shale density [g/cc]	2.35
Shale neutron porosity	-0.02
Rw @ 25 degC [ohmm]	0.1
Rmf @ 18.72 degC [ohmm]	0.0534
Shale resistivity [ohmm]	2.5
A	1
M	2.1
N	2

Table 8.3 Input parameter for petrophysical interpretation



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8.6 Petrophysical results

The log derived petrophysical averages are presented in Table 4. Zone averages of core data are presented in Table 8.5. The log interpretation (CPI) is shown in Figure 8.3.

	Hermod	Heimdal
Top [m RKB]	2 069	2149.5
Bottom [m RKB]	2082.5	2 235
Gross thickness [m RKB]	13.5	85.5
Net Pay [m RKB]	10.1	72.7
N/G	0.75	0.85
Porosity [%]	23	22
Permeability [mD] arith.	2 552	768
Permeability [mD] geom.	631	331
Net Porosity [%]	28	25
Net Permeability [mD] arith.	3 412	1 989
Net Permeability [mD] geom.	882	658

Table 8.4 Log averages

	Hermod
Top [m RKB]	2 069
Bottom [m RKB]	2 082
Gross thickness [m RKB]	13.01
Porosity [%] horiz.	31
Porosity [%] vertic.	31
Permeability [mD] horiz. arith.	4 562
Permeability [mD] vertic. arith.	4 437
Permeability [mD] horiz. geom.	4 315
Permeability [mD] vertic. geom.	4 162

Table 8.5 Core averages



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8.7 Figures

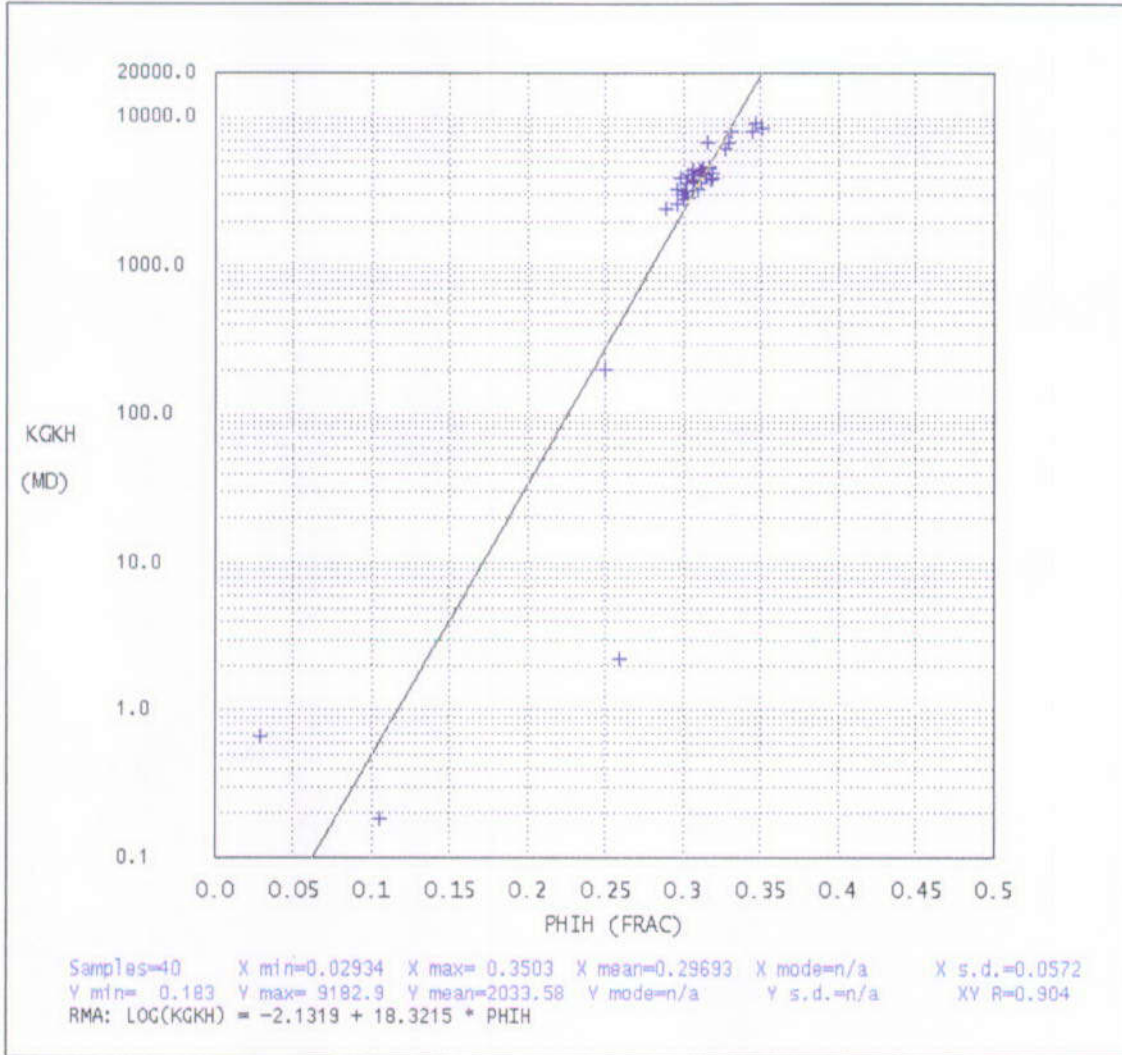


Figure 8.1a Core porosity vs. core permeability



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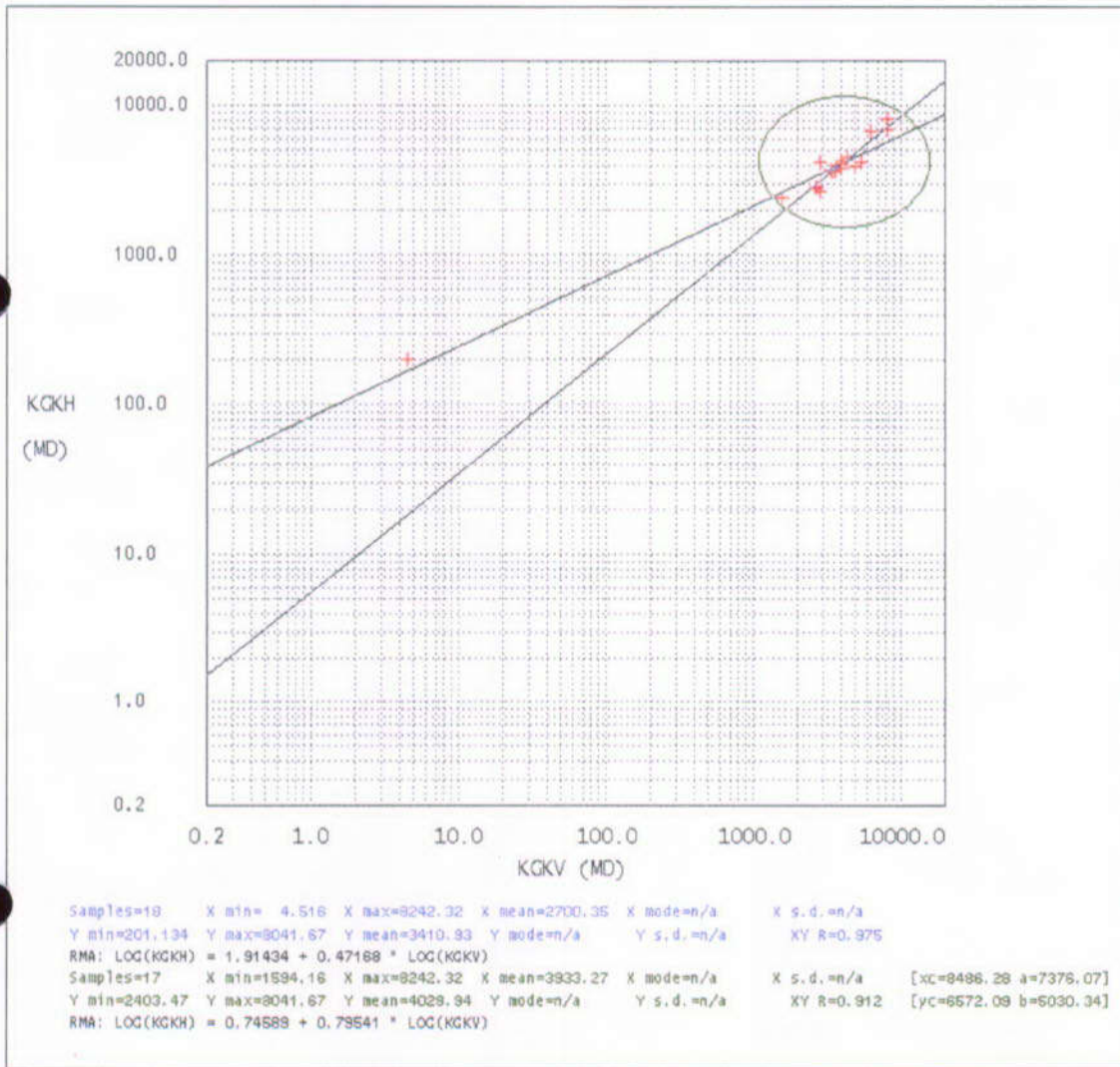


Figure 8.1b Vertical permeability vs. horizontal permeability



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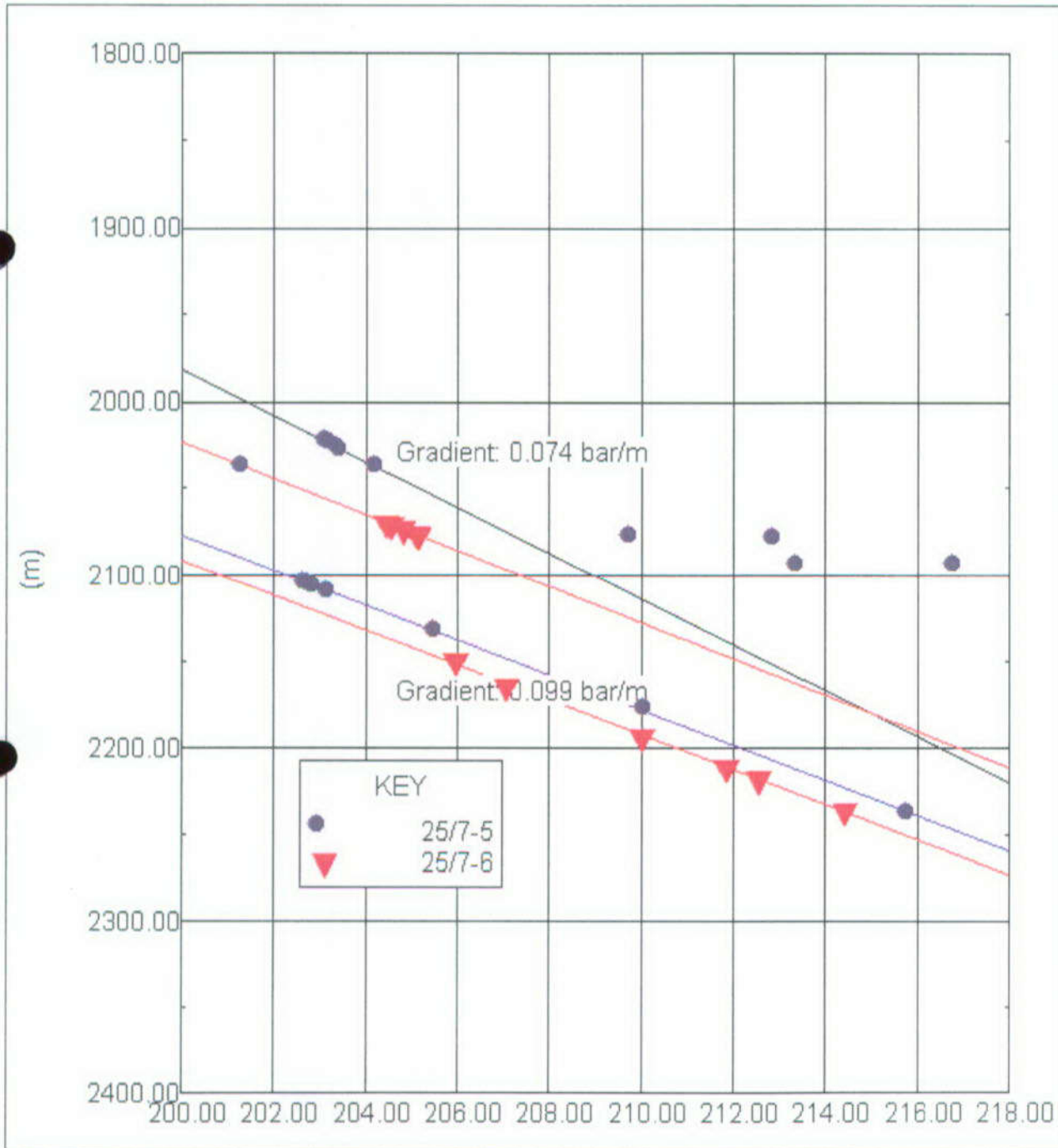


Figure 8.2 Formation pressure from MDT



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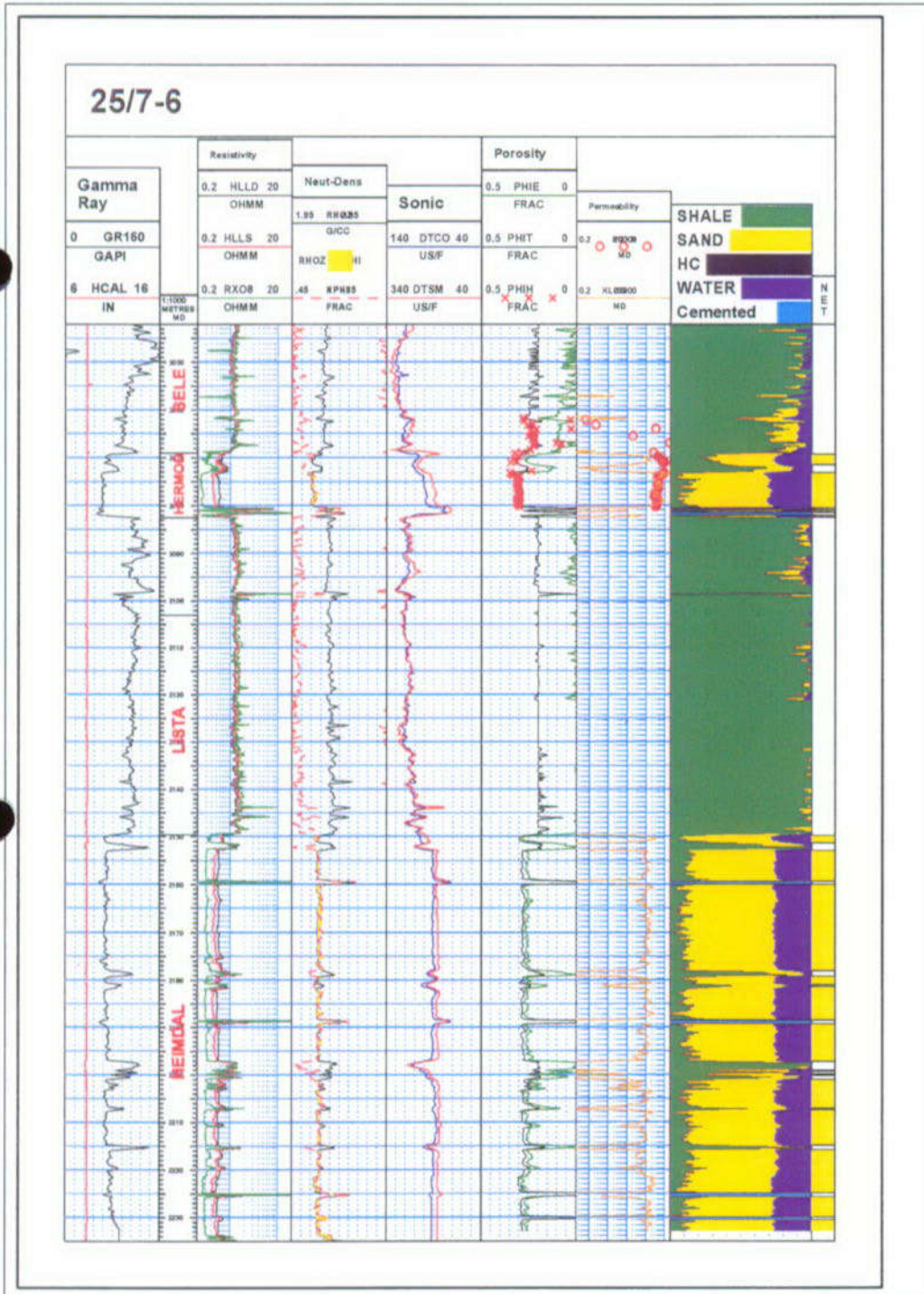


Figure 8.3 Computed petrophysical interpretation (CPI)

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9 Estimated Pore Pressure, Fracture, Overburden and Temperature Gradients

9.1 Pore pressure

The pore pressures in well 25/7-6 are based on well site observations, gas data, MDT pressure readings and calculations based on logs (MWD and Dxc). All depths are quoted as mRKB unless otherwise stated.

From sea bottom to 1430m a generally hydrostatic pressure is regarded as most likely and a normal dxc-trend was established.

A sand containing shallow gas was seen at 1015-1017m MD. The sealing mechanism seems to be a 1.5m thick limestone above the gas filled sand. As no gas bubbles were seen after drilling this sand one must assume that it was not overpressurized. This limestone is of local seismic appearance.

At 1180m to 1200m a change in Dxc- and Resistivity-log readings in claystone indicated a slight build-up in pore pressure within the claystone (or a lithological effect), but as this section was drilled with seawater and no waterflow or hole problems at this depth was seen during drilling no deviation from hydrostatic pressure was interpreted.

At 1430m a decreasing Dxc-trend was observed culminating at 1550-1680m. Using the Equivalent depth metode the best fit trend line gave 1.16sg as max. pore pressure in this interval (prognosed 1.25sg). The gas readings and Temperature-out data also indicated an increase in pore pressure in this interval. Below 1680m the Dxc-trend righthifts and is back on a normal trend from below 1800m. This is also backed by the decrease in total gas readings.

The MDT-run confirmed that the potensial reservoir zones were hydrostatic to slightly depleted identically with the prognosed values.

The Pore pressure-, Fracture- and Overburden gradients are given in Fig. 9.1

9.2 Formation strength

No mudlosses were observed during drilling in this well.

Two normal LOT's was performed. At 1350m TVD it gave 1.60sg and 1.65sg at 1895m TVD, both slightly higher than prognosed. The prognosis was low in order to cover up for worst case values even though the majority of data from the region indicated that a LOT at this depth on an average should be in the range of 1.60sg to 1.70sg. As such the LOT taken falls within the regional normality.



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9.3 Overburden gradient

Overburden gradient is based on regional studies, calculated values and the density log.

9.4 Temperature Gradient

BHST-readings at 2237m gives 74.5° C calculated using Horner plot. This gives an average formation temperature gradient of 3.2° C/ 100m assuming 4°C at seafloor. BHST at TD (2250m) is estimated to be 75.0°C. The Formation Temperature gradient is given in Fig. 9.2.



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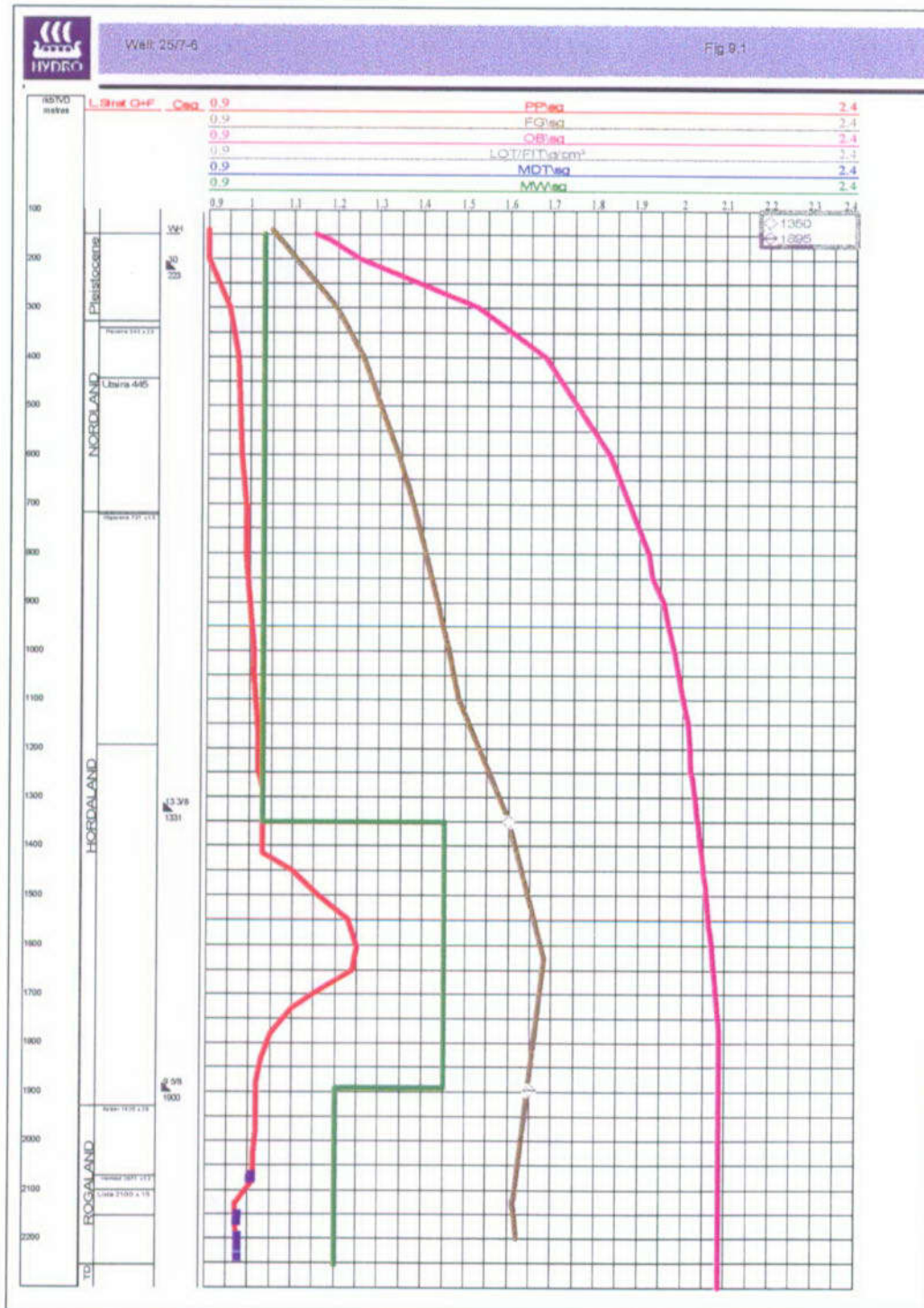


Figure 9.1 Estimated pore pressure, fracture and overburden gradient



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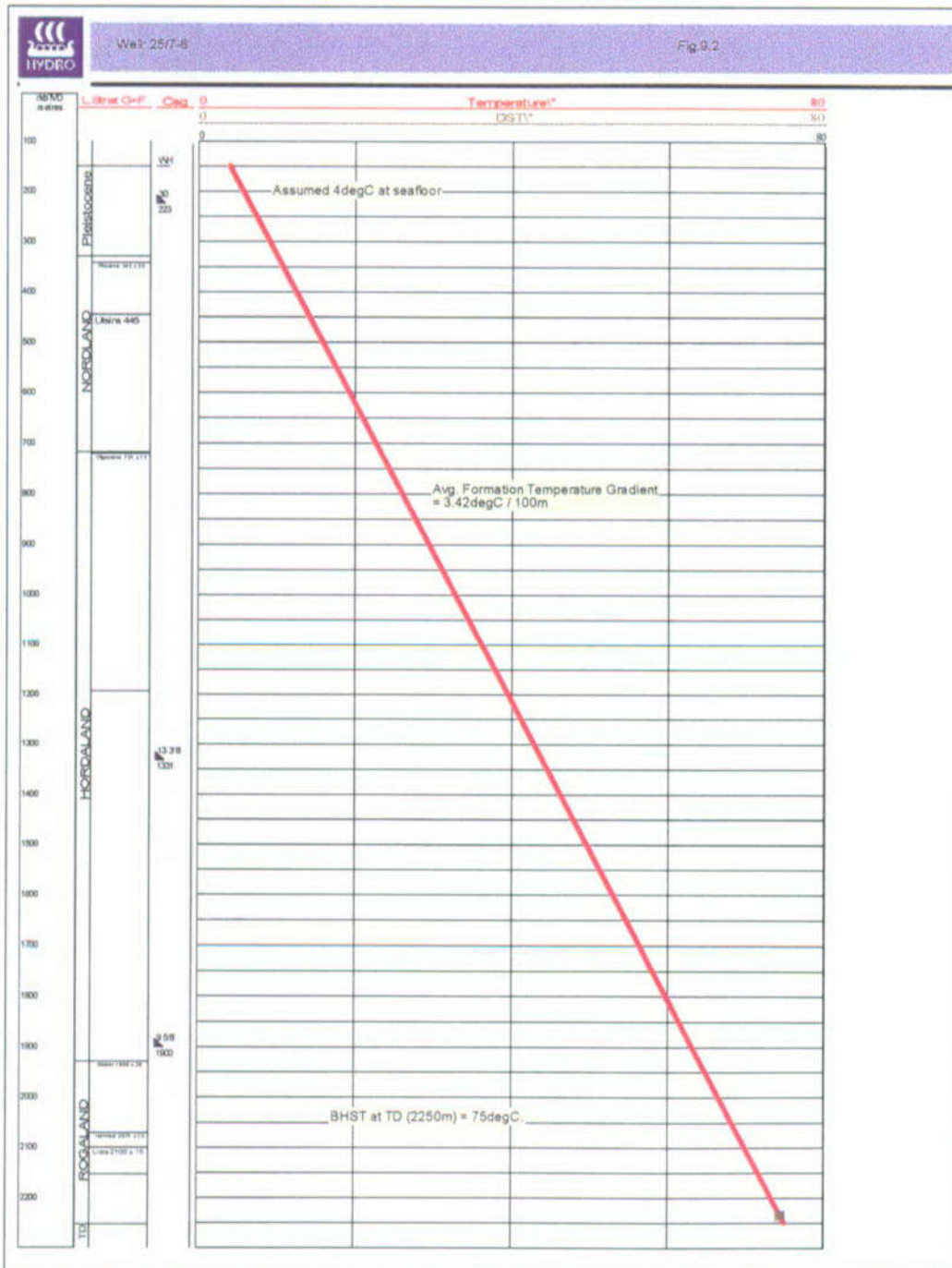


Figure 9.2 Formation temperature gradient



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10 Geophysical results

Prognosed and actual time/depth values in well 25/7-6 are listed in Table 10.1 and a time depth relation is provided in Figure 10.1.

Overall, the well result were in accordance with the prognosis. No significant deviations from the prognosis were observed. Top Balder Formation came in as expected, and the Top Sele Formation and the Top Heimdal Sst. were approximately 5m shallower than prognosed.

Horizon	Prognosed (ms)	Actual (ms)	Deviation (ms)	Prognosed (mRKB MD)	Actual (mRKB MD)	Deviation (m)
Seabed	176					
Top Balder Fm.	1868	1871	3	1930	1930,5	0,5
Top Balder Tuff	-	-	-	-	1994	-
Top Sele Fm.	1957	1963	6	2047	2042	-5
Top Hermod Sst.	1976	1984	8	2071	2069	-2
Top Heimdal Sst.	2043	2045	2	2154	2149,5	-4,5
TD				2180		

Table 10.1 Geophysical results



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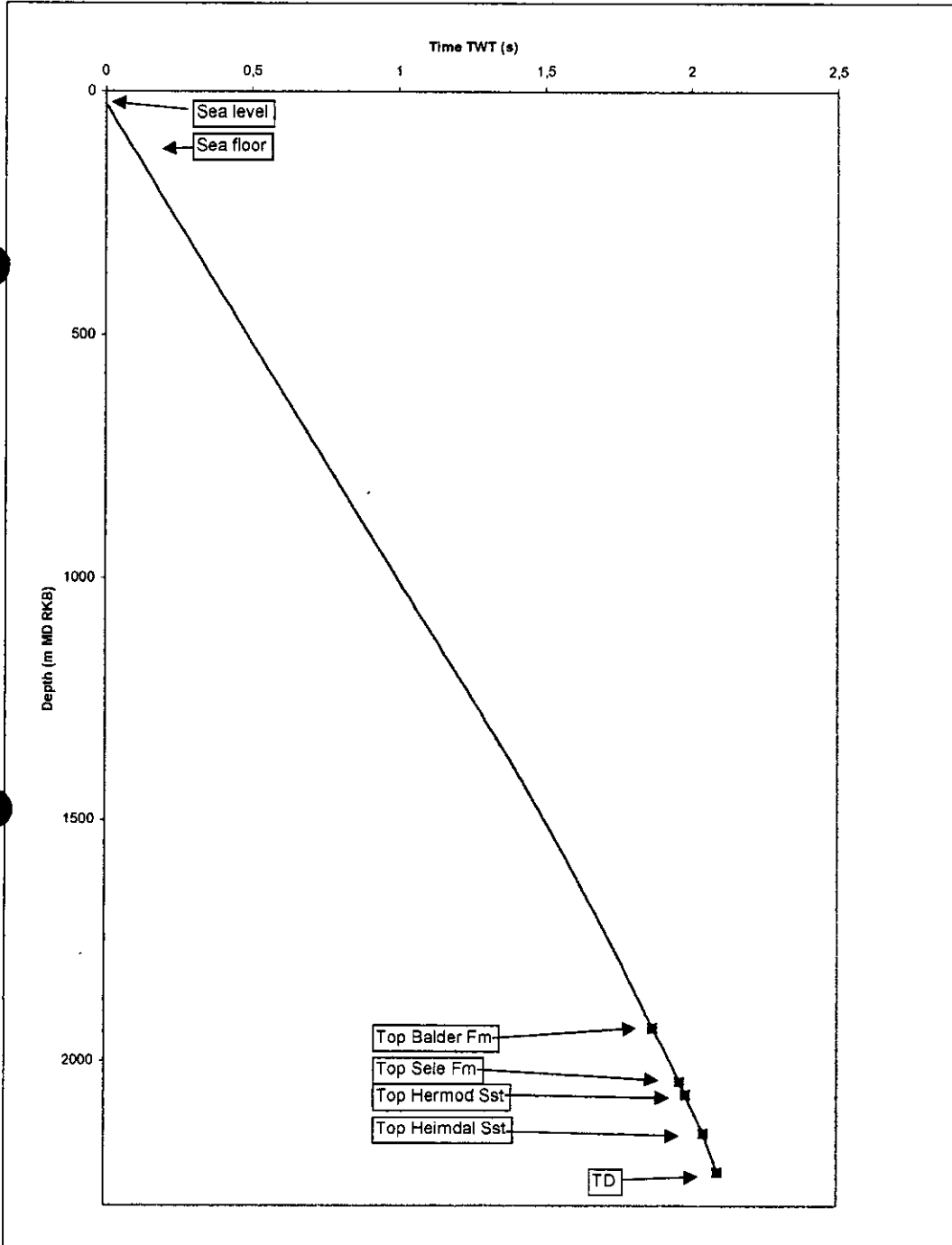


Figure 10.1: Geophysical Time/Depth Plot



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11 Post Site survey Report

This chapter contains the Post Site Survey Report for Well 25/7-6. The results are based on:

- 2D high resolution reflection seismic (NH0056/NH9750)
- 3D reflection seismic (NH9603)
- MWD logs (resistivity and gamma)
- Drilling results from exploration and production wells (25/7-5, 24/9-5 and 24/9-6)
- Site Survey at location 25/7-6, PL 203, R-091051

11.1 Well data

1	Distance from rig floor to sea level:	26 m
2	Water depth (MSL):	124 m
3a	Setting depth for conductor (m RKB):	223 m
3b	Leak Off / Formation Integrity Test (g/cc):	N/A
3a	Setting depth (m RKB TVD) for casing on which BOP mounted:	1330.9 m
4b	Formation Integrity Test (g/cc):	1.60 sg
5	Depth (m RKB (TVD) & Two Way Time) to formation/section/layer tops:	
	Base WGD:	168 m (198 ms)
	Base Quart. Channel:	214 m (257 ms)
	Base FDR:	246.5 m (282 ms)
	Base MRN:	289 m (336 ms)
	Base Pleistocene:	333 m (389 ms)
	Base Pliocene:	447 m (491 ms) ?
	Base Miocene:	717 m (735 ms)
	Base Oligocene:	1203 m (1170 ms)



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Note:

No chronostratigraphic information was collected in the tophole section of the well (from seabed down to 1330.9 m RKB TVD). Consequently, the interpretation of the different formations in this area is based on the MWD logs, seismic character and previous work.

Mud logging commenced at 1330.9 m RKB TVD.

Depth interval (m RKB (TVD) & Two Way Time) and age of sand bodies shallower than 1000 m under the seabed. Note which layers if any contain gas:

No data exists on background gas levels from seabed down to 1330.9 m (section drilled with returns to seabed). However, no gas related incidents were reported when drilling this interval.

The following sand bodies have been identified in well 25/7-6:

Pleistocene Interval:

163 m - 168 m
214 m - 226 m
230 m - 244 m
246.5 m - 289 m
303 m - 308 m
310 m - 318 m

Pliocene Interval:

333 m - 447 m

Miocene Interval

447 m - 512 m
514 m - 647 m
652 m - 717 m

Oligocene Interval:

721 m - 724.5 m
728 m - 736 m
753 m - 757 m
771 m - 773 m

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777 m - 778.5 m
788 m - 792 m
799 m - 809 m
812.5 m - 819 m
826 m - 833 m
961 m - 1011.5 m

Eocene Interval:

1203 m - 1208 m
1238 m - 1251 m

7 By what means is the presence of gas proven:

The well is drilled with returns to seabed above 1330.9 m RKB TVD. Below 1330.9 m RKB TVD gas analyses were accomplished using flame ionisation detectors (FID) with gas measured as percentage methane (C1) equivalent in air, and chromatographic analyses expressed in parts per million.

8 Composition and origin of gas:

N/A

9 Describe all measurements taken in gas bearing layers:

N/A

11.2 Seismic data

10 Given depth and extent of any gas blanking ("gass-skygging"), seismic anomalies etc.:

The 2D high resolution and 3D exploration seismic have been examined for indications of shallow gas. No amplitude anomalies were mapped at the Well 25/7-6 Location.

The tophole section of the well was drilled with returns to seabed to 1330.9 m RKB TVD. Background gas levels were consequently not monitored. However, no gas-related problems were experienced over this section.



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11 Note any indication of gas originating from deeper levels. Give description in cases where gas comes from deeper layers:

N/A

12 How does the interpretation of the site survey correspond to the well data with respect to:

12a Shallow Gas:

No amplitude anomalies were mapped at the 25/7-6 Location and no gas warning was given for Well 25/7-6.

No gas related problems were experienced in the well.

12b Sand Bodies:

The Pleistocene, Pliocene, Oligocene and Eocene sand layers were predicted and encountered sand layers correspond with the interpretation.

12c Boulders:

Scattered boulders were predicted in the shallow section between 168 m - 339 m RKB TVD. No boulders were predicted. No boulders were encountered.

12d Unconformities (depths in metres RKB (TVD)):

Horizon	Prognosed (P)	Observed (O)	Difference (O-P)
Base Pleistocene	:339 ± 10 m	333 m	- 6 m (shallower)
Base Pliocene:	:440 ± 25 m	447 m	+ 7 m (deeper)
Base Miocene	:718 ± 20 m	717 m	- 1 m (shallower)
Base Oligocene	:1184 ± 15 m	1203 m	+ 19 m (deeper)

The differences between the prognosed and observed depths to different formation tops were within the uncertainty limits, except for Base Oligocene formation. The difference between the predicted and observed depths may be caused by discrepancies in either the seismic pick, the velocity model used for depth conversion or a combination of both.



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12e Correlation to Nearby Wells:

The drilling conditions experienced in well 25/7-6 are as predicted and similar to those encountered in tie-wells 25/7-5, 24/9-5 and 24/9-6.



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12 Standard and Special Studies

- Norsk Hydro, 2001: "Standard Core Description, Well 25/7-6"
- Reslab/Norsk Hydro, 2000: "Core photographs well 25/7-6 - Core no 1, Scale 1:4, white light and UV light"
- Reslab, 2001: "Conventional core analysis well 25/7-6"
- Robertson Research, 2001: "Norsk Hydro 25/7-6 well, Biostratigraphy, interval 1350-2250m TD"
- Sperry Sun Drilling Services, 2000: "End of Well Report, Surface Logging Data"
- Schlumberger, 2000: "End of Well Report/Logs"
- Petrotech, 2000: "Final report concerning Trace Element Analysis of Mud"
- Schlumberger Geoquest, 2001: "VSP, Sonic Calibration & Synthetic Seismogram, Processing Report; Well 25/7-6"



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APPENDIX I

CORE DESCRIPTIONS



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NORSK HYDRO		CORE DESCRIPTION			
Date:		Well:25/7-1		Core no.:1	
Cored Interval: 2061 - 2079.65m		Recovered Interval: 2061 - 2079.65m		Recovery: 100 %	
Depth (m):	Lithology:	Description:	Kalgraff, Halvorsen		
2061	Clst	brn blk-olv blk,hd,sbfis-fis,non calc micromic,carb,slty.	n/s		
2062	Sst	lt gry,clr-mky Qtz,vf-f,sbang-sbrnnd,mod srt,fri-mod hd,wk sil cmt,Tr micromic,occ Clst lam	Wk HC od,no vis Stn,no direct Fluor,slo-mod p.p.wk yel wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res.		
2063	Clst	brn blk-olv blk,hd,sbfis-fis,non calc,micromic,carb,slty,Tr Pyr nod.	n/s		
2064	Clst	brn blk-olv blk,hd,sbfis-fis,non calc,micromic,carb,slty,Tr Pyr nod.	n/s		
2065	Clst	brn blk-olv blk,hd,sbfis-fis,blk,non calc,micromic,v carb,C Frag,loc Sd len,gen slty.	n/s		
2066	Clst	brn blk-olv blk,hd,sbfis-fis,non calc micromic,carb,slty.	n/s		
2067	Clst	brn blk-olv blk,hd,sbfis-fis,non calc micromic,carb,slty.	n/s		
2068	Clst	brn blk-olv blk,hd,sbfis-fis,non calc micromic,carb,slty,loc Sd len	n/s		
2069	Sst	m lt gry,clr-mky Qtz,f,Tr pbl(intclas)sbang-sbrnnd,mod srt,fri-lse,wk sil cmt,loc mod cmt,Tr micromic,r carb.	Wk stky HC od,no O Stn,no direct Fluor,mod strmg bl wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res.		
2070	Sst	m lt gry,clr-mky Qtz,f Tr m,sbang-sbrnnd,wl srt,fri-lse,wk sil cmt,Tr micromic,Tr carb.Fr vis Por	Wk stky HC od,no O Stn,no direct Fluor,slo strmg yel wh- bl wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res		
2071	Sst	m lt gry,clr-mky Qtz,f,Tr pbl(intclas)sbang-sbrnnd,mod srt,fri-lse,wk sil cmt,loc mod cmt,Tr micromic,r carb.	Wk stky HC od,no O Stn,no direct Fluor,mod strmg bl wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res.		
2072	Sst	lt gry,clr-mky Qtz,f,Tr pbl(intclas)sbang-sbrnnd,mod srt,fri-lse,wk sil cmt,loc mod cmt,Tr micromic,r carb.	Wk stky HC od,no O Stn,no direct Fluor,mod strmg bl wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res.		
2073	Sst	m lt gry,clr-mky Qtz,f Tr m,sbang-sbrnnd,wl srt,fri-lse,wk sil cmt,Tr micromic,Tr carb.Fr vis Por	Wk stky HC od,no O Stn,no direct Fluor,mod strmg bl wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res		
2074	Sst	m lt gry,clr-mky Qtz,f Tr m,sbang-sbrnnd,wl	Wk stky HC od,no O Stn,no direct		



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2 075	Sst	srt,fri-lse,wk sil cmt,Tr micromic,Tr carb,Fr vis Por m lt gry,clr-mky Qtz,f,Tr m,sbang-sbrnnd,wl srt,fri,sl sil cmt,Tr micromic,r Tr carb,Fr vis Por.	Fluor,mod strmg bl wh Fluor cut,no vis cut,dull or Fluor Res,no vis Res Wk stky HC od,no O Stn,no direct Fluor,slo -mod strmg bl wh-yel wh Fluor cut,no vis cut,dull or-dull yel Fluor Res,no vis Res.
2 076	Sst	m lt gry,clr-mky Qtz,f,Tr m,sbang-sbrnnd,wl srt,fri,sl sil cmt,Tr micromic,r Tr carb,Fr vis Por.	Wk stky HC od,no O Stn,no direct Fluor,slo -mod strmg bl wh-yel wh Fluor cut,no vis cut,dull or-dull yel Fluor Res,no vis Res.
2 077	Sst	m lt gry,clr-mky Qtz,f,Tr m,sbang-sbrnnd,wl srt,fri,sl sil cmt,Tr micromic,r Tr carb,Fr vis Por.	Wk stky HC od,no O Stn,no direct Fluor,slo -mod strmg bl wh-yel wh Fluor cut,no vis cut,dull or-dull yel Fluor Res,no vis Res.
2 078	Sst	m lt gry,clr-mky Qtz,f,Tr m,sbang-sbrnnd,wl srt,fri,sl sil cmt,Tr micromic,r Tr carb,Fr vis Por.	Wk stky HC od,no O Stn,no direct Fluor,fast strmg bl wh Fluor cut,no vis cut,yel wh Fluor Res,no vis Res.
2 079	Sst	m lt gry,clr-mky Qtz,f,Tr m,sbang-sbrnnd,wl srt,fri,sl sil cmt,Tr micromic,r Tr carb,Fr vis Por.	Wk stky HC od,no O Stn,no direct Fluor,slo -mod strmg bl wh-yel wh Fluor cut,no vis cut,dull or-dull yel Fluor Res,no vis Res.
2079.5	Sst	m lt gry,clr-mky Qtz,f,Tr m,sbang-sbrnnd,wl srt,fri,sl sil cmt,Tr micromic,r Tr carb,Fr vis Por.	Wk stky HC od,no O Stn,no direct Fluor,slo -mod strmg bl wh-yel wh Fluor cut,no vis cut,dull or-dull yel Fluor Res,no vis Res.



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APPENDIX II

GEOLOGICAL WELL SUMMARY

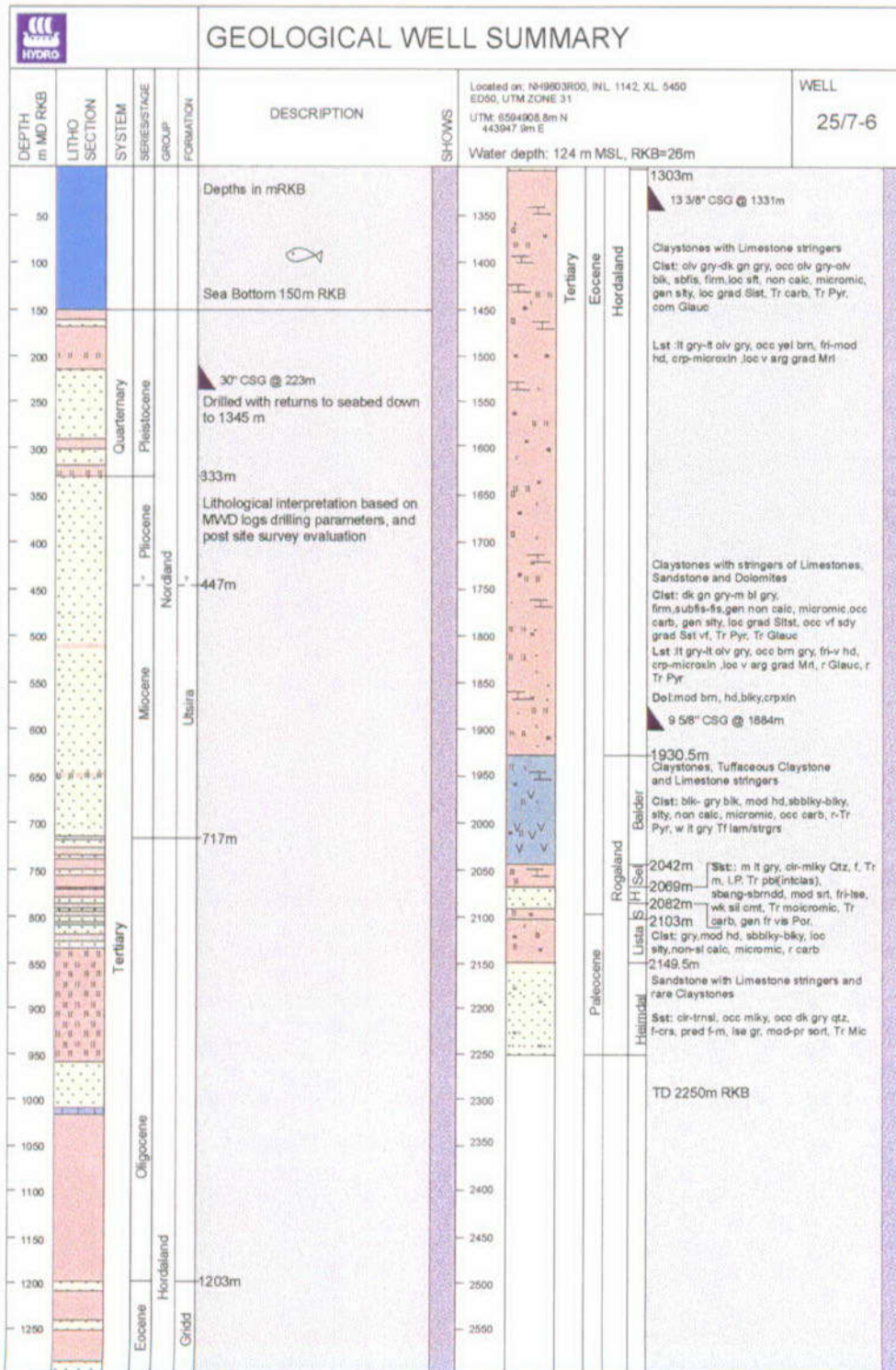
WELL SUMMARY



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SECTION B

OPERATIONS

Prepared by: Høgni Hansen Verified by: David Tjøswold Approved by: Terje Skram

Well:

25/7-6

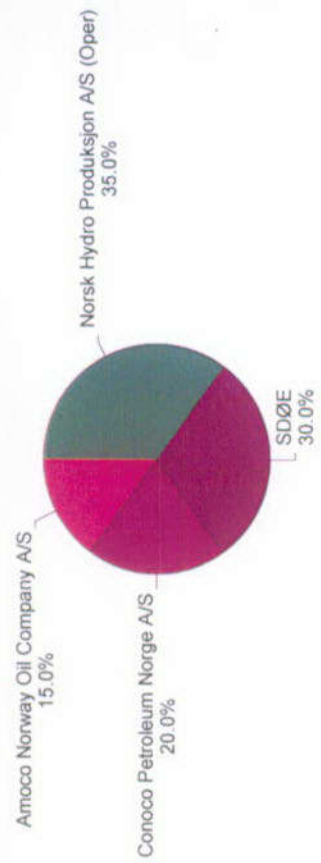
License: PL 203

Rig:	Scarabeo 6
Start Time:	2000-09-12 01:30 hrs
Spud Time:	2000-09-13 19:00 hrs
Finish Time:	2000-10-14 15:50 hrs

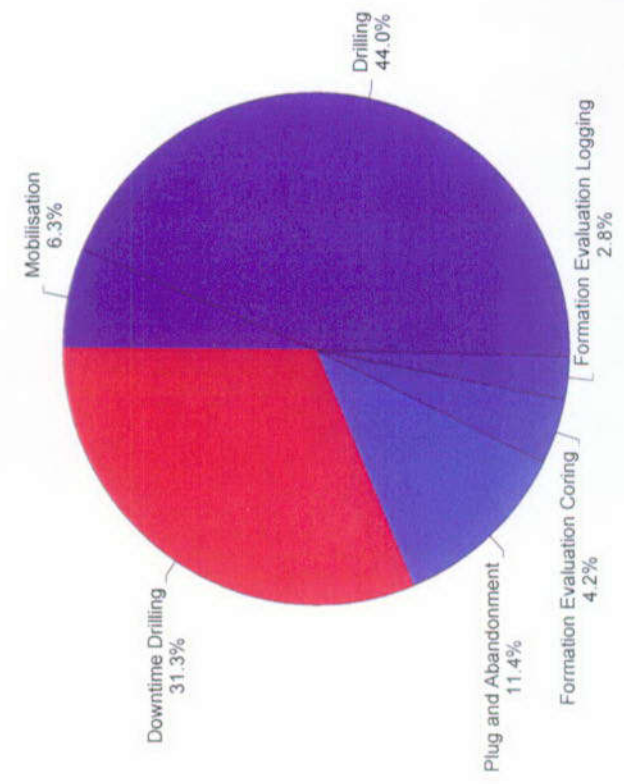
Well Status: Permanently Abandoned

Budgeted Cost:	71.2 MNOK
Total Actual Cost:	76.0 MNOK
<i>Cost overrun mainly caused by formation problems while running 13-3/8" casing.</i>	
Total Depth:	2250 m MD
Formation at TD:	Heimdal at 2150 m MD

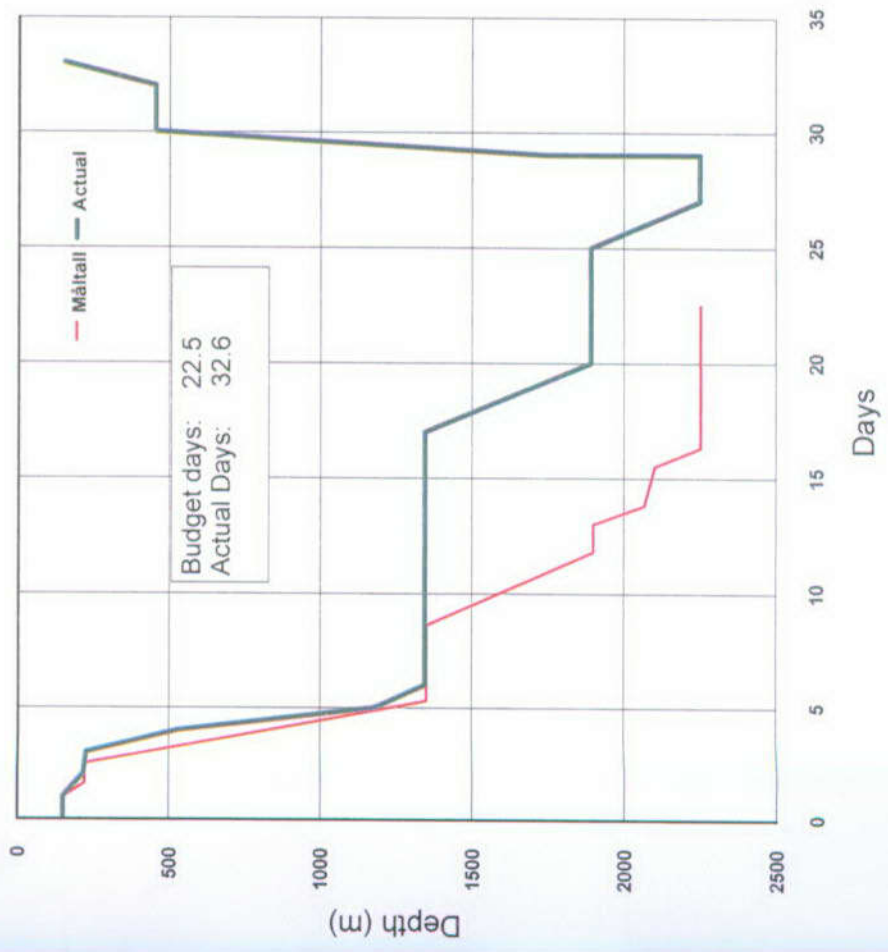
Partners



Time Distribution



Days versus Depth



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1 DRILLING SUMMARY AND EXPERIENCES

1.1 Mobilising

Total time used: 49.5 hrs
 Operational time: 49.5 hrs (100.0 %)
 Downtime: 0.0 hrs (0.0 %)
 For a detailed breakdown, see reports 1-2.

The rig was moved in drilling draft with all drillpipe in the derrick, using two tug boats to increase speed.

The rig was anchored up with the final wellhead co-ordinates:

6 594 908.8 mN 443 948.0 mE

and rig heading was 215°.

1.2 36" Hole Section / 30" Conductor

Total depth of section: 226 m.

Total time used: 35.0 hrs
 Operational time: 28.0 hrs (80.0 %)
 Downtime: 7.0 hrs (20.0 %)
 For a detailed breakdown, see reports 2-3.

1.2.1 Drilling

The well was spudded on 13 September 2000, at 19:00 hrs.

A rotary BHA with 17-1/2" bit and 36" hole opener was made up and the 36" hole was drilled with sea water and hi-vis pills from 150 m to 226 m. A wiper trip was performed to the seabed and back to TD, observing 1m fill, and the hole was displaced to 1.50 sg bentonite mud.

1.2.2 Casing

The 30" casing with the Permanent Guide Base was run to 223 m and cemented back to the sea floor. After running the 13-3/8" casing, the 30" top of cement was checked and found to be 2.5 m below seabed hence no grouting was done.

1.3 26" x 24" x 17"-1/2" Hole Section / 13-3/8" Casing

Total depth of section: 1,345 m.

Total time used: 337.0 hrs
 Operational time: 135.05 hrs (40.1 %)
 Downtime: 202.0 hrs (59.9 %)
 For a detailed breakdown, see reports 3-18.

1.3.1 Drilling

After drilling out the 30" shoetrack with a 26" bit, the section was drilled to TD at 1,345 m with a 17-1/2" rotary BHA and insert bit. Sea water and hi-vis pills were used for cleaning the hole.

Problems with the formation suddenly packing to pack off were experienced and at one occasion the drill string became stuck while rotating. The string was eventually worked and jarred free. No drag was experienced when free. The problem area was located to the interval from the 30" shoe to bottom of the Utsira formation at approx 740m.

1.3.2 Casing

The 13-3/8" casing was run, but problems with packing off were experienced as soon as the casing entered open hole. From 270 m the casing had to be circulated down, but at 354 m no further progress was possible. It had not been possible to mobilise a circulation packer for the operation. The heavy circulating swage equipment, together with a bad weather situation, increased static time between joints significantly. The casing was pulled back, and a wiper trip was performed, showing good hole condition, but it was still not possible to get the casing down. Tight hole problems started at 371 m and continued to 417 m, where it became slightly easier to work casing down, but at 490 m it was decided to pull out of hole, to avoid becoming stuck with the casing. The hole was then opened up to 24". A wiper trip was made to the casing shoe and back to TD, experiencing 1.5 m fill. The 13-3/8" casing with the 18-1/4" wellhead was then run to 1,331 m and cemented in place. Due to the large annular volume the supply boat was kept alongside, and empty silos were re-filled during the job. A pressure test was made to 70 bar with 1.32 sg mud.

The BOP was installed and tested.

1.4 12-1/4" Hole Section / 9-5/8" Casing

Total depth of section: 1,891 m.

Total time used:	165.5 hrs	
Operational time:	130.5 hrs	(78.9 %)
Downtime:	35.0 hrs	(21.1 %)

For a detailed breakdown, see reports 18-24.

1.4.1 Drilling

A 12-1/4" rotary BHA with an insert bit (due to high torque in the 24" section) was made up, and the shoetrack and 5 m of new formation were drilled whereafter a Leak Off Test to 1.6 sg was performed. The 12-1/4" section was then drilled to TD at 1,891 m using 1.45 sg KCl/Polymer/Glycol mud. After reaching TD a wiper trip to the casing shoe was performed. Constant overpulls of 25 MT were observed during the wipertrip when not circulating. When running back in to TD problems were experienced getting back into the 12-1/4" hole at the 24" x 12-1/4" junction, and the area had to be reamed several times before a clear passage was achieved. Twelve metres of fill were seen when back at TD, and continuous amounts of cavings kept coming over the shakers when trying to circulate clean. Consequently the well was displaced to 1.50 sg mud in order to stop shale sloughing, and the hole was circulated clean. The large amount of fill may be caused by the large diameter rathole and insufficient mudweight in this interval.

1.4.2 Casing

The 9-5/8" casing was run to 1,884 m, and cemented in place. Slight losses were experienced during cementation. The casing was pressure tested to 175 bar with 1.50 sg mud. After setting the casing hanger seal assembly, the middle pipe rams

closed around the string on an acoustic signal, not-noticeable from surface. After curing the problem, the string was free.

1.5 8-1/2" Hole Section

Total depth of section: 2250 m.

Total time used: 106.0 hrs
 Operational time: 105.0 hrs (99.1 %)
 Downtime: 1.0 hrs (0.9 %)
 For a detailed breakdown, see reports 24-29

1.5.1 Drilling

An 8-1/2" rotary BHA with a PDC bit was run in hole, the shoetrack and 4 m of new formation were drilled, and a Leak Off Test to 1.65 sg was performed. The well was displaced to 1.20 sg Low Sulphate mud, and the section was drilled to well TD at 2,250 m, stopping at 2,070 m for coring.

1.5.2 Coring

One core was cut in the Hermod formation.

Run #	Cored interval m MD	Recovery %	Reason pulled
1	2,061 - 2,079	103.3	Full barrel

1.5.3 Logging

The following logs were run:

Log suite	Logged interval mMD	Comments
PEX/HALS/DSI	1,400 - 2,225	Run after coring T2
MDT	2,070.1 - 2,237	11 pressure points in 11 stations
VSP	1,400 - 2,230	

MDT sampling and CST logging had also been planned, but were not done because the well was dry.

1.6 Plug and Abandonment

Total time used: 89.5 hrs
 Operational time: 89.5 hrs (100.0 %)
 Downtime: 0.0 hrs (0.0 %)
 For a detailed breakdown, see reports 29-33

The open hole was plugged back in two stages. From 2,250 m to 2,000 m, and from 2,000 m to 1,685 m. The top of cement was located with an 8-1/2" bit at 1,755 m, load tested to 15 MT, and pressure tested to 153 bar with 1.20 sg mud. A bridge plug was set at 452 m, and pressure tested to 153 bar with 1.20 sg mud.

The 9-5/8" casing was cut and retrieved from 439 m, and a 13-3/8" bridge plug was installed at 436 m and pressure tested to 70 bar with 1.20 sg mud whereafter a cement plug was set from 436 m to 175 m.

The BOP was retrieved, and the 20" and 30" casings were cut at 154m, in compression using a motor, pulled free with 40 MT overpull and retrieved to surface.

The anchors were pulled, and on 14 October 2000 at 15:50 hrs the last anchor was on the bolster and the rig commenced the move to the 6407/7-6 location.

1.7 Recommendations

1.7.1 Well design

Long sand intervals at shallow depths proved problematic on this well. This should be considered when planning future wells on similar locations, and possible problems getting the casing down should be discussed and appropriate action taken.

1.7.2 Well design

If using oil based mud in 12-1/4" and 8-1/2" sections, 9-5/8" casing should be considered omitted.

1.7.3 13-3/8" Casing running

Circulating packer should be installed prior to running the 13-3/8" casing. In a bad weather situation, handling of heavy casing swages becomes difficult.

GENERAL INFORMATION ON WELL 25/7-6

Field : HEIMDAL Country : NORWAY
 Licence : 203
 UTM zone : 31 Central Median : 3' E Horiz. Datum: ED50

Location coordinates:		Surface	Target
UTM	North [m]:	6594908.8	6594908.8
UTM	East [m]:	443947.9	443947.9
Geographical	North :	59 29'15.04"	59 29'15.04
Geographical	East :	02 00'37.34"	02 00'37.34

Water Depth: 124.0 m Reference Point Height: 26.0 m
 Formation at TD: HEIMDAL at 2150 m MD

Operators:	NORSK HYDRO PRODUKSJON A/S	Share:	35.00 %
Partners:	SDØE	Share:	30.00 %
	CONOCO PETROLEUM NORGE A/S		20.00 %
	AMOCO NORWAY OIL COMPANY A/S		15.00 %

Total depth (RKB) : 2250.0 m MD 2249.8 m TVD

TIME SUMMARY
 Start Time : 2000-09-12 23:30:00
 Spudding date : 2000-09-13
 Abandonment date : 2000-10-14

Main operation	Hours	Days	%
MOBILIZATION	49.5	2.1	6.3
DRILLING	344.0	14.3	44.0
FORMATION EVALUATION LOGGING	22.0	0.9	2.8
FORMATION EVALUATION CORING	32.5	1.4	4.2
PLUG AND ABANDONMENT	89.5	3.7	11.4
DOWNTIME DRILLING	245.0	10.2	31.3
Sum:	782.5	32.6	

Hole and casing record

Hole	Track	Depth [m MD]	Casing/Tubing	Track	Depth [m MD]
36"		223.0	30"		223.0
26"		226.0	13 3/8"		1331.0
17 1/2"		1345.0	9 5/8"		1884.0
12 1/4"		1891.0			
8 1/2"		2250.0			

Well status: PERMANENTLY ABANDONED

Rig name: SCARABEO 6

NORSK HYDRO A.S
DRILLING SECTOR

WELL: 25/7-6
 LICENS: PL203
 RIG: Scarabeo 6
 DEPTH: 2 254
 RIG RATE: USD 110 000
 EXCHANGE: USD 1,0 = Nkr 9,0
 ACCOUNT: 0

DAYS PLANNED: 31,938

Date: 23.05.2001

FINAL COST REPORT - DRILLING

EDI	DESCRIPTION	AFE	COSTS
0	EMPLOYEE RELATED COSTS	4 151 875	3 842 126
1	RIG COSTS	31 178 125	28 751 344
2	RIG SUPPORT COSTS /REIMBURSABLES	3 966 701	9 039 438
3A	FUEL/LUB	1 916 250	1 532 366
3C	BITS	2 381 193	1 377 102
3D	CASING/CASING EQUIPMENT	2 908 629	3 716 114
3E	WELLHEAD/XMASTREE	1 404 266	1 543 657
3F	CEMENT/CEMENT ADDITIVES	890 000	758 301
3G	MUD & MUD CHEMICALS	1 458 125	1 805 250
3	CONSUMABLES COSTS, SUB TOTAL	10 958 463	10 732 790
4B	CHARTERFLY		
4C	OTHER TRANSPORTATION	159 688	17 025
4D	STANDBY VESSEL	2 235 625	2 120 201
4F	HELICOPTER TRANSPORT	958 125	333 725
4G	SUPPLY VESSELS	4 261 980	10 300 537
4	TRANSPORTATION COSTS, SUB TOTAL	7 615 418	12 771 487
5A	CORING	224 800	340 906
5B	DIRECTIONAL DRILLING/FRILLING TOOLS	1 021 899	653 103
5C	CUTTING OF CASING	444 757	329 772
5D	COMPLETION	0	
5F	MWD-SERVICES	1 131 978	857 681
5G	CASING OPERATIONS	750 000	756 646
5H	MUD LOGGING & MUD SERVICES	981 191	851 448
5I	CEMENTING/PRESS.TEST	715 400	408 312
5J	EL. LOGGING	2 480 000	1 770 777
5K	VSP	500 000	0
5L	PROD.TESTING	190 524	332 741
5M	DIVING/ROV	1 175 332	1 034 588
5N	RIGPOOL	638 750	0
5N	DIVERSE	162 881	1 879 243
5	SERVICE COSTS, SUB TOTAL	10 417 512	9 215 218
6A	SITE SURVEY	709 722	299 375
6B	RIG MOVING/POSITIONING	500 000	358 340
6C	DRILLING SITE CLEAN UP	1 209 722	657 715
6	SURVEY COSTS, SUB TOTAL		
7	WAREHOUSE COSTS	702 625	940 310
8	LAB COST	1 000 000	0
TOTAL OPERATION COSTS		71 200 441	75 950 427

DOWNTIME REPORT SCARABEO 6

Last 84 days

Inst. Wellname	Startdate	#	Sum hrs	Downtime Type	Responsible Contractor	Manufacturer	Short description	Equipment Type	Activity	Service Type	NSFI Code	NSFI Type	Serial Number
SCA6 257-6	2000-09-13	1	1,0	Equipment failure	SAIPEM S.P.A.	MARITIME HYDRAULICS A/S	Malfunctioning RPM counter on top drive. Repair unsuccessful.	HOISTING EQUIPMENT	DRILLING	DRILLING CONTRACTO	313.02	Top Drive	
SCA6 257-6	2000-09-14	2	6,0	Waiting for cement to cure	NORSK HYDRO A/S		Waited on cement after 30 ⁺ cementation.	DRILLING	DRILLING				
SCA6 257-6	2000-09-15	3	3,0	Other	SAIPEM S.P.A.		Stuck drilling. Were unable to rotate and move pipe. Attempted pulling and jarring with max overpull 250 MT. Swept hole with high viscosity pills. Displaced to 1.3 sg mud and back to seawater. Eventually became free.	DRILLING	DRILLING				
SCA6 257-6	2000-09-15	3.2	2,0	Equipment failure	SAIPEM S.P.A.	MARITIME HYDRAULICS A/S	Checked crown and derrick and repaired top drive after jarring.	HOISTING EQUIPMENT	DRILLING	DRILLING CONTRACTO	313.02	Top Drive	
SCA6 257-6	2000-09-15	5	5,5	Equipment failure	ANADRILL	ANADRILL	CDR tool failure. Lost gamma ray signal. Pulled out of hole and changed CDR.	DRILLSTRING/DC EQUIPMENT	DRILLING	MWD/LWD	357.02	MWD/LWD	
SCA6 257-6	2000-09-16	24	3,5	Equipment failure	SAIPEM S.P.A.	MARITIME HYDRAULICS A/S	Repaired Top Drive, RPM counter, pipe handler manual make and break function, auto make up function, auto bloc extend, broken off dolly cabinet, broken electrical and hyd couplings.	HOISTING EQUIPMENT	DRILLING	DRILLING CONTRACTO	313.02	Top Drive	
SCA6 257-6	2000-09-17	9	3,0	Equipment failure	ODFJELL WELL SERVICES	AGR	Casing tong electronics malfunctioning. Repairs unsuccessful. Changed out tong.	MISCELLANEOUS EQUIPMENT/SYS	CASING RUNNING	CASING/TUBI RUNNING	381.01	Casing Running Tools	
SCA6 257-6	2000-09-18	11.1	0,5	Other	NORSK HYDRO A/S		Waited on helicopter handling	CASING	CASING				

DOWNTIME REPORT SCARABEO 6

Last 84 days

Inst. Wellname	Startdate	#	Sum hrs	Downtime Type	Responsible Contractor	Manufacturer	Short description	Equipment Type	Activity	Service Type	NSFI Code	NSFI Type	Serial Number	
SCA6 257-6	2000-09-18	11	132,0	Other	NORSK HYDRO A/S		Unable to get 13-3/8" casing down. Had tight section from 257 to 371m where the casing stood up. Pulled casing back to surface and performed wiper trip and reamed hole until hole was in good condition. Re-ran casing, but stood up at 371m again. Were able to work casing down at 2m/hr to 417m where the hole condition started to become slightly better. Pulled casing back to surface and opened up hole to 24". Re-ran casing. Waited on helicopter landing	CASING	CASING					
SCA6 257-6	2000-09-18	11.2	0,5	Other	NORSK HYDRO A/S		Waited on helicopter landing		CASING					
SCA6 257-6	2000-09-20	11.3	1,0	Equipment failure	ODFJELL WELL SERVICES	ODFJELL WELL SERVICES	Casing tong malfunctioning. Unable to repair casing tong. Changed out with manual tong.	MISCELLANEOUS EQUIPMENT/SYS	CASING	CASING/TUBI RUNNING	381.01	Casing Running Tools		
SCA6 257-6	2000-09-20	11.4	11,5	Waiting on weather			Waited on weather while running 13-3/8" casing.		CASING					
SCA6 257-6	2000-09-22	11.9	10,5	Waiting on weather			Waiting on weather. Unable to receive 24" equipment from boat.		CASING					
SCA6 257-6	2000-09-22	11.5	8,0	Waiting on weather			Waiting on weather. Unable to receive 24" equipment from boat.		CASING					
SCA6 257-6	2000-09-24	11.6	1,0	Equipment failure	SAIPEM S.P.A. TO BE NAMED		Guideline caught on rotating drill string and released from guide post. Worked wire free and pulled to surface.	MISCELLANEOUS EQUIPMENT/SYS	CASING	WELLHEAD	380.00	Miscellaneous equipment, systems and services		

DOWNTIME REPORT SCARABEO 6

Last 84 days

Inst. Wellname	Startdate	#	Sum hrs	Downtime Type	Responsible Contractor	Manufacturer	Short description	Equipment Type	Activity	Service Type	NSFI Code	NSFI Type	Serial Number
SCA6 25/7-6	2000-09-24	11.7	0.5	Equipment failure	SAIPEM S.P.A. TO BE NAMED	TO BE NAMED	Repaired torque wrench die carrier on top drive, checked bolts on roller assemblies on dolly cluster.	HOISTING EQUIPMENT	DRILLING	DRILLING CONTRACTO	313.02	Top Drive	
SCA6 25/7-6	2000-09-25	11.8	2.0	Equipment failure	ODFJELL WELL SERVICES	TO BE NAMED	Repaired damaged casing tong	MISCELLANEOUS EQUIPMENT/SYS	CASING	CASING/TUBI RUNNING	381.01	Casing Running Tools	
SCA6 25/7-6	2000-09-27	16	13.5	Waiting on weather			WOW while running riser.		BOP INSTALLATIO AND TESTING				
SCA6 25/7-6	2000-09-28	17	4.0	Waiting on weather			Waiting on weather to lift slip joint.		BOP INSTALLATIO AND TESTING				
SCA6 25/7-6	2000-09-29	18	14.5	Equipment failure	SAIPEM S.P.A. SAIPEM S.P.A.	SAIPEM S.P.A.	Overboard line from shaker box blocked, pulled into shoe while cleaning shaker box and lines.	MUD AND BULK SYSTEMS	DRILLING	DRILLING CONTRACTO	329.00	Other Mud and Bulk System	
SCA6 25/7-6	2000-10-03	19	1.0	Other	SAIPEM S.P.A.	SAIPEM S.P.A.	Pup joint drifted to wrong size. Had to pull back casing to change out pup joint that did not drift to required size. Installed full joint in stead.		CASING				
SCA6 25/7-6	2000-10-04	20	9.5	Equipment failure	DRIL-QUIP	DRIL-QUIP	Not able to obtain test on 9-5/8" casing hanger seal assembly. Attempted to re-set seal assembly without success. Retrieved seal assembly and jetted seal area. Reset sealassembly and tested successfully.	SERVICE EQUIPMENT/SYS	CASING	WELLHEAD	376.01	Wellhead	

DOWNTIME REPORT SCARABEO 6

Last 84 days

Inst. Wellname	Startdate	#	Sum hrs	Downtime Type	Responsible Contractor	Manufacturer	Short description	Equipment Type	Activity	Service Type	NSFI Code	NSFI Type	Serial Number
SCA6 25/7-6	2000-10-05	21	10,0	Equipment failure	SAIPEM S.P.A.	CAMERON NORGE	Attempting to release from seal assembly. Middle pipe rams closed on acoustic signal not noticeable on panel. Opened middle pipe rams and became free. Tested middle pipe rams and found them OK.	WELLCONTROL EQUIPMENT/SYS	DRILLING	DRILLING CONTRACTOR	332.00	Bop Control System	
SCA6 25/7-6	2000-10-06	22	1,0	Equipment failure	SAIPEM S.P.A.	TO BE NAMED	Lost suction on all mud pumps.	MUD AND BULK SYSTEMS	DRILLING	DRILLING FLUID	320.01	Drilling Fluids	
			Sum:	<u>245,0</u>									
			Total Sum:	<u><u>245,0</u></u>									

DAILY REPORT ON WELL 25/7-6

Daily report no : 1 **Date:** 2000-09-12
Midnight depth : m MD **Estimated PP:** sg **Mud weight:** 0,00 sg

Stop time Description

01:30 Pulling anchors on location 31/4-11. Last anchor on bolster at 01:30hrs.
 23:30 Under tow to new location 25/7-6.
 23:59 Approached location and started anchor handling.

Daily report no : 2 **Date:** 2000-09-13
Midnight depth : 225 m MD **Estimated PP:** sg **Mud weight:** 1,09 sg

Stop time Description

12:00 Running anchors on new location 25/7-6 while maintaining rig. Tested floor saver, crown'o'matic and crown saver. Changed washpipe, lost RPM read out on Top Drive. Checked panel and wash pipe - no success.
 13:30 Picked up cement stand and install 1 - BOP above side entry sub. MU 30" wellhead R/T on landing string, rack back.
 14:30 Tried to install old washpipe, no success regaining RPM read out.
 18:00 Picked up new BHA from deck, painted bit and 73,3m mark, programed MWD tool and RIH to 144m.
 19:00 Tested MWD, continued to RIH and tagged sea floor at 150m, ROV attempt to set marker buoys on sea floor- no success. Took penetration test.
 23:59 Spudded well 25/7-6 and drilled 36" hole from 150 to 217m pumping Hi-Vis pills to clean hole.

Daily report no : 3 **Date:** 2000-09-14
Midnight depth : 225 m MD **Estimated PP:** sg **Mud weight:** 1,09 sg

Stop time Description

00:00 Attempted to strap landing string, no success due to strong wind.
 01:00 Continued to drill 36" hole from 217 to 225,5m.
 01:30 Pumped and swept hole with 25m3 Hi-Vis mud.
 02:00 Performed wiper trip to 160m, RIH observed 1m fill, checked paint mark on pipe.
 03:00 Circulated and swept hole with 25m3 Hi-Vis pill, pumped and displaced hole to 1.5 SG mud
 04:30 POOH, serviced MWD and racked back BHA.
 06:00 Rigged up to run 30" conductor.
 08:00 Tested shoe joint and continued to run 30" conductor.
 10:30 Picked up R/T and made up to 30" housing. Ran through rotary and landed 30" in PGB. Released R/T and pulled back to rotary. Made up DP stinger to R/T and ran in and made up to 30" housing.
 12:00 Picked up 30" and PGB from trolley, removed trolley and fill up conductor with S.W, closed valves and checked same-OK. Oriented PGB, ran in on landing string, stabbed shoe into open hole.
 13:30 Continued to RIH with 30" and landed same with 2m stick up. Made up cmt hose to landing string and tested lines to 100bar - OK.
 15:00 Pumped 30m3 SW with rig pumps. Pumped 5m3 SW ahead of 24m3 1,56 SG lead and 22m3 1,95 SG tail slurries. Displaced with 4313 Litres SW.
 21:00 WOC.
 22:00 Released R/T and POOH with landing string and stinger, laid down R/T.
 22:30 Changed to drilling bails on Top Drive.
 23:00 Broke down and laid out 36" HO assy.
 23:59 Picked up and made up 26" bit and NBS. Painted white.

Daily report no : 4 **Date:** 2000-09-15
Midnight depth : 528 m MD **Estimated PP:** sg **Mud weight:** 1,07 sg

Stop time Description

01:00 RIH and stabbed into 30" wellhead.
 01:30 Continued to RIH and tagged firm cmt at 217m.
 03:00 Drilled shoe track and 30" shoe.
 03:30 Cleaned out rat hole and drilled 1m new formation. Swept hole with 25m3 Hi-Vis pill, circulated to clean hole.
 04:30 POOH with 26" bit, laid out bit and NBS.
 05:00 Picked up cement stand, laid out side entry sub and I-BOP.
 07:00 Picked up 18 3/4" wellhead, started install W.B, cement plugs and R/T. Laid out same
 08:00 Picked up 17 1/2" BHA.
 08:30 Anadrill dumped MWD data and programmed tool.
 09:00 Made up and installed guide ropes on guidelines.
 11:00 Ran in and stabbed into wellhead, continued to RIH and tagged bottom on 226m.
 16:30 Drilled 17 1/2" hole from 226 to 524m. Pipe stuck on bottom with full circulation.

DAILY REPORT ON WELL 25/7-6

Daily report no : 4 Date: 2000-09-15
 Midnight depth : 528 m MD Estimated PP: sg Mud weight: 1,07 sg

Stop time	Description
17:30	Not able to rotate and move pipe. Max OP 200T. Started jarring and increased OP to 250T - no go. Pumped Hi-Vis pill and circulated same at Hi-rate, attempted jarring - no success.
18:00	Displaced hole to 1.3 SG mud, continued to jar - no success.
19:30	Attempted to jar - no success. Not possible to cock jar. Circulated hole to SW at Hi rate, jars started to work. Jarred free and established rotation.
21:30	Racked back 1 std.DP, circulated with bit on 515m while checking crown and derrick and repairing Top Drive.
22:00	Confirmed string was free, made connection, pumped 5m3 Hi-Vis and worked pipe slowly to TD. Drilled 17 1/2" hole from 524 to 528m.
23:00	CDR tool failure, no gamma ray signal, swept hole with 10m3 Hi-Vis and displaced hole to 1,3 SG mud
23:59	POOH to change CDR.

Daily report no : 5 Date: 2000-09-16
 Midnight depth : 1180 m MD Estimated PP: sg Mud weight: 1,03 sg

Stop time	Description
00:30	Continued to POOH to change CDR. Laid down CDR.
01:00	Checked bit and stabilizers, painted bit white and made up guide ropes to drill string.
02:00	Picked up and made up new CDR, made up std. of DC'S and RIH, attached guide ropes to guide lines.
02:30	RIH, stabbed into wellhead, continued in hole to 202m, stopped and tested MWD.
06:00	Repaired Top Drive RPM, pipe handler manuall make and brake function, auto make up function, auto bloc extend, broken off dolly cabinett,broken electrical and hyd couplings.
06:30	RIH to 515m.
07:00	Washed and reamed from 515 to 528m, no fill.
23:59	Drilled 17 1/2" hole from 528 to 1180m. Hole packed off at 583m, observed 100T OP to get free.

Daily report no : 6 Date: 2000-09-17
 Midnight depth : 1345 m MD Estimated PP: sg Mud weight: 1,30 sg

Stop time	Description
05:00	Drilled 17 1/2" hole from 1180 to 1345m.
06:00	Finished circulating Hi-Vis pill and started wiper trip to 500m.
09:00	POOH for wiper trip. From 1200m took 30T OP. Pumped out to 1116m. POOH from 1116 to 1050m, took 10-15T OP. Pumped out from 1050 to 916m, continued to POOH to 330m.
12:30	RIH to 892m, washed and reamed to TD. Worked through tight spots from 925 to 992, from 1155 to 1158, from 1185 to 1202m and from 1240 to 1249m.
14:30	Pumped 15m3 Hi-Vis pill, displaced out and circulated to clean hole.
15:30	Displaced hole to 1.3 SG bentonite mud.
19:30	POOH to run casing. Observed 15-20T OP at 1297m, from 1097 to 1090m, from 1078 to 1060m, from 937 to 935m, from 908 to 904m and from 276 to 230m.
20:30	Made up cement head on std. DP, loaded head and racked back.
22:00	Rigged up to run 13 3/8" casing, held pre-job meeting.
23:00	Picked up shoe joint, checked float- OK. " Baker" Locked intermediate joint and innstalled guide ropes.
23:59	Attempted to repair casing tong electronics.

Daily report no : 7 Date: 2000-09-18
 Midnight depth : 1345 m MD Estimated PP: 1,03 sg Mud weight: 1,04 sg

Stop time	Description
02:00	Attempted to repair casing tong electronics. Changed out casing tongs. Perform SJA.
06:00	Made up intermediate and float collar joints "Baker" Locked same and continued to run casing. Obseved 10-12Ton resistance in open hole.
13:00	Continued to run 13 3/8" casing, tight hole from 270m, worked casing to 281m to be able to install circulating swedge. Circulated and worked casing down to 354m. Not able to work string deeper.
13:30	Circulated during helicopter arrival.
16:00	Pulled out with 13 3/8" casing to 85m.
16:30	Crane operation stopped due to helicopter arrival.
18:30	Continued to POOH with 13 3/8" casing, laid out float and shoe joints.
19:30	Rigged down casing equipment.
20:30	RIH with 17 1/2" BHA, downloaded CDR.
22:30	Continued to RIH with 17 1/2" BHA, installed guide ropes to guide lines and RIH to 229m.

DAILY REPORT ON WELL 25/7-6

Daily report no : 7 **Date:** 2000-09-18
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,04 sg

Stop time	Description
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23:59	Washed and reamed rat hole and 17 1/2" hole to 371m, pumped Hi-Vis pill and chased out of hole.
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Daily report no : 8 **Date:** 2000-09-19
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,40 sg

Stop time	Description
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16:00	Continued to wash and ream in hole as required, string tight on several connections, worked pipe and pumped Hi-Vis pills every 100m of washed and reamed sections
18:30	Pumped 20m3 Hi-Vis pill, circulated out and cleaned hole.
20:00	Displaced well to 1,4 SG mud.
23:59	Made wiper trip to 30" casing shoe.

Daily report no : 9 **Date:** 2000-09-20
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,40 sg

Stop time	Description
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01:00	Continued to RIH to TD, hole in good condition.
03:00	POOH to run 13 3/8" casing.
03:30	Worked tight hole from 305 to 287m.
04:00	Pumped out to 30" csg. shoe, worked through rat hole several times.
05:00	RIH to 305m, displaced hole to 1,4 SG mud, POOH to 30" csg. shoe, hole in very good condition.
06:30	Continued to POOH to run 13 3/8" casing, racked back BHA.
07:00	Cleaned up on rig floor.
08:00	Changed bails and elevator, rigged up to run 13 3/8" casing. Held pre-job meeting.
12:30	Picked up 13 3/8" shoe joint, checked same, RIH with intermediate and float joints, "Backer" Locked same. Installed 2 centralizers on shoe joint. RIH to 257m
13:30	Investigate problem with casing tong, rigged down and laid out same, rigged up manual/ hyd. casing tong.
16:00	Continued to run 13 3/8" casing from 257 to 371m, observed tight hole. Worked string in attempt to pass 371m, no success. Max OP 85T.
18:00	Pulled back to 368m, laid down joint no. 75 and picked up joint no. 74 with circ. swedge installed, and made up to csg. string. Unable to make up cement hose to circ. swedge due to weather/ excessive rig heave. Continued to work stuck csg.
23:59	WOW to make up cement hose and continue to work stuck casing.

Daily report no : 10 **Date:** 2000-09-21
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,40 sg

Stop time	Description
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05:30	Continued to WOW with 13 3/8" csg. stuck at 365m.
06:00	Hooked up swivel and hose to circ. swedge.
12:00	Broke circulation and brought up rate in stages, worked string free up increasing pump rate to 2580LPM. Washed down to 393m, string stood up in slips, latched elevator and continued to circulate and work string.
18:00	Continued to wash in hole to 405m. Attempted to RIH without circ.- no success. Installed circ. swedge and washed down to 417m, attempted to make connection-no success. Made up cmt. hose, circulated and worked hole.
23:59	Made conn. and continued to wash in hole to 490m. Circulated and worked hole prior to each connection to avoid csg. to stand up in slips due to significant rig heave. Pumped 1,4 SG mud in attempt to stabilize hole condition-no success.

Daily report no : 11 **Date:** 2000-09-22
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,40 sg

Stop time	Description
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00:30	Continued to circ. and work pipe in attempt to make connection. Weather condition deteriorated and rig heave to excessive to run casing.
10:30	WOW to run 13 3/8" casing while circulating SW.
11:00	Displaced annulus to 1,4 SG mud, rigged down cement hose and safety slings.
17:00	POOH with 13 3/8" casing, laid down same.
18:00	Rigged down casing running equipment.
23:59	WOW to receive 24" drilling equipment from boat.

DAILY REPORT ON WELL 25/7-6

Daily report no : 12 **Date:** 2000-09-23
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,04 sg

Stop time	Description
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02:00	WOW to receive 24" drilling equipment from boat. Performed rig maintainance, changed bails and elevators, changed sub and prepared Le Fleure.
08:30	Started to make up 24" drilling assembly, laid out CDR, made up guide ropes to guide lines and RIH.
23:59	Drilled / opened to 24" hole from 226 to 882m.

Daily report no : 13 **Date:** 2000-09-24
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,04 sg

Stop time	Description
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01:00	Continued to drill / open 24" hole from 882 to 920m.
02:00	Guidline no. 2 caught on rotating drill string and released from guide post. Worked wire free from string and pulled to surface.
12:30	Continued to drill / open to 24" hole from 920 to 1345 m.
14:30	Pumped 40m3 Hi-Vis mud and displaced to annulus. Pumped 10m3 SW dye pill and displaced hole with SW.
17:00	Made wiper trip from 1345 to 939m. Backreamed tight hole from 939 to 910m. Continued to pull out to 197m.
17:30	Repaired torq wrench die carrier on Top Drive, checked bolts on roller assemblies on dolly cluster.
23:59	RIH from 197 to 910m. Washed and reamed from 910m to 1345m, tagged bottom, 1,5m fill.

Daily report no : 14 **Date:** 2000-09-25
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,50 sg

Stop time	Description
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00:30	Circulated and cleaned hole.
05:00	Mixed and pumped 20m3 SW dye and mica pill, continued to pump 50m3 Hi-Vis pill and displaced hole to 1,5 SG glydrill mud.
08:00	Tagged bottom at 1337m, 8m fill. POOH to run 13 3/8" casing, broke off bit.
08:30	Cleaned up rig floor, laid down elevator and bails.
10:00	Rigged up to run to run 13 3/8" casing.
12:00	Repaired damaged casing tong.
18:30	Ran 13 3/8" casing to 490m.
23:59	Continued to run 13 3/8" casing from 490 to 1086 m.

Daily report no : 15 **Date:** 2000-09-26
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,32 sg

Stop time	Description
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01:00	Continued to run 13 3/8" casing from 1086 to 1172m.
01:30	Changed elevators and laid down Le Fleur.
02:30	Picked up wellhead assembly and made up same to csg. string.
03:00	Removed flush mounted spider and innstalled 20" master bushings.
04:00	Sat wellhead in master bushing and installed std of DP. Filled water between plugs and top of wellhead.
05:00	Continued to RIH with 13 3/8" casing on DP.
06:00	Picked up cement stand, installed cmt. hose and made up to landing string. Broke circulation and landed wellhead- OK. Took 30 T OP- OK
13:30	Build up circulating rate in steps to 1900LPM. Circulated bottoms up, observed pressure drop as annulus displaced to SW. Redused pump rate to 760LPM at 21 bar pump pressure.
19:30	Commenced 13 3/8" casing cement job, pumped 324,5m3 lead slurry followed by 12m3 tail slurry.
21:30	Dropped dart and pumped 10m3 FW, sheared out wiper plug after 1448Liter with 110 bars. Displaced cement and bumped plug after 4411 STKS. Pressure tested casing to 70 bars.
23:00	Disconnected wellhead R/T, laid out same with plug launcher.
23:59	Picked up 3 1/2" DP and RIH to check out 30" annulus for possible grout job.

Daily report no : 16 **Date:** 2000-09-27
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,45 sg

Stop time	Description
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02:00	Continued to RIH to check 30" annulus- neg, 2.5m tag up.
03:00	Washed and cleared guide plate and bull eyes- no change in direction and inclination - 1/2 deg.

DAILY REPORT ON WELL 25/7-6

Daily report no : 16 **Date:** 2000-09-27
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,45 sg

Stop time	Description
03:30	POOH with cement stinger.
05:00	Rigged up to run BOP and riser.
07:30	Picked up and made up marine riser double.
21:00	WOW to finish pick up and make up riser double. Pressure tested std.pipe, grey valve and kelly cocks, changed pump liners, checked EI-maco, mixed mud, installed new collexip hose, re-calibrated purge air and welded on guide rail cracks.
23:59	Continued to pick up and make up double riser joints, moved BOP under rotary , made up riser and prepared to run BOP.

Daily report no : 17 **Date:** 2000-09-28
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,45 sg

Stop time	Description
00:30	Prepared to run BOP.
06:00	Ran BOP through splash zone on riser double, continued to run BOP on riser.
06:30	Tested choke and kill lines to 35/690 bar.
10:30	Waiting on weather to lift slip joint.
11:00	Prepared to and lifted slip joint onto catwalk.
13:00	Installed slip joint. Picked up landing joint and lowered to install load ring.
14:00	Installed choke and kill line flexible hoses.
15:00	Installed Pod line saddles and clamps.
16:00	Flushed kill and choke lines and tested same to 35/690 bar.
17:00	Reconnected guide line no 2 to guide base, guide line no 1 detached from guide base. Prepared to move the rig.
18:00	Moved rig onto location. Reconnected guide line to guide base.
19:30	Landed BOP with 60 ton. Latched same and confirmed with 40 ton over pull.
20:00	Lined up and tested connector to 70 bar against shear ram,
21:30	Laid out landing joint. Installed diverter and pull tested same to 10 t.
22:00	Cleared rigfloor of excess equipment. Rigged down riser equipment and rigged up to run drill pipe.
23:59	Made up 9 5/8" casing hanger.

Daily report no : 18 **Date:** 2000-09-29
Midnight depth : 1345 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,45 sg

Stop time	Description
01:30	Made up 9 5/8" casing hanger to running tool. Made up plug launcher and racked assembly in derrick.
02:00	Picked up cement stand. Loaded dart and ball. Racked in derrick.
02:30	Laid out 3 joints HWDP and 3 joints of 5" drill pipe.
05:00	Laid out 24" BHA and made up 12 1/4" BHA.
07:30	Ran in hole to 970 m.
08:30	Function tested BOP and diverter lines.
09:30	Ran in hole from 970 m to top of plug at 1307 m.
11:30	Made up cement hose, flushed and tested kelly hose to 35/320 bar. Tested IBOP and kelly cock valve to 35/345 bar. Rigged down cement hose.
13:00	Drilled plugs and float collar. Reamed three times.
15:30	Drilled firm cement from 1307 m to shoe at 1331 m.
16:00	Cleaned out rathole to 1345 m.
16:30	Drilled 12 1/4" hole from 1345 m to 1347 m.
23:59	Pulled into shoe while cleaning shaker box and lines.

Daily report no : 19 **Date:** 2000-09-30
Midnight depth : 1562 m MD **Estimated PP:** 1,16 sg **Mud weight:** 1,45 sg

Stop time	Description
01:00	Attempted to clear overboard dump line.
06:00	Removed elbow on overboard dump line.
06:30	Circulated 3495 lpm, 282 bar and 150 rpm.
07:00	Ran in hole to bottom. 3 m fill washed and reamed to 1347 m.
07:30	Drilled 12 1/4" hole from 1347 m to 1350 m.
08:00	Circulated clean prior to LOT.
09:00	Pulled into shoe and performed LOT to EMW 1.60 SG.

DAILY REPORT ON WELL 25/7-6

Daily report no : 19 Date: 2000-09-30
 Midnight depth : 1562 m MD Estimated PP: 1,16 sg Mud weight: 1,45 sg

Stop time	Description
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09:30	Took SCR.
10:00	Washed and reamed from 1331 m to 1350 m.
23:59	Drilled 12 1/4" hole from 1350 m to 1562 m.

Daily report no : 20 Date: 2000-10-01
 Midnight depth : 1891 m MD Estimated PP: 1,03 sg Mud weight: 1,45 sg

Stop time	Description
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17:30	Drilled 12 1/4" hole from 1562 m to section TD at 1891 m.
19:30	Circulated hole clean and conditioned mud.
23:59	Pumped OOH from 1891 m to 1420 m. Had constant overpulls of 25 ton when not circulating.

Daily report no : 21 Date: 2000-10-02
 Midnight depth : 1891 m MD Estimated PP: 1,03 sg Mud weight: 1,50 sg

Stop time	Description
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00:30	Pumped OOH from 1420 m to 13 3/8" casing shoe at 1331 m.
01:00	Rigged up chucksans to circulate while slip and cut.
02:30	Slipped and cut drilling line. At same time circulated bottoms up and spotted KCL pill around BHA.
03:00	Ran in hole to 1345 m. Stood up at intersection between 24" and 12 1/4" hole. Had difficulties finding original path. Heavy reaming and several passes required to be able to pass. Washed and reamed to 1439 m.
05:30	Ran in hole from 1439 m to 1879 m. 12 m fill on bottom.
06:00	Washed and reamed to section TD 1891 m.
08:00	Circulated bottoms up. Large amount of small cavings on shakers. Not able to circulate clean. Amount and size of cavigs increasing.
12:00	Increased mudweight from 1.45 SG to drilling ECD 1.50 SG based on sloughing shales. Circulated well clean.
13:30	POOH to 13 3/8" casing shoe at 1331 m. Hole in good condition.
15:00	Flow checked. Made check pass through 24" by 12 1/4" intersection at 1345 m. OK. POOH to 153 m.
18:00	POOH with BHA. Removed diverter bag. Broke and laid out bit and near bit stabilizer.
20:30	RIH with multipurpose tool. Jetted BOP and well head area. Retrieved wear bushing with 30 ton overpull. POOH and laid out wear bushing.
23:00	Rigged up for casing running. Changed bails, installed La Fleur circulating tool, casing tong, BX elevators and flush mounted spider slips. Made up safety valve to 9 5/8" swedge.
23:59	Held prejob safety meeting. Picked up shoe track. Tack welded connection.

Daily report no : 22 Date: 2000-10-03
 Midnight depth : 1891 m MD Estimated PP: 1,03 sg Mud weight: 1,50 sg

Stop time	Description
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01:30	Made up 9 5/8" shoetrack. Tack welded connections.
13:00	Ran in hole with 9 5/8", 53,5 ppf L-80 casing to 1329 m.
13:30	Broke circulation with 2000 lpm.
17:30	Ran in open hole with casing from 1329 m to 1732 m.
18:30	Laid out circulating tool and changed to 5" handling equipment. Picked up 9 5/8" hanger. Ran hanger below table, inserted master bushings and laid out pup joint.
19:30	Ran in hole with casing on HWDP from 1732 m to 1834 m. Took 15 ton weight.
22:30	Washed down from 1834 m to 1864 m. Tendency to pack off.
23:30	POOH to 1839 m. Chaged out pup joint to whole drill pipe.
23:59	Washed down to 1864 m.

Daily report no : 23 Date: 2000-10-04
 Midnight depth : 1891 m MD Estimated PP: 1,03 sg Mud weight: 1,50 sg

Stop time	Description
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08:00	Washed down from 1864 m to 1884 m. Hole showing tendency to pack off. Landed string with shoe at 1884 m. Good indication of landing. Confirmed depth with lazer line.
08:30	Circulated hole with 1500 lpm, no losses.
09:30	Rigged up low torque valve on cement swivel. Circulated 1000 lpm while installing cement hose

DAILY REPORT ON WELL 25/7-6

Daily report no : 23 **Date:** 2000-10-04
Midnight depth : 1891 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,50 sg

Stop time	Description
10:00	Pressure tested lines to 25/200 bar and held prejob safety meeting.
12:00	Pumped 10 m3 freshwater, dropped ball and pumped 15,4 m3 1,9 SG cement. Dropped dart, pumped 2 m3 freshwater. Displaced it all with 1,5 SG mud at 2000 lpm/63 bar. Cut cate back to 1800 lpm/43 bar due to slight losses. Bumped plug.
13:00	Tested casing to 175 bar/15 min. Bled down pressure and inflow tested floats. Rigged down cement hose. Set seal assembly.
14:00	Tested seal assembly to 175 bar/15 min. No success. Pressure dropped held 2 min. then bled off. Reset seal assembly. Attempted to retest. No pressure build up.
15:00	Picked up string 7 m. Broke circulation with 350 lpm. Attempted to RIH. No go. Increased circulation rate to 1800 lpm/18 bar. RIH to 3 m above land off and circulated bottoms up from wellhead.
15:30	Landed and reset seal assembly. Attempted to test. No success.
17:00	Racked back cement stand. POOH with running tool.
18:30	Laid out running tool and plug launcher. Changed bails and elevators. Laid out 2 singles. Made up jetting sub.
20:00	Ran in hole with mill and flush tool with 5 std HWDP and jetting sub below.
21:00	Washed and milled seal assembly area and circulated clean.
21:30	POOH with mill and flush tool and laid it out.
22:30	Made up seal assembly and RIH with same. Landed and set same.
23:59	Tested seal assembly to 200 bar (19 l pumped). Tested BOP to 35/175 bar for 5/10 min.

Daily report no : 24 **Date:** 2000-10-05
Midnight depth : 1891 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,50 sg

Stop time	Description
01:30	Pressure tested BOP.
02:30	Attempted to release from seal assembly. Max overpull 110 t. Worked on and off, eventually released and moved up 2 m.
04:00	Not able to come up or down. Max over pull 125 ton. Attempting to come down with string weight and 60 t hydraulic force (annular closed applied 40 bar down kill line). No go.
05:30	Changed to long bails. Installed swedge and cement hose.
06:00	Attempted to break circulation. Pressure 24 bar after 90 l. Checked lines for obstruction. OK.
07:00	Not able to make up hose again. Changed swivel and reconnected hose.
09:00	Took 15 t overpull and attempted to turn string with rig tong. No go.
10:00	Confirmed circulation through kill and choke line again. Closed bleed off and applied 55 bar (218 l pumped) of hydraulic force and full string weight. No go. Bled off pressure.
10:30	Functioned middle pipe ram. Observed reduced operating volume. Dumped acoustic accumulator and function tested middle pipe rams. String dropped 2 m. Circulated through choke line and confirmed returns to trip tank. String free.
11:30	POOH with seal assembly running tool and laid out same. POOH 5 stands of HWDP and racked them back. Laid out jetting sub.
12:00	Cleaned drill floor and prepared wear bushing for running.
13:00	Made up wear bushing and cup tester. RIH on HWDP and landed it with 8 ton. Took 5 ton o/p to confirm landing.
14:00	Closed middle pipe rams using acoustic. Pressure tested to 25/175 bar for 5/10 minutes. OK. Opened rams with acoustic.
15:00	Released from wear bushing with 13 ton o/p and POOH with running tool. Laid out same.
15:30	Changed over to drilling bails and hydraulic elevators.
16:00	Picked up 9 5/8" casing hanger running tool. Broke down and laid out same.
17:00	Picked up cement stand. Broke down and laid out cement head.
21:30	Broke down and laid out 12 1/4" drilling assembly.
23:59	Made up 8 1/2" rotary assembly.

Daily report no : 25 **Date:** 2000-10-06
Midnight depth : 2006 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
01:00	Made up 8 1/2" rotary assembly. Tested MWD.
04:30	RIH and tagged top of cement at 1819 m.
05:00	Broke circulation, washed soft cement to 1827 m.
05:30	Pulled back above top of cement and performed choke drill with drilling crew.
10:00	Drilled soft cement from 1827 m to float collar at 1848 m. Drilled float, shoetrack, shoe at 1884 m and cleaned rathole to 1891 m.
11:30	Drilled new formation from 1891 m to 1895 m.
13:00	Pumped 8 m3 of freshwater hi-vis pill and displaced to 1.20 SG sulphate free mud.
13:30	Rotated and reciprocated pipe while cleaning flow lines and header box.
14:00	Circulated and conditioned mud.

DAILY REPORT ON WELL 25/7-6

Daily report no : 25 **Date:** 2000-10-06
Midnight depth : 2006 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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15:00	Pulled back to 1880 m. Closed BOP and performed leak off test to EMW 1,65 SG.
18:30	Drilled 8 1/2" hole from 1895 m to 1929 m.
19:30	Lost suction on all mud pumps.
23:59	Drilled 8 1/2" hole from 1929 m to 2006 m.

Daily report no : 26 **Date:** 2000-10-07
Midnight depth : 2070 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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03:30	Drilled 8 1/2" hole from 2006 m to core point at 2061 m.
04:30	Circulated well clean.
06:00	POOH from 2061 to casing shoe at 1884.
09:00	POOH from 1884 m to surface.
09:30	Downloaded MWD. Racked assembly in derrick.
12:00	Made up 60 ft core barrel assembly for run no 1. RIH on 6 1/2" drill collars to 165 m.
15:00	Ran in hole on drill pipe from 165 m to 2061 m.
23:00	Circulated prior to coring. Sulphate level 69-83 mg/l.
23:59	Dropped 1 1/4" ball and circulated it down. Started cutting core no 1 from 2061 m to 2070 m.

Daily report no : 27 **Date:** 2000-10-08
Midnight depth : 2210 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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00:30	Continued cutting core no 1 from 2070 m to 2079 m.
02:00	Pumped slug and POOH to 9 5/8" casing shoe at 1884 m.
07:30	Flow checked and POOH with core no 1 to 270 m.
09:30	Conducted safety meeting and recovered core no 1.
11:00	Made up core barrel with new inner tubes and ran in hole to 133 m.
11:30	POOH, broke core head and racked back core barrel.
13:00	Picked up 8 1/2" drilling assembly. Initialized tools. Ran in hole with BHA to 226 m.
16:30	Ran in hole to 2057 m.
17:00	Reamed/logged cored section from 2057 m to 2079 m.
23:59	Drilled 8 1/2" hole from 2079 m to 2210 m.

Daily report no : 28 **Date:** 2000-10-09
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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02:00	Drilled 8 1/2" hole from 2210 m to TD at 2250 m.
03:30	Circulated well clean.
07:00	Flow checked and POOH to BHA.
08:30	POOH with bottom hole assembly. Broke down and laid out same.
09:30	Laid out coring assembly from derrick.
11:00	Rigged up sheaves for wireline operation. Held prejob safety meeting. Made up logging suite no 1. PEX/HALS/DSI
17:00	Logged PEX/HALS/DSI in open hole.
18:00	Laid out logging suite no 1.
19:00	Made up logging suite no 2. GR/MDT.
23:59	Performed GR/MDT logging. 11 pressure points and a total of 11 stations.

Daily report no : 29 **Date:** 2000-10-10
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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01:00	Laid out GR/MDT logging tools.
06:00	Performed VSP logging.
07:30	Laid out VSP assembly and rigged down wireline sheaves.
08:30	Made up cement stand and racked same.

DAILY REPORT ON WELL 25/7-6

Daily report no : 29 **Date:** 2000-10-10
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
10:00	Made up 3 1/2" muleshoe and ran in hole on 11 stands 3 1/2" drill pipe.
13:00	Ran in hole to TD 2250 m on 5" drill pipe.
13:30	Circulated bottoms up.
14:30	Installed cement hose. At the same time performed prejob safety meeting.
16:00	Pumped 5 m3 of fresh water spacer and 11 m3 1.90 SG cement followed by 1,9 m3 fresh water. Displaced with 1,20 SG mud to spot cement plug no 1 from 2250 m to 2000 m.
17:00	POOH slowly from 2250 m to 2000 m. Rigged up to reverse circulate.
17:30	Broke circulation conventionally, then reverse circulated out excess cement. Dumped 6 m3 of cement contaminated mud.
19:00	Pressure tested hose to 200 bar/5 min. Pumped 5 m3 of fresh water and 11 m3 of 1.90 SG cement followed by 1,9 m3 fresh water. Displaced with 1,20 SG mud to spot cement plug no 2 from 2000 m to 1702 m.
20:00	POOH slowly from 2000 m to 1669 m. Installed cement stand and ran in hole to 1685 m.
21:00	Broke circulation conventionally, then reverse circulated out excess cement with 1450 l/m and 75 bar. Dumped 6 m3 of cement contaminated mud.
21:30	Rigged down cement hose. Dropped drill pipe dart and displaced same down. Flow checked and pumped slug.
22:00	POOH from 1685 m to 1469 m.
22:30	Rigged up BX hydraulic elevators for laying out 5" drill pipe.
23:59	POOH from 1469 m to 1148 m while laying out 5" drill pipe.

Daily report no : 30 **Date:** 2000-10-11
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
04:00	POOH from 1148 m to 565 m while laying out 5" drill pipe.
05:00	Changed to 3 1/2" handling equipment. POOH with 3 1/2" cement stinger. Laid out muleshoe.
06:30	Changed to 5" handling equipment. Made up 8 1/2" dress off assembly and ran in hole.
09:00	Ran in hole with dress off assembly to 1625 m.
10:30	Installed topdrive and washed down. Tagged cement at 1755 m. Load tested cement to 15 ton.
12:30	Pumped slug and POOH.
14:00	Held safety meeting and POOH while laying out 30 joints 5" drill pipe.
15:30	POOH and laid out 2 drill collars and jar. At the same time pressure tested cement plug to 153 bar.
17:00	Make up 9 5/8" bridge plug and ran in hole to setting depth 452 m.
17:30	Made up topdrive and set bridge plug with 200 bar at 452 m.
18:00	Pressure tested plug to 153 bar.
19:00	POOH with plug setting tool.
21:30	Made up wear bushing retrieving tool and ran in hole with same. Jetted prior to engaging wear bushing. Released wear bushing with 27 ton over pull and retrived same to surface. Laid out tool.
23:30	Made up casing cutter assembly, ran in hole and landed Marine swivel in wellhead.
23:59	Established circulating rate for knives and baseline rotating torque in annular preventer. Cut 9 5/8" casing at 439 m with 100 rpm / 550 daNm and 60 bar. Good indication of cut : torque dropped to 200 daNm and pressure to 38 bar.

Daily report no : 31 **Date:** 2000-10-12
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
00:30	Flow checked well 15 min on trip tank. Pumped slug.
02:00	POOH with casing cutter assembly and laid out same.
04:00	Made up 9 5/8" spear assembly and ran in hole with same. Engaged 9 5/8" casing and pulled same free with 30 ton over pull.
04:30	Flow checked well. Pumped slug. Pulled above BOP.
06:00	Well started u-tubing. Mixed and pumped another slug. Still u-tubing. Circulated to even mud weight.
07:00	POOH with 9 5/8" casing
08:30	Attempted to release spear no go. Broke csg pup and racked back in derrick
11:00	Continued POOH and laid down 26 joints of 9 5/8" csg
13:00	Laid down 9 5/8" csg hanger and 9 5/8" casing spear
15:00	RIH w/ 13 3/8" bridge plug on drillpipe. Set same at 436 meter. Pressure tested to 70 bar ok
16:30	Pumped 10m3 of fresh water spacer and 19,3m3 of 1.95 sg cement followed by 226 ltrs of fresh water. Displaced same with 900 ltrs of 1.2 sg mud to spot cement plug no 3 from 436 m to 175 m.
17:00	POOH to 175 m. Rigged up cement stand and cement hose
20:00	Reverse circulated out excess cement. Dumped 5m3 contaminated mud/spacer. Displaced kill/choke lines and riser to seawater
21:00	Made up jetting sub and RIH. Washed BOP area POOH

DAILY REPORT ON WELL 25/7-6

Daily report no : 31 **Date:** 2000-10-12
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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22:30	Rigged up to pull BOP
23:59	Laid out diverter, Made up landing joint and held pre-job safety meeting

Daily report no : 32 **Date:** 2000-10-13
Midnight depth : 2250 m MD **Estimated PP:** 1,03 sg **Mud weight:** 1,20 sg

Stop time	Description
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00:30	Collapsed and locked slip joint. Prepared for unlatching BOP
01:30	Unlatched wellhead connector. Pulled BOP above guide post and moved rig 10 m aft of location.
04:00	Rigged down pod hose saddles choke/kill line and riser tensioners
05:00	Picked up and engaged support ring to hosing. Released slip joint. Picked up BOP in spider. Laid out landing joint.
06:30	Picked up slipjoint to spider. Rigged up to turn BOP 1/4 degree. Landed slip joint in spider. Broke out and laid out.
08:00	Pulled BOP on marine riser. Laid out 4 riser joints an 2 pup joints
10:00	Prepared BOP transporter and pulled BOP through splash zone. Secured same in moonpool.
13:00	Removed guide lines and pod clamps. Pressure tested H4 connector as per modu spec report item 29.
15:00	Unlatched, checked and serviced LMRP as per modu spec report item 28.
15:30	Pressure tested BOP connector against shear rams to 340 bar.
17:00	Broke out double riser and skidded BOP to parking position.
18:30	Rigged down BOP / riser handling equipment.
22:00	Made up 20x30" Cutting assy and RIH. Stabbed assy into wellhead assisted by ROV, landed with 6 ton took 20 ton pulltest ok.
23:59	Cut 20 x 30" casing

Daily report no : 33 **Date:** 2000-10-14
Midnight depth : 0 m MD **Estimated PP:** sg **Mud weight:** 1,20 sg

Stop time	Description
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01:00	Continued to cut 20x30" casing. Observed pressure increase from 83 to 105 bar. Picked guidebase clear of seabed with 40 ton overpull. Made seabed inspection with ROV.
01:30	Handed rig over to Marine department: Simultaneously POOH with guidebase
06:00	Commenced anchorhandling operation. Pulled wellheads and guidebase to surface and secured on transporter. Removed guidelines and post from guidebase while laying down cutter assy from drillfloor. Deballasted rig to 50 ft at 03:00 hrs.
16:00	Continued anchorhandling, last anchor on bolster at 15:50 hrs
23:59	End of well 25/7-6. En route to new location 6407/7-6

TIME DISTRIBUTION

Well: 25/7-6 PO: 1 Start date: 1980-01-01 Rig: SCARABEO 6 Depth: 2250,0 m MD
 All sections Stop date: 2000-12-05

Operations	Hours	%	Hours	%	Acc. total
MOBILIZATION					
MOVING	22,0	2,81			
MOORING; RUNNING ANCHORS	12,5	1,60			
MOORING; PULLING ANCHORS	15,0	1,92			
Sum.....			49,5	6,33	49,5
DRILLING					
BHA HANDLING/TESTING	28,0	3,58			
TRIPPING IN CASED HOLE	19,5	2,49			
TRIPPING IN OPEN HOLE	10,0	1,28			
DRILLING	90,0	11,50			
OTHER	3,0	0,38			
CIRC. AND COND. MUD/HOLE	25,0	3,19			
WIPER TRIP	15,5	1,98			
CASING HANDLING/TESTING	15,5	1,98			
RUNNING CASING IN CASED HOLE	19,5	2,49			
RUNNING CASING IN OPEN HOLE	41,0	5,24			
DRILLING OUT OF CASING	3,0	0,38			
PRIMARY CEMENTING	17,5	2,24			
TRIPPING FOR CEMENT JOB	1,0	0,13			
DRILLING OUT CEMENT PLUG	9,5	1,21			
FORMATION STRENGTH TESTING	2,5	0,32			
BOP HANDLING	5,0	0,64			
BOP RUNNING/RETRIEVING	16,0	2,04			
BOP TESTING	7,0	0,89			
WELLHEAD EQUIPMENT HANDLING	10,5	1,34			
SET CEMENT PLUG	3,5	0,45			
SLIP AND CUT DRILLING LINE	1,5	0,19			
Sum.....			344,0	43,96	393,5
FORMATION EVALUATION LOGGING					
LOGGING	16,0	2,04			
LOGGING EQUIPMENT HANDLING/TESTING	6,0	0,77			
Sum.....			22,0	2,81	415,5
FORMATION EVALUATION CORING					
BHA HANDLING/TESTING	5,0	0,64			
TRIPPING IN CASED HOLE	12,0	1,53			
CORING EQUIPMENT/CORE HANDLING	4,0	0,51			
TRIPPING IN OPEN HOLE	2,0	0,26			
CORING	1,5	0,19			
CIRC. AND COND. MUD/HOLE	8,0	1,02			
Sum.....			32,5	4,15	448,0
PLUG AND ABANDONMENT					
BHA HANDLING/TESTING	3,0	0,38			
TRIPPING IN CASED HOLE	13,0	1,66			
OTHER	2,0	0,26			
CIRC. AND COND. MUD/HOLE	4,5	0,58			
TRIPPING FOR CEMENT JOB	8,5	1,09			
DRILLING OUT CEMENT PLUG	1,5	0,19			
BOP HANDLING	15,0	1,92			
BOP RUNNING/RETRIEVING	6,0	0,77			
BOP TESTING	0,5	0,06			
WELLHEAD EQUIPMENT HANDLING	2,5	0,32			
SET CEMENT PLUG	9,0	1,15			
SET MECHANICAL PLUG	5,5	0,70			
TRIPPING OF CASING CUTTING EQUIPMENT	9,5	1,21			
CUT CASING/WELLHEAD	4,0	0,51			
CASING RETRIEVING	5,0	0,64			
Sum.....			89,5	11,44	537,5

TIME DISTRIBUTIONWell: 25/7-6
All sections

PO: 1

Start date: 1980-01-01
Stop date: 2000-12-05

Rig: SCARABEO 6

Depth: 2250,0 m MD

Operations	Hours	%	Hours	%	Acc. total
DOWNTIME DRILLING					
EQUIPMENT FAILURE AND REPAIR	54,5	6,96			
WAITING	53,5	6,84			
STICKING/GOING STUCK WITH EQUIPMENT	135,0	17,25			
OTHER	2,0	0,26			
Sum.....			245,0	31,31	782,5
Reported time (100,0 % of well total 782,5 hours) :					782,5

HOLE DEVIATION

Well: 25/7-6 Reference point: RKB ; 26,0 m ABOVE MSL
 Waterdepth: 124,0 m Vertical to: 149,9 m Total Depth: 2250,0 m MD
 Utm zone: 31 Central Median: 3' E Horizontal datum: ED50
 Template Centre Coordinates, UTM: North : m, East: m
 Wellhead Coordinates, UTM: North : 6594908,80 m, East: 443948,00 m
 Official Surveys: Y Track :
 Coordinates are measured from the wellhead centre.

Depth MD [m]	Inclination [Deg]	Direction [Deg]	Tool Type	#	Depth TVD [m]	Coordinates		Vert. Sect [m]	Dogleg [D/30m]	Build [D/30m]	Turn [D/30m]
						North [m]	East [m]				
153,7	0,14	290,03	MWD	5	153,7	0,00	0,00	0,0	0,00	0,00	0,00
163,4	0,38	45,07	MWD	5	163,4	0,03	0,01	0,0	1,41	0,74	355,79
172,2	0,42	49,28	MWD	5	172,2	0,07	0,06	0,1	0,17	0,14	14,24
181,7	0,64	39,18	MWD	5	181,7	0,13	0,12	0,2	0,75	0,69	-31,89
191,2	1,01	52,60	MWD	5	191,2	0,22	0,22	0,3	1,32	1,17	42,56
201,5	0,89	57,15	MWD	1	201,5	0,32	0,36	0,5	0,41	-0,35	13,28
207,8	0,99	59,50	MWD	5	207,8	0,38	0,44	0,6	0,51	0,48	11,23
236,5	1,14	67,68	MWD	5	236,5	0,61	0,92	1,1	0,22	0,16	8,55
322,6	1,43	84,59	MWD	5	322,6	1,04	2,78	3,0	0,17	0,10	5,89
409,1	1,11	101,88	MWD	5	409,0	0,97	4,68	4,8	0,17	-0,11	6,00
438,3	1,33	91,48	MWD	5	438,2	0,90	5,29	5,4	0,32	0,23	-10,69
466,9	1,39	110,77	MWD	5	466,9	0,77	5,95	6,0	0,48	0,06	20,20
494,3	1,09	112,64	MWD	5	494,2	0,55	6,50	6,5	0,33	-0,33	2,05
524,4	1,28	123,36	MWD	5	524,3	0,26	7,05	7,1	0,29	0,19	10,68
583,0	0,96	79,72	MWD	5	582,9	-0,02	8,08	8,1	0,45	-0,16	-22,35
667,8	1,08	72,07	MWD	5	667,7	0,36	9,54	9,5	0,06	0,04	-2,71
697,0	1,06	91,75	MWD	5	696,9	0,43	10,07	10,1	0,38	-0,02	20,19
782,8	0,66	84,53	MWD	5	782,7	0,46	11,35	11,4	0,14	-0,14	-2,52
866,7	0,86	95,66	MWD	5	866,5	0,44	12,46	12,5	0,09	0,07	3,98
954,2	0,83	103,28	MWD	5	954,0	0,23	13,73	13,7	0,04	-0,01	2,61
1040,7	0,14	344,66	MWD	5	1040,5	0,19	14,31	14,3	0,31	-0,24	-41,14
1126,2	0,52	297,68	MWD	5	1126,0	0,47	13,94	13,9	0,15	0,13	-16,48
1182,5	0,35	304,83	MWD	5	1182,4	0,69	13,57	13,6	0,09	-0,09	3,81
1239,8	0,48	296,55	MWD	5	1239,6	0,89	13,21	13,2	0,07	0,07	-4,34
1268,6	0,23	187,63	MWD	5	1268,4	0,89	13,10	13,1	0,62	-0,26	-113,42
1297,1	0,40	281,24	MWD	5	1296,9	0,85	12,99	13,0	0,50	0,18	98,64
1325,8	0,15	187,37	MWD	5	1325,6	0,83	12,89	12,9	0,46	-0,26	-98,05
1369,3	0,60	51,80	MWD	5	1369,2	0,92	13,06	13,1	0,49	0,31	-93,45
1387,8	0,47	48,57	MWD	5	1387,7	1,03	13,20	13,2	0,22	-0,21	-5,23
1417,1	0,31	42,25	MWD	5	1416,9	1,17	13,34	13,4	0,17	-0,16	-6,48
1446,0	0,29	65,12	MWD	5	1445,9	1,26	13,46	13,5	0,12	-0,02	23,71
1476,4	0,48	49,90	MWD	5	1476,3	1,37	13,62	13,7	0,21	0,19	-15,01
1504,8	0,54	53,02	MWD	5	1504,6	1,53	13,82	13,9	0,07	0,06	3,30
1532,6	0,60	48,46	MWD	5	1532,4	1,70	14,04	14,1	0,08	0,06	-4,92
1562,3	0,64	44,57	MWD	5	1562,1	1,92	14,27	14,4	0,06	0,04	-3,93
1590,1	0,54	50,97	MWD	5	1589,9	2,12	14,48	14,6	0,13	-0,11	6,91

HOLE DEVIATION

Well: 25/7-6 Reference point: RKB ; 26,0 m ABOVE MSL
 Waterdepth: 124,0 m Vertical to: 149,9 m Total Depth: 2250,0 m MD
 Utm zone: 31 Central Median: 3' E Horizontal datum: ED50
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Depth MD [m]	Inclination [Deg]	Direction [Deg]	Tool Type	#	Depth TVD [m]	Coordinates		Vert. Sect [m]	Dogleg [D/30m]	Build [D/30m]	Turn [D/30m]
						North [m]	East [m]				
1618,7	0,65	48,33	MWD	5	1618,5	2,31	14,71	14,9	0,12	0,12	-2,77
1647,4	0,56	52,88	MWD	5	1647,2	2,50	14,94	15,1	0,11	-0,09	4,76
1675,8	0,61	55,96	MWD	5	1675,6	2,67	15,17	15,4	0,06	0,05	3,25
1702,5	0,67	60,35	MWD	5	1702,3	2,83	15,43	15,7	0,09	0,07	4,93
1731,8	0,67	56,52	MWD	5	1731,6	3,01	15,72	16,0	0,05	0,00	-3,92
1758,9	0,45	57,99	MWD	5	1758,8	3,15	15,94	16,3	0,24	-0,24	1,62
1787,8	0,61	52,90	MWD	5	1787,6	3,30	16,16	16,5	0,17	0,17	-5,29
1816,8	0,70	54,83	MWD	5	1816,6	3,50	16,43	16,8	0,10	0,09	1,99
1844,9	0,66	62,82	MWD	5	1844,7	3,67	16,71	17,1	0,11	-0,04	8,54
1867,1	0,77	58,45	MWD	5	1866,9	3,81	16,95	17,4	0,17	0,15	-5,91
1897,7	0,79	62,30	MWD	5	1897,5	4,01	17,32	17,8	0,05	0,02	3,77
1926,3	0,89	54,70	MWD	5	1926,1	4,23	17,67	18,2	0,16	0,10	-7,97
1951,8	0,87	54,63	MWD	5	1951,6	4,46	17,99	18,5	0,02	-0,02	-0,08
1980,6	0,97	57,16	MWD	5	1980,4	4,72	18,38	19,0	0,11	0,10	2,64
2009,1	1,07	52,90	MWD	5	2009,0	5,01	18,79	19,4	0,13	0,11	-4,48
2039,0	1,20	51,88	MWD	5	2038,8	5,37	19,26	20,0	0,13	0,13	-1,02
2067,1	1,11	55,21	MWD	5	2066,9	5,71	19,71	20,5	0,12	-0,10	3,56
2093,8	1,08	48,67	MWD	5	2093,6	6,02	20,12	21,0	0,14	-0,03	-7,34
2123,1	1,06	48,52	MWD	5	2122,9	6,38	20,53	21,5	0,02	-0,02	-0,15
2153,1	1,09	45,47	MWD	5	2152,9	6,77	20,94	22,0	0,06	0,03	-3,04
2180,8	1,06	53,52	MWD	5	2180,5	7,10	21,33	22,5	0,17	-0,03	8,74
2209,0	1,15	50,81	MWD	5	2208,8	7,44	21,76	23,0	0,11	0,10	-2,88
2231,9	1,06	42,74	MWD	5	2231,7	7,74	22,08	23,4	0,24	-0,12	-10,58

MAIN CONSUMPTION OF CASING/TUBING ON WELL 25/7-6 PO: 1

Size	Casing string	Grade	Weight		Threads type	Length [m]	No. of joints
			[kg/m]	[lb/ft]			
30"	CONDUCTOR	X-52	460,86	309,70	QUICK STAB	75,0	6
13 3/8"	INTERMEDIATE	L-80	107,14	72,00	NS-CC	1184,0	96
9 5/8"	PRODUCTION	L-80	79,61	53,50	NS-CC	1737,7	148

BIT RECORD FOR WELL 25/7-6 PO: 1

No	Bit RR Type	Size (in)	Manu- fact- urer	Trade name	Serial no.	IADC code	Nozzles diameter (.32in)	Flow area (in ²)	BHA no.	Depth out (m MD)	Bit meter (m)	Rot. hours (hrs)	ROP (m/hr)	Rotation mini/max (rpm)	Total bit revol.	Weight mini/max (kN)	Flow mini/max (l/min)	Pump mini/max (bar)	Cutting Structure I - O - DC - L - B	Gauge 1/16 (in)	Other Remarks	Pull Cause
1	BIT	17.50	HTC		1111111		23,23,23,23	1,623	1	225	75	11,70	6,4	67/127	69	0/9	2431/4656	51/201	1 - 1 - BT - C - 2	1	NO	TD
2	HO	36.00	TRIS	RAPIDRILL	21461			0,000	1	225	75		0,0	67/127		0/9	2431/4656	51/201				
3	1 MITO	26.00	HTC	GTXC3MG1	22222222	115M	18,18,18,24	1,187	2	226	1		0,0		0							
3	1 SRT	17.50	HTC	MXT03DX	L22DD	415	14,16,22,22	1,089	3	528		3,70	0,0	80/100	6	4/9	3523/3899	175/216	0 - 0 - NO - A - X	1	NO	DTF
3	1 SRT	17.50	HTC	MXT03DX	L22DD	415	14,16,22,22	1,089	4	1345	817	16,30	50,1	50/100	64	0/23	3489/4588	35,7/217	1 - 1 - NO - A - 1	1	NO	TD
3	2 SRT	17.50	HTC	MXT03DX	L22DD	415	14,16,22,22	1,089	5	1345	0		0,0	60/75	0	0/5	3800/4200	150/160				
4	1 SRT	24.00	HTC	GTXC3M00	L08DJ	415	18,18,20,20,20	1,666	6	1345	1119	19,90	56,2	82/132	121	3/12	4141/4576	190/230	1 - 1 - NO - A - 1	1	NO	TD
5	1 SRT	12.25	HTC	MXC09DX	B76DG	437	16,16,16,24	1,031	7	1891	546	24,20	22,6	125/163	172500		2930/3600	210/310	2 - 2 - ER - G - 0	1	BT	TD
6	PDC	8.50	HTC	BD445P	1902971	M333	15,15,15,15	0,690	8	2061	170	8,70	19,5	59/135	61000	2/90	707/2561	76/214	1 - 1 - NO - A - X	1	NO	CP
7	CORE	8.50	SDBS	FC264RILI	7971196	M233	17,17,17,17,17	1,350	9	2079	18	0,80	22,5	72/118	4900	25/60	963/1000	45/60	1 - 2 - NO - A - X	1	NO	NC
8	1 PDC	8.50	HTC	BD445P	1902971	M333	15,15,15,15	0,690	10	2250	171	6,60	25,9	91/137	52800	1/56	2493/2522	169/175	1 - 2 - BT - S - X	1	NO	TD

BOTTOM HOLE ASSEMBLIES USED ON WELL 25/7-6 PO: 1

BHA no. 1:		No. / Element / OD(in) / Length(m)		Depth In: 150 m MD		Out: 225 m MD	
1	BIT NAME	17,5	0,42	2	RAPIDRILL		
3	FLOAT SUB	9,5	0,90	4	CDR		
5	MWD	9,125	8,48	6	NON MAG. STAB		
7	NON MAG. COLLAR	9,027	8,81	8	X-OVER		
9	DRILL COLLAR STEEL	7,813	55,71	10	JAR		7
11	DRILL COLLAR STEEL	7,813	18,62	12	X-OVER		7

Reason pulled: TOTAL DEPTH/CASING DEPTI Sum:

BHA no. 2:		No. / Element / OD(in) / Length(m)		Depth In: 225 m MD		Out: 226 m MD	
1	GTXXMG1	26,0	0,56	2	NEAR BIT STAB		
3	X-OVER	9,5	0,86	4	DRILL COLLAR STEEL		7
5	JAR	7,813	9,66	6	DRILL COLLAR STEEL		7
7	X-OVER	7,375	0,66				

Reason pulled: Sum:

BHA no. 3:		No. / Element / OD(in) / Length(m)		Depth In: m MD		Out: 528 m MD	
1	MXT03DX	17,5	0,42	2	NEAR BIT STAB		17
3	SHORT DRILL COLLAR	9,625	3,68	4	NON MAG. STAB		9
5	CDR	9,5	7,29	6	MWD		9
7	NON MAG. STAB	9,5	2,19	8	NON MAG. COLLAR		9
9	X-OVER	9,5	0,86	10	DRILL COLLAR STEEL		7
11	JAR	7,813	9,66	12	DRILL COLLAR STEEL		7
13	X-OVER	7,375	0,66	14	HWDP		

Reason pulled: DOWNHOLE TOOL FAILURE Sum: :

BHA no. 4:		No. / Element / OD(in) / Length(m)		Depth In: 528 m MD		Out: 1345 m MD	
1	MXT03DX			2	NEAR BIT STAB		17
3	SHORT DRILL COLLAR	9,625	3,68	4	NON MAG. STAB		9
5	CDR	9,5	7,31	6	MWD		9
7	NON MAG. STAB	9,5	2,19	8	NON MAG. COLLAR		9
9	X-OVER	9,5	0,86	10	DRILL COLLAR STEEL		7
11	JAR	7,813	9,66	12	DRILL COLLAR STEEL		7
13	X-OVER	7,375	0,66	14	HWDP		

Reason pulled: TOTAL DEPTH/CASING DEPTI Sum: :

BHA no. 5:		No. / Element / OD(in) / Length(m)		Depth In: 1345 m MD		Out: 1345 m MD	
1	MXT03DX	17,5	0,42	2	NEAR BIT STAB		17
3	SHORT DRILL COLLAR	9,625	3,68	4	NON MAG. STAB		9
5	CDR	9,5	7,31	6	MWD		9
7	NON MAG. STAB	9,5	2,19	8	NON MAG. COLLAR		9
9	X-OVER	9,5	0,86	10	DRILL COLLAR STEEL		7
11	JAR	7,813	9,66	12	DRILL COLLAR STEEL		7
13	X-OVER	7,375	0,66	14	HWDP		

Reason pulled: Sum: :

BHA no. 6:		No. / Element / OD(in) / Length(m)		Depth In: 226 m MD		Out: 1345 m MD	
1	GTXXC3M00	24,0	0,54	2	FLOAT SUB		
3	STEEL STAB	24,0	2,22	4	SHORT DRILL COLLAR		9
5	STEEL STAB	23,75	1,92	6	MWD		9
7	NON MAG. STAB	17,5	2,19	8	NON MAG. COLLAR		9
9	X-OVER	9,5	0,86	10	DRILL COLLAR STEEL		7
11	JAR	7,813	9,66	12	DRILL COLLAR STEEL		7
13	X-OVER	7,375	0,66	14	HWDP		

Reason pulled: TOTAL DEPTH/CASING DEPTI Sum: :

BOTTOM HOLE ASSEMBLIES USED ON WELL 25/7-6 PO: 1

BHA no. 7:		No. / Element / OD(in) / Length(m)		Depth In: 1345 m MD Out: 1891 m MD	
1	MXC09DX	12,25	0,32	2	NEAR BIT STAB 1
3	NON MAG. COLLAR	9,5	2,90	4	NON MAG. STAB 1
5	CDR	9,5	7,31	6	MWD 9
7	NON MAG. STAB	12,25	1,70	8	NON MAG. COLLAR 9
9	X-OVER	9,5	0,86	10	DRILL COLLAR STEEL 7
11	JAR	7,75	9,06	12	DRILL COLLAR STEEL 7
13	X-OVER	7,375	0,66	14	HWDP

Reason pulled: TOTAL DEPTH/CASING DEPTI Sum: :

BHA no. 8:		No. / Element / OD(in) / Length(m)		Depth In: 1891 m MD Out: 2061 m MD	
1	BD445P	8,5	0,33	2	NEAR BIT STAB 8
3	CDR	6,75	6,68	4	NON MAG. STAB 8
5	MWD	6,875	8,44	6	NON MAG. STAB 8
7	NON MAG. COLLAR	6,813	9,42	8	X-OVER 6
9	DRILL COLLAR STEEL	6,5	56,32	10	X-OVER 7
11	JAR	6,813	8,14	12	X-OVER 7
13	DRILL COLLAR STEEL	6,5	18,87	14	X-OVER 6
15	HWDP	5,0	109,79	16	DART SUB

Reason pulled: CORE POINT Sum: :

BHA no. 9:		No. / Element / OD(in) / Length(m)		Depth In: 2061 m MD Out: 2079 m MD	
1	FC264RILI	8,5	0,37	2	CORE BARREL 8
3	BIT SUB	6,5	0,91	4	X-OVER
5	DRILL COLLAR STEEL	6,5	56,32	6	X-OVER 7
7	JAR	6,875	8,14	8	X-OVER 7
9	DRILL COLLAR STEEL	6,5	18,87	10	X-OVER
11	HWDP	5,0	137,17	12	DART SUB

Reason pulled: NEW CORE/FULL BARREL Sum: :

BHA no. 10:		No. / Element / OD(in) / Length(m)		Depth In: 2079 m MD Out: 2250 m MD	
1	BD445P	8,5	0,33	2	NEAR BIT STAB 8
3	CDR	6,75	6,68	4	NON MAG. STAB 8
5	MWD	6,875	8,44	6	NON MAG. STAB 8
7	NON MAG. COLLAR	6,813	9,42	8	X-OVER 6
9	DRILL COLLAR STEEL	6,5	56,32	10	X-OVER 7
11	JAR	6,813	8,14	12	X-OVER 7
13	DRILL COLLAR STEEL	6,5	18,87	14	X-OVER 6
15	HWDP	5,0	109,79	16	DART SUB

Reason pulled: TOTAL DEPTH/CASING DEPTI Sum: :

BHA no. 11:		No. / Element / OD(in) / Length(m)		Depth In: 439 m MD Out: 439 m MD	
1	INTERNAL CUTTER		1,60	2	X-OVER
3	DRILL PIPE	5,0	288,76	4	X-OVER 7
5	OTHER	14,0	1,70	6	X-OVER 8
7	DRILL PIPE	5,0	133,12		

Reason pulled: Sum: .

BHA no. 12:		No. / Element / OD(in) / Length(m)		Depth In: 439 m MD Out: 439 m MD	
1	SPEAR	8,188	2,18	2	STOP SUB 1
3	BUMPER SUB	8,0	1,93	4	X-OVER 8

Reason pulled: Sum:

BOTTOM HOLE ASSEMBLIES USED ON WELL 25/7-6 PO: 1

BHA no. 13:

No. / Element / OD(in) / Length(m)

Depth In: 154 m MD Out: 154 m MD

1	INTERNAL CUTTER	11,75	4,53	2	REVERSE JET SUB	
4	DOWNHOLE MOTOR	9,5	8,67	5	BUMPER SUB	
6	DRILL COLLAR STEEL	8,0	55,89	7	X-OVER	6

Reason pulled:

Sum:

CEMENT SLURRY REPORT ON WELL 25/7-6

Date	CsgSize	Jobtype	Slurry Type	Pumped Volume [m3]	Density [sg]	BHCT [DegC]	Yield [l/100 kg]	Additive	Unit	Additives [L./100 kg Cement]	Additives [L./m3 Slurry]
2000-09-14	30"	CASING CEMENTING	LEAD	324,50	1,44	6,00	169,30	A-3L	l	3,50	
			TAIL SLURRY	12,00	1,92	6,00	75,02	FP14L A-7 FP14L	l kg l	0,20 3,50 0,20	
			DISPLACEMENT			6,00					
2000-09-26	13 3/8"	CASING CEMENTING	LEAD	324,40	1,44	33,00	169,30	A-3L	l	5,30	
			TAIL SLURRY	12,00	1,92	33,00	75,02	FP14L R-15L FP14L R-12L	l l l l	0,20 1,25 0,20 0,40	
			DISPLACEMENT			33,00					
2000-10-04	9 5/8"	CASING CEMENTING	FRESHWATER	15,40	1,03	41,00					
			TAIL SLURRY	11,00	1,90	41,00	78,60	CD-31L FP14L MICRO R-12L	l l l l	0,50 0,20 2,50 0,55	
			DISPLACEMENT			41,00					
2000-10-10	9 5/8"	PLUG IN OPEN HOLE	TAIL SLURRY	11,00	1,90	56,00	76,75	FP-14L R-12L	l l	0,40 0,75	
			DISPLACEMENT			56,00					
2000-10-10	9 5/8"	PLUG IN CASED TO OPEN HOLE	TAIL SLURRY	11,00	1,90	51,00	76,71	FP14L	l	0,20	
			DISPLACEMENT			51,00		R-12L	l	0,55	
2000-10-12	13 3/8"	PLUG IN CASED HOLE	TAIL SLURRY	19,30	1,95	13,00	74,73	A-7 FP14L	kg l	3,50 0,20	
			DISPLACEMENT			13,00					

CEMENT CONSUMPTION PER JOB ON WELL 25/7-6

Date	CsgSize	Job Type	Cement/ Additive	Description	Unit	Actual Amount Used
2000-09-14	30"	CASING CEMENTING	A-3L	EXTENDER: LIQUID LODENSE	l	757
			A-7	ACCELERATOR: CaCl ₂	kg	1128
			FP14L	FP-14L	l	109
2000-09-26	13 3/8"	CASING CEMENTING	A-3L	EXTENDER: LIQUID LODENSE	l	10346
			FP14L	FP-14L	l	671
			R-12L	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 C	l	64
			R-15L	RETARDER: HIGH TEMP. BETWEEN 93 AND 149 DE	l	2648
2000-10-04	9 5/8"	CASING CEMENTING	CD-31L	DISPERSANT: CD-31L LIQUID	l	98
			FP14L	FP-14L	l	39
			MICRO	SPECIAL ADDITIVE: MICROBLOCK, ANTI GAS MIGF	l	786
			R-12L	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 C	l	108
2000-10-10	9 5/8"	PLUG IN OPEN HOLE	FP-14L	SPECIAL ADDITIVE: DEFOAMER FP-14L	l	39
			R-12L	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 C	l	107
2000-10-10	9 5/8"	PLUG IN CASED TO OPEN HOLE	FP14L	FP-14L	l	28
			R-12L	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 C	l	78
2000-10-12	13 3/8"	PLUG IN CASED HOLE	A-7	ACCELERATOR: CaCl ₂	kg	1174
			FP14L	FP-14L	l	74

TOTAL CONSUMPTION OF CEMENT ADDITIVES ON WELL 25/7-6

Section	Cement/Additive	Unit	Total Amount Used
36"	FP-14L	l	109,00
	EXTENDER: LIQUID LODENSE	l	757,00
	ACCELERATOR: CaCl ₂	kg	1128,00
24"	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 DEGC	l	64,00
	FP-14L	l	671,00
	EXTENDER: LIQUID LODENSE	l	10346,00
	RETARDER: HIGH TEMP. BETWEEN 93 AND 149 DEGC	l	2648,00
12 1/4"	DISPERSANT: CD-31L LIQUID	l	98,00
	SPECIAL ADDITIVE: MICROBLOCK, ANTI GAS MIGRATION	l	786,00
	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 DEGC	l	108,00
	FP-14L	l	113,00
	ACCELERATOR: CaCl ₂	kg	1174,00
8 1/2"	SPECIAL ADDITIVE: DEFOAMER FP-14L	l	39,00
	FP-14L	l	28,00
	RETARDER: LIQUID LIGNOSULFONATE UP TO 93 DEGC	l	185,00

DAILY MUD PROPERTIES: RHEOLOGY PARAMETERS FOR WELL 25/7-6 PO: 1

Hole section : 12 1/4"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings					Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
						600	300	200	100	60						30
MD	TVD															
2000-09-29 23:00	1345	GLYDRIL	76,0	1,45	20,0	0	0	0	0	0	0	0	0	0	0	0
2000-09-30 23:00	1562	GLYDRIL	58,0	1,45	36,0	0	0	0	0	0	0	0	0	0	0	0
2000-10-01 23:00	1891	GLYDRIL	62,0	1,45	40,0	91	65	53	41	0	0	13	11	50,0	26,0	19,5
2000-10-02	1891	GLYDRIL	61,0	1,50	20,0	92	65	54	42	0	0	13	11	50,0	27,0	19,0
2000-10-02 23:00	1891	GLYDRIL	61,0	1,50	20,0	0	0	0	0	0	0	0	0	50,0	27,0	19,0
2000-10-03 23:00	1891	GLYDRIL	68,0	1,50	20,0	94	66	55	43	0	0	14	12	50,0	28,0	19,0
2000-10-04	1891	GLYDRIL	74,0	1,50	15,0	92	64	54	42	0	0	13	11	50,0	28,0	18,0
2000-10-05	1891	GLYDRIL	77,0	1,50		93	65	54	42	0	0	13	10	50,0	28,0	18,5

Hole section : 8 1/2"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings					Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
						600	300	200	100	60						30
MD	TVD															
2000-10-06	2006	GLYDRIL	50,0	1,20	20,0	46	33	28	19	0	0	9	8	50,0	13,0	10,0
2000-10-06 21:15	2006	GLYDRIL	50,0	1,20	20,0	0	0	0	0	0	0	0	0	50,0	13,0	10,0
2000-10-07	2070	GLYDRIL	51,0	1,20	28,0	51	36	29	22	0	0	9	8	50,0	15,0	10,5
2000-10-07 18:00	2070	GLYDRIL	51,0	1,20	28,0	0	0	0	0	0	0	0	0	50,0	15,0	10,5
2000-10-08	2210	GLYDRIL	53,0	1,20	1,2	53	38	31	23	0	0	9	8	50,0	15,0	11,5
2000-10-09	2250	GLYDRIL	55,0	1,20		52	38	30	23	0	0	9	8	50,0	14,0	12,0
2000-10-10	2250	GLYDRIL	54,0	1,20	28,0	52	37	30	23	0	0	9	8	50,0	15,0	11,0
2000-10-11	2250	GLYDRIL	54,0	1,20		53	38	30	24	0	0	9	8	50,0	15,0	11,5

DAILY MUD PROPERTIES : OTHER PARAMETERS FOR WELL 2517-6 PO: 1

Hole section : 0.0

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate API [mm]	Filtcake API [mm]	HPHT Press [bar/DegC]	HPHT Temp [bar/DegC]	pH	Alcalinity Pm [ml]	Alcalinity Pf [ml]	Mf [ml]	Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand [%]	CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	
MD	TVD																					
2000-09-12	0	0 SPUD MUD																				
2000-09-13	216	216 SPUD MUD	1,09																			

Hole section : 36"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate API [mm]	Filtcake API [mm]	HPHT Press [bar/DegC]	HPHT Temp [bar/DegC]	pH	Alcalinity Pm [ml]	Alcalinity Pf [ml]	Mf [ml]	Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand [%]	CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	
MD	TVD																					
2000-09-14	225	225 SPUD MUD	1,09																			

Hole section : 24"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate API [mm]	Filtcake API [mm]	HPHT Press [bar/DegC]	HPHT Temp [bar/DegC]	pH	Alcalinity Pm [ml]	Alcalinity Pf [ml]	Mf [ml]	Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand [%]	CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	
MD	TVD																					
2000-09-15	527	527 SPUD MUD	1,07																			
2000-09-16	1228	1228 SPUD MUD	1,03																			
2000-09-17	1345	1345 SPUD MUD	1,30																			
2000-09-18	1345	1345 SPUD MUD	1,04																			
2000-09-19	1345	1345 SPUD MUD	1,40																			
2000-09-20	1345	1345 SPUD MUD	1,40																			
2000-09-21	1345	1345 SPUD MUD	1,40																			
2000-09-22	1345	1345 SPUD MUD	1,40																			
2000-09-23	1345	1345 SPUD MUD	1,04																			
2000-09-24	1345	1345 SPUD MUD	1,04																			
2000-09-25	1345	1345 SPUD MUD	1,50	5,6	1	/	10,0	0,5	0,1	1,3			70000	1200		1200	19,8		30			
2000-09-26	1345	1345 SPUD MUD	1,32	2,2	1	/	9,0	0,0	0,0	1,4			90000	680		680	16,0		30			
2000-09-27	1345	1345 GLYDRIL	1,45	1,8	1	/	8,8	0,0	0,0	1,4			94103000				19,6	0,2	29		70	
2000-09-27 19:00	1345	1345 GLYDRIL	1,45	1,8	1	/	8,8	0,0	0,0	1,4			94103000				19,6	0,2	29		70	
2000-09-28	1345	1345 GLYDRIL	1,45	1,8	1	/	8,8	0,0	0,0	1,4			94103000				19,6	0,2	29		70	
2000-09-28 19:00	1345	1345 GLYDRIL	1,45	1,8	1	/	8,8	0,0	0,0	1,4			94103000				19,6	0,2	29		70	

Hole section : 12 1/4"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate API [mm]	Filtcake API [mm]	HPHT Press [bar/DegC]	HPHT Temp [bar/DegC]	pH	Alcalinity Pm [ml]	Alcalinity Pf [ml]	Mf [ml]	Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand [%]	CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	
MD	TVD																					
2000-09-29 23:00	1345	1345 GLYDRIL	1,45	1,8	1	/	8,8	0,0	0,0	1,4			94103000				19,6	0,2	29			

DAILY MUD PROPERTIES : OTHER PARAMETERS FOR WELL 2577-6 PO: 1

Hole section : 12 1/4"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity		Inhib Chem	K+	CL-	Ca++	Mg++	Tot hard	Percentage Oil Sand [%]	CEC [Kg/m3]	ASG LGS [sg][Kg/m3]
				API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]									
2000-09-30 23:00	1562	GLYDRIL	1,45	3,0	1	8,5	0,8	0,0	1,4	94110000	880	880	20,0	0,5	38	75				
2000-10-01 23:00	1891	GLYDRIL	1,45	2,8	1	8,2	0,0	1,6	94116000	900	900	21,0	0,1	50	120					
2000-10-02	1891	GLYDRIL	1,50	2,8	1	8,4	0,0	1,6	94115000	700	700	22,5	0,2	50	408					
2000-10-02 23:00	1891	GLYDRIL	1,50	2,8	1	8,4	0,0	1,6	94115000	700	700	22,5	0,2	50	408					
2000-10-03 23:00	1891	GLYDRIL	1,50	2,8	1	8,2	0,0	1,6	94115000	760	760	22,5	0,2	50	408					
2000-10-04	1891	GLYDRIL	1,50	2,8	1	8,2	0,0	1,5	94116000	700	700	22,5	0,2	50	408					
2000-10-05	1891	GLYDRIL	1,50	3,0	1	8,4	0,0	1,4	94116000	700	700	22,0	0,2	50	3,4	204				

Hole section : 8 1/2"

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity		Inhib Chem	K+	CL-	Ca++	Mg++	Tot hard	Percentage Oil Sand [%]	CEC [Kg/m3]	ASG LGS [sg][Kg/m3]
				API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]									
2000-10-06	2006	GLYDRIL	1,20	2,8	1	8,5	0,1	1,7	94100000	700	700	12,0	0,0	0	2,5	184				
2000-10-06 21:15	2006	GLYDRIL	1,20	2,8	1	8,5	0,1	1,7	94100000	700	700	12,0	0,0	0	2,5	184				
2000-10-07	2070	GLYDRIL	1,20	2,6	1	8,5	0,1	1,8	100373	91000	800	11,0	0,0	5	3,5	38				
2000-10-07 18:00	2070	GLYDRIL	1,20	2,6	1	8,5	0,1	1,8	100373	91000	800	11,0	0,0	5	3,5	38				
2000-10-08	2210	GLYDRIL	1,20	3,0	1	8,3	0,1	1,8	97064	88000	800	11,0	0,0	8	3,0	86				
2000-10-09	2250	GLYDRIL	1,20	3,0	1	8,3	0,1	1,7	95961	87000	700	11,8	0,0	8	3,0	84				
2000-10-10	2250	GLYDRIL	1,20	3,5	1	8,3	0,1	1,7	97064	88000	700	11,8	0,0	8	3,0	84				
2000-10-11	2250	GLYDRIL	1,20	3,7	1	8,5	0,1	1,8	97064	88000	700	11,8	0,0	8	3,0	84				

TOTAL CONSUMPTION OF MUD ADDITIVES ON WELL 25/7-6

Section	Product/ Additive	Unit	Total Amount Used
36"	BARITE	kg	76000,00
	BENTONITE	kg	27000,00
	SODA ASH	kg	425,00
24"	BARITE	kg	381000,00
	BENTONITE	kg	98000,00
	CMC EHV	kg	2525,00
	DUOTEC NS	kg	100,00
	KCL BRINE	l	47000,00
	MICA FINE	kg	25,00
	SODA ASH	kg	1425,00
12 1/4"	BARITE	kg	135000,00
	CELPOL ESL	kg	2100,00
	CMC EHV	kg	300,00
	DUOTEC NS	kg	725,00
	GLYDRIL MC	l	3000,00
	KCL POWDER	kg	21000,00
	POTASSIUM CARBONATE	kg	200,00
	SODA ASH	kg	125,00
8 1/2"	BACL2	l	225,00
	BARITE	kg	36000,00
	CELPOL ESL	kg	5575,00
	DUOTEC NS	kg	1800,00
	GLYDRIL MC	l	26000,00
	KCL POWDER	kg	120000,00
	POTASSIUM CARBONATE	kg	250,00
	SODA ASH	kg	175,00
P&A	BARITE	kg	13000,00
	CITRIC ACID	kg	75,00
	SODIUM BICARBONATE	kg	175,00

LOGGING INFORMATION ON WELL 25/7-6

Hole size: 8 1/2"

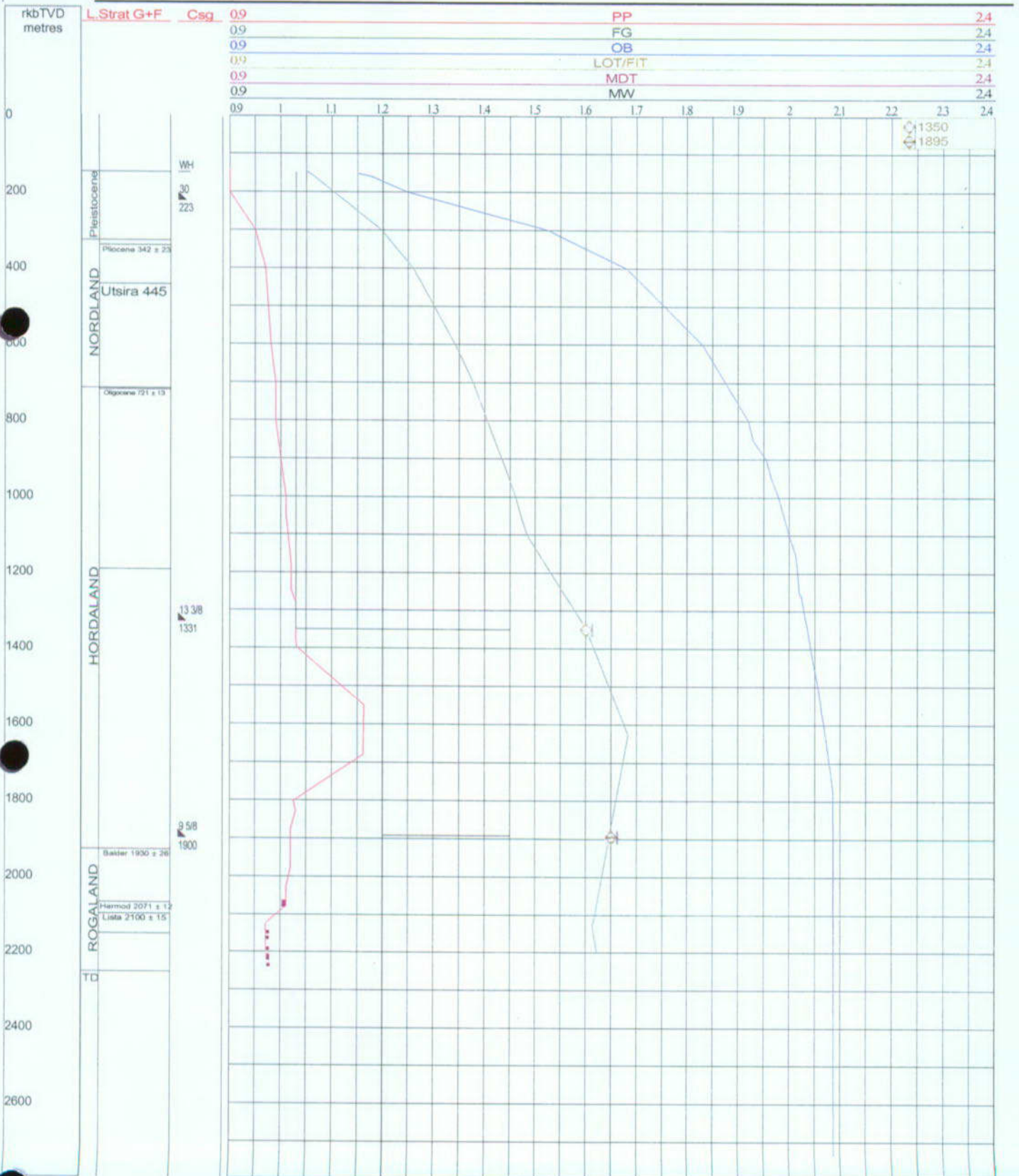
#	Run No.	Logging Company	Logged Bottom [m MD]	Logged Top [m MD]	Log Suite
1	A		2225	1400	PEX/HALS/DSI
2	A		2237	2070,1	MDT/GR
3	A		2230	1400	VSP/GR



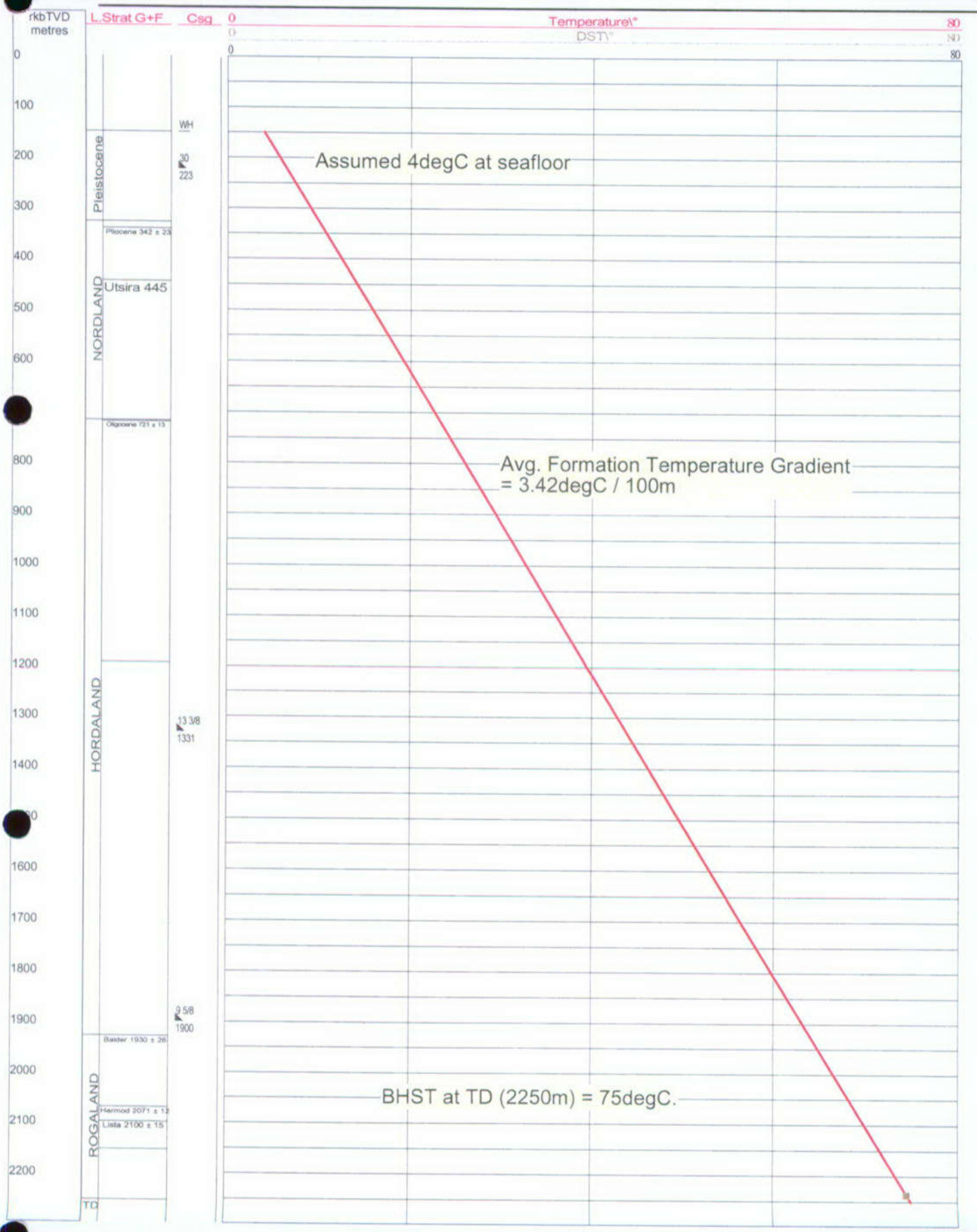
Well: 25/7-6

Fig.9.1

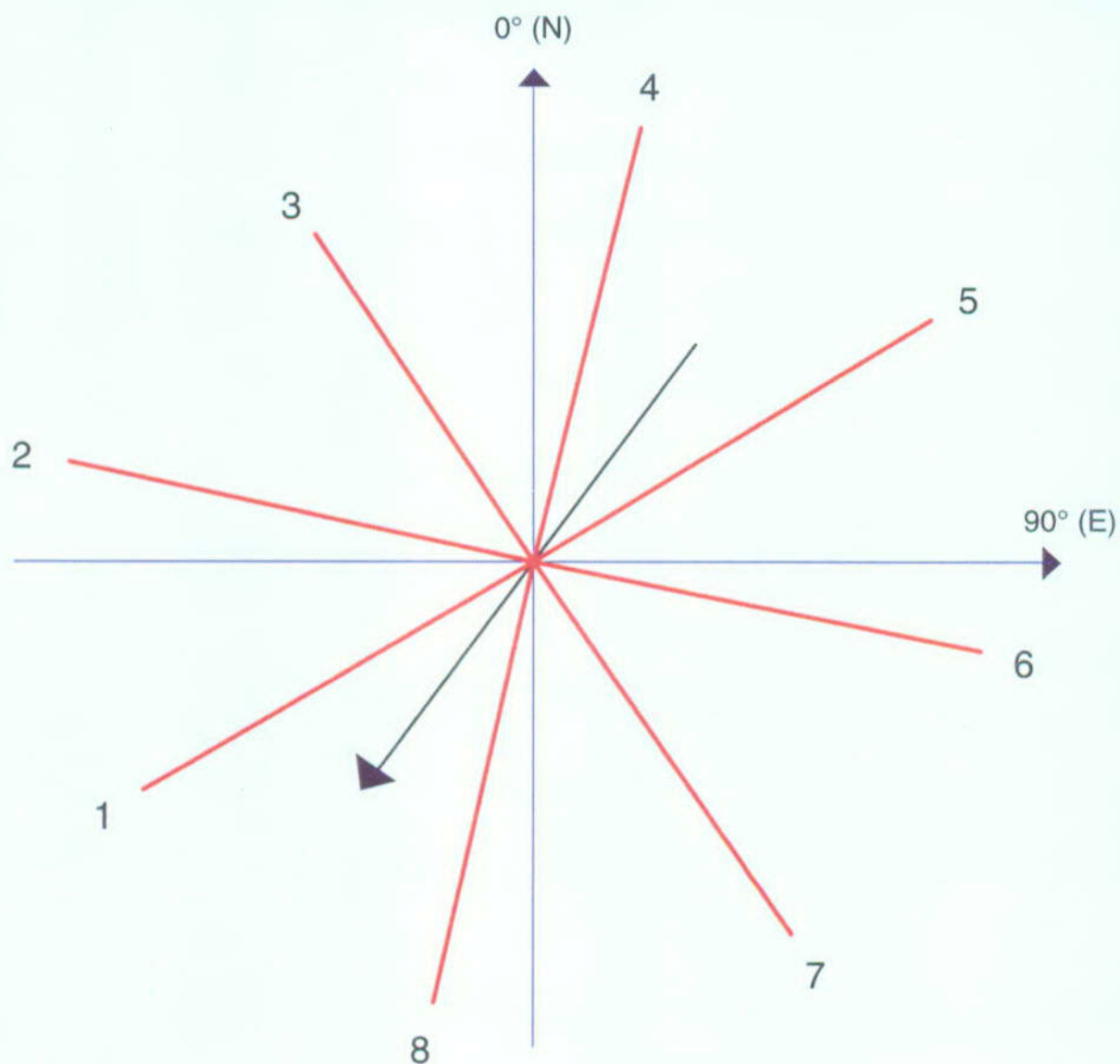
B-41



Final Pore pressure-, Fracture- and Overburden Gradients



Final Formation Temperature Gradient



RIGHEADING 215 DEG.

ANCHOR NO	DIRECTION (DEG.)	LENGTH (m)
1	238	1134
2	283	1174
3	328	1017
4	13	1177
5	57	1170
6	102	1129
7	147	1172
8	192	1190

Figure 3

RIG ANCHORS
SCARABEO 6
25/7-6

HYDRO

All depths, rig floor Scarabeo 6

RT at 0m (26m RT elev)
Mean Sea Level

Wellhead removed

Seabed
Cut 30" and 20"
X-over 20" x 13-3/8" casing

Top of cement plug. From rev. circulation.

30" Casing Shoe, 309.7#, 1" wt, Quick Stab, X52
36" Section TD

Bridge plug, Type Baker 9AA, Test to 70 bar with 1.20 sg mud

Cut 9-5/8" casing

Bridge plug, Type Baker 6AA, Test to 153 bar with 1.20 sg mud

13-3/8" Casing Shoe, 72# NSCC L80, Tested to 70 bar, 1.32sg mud
TD 24" section, LOT at 13-3/8" shoe 1.60 sg.

9-5/8" TOC (planned)

Top of log: PEX/HALS/DSI, Top of log: VSP/GR

Top of cmt plug. Load tested to 15MT, P test to 153bar w/ 1.20sg mud

9-5/8" Casing Shoe, 53.5# NSCC, L-80, Tested to 175 bar, 1.50sg mud
TD 12-14" Section, LOT at 9-5/8" shoe 1.85 sg

Interface between cement plugs, Not tested.

Top of log: MDT/GR

Bottom of log: PEX/HALS/DSI

Bottom of log: VSP/GR

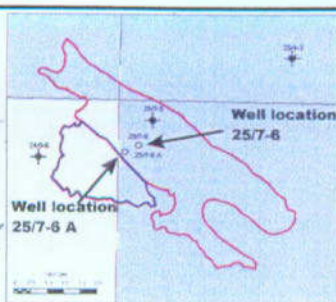
Bottom of log: MDT/GR

TD 8-1/2" Section

MD	TVD	OD	ID	Drift	Incl
m	m	inch	inch	inch	deg
0	0				0.0
26	26				0.0
					0.5
					1.1
					1.1
					1.3
					1.1
					1.2
					0.2
					0.3
					0.4
					0.6
					0.8
					0.8
					1.8
					1.1
					1.1
					1.1
					1.1

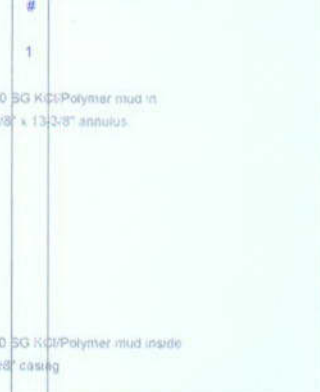


Wellhead Coordinates UTM zone 31:
6 594 908.8 mN
443 948.0 mE



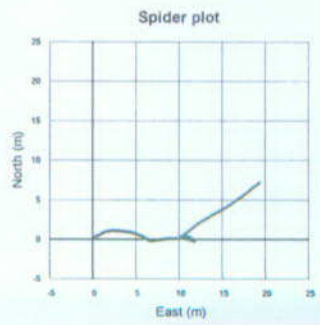
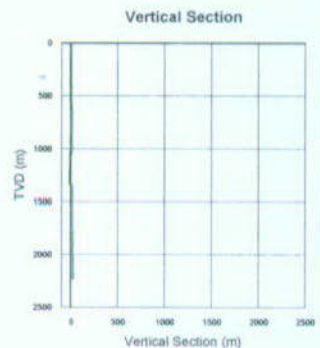
Description of barrier elements

B 9-5/8" casing cemented on the outside against formation.
A Leak off tested shoe to 1.65 sg.
R P tested csg to 175 bar w/ 1.50 sg mud.
I
E Cement plug inside 9-5/8" casing
R P tested to 153 bar with 1.20 sg mud.
Load tested to 15 MT.



Description of Barrier Elements

B 9-5/8" casing, Pressure tested to 175 bar with 1.50 sg mud.
A
R Mechanical plug in 9-5/8" casing tested to 153 bar with 1.20 sg mud.
I
E
R 13-3/8" casing cemented on the outside against formation.
Leak off tested shoe to 1.60 sg.
P tested csg to 70 bar w/ 1.32 sg mud.
2
Cmt plug on top of mech plug in 13-3/8" csg
P tested to 70 bar with 1.20 sg mud.

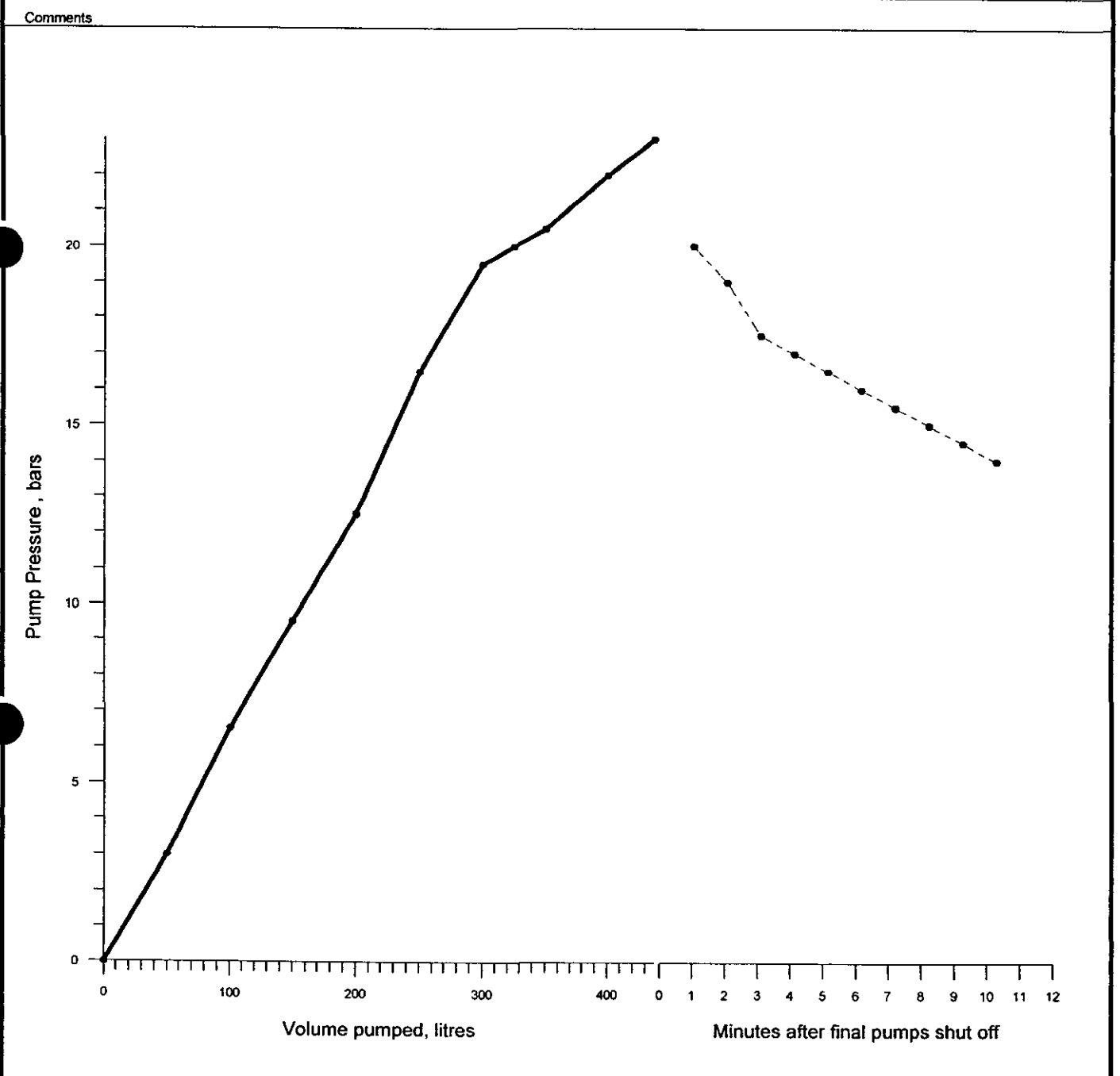


Permanent P & A
25/7-6

Fig : B-4
Revision: 0
Date: 05.12.2000

BARRIER DESCRIPTION
AFTER PERMANENT PLUG &
ABANDONMENT

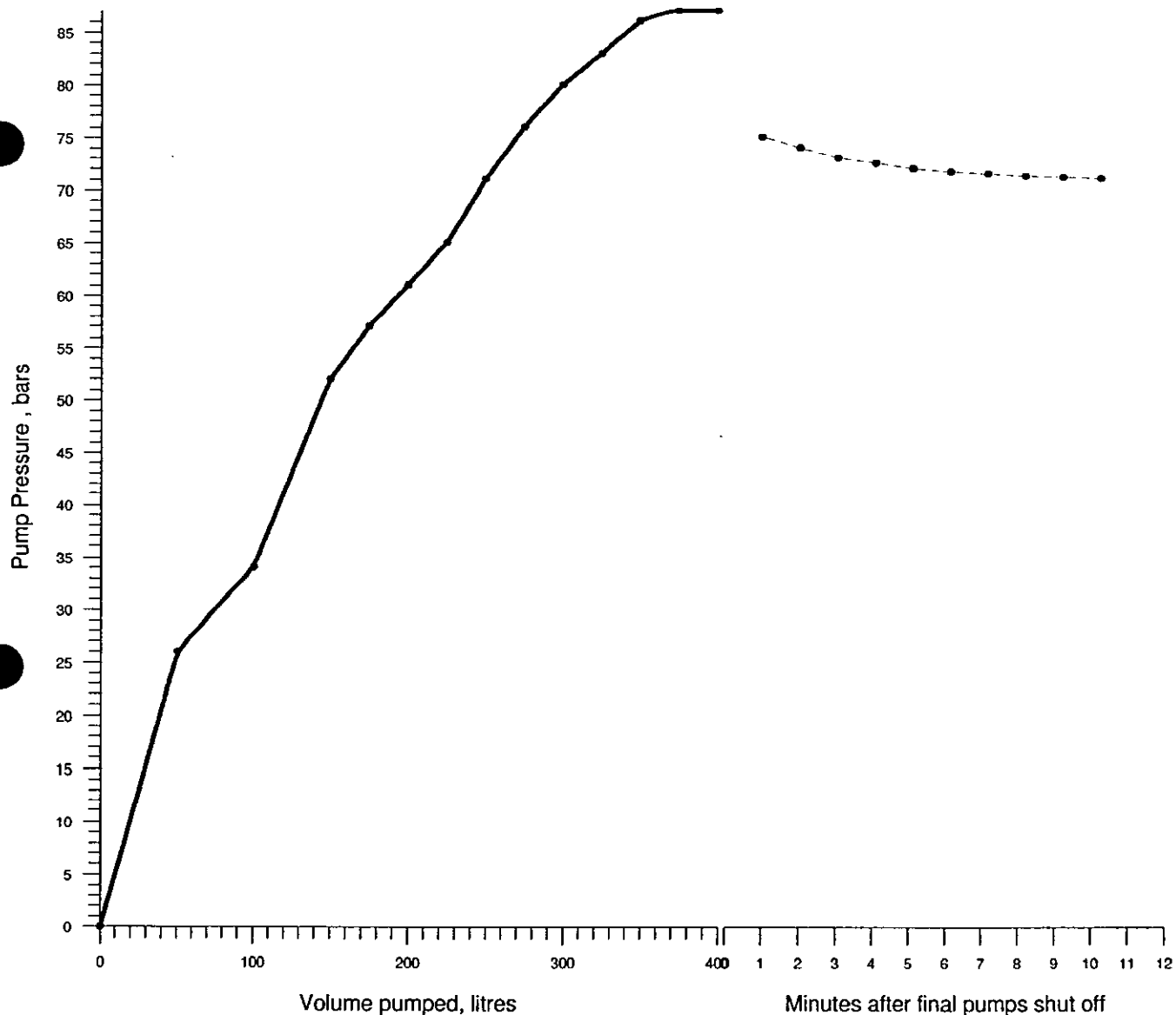
Well 25/7-6		Test type : LOT		Test date : 2000-09-30	
Rig SCARABEO 6	Airgap (m) 26.00	Water depth (m) 124.00	CsgOd" 13.375	Hole angle (deg) 0	
Csg Shoe (mMD/mTVD)	1331.00 / 1330.86	OH depth (mMD/mTVD) 1350.00 / 1349.86	Lithology : Clst		
Dens 1.45	API WL (ml/30min) 1.80	PV (cp) 26.00	YP (Pa) 23.00	Gel0/Gel10 7.00 / 11.00	
Pump Rate (l/min)	80.00	Vol pumped (l.) 437.00	Vol bled back (l.) 360.00		
Leakoff Pressure (bar)	19.50	Max pressure (bar)	Propagation press (bar)		
Test result (sg EMD)	1.60	Shut-in pressure			



End of Well Report 25/7-6	Fig.: B-5	FIT 13 3/8" CSG	HYDRO
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Well 25/7-6		Test type : LOT		Test date : 2000-10-06	
Rig SCARABEO 6	Airgap (m) 26.00	Water depth (m) 124.00	CsgOd" 9.625	Hole angle (deg) 1	
Csg Shoe (mMD/mTVD) 1883.97 / 1883.80		OH depth (mMD/mTVD) 1895.00 / 1894.83		Lithology : Clst	
Dens 1.20	API WL(ml/30min) 2.60	PV (cp) 15.00	YP (Pa) 10.50	Gel0/Gel10 4.00 / 5.00	
Pump Rate (l/min) 80.00		Vol pumped (L) 400.00	Vol bled back (L) 252.00		
Leakoff Pressure (bar) 83.00		Max pressure (bar)	Propagation press (bar)		
Test result (sg EMD) 1.65		Shut-in pressure			

Comments



End of Well Report 25/7-6	Fig.: B-6	FIT 9 5/8" CSG	HYDRO
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**THIS PAGE IS LARGER THAN A3,
SEE SEPARATE FILE.**

FILE NAME:

Composite Log

**THIS PAGE IS LARGER THAN A3,
SEE SEPARATE FILE.**

FILE NAME:

Drilling Results



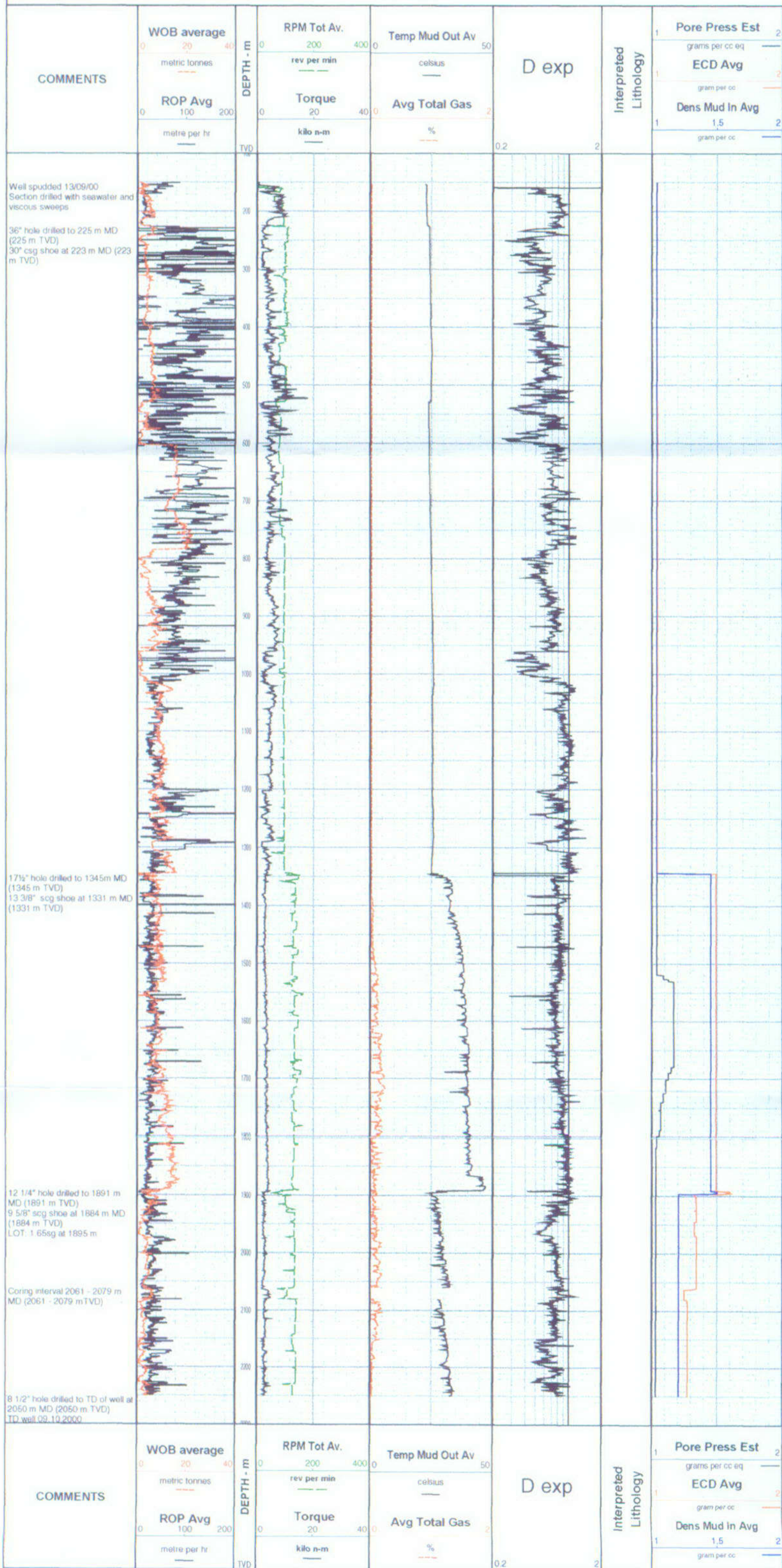
Pressure Evaluation Log

25/7-6



Sperry-Sun
Drilling Services

Scale 1:5000



**THIS PAGE IS LARGER THAN A3,
SEE SEPARATE FILE.**

FILE NAME:

Norsk Hydro

Wellsite Lithology



GAS RATIO LOG

25/7-6

SCALE 1:2000

