Santos

CASINO 5

Geoservices

Basin : OTWAY	LAT - RT (m) : 21.5	Rig : OCEAN PATRIOT	Open Hole:	Cased Hole:	Engineers : D. ADDERLEY
Permit : VIC P-44	Seabed - LAT (m) : 68.2	Spud Date : 16-06-2005	36" 133m	20"/30" 132m	A. DUNN
State : VICTORIA	Seabed - RT (m) : 89.7	TD Date : 28-06-2005	17.5" 665m	13.375" 655m	S. PROSSER
Country : AUSTRALIA	Lat. : 38°47'43.68"S	Total Depth : 1806m	12.25" 1730m	9.625" 1719.8m	Loggers : N. ELLIOTT
Scale : 1/ 500	Long. : 142°44'44.60"E	Final Status : Cased & Suspended	8.5" 1806m	7.625" 1800m	B. FOREMAN

LITHOLOGY

- Conglomerate
- Coarse Sandstone
- Med Sandstone
- Fine Sandstone
- Marl
- Siltstone
- Carb. Siltstone
- Calc. Siltstone
- Clay
- Limestone
- Dolomite
- Coal
- Calcilutite
- Calcisiltite
- Calcarenite
- Volcanic
- Metamorphic
- Cement

ACCESSORIES

- Pyrite
- Siderite
- Glauconite
- Feldspar
- Mica
- Ferrous
- Chert
- Calcareous
- Dolomitic
- Carbonaceous
- Lithoclast
- Breccia
- Foraminifera
- Corals
- Inoceramus
- Bryozoa
- Plant remains
- Fossils

DRILLING DATA

- Casing Shoe
- Bit Trip
- Wiper Trip
- Core
- DST
- Deviation Survey

MUD DATA

MW	-	Mud Weight
FV	-	Funnel Viscosity (s/qt)
PV	-	Plastic Viscosity (cps)
YP	-	Yield Point (lb/100ftsq)
Gel	-	Gel Strength (10sec)
WL	-	Water Loss (cc/30min)
pH	-	Acidity / Alkalinity
Ck	-	Cake (32nd/inch)
Sol	-	Solids (% vol)
Cl	-	Chlorides (mg/l)

ABBREVIATIONS

BOPD	-	Barrels of Oil Per Day	OG	-	Over Gauge
BWPD	-	Barrels of Water Per Day	OH	-	Open Hole
CG	-	Connection Gas	OTS	-	Oil To Surface
CO	-	Circulate Out	Q	-	Flow Rate
COND	-	Condensate	REC	-	Recovery
c/c	-	Crush Cut	Rmf	-	Resistivity Mud Filtrate
DST	-	Drill Stem Test	ROP	-	Rate Of Penetration
FLOW	-	Flow Rate (gal/min)	RPM	-	Revolutions Per Minute
GCM	-	Gas Cut Mud	RTSTM	-	Rate Too Small To Measure
GCW	-	Gas Cut Water	Rw	-	Resistivity water
GTS	-	Gas To Surface	r/r	-	Ring Residue
INJ	-	Injection of Mist (bbls/hr)	SCFM	-	Standard Cubic ft/min (air)
LCM	-	Lost Circulation Material	SGCM	-	Slightly Gas Cut Mud
MMCFD	-	Million Cubic Feet / Day	SPM	-	Strokes Per Minute
NGTS	-	No Gas To Surface	SPP	-	Stand Pipe Pressure
NOTS	-	No Oil To Surface	SWC	-	Side-Wall Core
NR	-	No Returns	TG	-	Trip Gas
OCM	-	Oil Cut Mud	WOB	-	Weight On Bit

ROP (m/hr) 400 100 10 0

WOB (klbs) 0 25 50

GAMMA RAY (api) 0 100 200

LITHOLOGY

DEPTH (m)

TVD (m)

CUTTINGS (%)

TOTAL GAS (units) (50 units = 1%) 10 100 1K

RESISTIVITY Shallow (ohmm) .1 1 10 100 1K

RESISTIVITY Deep (ohmm) .1 1 10 100 1K

DIR FLUOR

CHROMATOLOG (ppm) 100 1K 10K

C1 C2 C3 iC4 nC4 iC5 nC5

CO2 % .01 .1 1 10 100

GEOLOGICAL DESCRIPTION

50

75

(.)

100

400 100 10 0

0 50 100

0 100 200

16-06-05

CASINO 5 SPUDDED @ 19:00 hrs on 16-06-2005

RT-SEABED: 89.7 m

BIT #1 Smith DSJC
SIZE: 26"+36"HO JETS:4x22
IN:89.7 OUT:133.0 m
RUN:43.3 m HRS:3.1

WOB: 0-2 klbs
RPM: 55-85
SPP: 500-1230 psi
FLW: 750-1160 gpm

16-06-05

18-06-05

100
(100)

125
(125)

150
(150)

175
(175)

200
(200)

225
(225)

250
(250)

275
(275)

300
(300)

WOB: 7-20 klbs
RPM: 75-150
SPP: 800-220 psi
FLW: 810-1100 gpm

WOB: 12-23 klbs
RPM: 85-125
SPP: 2200-2400 psi
FLW: 1070-1125 gpm

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

30"/20" CASING SHOE
SET AT 132m

BIT #2 Smith XR-CRS
SIZE: 17.5" JETS:3x20,1X18
IN:133m OUT:665 m
RUN:532m HRS:11.4
COND:1-1-NO-A-E-I-NO-TD

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

325
(325)

10 100 1K

100 1K 10K

.1 1 10 100 1K

350
(350)

.1 1 10 100 1K

.01 .1 1 10 100

WOB: 28-35 klbs
RPM: 100-105
SPP: 2420-2575 psi
FLW: 1120-1150 gpm

375
(375)

400
(400)

400 100 10 0

0 50 100

WOB: 34-36 klbs
RPM: 120-130
SPP: 2575-2620 psi
FLW: 1148-1150 gpm

0 100 200

425
(425)

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

450
(449.9)

WOB: 33-38 klbs
RPM: 122-132
SPP: 2565-2740 psi
FLW: 10130-1145 gpm

475
(474.9)

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

500
(499.9)

WOB: 37-42 klbs
RPM: 132-136
SPP: 2610-2900 psi
FLW: 1125-1145 gpm

525
(524.9)

10 100 1K

100 1K 10K

550
(549.9)

.1 1 10 100 1K

.1 1 10 100 1K

.01 .1 1 10 100

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

575
(574.9)

WOB: 38-41 klbs
RPM: 136
SPP: 2750-2870 psi
FLW: 1145 gpm

600
(599.9)

400 100 10 0

0 50 100

625
(624.9)

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.
RETURNS TO SEABED.

0 100 200

650
(649.9)

Survey @ 652.27m: 0.52°, 118.09 Az

13.375" Casing shoe set @ 655m

LOT @ 668m
EMW: 17.3ppg, 2.08SG

18-06-05

22-06-05

BIT #3 Smith GS04
SIZE: 12.25" JETS:3x20,1X18
IN:665m OUT:1160m
RUN:495m HRS:18.9
COND:4-5-WT-A-E-I-NO-PR

675
(674.9)

WOB: 15-20 klbs
RPM: 125
SPP: 2400-2700 psi
FLW: 950-1000 gpm

CALC SILTSTONE: med brnsh gry-
med brn arg g/t CALC CLYST,com
forams,frm,sbblky.

700
(699.9)

100% C1

SANDSTONE:yel orng,brn Fe stng,
trnsl-clr,f-crs,pred med,sbang,
tr v crs frac qtz grs,pr-fr
srt,tr forams,pred lse qtz grs,
gd inf por,no fluor.

DRILL WITH SEA WATER
AND HI-VIS SWEEPS.

Survey @ 712.41m: 0.56°, 146.86 Az

725
(724.9)

SANDSTONE:yel orng,brn Fe stng,
trnsl-clr,f-crs,pred med,sbang,
tr v crs frac qtz grs,pr-fr
srt,tr forams,pred lse qtz grs,
gd inf por,no fluor.

100% C1

WOB: 13-18 klbs
RPM: 105-110
SPP: 2500-2800 psi
FLW: 970-1000 gpm

750
(749.9)

775
(774.9)

WOB: 8-15 klbs
RPM: 95-110
SPP: 2650-2750 psi
FLW: 990-995 gpm

800
(799.9)

825
(824.9)

WOB: 10-18 klbs
RPM: 100-105
SPP: 2800-3150 psi
FLW: 1000-1025 gpm

850
(849.9)

875
(874.9)

MW 1.04
FV >100
PV 10
YP 54
Gel 38
FL 13
Ck 1
Sol 2
pH 9.5
Cl 750

900
(899.9)

WOB: 10-15 klbs
RPM: 100
SPP: 2875 psi
FLW: 1015 gpm

925
(924.8)

100% C1

100% C1

100% C1

BLOCKED DEGASSER PROBE

SANDSTONE:yel orng,brn Fe stng, trnsl-clr,f-crs,pred med,sbang, tr v crs frac qtz grs,pr-fr srt, tr forams,pred lse qtz grs, gd inf por,no fluor.

Survey @ 741.29m: 1.28°, 173.83 Az

SANDSTONE:pred orng yel-mod brn,Fe stng,occ clr-trnsl,med-crs, occ v crs frac qtz grs,mod srt,wk sil cmt i/p,tr liths,lse & cln qtz grs,gd inf por,no fluor.

SANDSTONE:pred orng yel-mod brn,Fe stng,occ clr-trnsl,med-crs, occ v crs frac qtz grs,mod srt,wk sil cmt i/p,tr liths,lse & cln qtz grs,gd inf por,no fluor.

Survey @ 800.77m: 1.61°, 179.35 Az

SANDSTONE: pred clr-trnsl,com orng yel-mod brn,f- med,tr crs, mod srt,sbrnd-sbang,tr sid cmt,rr-tr sil cmt,rr nod pyr,lse & cln,gd inf por,no fluor.

DRILL WITH SEA WATER AND HI-VIS SWEEPS.

SANDSTONE: clr-trnsl,occ yel orng,f-med,occ crs,mod srt,sbrnd, tr loc sil cmt,rr liths,lse & cln, fr-gd inf por,no fluor.

Survey @ 858.08m: 1.58°, 236.40 Az

SANDSTONE: clr-trnsl,f-med,mod wl srt,sbrnd-sbang i/p,wk loc sil cmt,rr nod pyr,lse & cln,gd inf por,no fluor.

CLAYSTONE: brn blk-dsky brn,slty, com carb,com dissem pyr,mod hd, sbblky.

SANDSTONE: clr-trnsl,yel orng-mod brn Fe stng,med-crs,v crs i/p,sbrnd, mod srt,tr nod pyr,lse cln qtz grs,gd inf & vis por,no fluor.

Survey @ 891.65m: 3.06°, 238.12 Az

DRILL WITH SEA WATER AND HI-VIS SWEEPS.

SANDSTONE: clr,trnsl,occ yel orng, f-crs,pr-mod srt,sbrnd,tr nod pyr, lse,cln, gd inf por,no fluor.

SANDSTONE:clr,trnsl,f-occ med, mod wl srt,sbrnd-sbang,lse,cln,tr carb spks,gd inf por,no fluor.

22-06-05

23-06-05

950
(949.8)

975
(974.7)

1000
(999.7)

WOB: 5-25 klbs
RPM: 90-150
SPP: 2300-3120 psi
FLW: 870-1055 gpm

1025
(1024.6)

1050
(1049.6)

1075
(1074.5)

WOB: 20-27 klbs
RPM: 130-145
SPP: 2650-2850 psi
FLW: 980-1005 gpm

1100
(1099.4)

1125
(1124.2)

MW 1.22
FV 55
PV 15
YP 26
Gel 10
FL 4.8
Ck 1
Sol 9
pH 9.0
Cl 42k

1150

100% C1

SANDSTONE:clr,trnsl,f-occ vf, wl srt,sbrnd-sbang,tr carb spks, cln,lse,gd inf por,no fluor.

SANDSTONE:clr,trnsl,f-occ med, mod wl srt,sbrnd-sbang,tr carb spks,cln,lse qtz,gd inf por,no fluor.

SANDSTONE:clr,trnsl,f-med, mod wl srt,sbrnd-sbang,tr carb spk,cln lse qtz,gd inf por,no fluor.

SANDSTONE:clr,trnsl,f-med,mod wl srt,sbrnd-sbang,tr carb spks, cln & lse,gd inf por,no fluor.

Change over to KCL/IDCAP-D mud system at 994m

SANDSTONE:clr-trnsl-pl gry, f-vcrs dom med-crs,sbrnd-sbang, pr srt,wk sil cmt,tr nod pyr,lse, fr inf por,no fluor.

Survey @ 1006.82m: 3.06°, 237.5Az

CLAYSTONE:med-dk brn,carb lams/spks,slty i/p,sbblky-amorph, sft-frm.

SANDSTONE:clr-trnsl-pl gry, f-vcrs dom med-crs,sbrnd-sbang, pr srt,wk sil cmt,tr nod pyr,lse, fr inf por,no fluor.

CLAYSTONE:med-dk brn,carb lams/spks,slty i/p,sbblky-amorph, sft-frm.

Survey @ 1067.61m: 5.74°, 249.4Az

CLAYSTONE:med-dk brn,carb lams/spks,tr nod pyr,slty i/p,sbblky-amor,sft-frm.

SANDSTONE: clr,trnsl,wh,f-crs, pred med,pr-fr srt,sbrnd,tr wk sil cmt,rr slty mtx,tr nod pyr, lse & qtz grs,fr inf por,no fluor.

CLAYSTONE: brn blk-dsky brn, slty i/p,grd to Arg SLTST,tr carb spks,mnr nod pyr,tr glauc, sbblky-amorph,sft-disp.

SANDSTONE: clr,trnsl,wh,f-crs, pred med,pr-fr srt,sbrnd-sbang, tr wk sil cmt,tr nod pyr,lse & cln qtz grs,fr inf por,no fluor.

SANDSTONE:trnsl,clr,wh,f-crs, pred med-crs,fr srt,sbang-sbrnd, wk sil cmt,tr lt gry slty mtx,tr nod pyr,tr f gr glauc,pred cln qtz grs,fr-gd inf por,no fluor.

Rmf @ 1150: 0.09 ohms @ 75°F

Survey @ 1150.27m: 5.53°, 253.0Az

23-06-05

24-06-05

WOB: 1-5 klbs
RPM: 180
SPP: 2850-2950 psi
FLW: 980-990 gpm

WOB: 1-4 klbs
RPM: 180
SPP: 2850-2950 psi
FLW: 980-990 gpm

WOB: 2-5 klbs
RPM: 180
SPP: 2850-2950 psi
FLW: 980-990 gpm

MW 1.22
FV 49
PV 11
YP 26
Gel 8
FL 5.0
Ck 1
Sol 10
pH 8.4
Cl 45k

24-06-05

25-06-05

WOB: 5-20 klbs
RPM: 100-170
SPP: 2880-3030 psi

1175 (1149.1)
1200 (1174)
1225 (1198.9)
1250 (1223.8)
1275 (1248.7)
1300 (1273.5)
1325 (1298.4)
1350 (1323.3)
(1348.2)

100 / Tr
100 / Tr
100 / Tr
99 / 1

SILTSTONE:med-dk grnsh gry,olv brn,arg,grd to slty CLYST,tr f gr glauc,tr nod pyr,frm,disp i/p,sbblky

BIT #4RR Smith MA89PX
SIZE: 12.25" JETS:7x14
IN:1160m OUT:1392m
RUN:232m HRS:15.2
COND:1-1-BT-S-X-I-BU-PR

SANDSTONE:trnsl,clr,wh,f-crs, pred med-crs,fr srt,sbang-sbrnd, wk sil cmt,tr lt gry slty mtx,tr nod pyr,tr f gr glauc,pred cln,lse, fr-gd inf por,no fluor.

Survey @ 1178.55m: 5.52°, 254.5Az

SILTSTONE:dk grnsh brn-olv brn, arg,tr glauc,tr nod pyr,sft,disp, amorph-sbblky.

SANDSTONE:trnsl,clr,wh,vf-crs, pred f-med,pr srt,sbang-sbrnd, wk sil cmt,lse,com lt gry slty mtx, rr nod pyr,tr glauc,pr inf por,no fluor.

Survey @ 1207.09m: 5.50°, 252.6Az

SANDSTONE:clr-trnsl,wh-lt gry,f-med,fr srt,sbang-sbrnd,rr mod sil cmt,rr nod pyr,tr f gr glauc,dom lse,tr mod hd,pr-fr inf por,no fluor.

SILTSTONE:olv brn,tr grnsh gry, arg,tr dissem pyr,tr lith,sft,disp sbblky-amorph.

SANDSTONE:clr,trnsl,wh-lt gry vf-med,sbang-sbrnd,tr wk sil cmt, rr nod pyr,tr glauc,lse,pr-fr inf por, no fluor.

SILTSTONE:drk gry-drk grn,mott i/p,tr nod pyr,tr carb spks,tr lith, sft-disp,amorph.

SILTSTONE:dk gry-dk grn,mott i/p,tr nod pyr,tr carb spks,tr lith, sft-disp,amorph.

Survey @ 1294.00m: 5.38°, 250.7Az

SILTSTONE:brnsh gry-dk gry,aren, tr-rr dissem pyr,sft-disp,amorph.

Survey @ 1322.59m: 5.29°, 252.0Az

SANDSTONE:trnsl-frstd,vf-m, sbrnd-sbang,wk mod srt,wk sil cmt,lse,fr inf por,no fluor.

SILTSTONE:dk grnsh gry-olv gry, aren,com glauc,tr nod pyr, frm-hd,sbblky.

Survey @ 1351.22m: 5.31°, 252.3Az

SANDSTONE:trnsl-frstd,vf-m, sbrnd-sbang,pr-mod srt,wk sil

FLW: 1000 gpm

MW 1.22
FV 49
PV 14
YP 36
Gel 10
FL 4.5
Ck 1
Sol 10
pH 7.9
Cl 46k

WOB: 8-17 klbs
RPM: 150-160
SPP: 3050-3200 psi
FLW: 920-970 gpm

400 100 10 0

WOB: 8-13 klbs
RPM: 150-160
SPP: 3100-3230 psi
FLW: 970 gpm

0 50 100

0 100 200

WOB: 6-15 klbs
RPM: 150-170
SPP: 3150-3330 psi
FLW: 950-970 gpm

1375
(1373.1)

1400
(1398)

1425
(1422.9)

1450
(1447.8)

1475
(1472.7)

1500
(1497.6)

1525
(1522.5)

1550
(1547.3)

99 / 1 / Tr

10 100 1K

.1 1 10 100 1K

1391m-1439m: Gas Readings Taken
From Auxillary Gas Detectors

100% C1

100% C1

99 / 1 / Tr

99 / 1 / Tr

99 / 1 / Tr

99 / 1 / Tr

100 1K 10K

.01 .1 1 10 100

cmt,lse,fr inf por,no fluor.

SILTSTONE:dk grnsh gry-bnsh gry,
aren,tr glauc,tr nod pyr,
sft,disp,amorph-sbblky.

Survey @ 1377.53m: 5.17°, 251.9Az

SANDSTONE:trnsl-frstd,vf-m,
sbrnd-sbang,pr-mod srt,wk sil
cmt,lse,fr inf por,no fluor.

SILTSTONE:dk grnsh gry-bnsh gry,
aren,com glauc,tr nod pyr,
sft,disp,amorph-sbblky.

Rmf @ 1392: 0.09 ohms @ 75°F

BIT #5 Hycalog DSX104
SIZE:12.25" JETS:3x16,2x18
IN:1392m OUT:1730m
RUN:338m HRS:7.4
COND:1-1-BT-T-X-I-NO-TD

Survey @ 1406.19m: 5.23°, 251.2Az

SILTSTONE:mod brn-lt brn,pred arg,
vf aren i/p,tr mic carb spks,rr
glauc,tr nod & dissem pyr,sft-frm,
rr mod hd,sbblky-amorph.

Survey @ 1434.97m: 5.43°, 251.5Az

SANDSTONE:clr-trnsl,wh,f-med
gry,fr srt,sbang-sbrnd,mnr glauc,
tr nod pyr,lse,fr inf por,
no fluor.

Survey @ 1463.79m: 5.42°, 253.4Az

SILTSTONE: olv gry,med dk gry
med gry-brnsh gry,arg,rr f gr glauc,
tr nod pyr,sft-frm sbblky-amor.

SANDSTONE:clr-trnsl,wh,f-med,
fr srt,sbang-sbrnd,tr glauc,
tr nod pyr,lse,fr inf por,
no fluor.

Survey @ 1492.55m: 5.42°, 251.3Az

SILTSTONE:mod brn-lt brn,pred
arg,vf aren i/p,rr glauc,tr nod &
dissem pyr,sft-frm,rr mod hd,
sbblky-amorph.

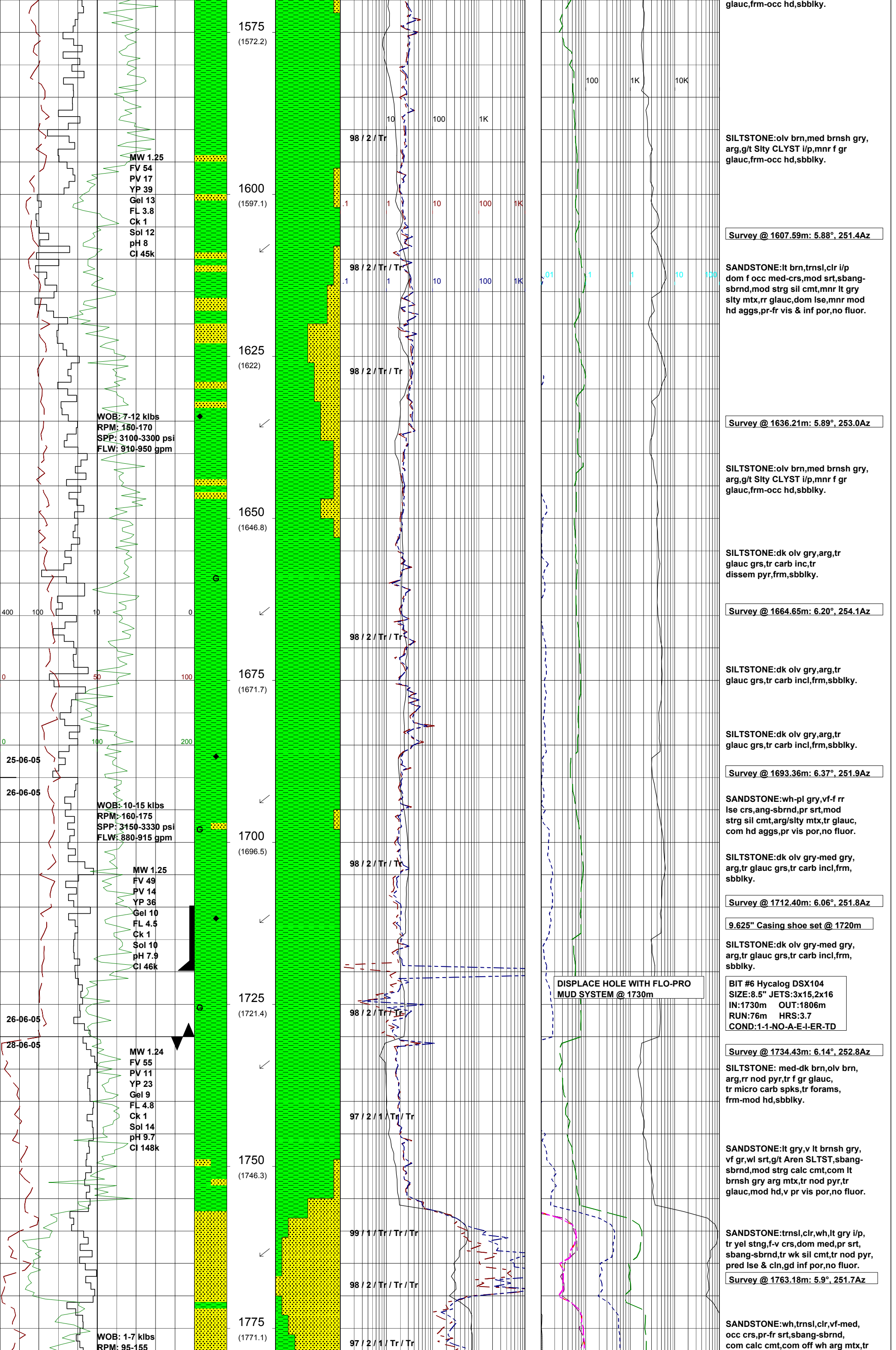
Survey @ 1521.49m: 5.55°, 253.6Az

SANDSTONE:clr,trnsl,wh-lt gry,occ
yel Fe stng,vf-med,fr srt, pred
mod strg sil cmt,tr lt gry slty mtx,
tr nod pyr,rr f gr glauc,lse qtz,
fr-gd inf por,no fluor.

Carbide Lag Check @ 1542m:
Theor. Stks: 5575
Actual Stks: 8700
Open Hole Overgauge: 69%
Average Hole Size: 15.9" (404mm)

Survey @ 1550.14m: 5.55°, 251.9Az

SILTSTONE:olv brn,med brnsh gry,
arg,g/t Slty CLYST i/p,mnr f gr



glauc,frm-occ hd,sbblky.

SILTSTONE:olv brn,med brnsh gry, arg,g/t Slty CLYST i/p,mnr f gr glauc,frm-occ hd,sbblky.

Survey @ 1607.59m: 5.88°, 251.4Az

SANDSTONE:lt brn,trnsl,clr i/p dom f occ med-crs,mod srt,sbang-sbrnd,mod strg sil cmt,mnr lt gry slty mtx,rr glauc,dom lse,mnr mod hd aggs,pr-fr vis & inf por,no fluor.

Survey @ 1636.21m: 5.89°, 253.0Az

SILTSTONE:olv brn,med brnsh gry, arg,g/t Slty CLYST i/p,mnr f gr glauc,frm-occ hd,sbblky.

SILTSTONE:dk olv gry,arg,tr glauc grs,tr carb inc,tr dissem pyr,frm,sbblky.

Survey @ 1664.65m: 6.20°, 254.1Az

SILTSTONE:dk olv gry,arg,tr glauc grs,tr carb incl,frm,sbblky.

SILTSTONE:dk olv gry,arg,tr glauc grs,tr carb incl,frm,sbblky.

Survey @ 1693.36m: 6.37°, 251.9Az

SANDSTONE:wh-pl gry,vf-f rr lse crs,ang-sbrnd,pr srt,mod strg sil cmt,arg/slty mtx,tr glauc, com hd aggs,pr vis por,no fluor.

SILTSTONE:dk olv gry-med gry, arg,tr glauc grs,tr carb incl,frm, sbblky.

Survey @ 1712.40m: 6.06°, 251.8Az

9.625" Casing shoe set @ 1720m

SILTSTONE:dk olv gry-med gry, arg,tr glauc grs,tr carb incl,frm, sbblky.

DISPLACE HOLE WITH FLO-PRO MUD SYSTEM @ 1730m

BIT #6 Hycalog DSX104
SIZE:8.5" JETS:3x15,2x16
IN:1730m OUT:1806m
RUN:76m HRS:3.7
COND:1-1-NO-A-E-I-ER-TD

Survey @ 1734.43m: 6.14°, 252.8Az

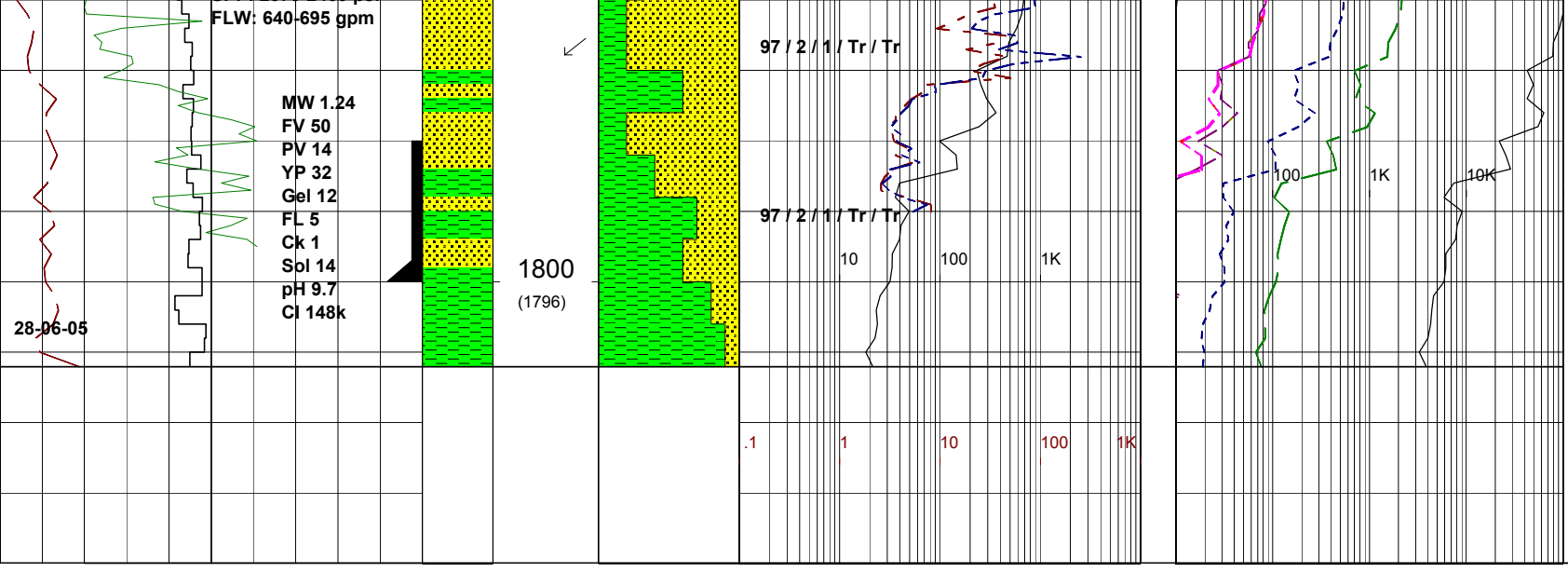
SILTSTONE: med-dk brn,olv brn, arg,rr nod pyr,tr f gr glauc, tr micro carb spks,tr forams, frm-mod hd,sbblky.

SANDSTONE:lt gry,v lt brnsh gry, vf gr,wl srt,g/t Aren SLTST,sbang-sbrnd,mod strg calc cmt,com lt brnsh gry arg mtx,tr nod pyr,tr glauc,mod hd,v pr vis por,no fluor.

SANDSTONE:trnsl,clr,wh,lt gry i/p, tr yel stng,f-v crs,dom med,pr srt, sbang-sbrnd,tr wk sil cmt,tr nod pyr, pred lse & cln,gd inf por,no fluor.

Survey @ 1763.18m: 5.9°, 251.7Az

SANDSTONE:wh,trnsl,clr,vf-med, occ crs,pr-fr srt,sbang-sbrnd, com calc cmt,com off wh arg mtx,tr lith,tr nod pyr,fri aggs,lse i/p,



pr-fr vis & inf por,no fluor.

Survey @ 1783.40m: 5.66°, 250.5Az

SILTSTONE:lt-med gry,lt-med brnsh gry,aren g/t & lam w/ f gr SST, tr f gr lith,tr carb spks/flks,tr vf glauc,fri-frm,sbblky.

Sandscreens/7.625" Csg to 1800m

SANDSTONE:wh,v lt gry,trsnl,vf-f tr med,mod strg calc cmt,com off wh-v lt brn arg/slty mtx,com f gr glauc,tr nod pyr,tr carb flks,fri-occ mod hd,pr vis por,no fluor.

Casino 5 T.D. of 1806m reached at 19:00 hrs on 28-06-05