

**Baker Atlas**

FILE NO:	COMPANY	SANTOS & PARTNERS
API NO:	WELL	CASINO-4
VIC P-44	FIELD	CASINO
	RIG NAME	OCEAN PATRIOT
	COUNTRY	AUSTRALIA

Ver. 3.87	LOCATION:	OTHER SERVICES
SCALE 1:500	LAT: 38 DEG 47' 13.03" SOUTH	DLL/MLL/GR
	LONG: 142 DEG 41' 54.49" EAST	ZD/CN/GR
	EASTING: 647.518.19M E	
	NORTHING: 5.705.495.28M N	

PERMANENT DATUM	LAT	ELEVATION	0 M	ELEVATIONS:
LOG MEASURED FROM	RT	22 M	ABOVE P.D.	KB -
DRILL MEAS. FROM	RT			DF 22 M
				GL -70.8 M

DATE	TRIP	19-MAY-2005	1
SERVICE ORDER		516574	
DEPTH DRILLER		1825 M	
DEPTH LOGGER		1810.5 M (HUD)	
BOTTOM LOGGED INTERVAL		1808 M	
TOP LOGGED INTERVAL		1715 M	
CASING DRILLER		340 MM	727.87 M
CASING LOGGER		729 M	
BIT SIZE		311 MM	
TYPE OF FLUID IN HOLE		KCL / IDCAP D	
DENSITY	VISCOSITY	1.3 G/C3	64 S
PH	FLUID LOSS	9	3.4 C3
SOURCE OF SAMPLE	FLOWLINE		
RM AT MEAS. TEMP.		0.104 OHMM	18.17 DEGC
RMF AT MEAS. TEMP.		0.085 OHMM	17.88 DEGC
RMC AT MEAS. TEMP.		0.301 OHMM	18.54 DEGC
SOURCE OF RMF	RMC	MEASURED	MEASURED
RM AT BHT		0.045 OHMM	69.4 DEGC
TIME SINCE CIRCULATION		9 HRS	
MAX. RECORDED TEMP.		69.4 DEGC	
EQUIP. NO.	LOCATION	8677	PERTH
RECORDED BY		S. ARELLANO / M. REYES	
WITNESSED BY		SUBRAMANIAN / GIULIANO	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
914 MM	SEABED	137.4 M
445 MM	137.4 M	742 M
311 MM	742 M	1825 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
762 MM	N/A	X56	SEABED	137.4 M
340 MM	107 KG/M	L80	SEABED	727.87 M

**REMARKS**

RUN 2 TRIP 1:

- \*. LOG CORRELATED TO DLL/MLL/GR BY BAKER ATLAS DATED 18-05-2005
- \*. TOOL ZEROED @ 12:15 ON 19-05-2005 WITH A TIDAL CORRECTION OF -0.4 MTS
- \*. CIRCULATION STOPPED AT 04:30 ON 19-MAY-2005
- \*. HUNG UP DEPTH (HUD) LOGGED @ 1810.5 M
- \*. CASING LOGGED @ 729 M.
- \*. ADDITIONAL MUD PROPERTIES:  
PV/YP: 24 / 31  
SALINITY: 40000 MG/L ==> 55384 PPM  
BARITE: % ; KCL: 6%  
SOLIDS: 13%; OIL: 0%; WATER: 87%.
- \*. MAX DEVIATION = 4.65 DEG @ 1301 M (PROVIDED BY CUSTOMER)
- \*. MAX MUM TEMPERATURE RECORDED: 69.4 DEGC

- \*. ZDL/CN/DSL/MREX RUN IN COMBINATION AND DECENTRALISED
- \*. REPEAT SECTION NOT LOGGED BY CUSTOMER'S REQUEST.
- \*. ALL SCALES & PRESENTATIONS SET IN ACCORDANCE TO THE LOGGING PROGRAM, AND CUSTOMER REQUIREMENTS BOOK
- \*. GR RECORDED WITH BOTH LIGHT AND NO FILTER
- \*. CALIPER RECORDED WITH NO FILTER
- \*. MREX RECORDED IN TWO PASSES.  
BOTTOM INTERVAL: 1786 M - 1808 M  
TOP INTERVAL: 1715 M - 1783 M
- \*. MREX RECORDED IN PP+GAS MODE WITH A SUBSET 0 OF 12 S
- \*. ONLY FIELD DELIVERABLE CURVES PRESENTED IN THIS LOG. FURTHER POST-PROCESSING IS REQUIRED

### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWIVEL	3944XB	10127260	FREE
2	1	PWR ADAPT	4430XB	190443	FREE
2	1	TTRM	3981XA	10045152	FREE
2	1	COMM REMOTE	3514XB	178699	FREE
2	1	GR/DSL	1329XB	184113	FREE
2	1	CN	2446XA	153093	DECENTRALISED
2	1	ZDL	2228EA/2228MA	185478/188262	PAD DEVICE
2	1	MREX	3218QB	10076158	DECENTRALISED
2	1	MREX	3218EA/3218MA	403512/10074197	DECENTRALISED

## INSTRUMENT CONFIGURATION

#### CABLEHEAD

Series : CABL338  
 Mnemonic : CBLH  
 Diameter : 3.38"  
 Weight : 10.9 kg

#### SWIVEL

Series : 3944XB  
 Mnemonic : SWVL  
 Diameter : 3.38"  
 Weight : 29.5 kg

#### DOWNHOLE POWER ADAPTER

Series : 4430XB  
 Mnemonic : DHPA  
 Diameter : 3.62"  
 Weight : 36.4 kg

#### TTRM SUB

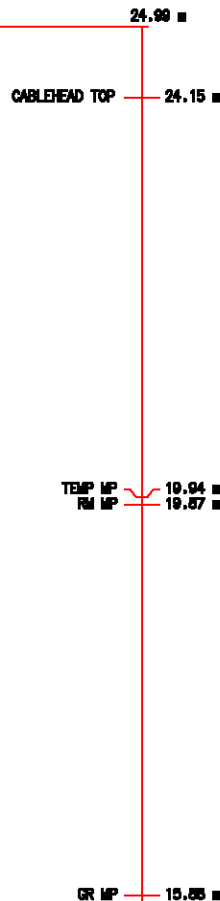
Series : 3981XA  
 Mnemonic : TTRM  
 Diameter : 3.63"  
 Weight : 36.4 kg

#### WTS COMMON REMOTE

Series : 3514XA  
 Mnemonic : WTS  
 Diameter : 3.63"  
 Weight : 65.5 kg

#### DIGITAL SPECTRALOG

Series : 1329XA  
 Mnemonic : DSL  
 Diameter : 3.63"  
 Weight : 64.5 kg



**COMPENSATED NEUTRON**  
 Series : 2448KA  
 Mnemonic : CN  
 Diameter : 3.63"  
 Weight : 66.2 kg

LSN MP : 13.86 m  
 SSN MP : 13.77 m

**Z-DENS LOG**  
 Series : 2228KA  
 Mnemonic : ZDL  
 Diameter : 4.69"  
 Weight : 213.6 kg

SSD MP : 8.51 m  
 CAL / ZSPEC MP : 8.41 m

**MREX CAPACITOR CHARGER SUB**  
 Series : 3218PA  
 Mnemonic : MREX  
 Diameter : 3.62"  
 Weight : 60.0 kg

**MREX ELECTRONICS**  
 Series : 3218EA  
 Mnemonic : MREX  
 Diameter : 5.00"  
 Weight : 80.9 kg

**MREX MAGNET**  
 Series : 3218MA  
 Mnemonic : MREX  
 Diameter : 5.00"  
 Weight : 140.9 kg

ANTENNA : 1.50 m

**BULL PLUG 3 1/8**

0.00 m

TOTAL LENGTH: 25.05 m  
 TOTAL WEIGHT: 841.4 kg  
 MAX DIAMETER: 0"5.00"

## MAIN LOG 1:200 SCALE

ECLIPS 5.0 Nov 26, 2003  
 Updates: 1,2,3,32

Pcrplt /main/59

Cplot 7.09  
 Pdf\_Cpp /main/16

Thu May 19 19:47:17 2005  
 Fileview 4.67

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/casino4/suite1/1850b03.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 1706.245 m BOTTOM DEPTH: 1816.141 m

SYMMETRIC FILTER

**SYMMETRIC FILTER**

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
GR	FILTER ( )	light (2)		TOP	BOTTOM
X AXIS CALIPER	FILTER ( )	no filter (0)		''	''
	FILTER (.h)	no filter (0)		''	''
	FILTER (.l)	no filter (0)		''	''
MREX - POROSITY	FILTER ( )	medium (1)		''	''

**BOREHOLE & CEMENT**

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	311.150	mm	TOP	BOTTOM

**MREX GENERAL**

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MREX TCC	ACM NAME	ppgas_acm		TOP	BOTTOM

**MREX ACQUISITION PARAMETERS**

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MREX TCC	SUBSET 0 INTERVAL	12.000	s	TOP	BOTTOM
	NUM FREQ GROUPS	1		''	''
	1ST FREQ	INDEX 12, 867.6 kHz		''	''
	2ND FREQ	INDEX 10, 777.6 kHz		''	''
	3RD FREQ	INDEX 8, 690.0 kHz		''	''
	4TH FREQ	INDEX 6, 621.9 kHz		''	''
	5TH FREQ	INDEX 4, 554.3 kHz		''	''
	6TH FREQ	INDEX 2, 499.8 kHz		''	''
	NOMINAL TIP ANG (B)	135	deg	''	''
	PULSE SHAPE	SOFT		''	''
	TW LONG MODE	NORMAL		''	''
	1ST T2 TE	0.60	ms	''	''
	2ND T2 TE	0.80	ms	''	''
	3RD T2 TE	0.60	ms	''	''
	1ST T2 ECHOES	690		''	''
	2ND T2 ECHOES	690		''	''
	3RD T2 ECHOES	690		''	''
	4TH T2 ECHOES	690		''	''
	1ST T2 TW	8.296	s	''	''
	2ND T2 TW	9.214	s	''	''
	3RD T2 TW	0.986	s	''	''
	4TH T2 TW	11.094	s	''	''
	1ST T2 TRAIN LENGTH	414	ms	''	''
	2ND T2 TRAIN LENGTH	414	ms	''	''
	3RD T2 TRAIN LENGTH	414	ms	''	''
	4TH T2 TRAIN LENGTH	414	ms	''	''
	1ST BVI TE	0.40	ms	''	''
	2ND BVI TE	0.40	ms	''	''
	1ST BVI ECHOES	25		''	''
	2ND BVI ECHOES	25		''	''
	1ST BVI TW	0.050		''	''
	2ND BVI TW	0.100		''	''
	1ST BVI TRAIN LEN	10	ms	''	''
	2ND BVI TRAIN LEN	10	ms	''	''
	CBW TE	0.40	ms	''	''
	CBW ECHOES/PACKET	25		''	''
	CBW TRAIN LENGTH	10	ms	''	''
	1ST CBW PACKETS	16		''	''
	2ND CBW PACKETS	16		''	''
	3RD CBW PACKETS	16		''	''
4TH CBW PACKETS	16		''	''	
CBW TW	0.020	s	''	''	

**MREX PROCESSING**

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CAUTION!!! FIXED/COMPUTED PHIA/PHIB/PHIA/PHIB SELECTION		COMPUTED (DEFAULT)		TOP	BOTTOM
NOISE & CAL PULSE SELECTION	FREQ DISPLAY SELECT	FREQUENCY A		''	''
POROSITY	MBVI/MBVM BOUNDARY	CLASTIC (33 ms)		''	''
	USER MBVI/MBVM	33	ms	''	''
	CBW CUTOFF	3.4	ms	''	''
PERMEABILITY	Coates M exponent	4.000		''	''
	Coates N exponent	2.000		''	''
	Coates Constant	10.000		''	''

INVERSION (FITTING) PARAMETERS	T2 FIRST BIN	4.00	ms	TOP	4.945	BOTTOM
	T2 LAST BIN	1024.00	ms	"	"	BOTTOM
	T2 BINS USED	17		"	"	"
	BVI FIRST BIN	4.00	ms	"	"	"
	BVI LAST BIN	1024.00	ms	"	"	"
	BVI BINS USED	13		"	"	"
	CBW FIRST BIN	0.35	ms	"	"	"
	CBW LAST BIN	1024.00	ms	"	"	"
	CBW BINS USED	16		"	"	"
	TPOR FIRST BIN	0.35	ms	"	"	"
	TPOR LAST BIN	1024.00	ms	"	"	"
	TPOR BINS USED	24		"	"	"
RESET PHASE ROTATION ANGLE	RESET ACCUM. PHASE	RESET ACCUM PHASE		"	"	"
CLAY BOUND WATER CORRECTION	CBW CORRECTION	ON		"	"	"
STACK T2 with UNEQUAL LONG TWs	T2 TW UPPER LIMIT	25	s	"	"	"
STACK T2 with LONG TW BVI	STACK T2 and BVI	STACK T2-BVI		"	"	"
MREX FORMATION/BOREHOLE TEMP	BOREHOLE TEMP SRC	3981 TTRm		"	"	"

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/casino4/suite1/1850b05.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 1707.773 m BOTTOM DEPTH: 1787.534 m

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
GR	FILTER ( )	light (2)		TOP	BOTTOM
X AXIS CALIPER	FILTER ( )	no filter (0)		"	"
	FILTER (.h)	no filter (0)		"	"
	FILTER (.i)	no filter (0)		"	"
MREX - POROSITY	FILTER ( )	medium (1)		"	"

### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	311.150	mm	TOP	BOTTOM

### MREX GENERAL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MREX TCC	ACM NAME	ppgas_acm		TOP	BOTTOM

### MREX ACQUISITION PARAMETERS

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MREX TCC	SUBSET 0 INTERVAL	12.000	s	TOP	BOTTOM
	NUM FREQ GROUPS	1		"	"
	1ST FREQ	INDEX 12, 867.6 kHz		"	"
	2ND FREQ	INDEX 10, 777.6 kHz		"	"
	3RD FREQ	INDEX 8, 690.0 kHz		"	"
	4TH FREQ	INDEX 6, 621.9 kHz		"	"
	5TH FREQ	INDEX 4, 554.3 kHz		"	"
	6TH FREQ	INDEX 2, 499.8 kHz		"	"
	NOMINAL TIP ANG (B)	135	deg	"	"
	PULSE SHAPE	SOFT		"	"
	TW LONG MODE	NORMAL		"	"
	1ST T2 TE	0.60	ms	"	"
	2ND T2 TE	0.60	ms	"	"
	3RD T2 TE	0.60	ms	"	"
	1ST T2 ECHOES	690		"	"
	2ND T2 ECHOES	690		"	"
	3RD T2 ECHOES	690		"	"
	4TH T2 ECHOES	690		"	"
	1ST T2 TW	8.296	s	"	"
	2ND T2 TW	9.214	s	"	"
	3RD T2 TW	0.986	s	"	"
	4TH T2 TW	11.094	s	"	"
	1ST T2 TRAIN LENGTH	414	ms	"	"
	2ND T2 TRAIN LENGTH	414	ms	"	"
	3RD T2 TRAIN LENGTH	414	ms	"	"
	4TH T2 TRAIN LENGTH	414	ms	"	"
	1ST BVI TE	0.40	ms	"	"
	2ND BVI TE	0.40	ms	"	"

2ND BVI TE	0.40	ms	''	''
1ST BVI ECHOES	25		''	''
2ND BVI ECHOES	25		''	''
1ST BVI TW	0.050		''	''
2ND BVI TW	0.100		''	''
1ST BVI TRAIN LEN	10	ms	''	''
2ND BVI TRAIN LEN	10	ms	''	''
CBW TE	0.40	ms	''	''
CBW ECHOES/PACKET	25		''	''
CBW TRAIN LENGTH	10	ms	''	''
1ST CBW PACKETS	16		''	''
2ND CBW PACKETS	16		''	''
3RD CBW PACKETS	16		''	''
4TH CBW PACKETS	16		''	''
CBW TW	0.020	s	''	''

### MREX PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CAUTION!!! FIXED/COMPUTED PHIA/PHIBPHIA/PHIB SELECTION		COMPUTED (DEFAULT)		TOP BOTTOM
NOISE & CAL PULSE SELECTION	FREQ DISPLAY SELECT	FREQUENCY A		'' ''
POROSITY	MBVI/MBVM BOUNDARY	CLASTIC (33 ms)		'' ''
	USER MBVI/MBVM	33	ms	'' ''
	CBW CUTOFF	3.4	ms	'' ''
PERMEABILITY	Coates M exponent	4.000		'' ''
	Coates N exponent	2.000		'' ''
	Coates Constant	10.000		'' ''
AVERAGING LENGTH (SAMPLES)	ET Averaging Length	8 samples		'' ''
INVERSION (FITTING) PARAMETERS	T2 FIRST BIN	4.00	ms	'' ''
	T2 LAST BIN	1024.00	ms	'' ''
	T2 BINS USED	17		'' ''
	BVI FIRST BIN	4.00	ms	'' ''
	BVI LAST BIN	1024.00	ms	'' ''
	BVI BINS USED	13		'' ''
	CBW FIRST BIN	0.35	ms	'' ''
	CBW LAST BIN	1024.00	ms	'' ''
	CBW BINS USED	16		'' ''
	TPOR FIRST BIN	0.35	ms	'' ''
	TPOR LAST BIN	1024.00	ms	'' ''
	TPOR BINS USED	24		'' ''
RESET PHASE ROTATION ANGLE	RESET ACCUM. PHASE	RESET ACCUM PHASE		'' ''
CLAY BOUND WATER CORRECTION	CBW CORRECTION	ON		'' ''
STACK T2 with UNEQUAL LONG TWs	T2 TW UPPER LIMIT	25	s	'' ''
STACK T2 with LONG TW BVI	STACK T2 and BVI	STACK T2-BVI		'' ''
MREX FORMATION/BOREHOLE TEMP	BOREHOLE TEMP SRC	3981 TTRm		'' ''

### CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	May 19 14:22:42 2005	BIT SIZE
F1:CAL	CAL	May 19 14:22:42 2005	CALIPER
F1:CHI	CHI	May 19 14:22:42 2005	THE GOODNESS OF FIT OF EACH ECHO DATA PACKET
F1:DIFE13	DIFE13_TITLE	May 19 14:22:42 2005	DIFFERENTIAL POROSITY FROM T2 ECHO TRAINS 1 AND 3
F1:GR	GR	May 19 14:22:42 2005	GAMMA RAY
F1:MBVI	MBVI	May 19 14:22:42 2005	BULK VOLUME IRREDUCIBLE
F1:MPHE	MPHE	May 19 14:22:42 2005	EFFECTIVE POROSITY
F1:MPHS	MPHS	May 19 14:22:42 2005	TOTAL POROSITY
F1:MPRM	MPRM	May 19 14:22:42 2005	PERMEABILITY
F1:TPOR	TPOR_TITLE	May 19 14:22:42 2005	TOTAL POROSITY (CBW + T2 BIN ARRAY)
F1:TPORA3	TPORA3	May 19 14:22:42 2005	3RD TOTAL POROSITY (CBW + T2 BIN ARRAY)

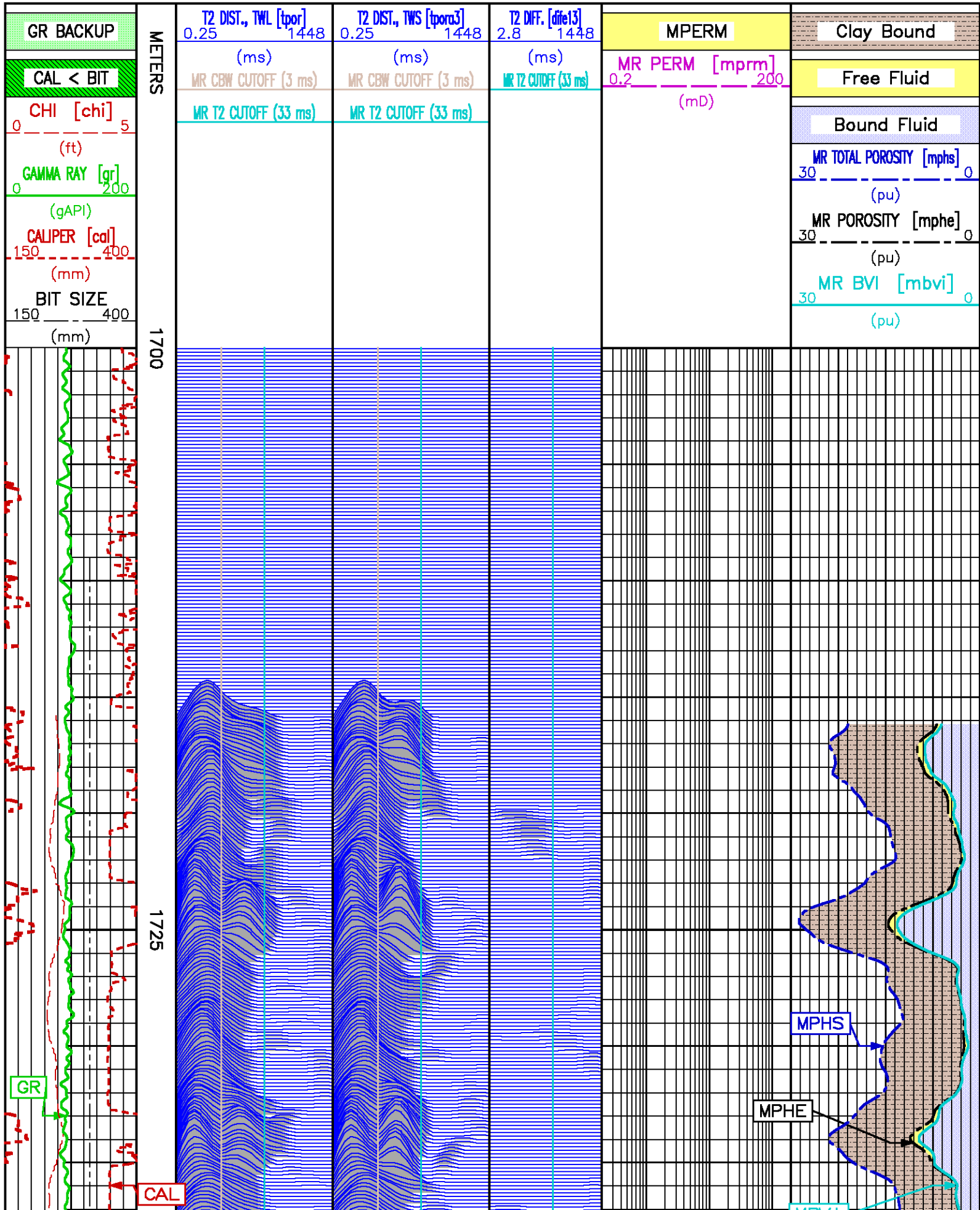
### CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DIFE13	1.52	MPHE	1.52	TPOR	1.52
CAL	8.38	GR	15.85	MPHS	1.52	TPORA3	1.52
CHI	1.52	MBVI	1.52	MPRM	1.52		

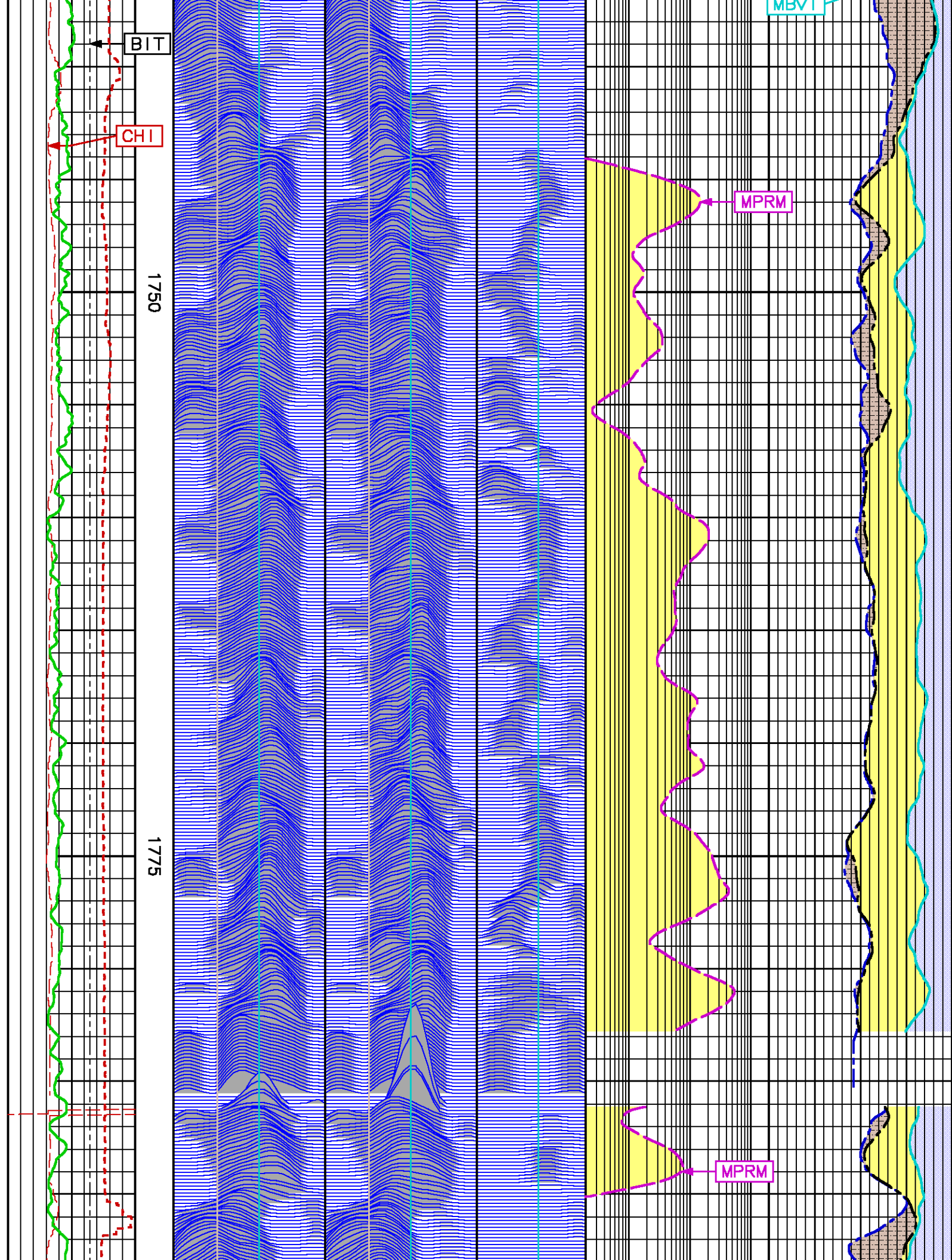
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 Plot Interval : 1700 - 1820 Meters

Data File 1 : F1 : sys1:/dat1a/caslna4/sulte1/1850bs.xtf  
 Created On : May 19 13:30:38 2005  
 Company : SANTOS & PARTNERS

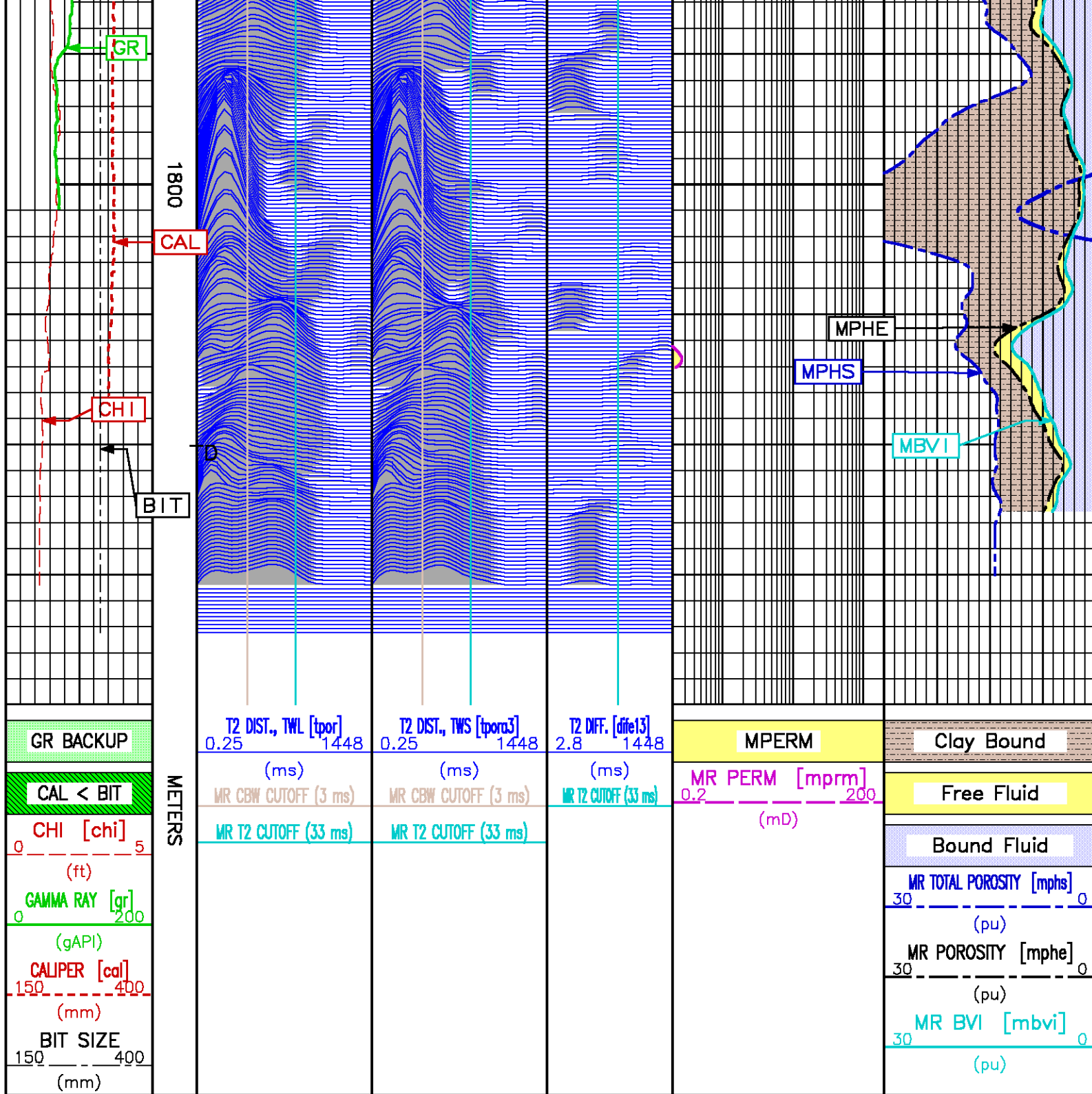
Company : SANTOS & PARTNERS  
 Well : CASINO-4  
 Field : CASINO  
 File Interval : 1689.35 - 1817.22 Meters  
 Oct : 1850b











## CALIBRATION / VERIFICATION SUMMARY

### GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 184113

DATE/TIME PERFORMED: Sat May 14 13:10:02 2005

UNIT #: 3854SA 008677 CALB JIG #: 4702NK S2K-WA671

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	494.47	1410.51	916.0 870.0 960.0	0.164	80.97	230.97	150

### GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 184113 DATE/TIME PERFORMED: Sat May 14 13:12:10 2005

UNIT #: 3854SA 008677 VERI JIG #: 4702NK S2K-WA671

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	512.62	1418.33	0.164	83.94	232.25	148.31 140.00 160.00

### GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 184113 DATE/TIME PERFORMED: Sat May 14 13:14:50 2005

UNIT #: 3854SA 008677 VERI JIG #: 4702NK S2K-WA671

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	514.00	1417.22	0.164	84.17	232.07	147.90 138.31 158.31

### GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 184113 DATE/TIME PERFORMED: Thu May 19 16:47:01 2005

UNIT #: 3854SA 008677 VERI JIG #: 4702NK S2K-WA671

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	372.80	1235.16	0.164	61.05	202.25	141.21 137.90 157.90

### MREX\_1FSWP PRIMARY CALIBRATION SUMMARY

TOOL #: 3218MA 512197 DATE/TIME PERFORMED: Mon Feb 28 14:38:41 2005

UNIT #: drwlab 100219

FREQ	FREQ	FREQ	FREQ	FREQ	FREQ	FREQ	FREQ
1	2	3	4	5	6	7	8

	1	2	3	4	5	6	7	8
NOMINAL kHz	445.3	498.8	526.3	553.3	587.9	621.0	653.0	688.6
CALIBRATED	445.4	498.8	526.2	553.3	587.8	620.9	652.9	688.6
OFFSET kHz	0.1 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	-0.2 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	-0.1 <small>-2.0 2.0</small>	-0.1 <small>-2.0 2.0</small>	-0.1 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>
Q EST.	45.1	47.5	48.7	51.3	52.4	53.5	52.6	51.4
NOISE	4.3	3.9	4.1	4.9	7.3	6.7	6.3	4.8

	FREQ 9	FREQ 10	FREQ 11	FREQ 12	FREQ 13	FREQ 14	FREQ 15	FREQ 16
NOMINAL kHz	728.9	774.2	824.6	866.3	0.0	0.0	0.0	0.0
CALIBRATED	728.9	774.2	824.6	866.3	0.0	0.0	0.0	0.0
OFFSET kHz	0.0 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	-0.1 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>	0.0 <small>-2.0 2.0</small>
Q EST.	52.0	52.9	55.1	53.3	0.0	0.0	0.0	0.0
NOISE	5.3	4.9	5.8	6.3	0.0	0.0	0.0	0.0

## MREX\_1FSWP BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3218MA 512197

DATE/TIME PERFORMED: Thu May 19 13:05:51 2005

UNIT #: 3854SA 008677

	FREQ 1	FREQ 2	FREQ 3	FREQ 4	FREQ 5	FREQ 6	FREQ 7	FREQ 8
CALIBRATED	446.8	501.7	529.1	556.5	590.7	625.1	657.0	695.0
VERIFIED	445.8 <small>425.4 465.4</small>	499.8 <small>478.8 518.8</small>	527.1 <small>506.2 546.2</small>	554.3 <small>533.3 573.3</small>	588.7 <small>567.8 607.8</small>	621.9 <small>600.9 640.9</small>	653.9 <small>632.9 672.9</small>	690.0 <small>668.6 708.6</small>
OFFSET kHz	-1.0 <small>-15.0 15.0</small>	-1.9 <small>-15.0 15.0</small>	-2.0 <small>-15.0 15.0</small>	-2.2 <small>-15.0 15.0</small>	-1.9 <small>-15.0 15.0</small>	-3.2 <small>-15.0 15.0</small>	-3.1 <small>-15.0 15.0</small>	-5.1 <small>-15.0 15.0</small>
Q EST.	23.5	23.9	23.8	23.3	22.8	20.9	20.5	17.8
NOISE	3.7	3.3	3.3	3.9	3.4	3.8	4.3	3.9

	FREQ 9	FREQ 10	FREQ 11	FREQ 12	FREQ 13	FREQ 14	FREQ 15	FREQ 16
CALIBRATED	735.5	784.3	834.1	873.5	0.0	0.0	0.0	0.0
VERIFIED	730.5 <small>708.9 748.9</small>	777.6 <small>754.2 794.2</small>	828.4 <small>804.6 844.6</small>	867.6 <small>846.3 886.3</small>	0.0 <small>-20.0 20.0</small>	0.0 <small>-20.0 20.0</small>	0.0 <small>-20.0 20.0</small>	0.0 <small>-20.0 20.0</small>
OFFSET kHz	-5.0 <small>-15.0 15.0</small>	-6.7 <small>-15.0 15.0</small>	-5.8 <small>-15.0 15.0</small>	-5.9 <small>-15.0 15.0</small>	0.0 <small>-15.0 15.0</small>	0.0 <small>-15.0 15.0</small>	0.0 <small>-15.0 15.0</small>	0.0 <small>-15.0 15.0</small>
Q EST.	17.2	18.4	18.0	17.0	0.0	0.0	0.0	0.0
NOISE	4.9	3.8	4.5	4.1	0.0	0.0	0.0	0.0

## MREX\_1FSWP AFTER LOG VERIFICATION SUMMARY

TOOL #: 3218MA 512197

DATE/TIME PERFORMED: Thu May 19 15:30:58 2005

UNIT #: 3854SA 008677

	FREQ 1	FREQ 2	FREQ 3	FREQ 4	FREQ 5	FREQ 6	FREQ 7	FREQ 8
CALIBRATED	<span style="border: 1px solid black; padding: 2px;">445.8</span>	<span style="border: 1px solid black; padding: 2px;">499.8</span>	<span style="border: 1px solid black; padding: 2px;">527.1</span>	<span style="border: 1px solid black; padding: 2px;">554.3</span>	<span style="border: 1px solid black; padding: 2px;">588.7</span>	<span style="border: 1px solid black; padding: 2px;">621.9</span>	<span style="border: 1px solid black; padding: 2px;">653.9</span>	<span style="border: 1px solid black; padding: 2px;">690.0</span>
VERIFIED	<span style="border: 1px solid black; padding: 2px;">444.9</span>	<span style="border: 1px solid black; padding: 2px;">498.1</span>	<span style="border: 1px solid black; padding: 2px;">525.6</span>	<span style="border: 1px solid black; padding: 2px;">552.5</span>	<span style="border: 1px solid black; padding: 2px;">586.9</span>	<span style="border: 1px solid black; padding: 2px;">620.0</span>	<span style="border: 1px solid black; padding: 2px;">651.6</span>	<span style="border: 1px solid black; padding: 2px;">688.1</span>
	<span style="border: 1px solid black; padding: 2px;">435.8 455.8</span>	<span style="border: 1px solid black; padding: 2px;">489.8 509.8</span>	<span style="border: 1px solid black; padding: 2px;">517.1 537.1</span>	<span style="border: 1px solid black; padding: 2px;">544.3 564.3</span>	<span style="border: 1px solid black; padding: 2px;">578.7 598.7</span>	<span style="border: 1px solid black; padding: 2px;">611.9 631.9</span>	<span style="border: 1px solid black; padding: 2px;">645.9 665.9</span>	<span style="border: 1px solid black; padding: 2px;">680.0 700.0</span>
OFFSET kHz	<span style="border: 1px solid black; padding: 2px;">-1.0</span>	<span style="border: 1px solid black; padding: 2px;">-1.6</span>	<span style="border: 1px solid black; padding: 2px;">-1.5</span>	<span style="border: 1px solid black; padding: 2px;">-1.8</span>	<span style="border: 1px solid black; padding: 2px;">-1.9</span>	<span style="border: 1px solid black; padding: 2px;">-1.9</span>	<span style="border: 1px solid black; padding: 2px;">-2.3</span>	<span style="border: 1px solid black; padding: 2px;">-1.9</span>
	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>
Q EST.	<span style="border: 1px solid black; padding: 2px;">24.0</span>	<span style="border: 1px solid black; padding: 2px;">24.1</span>	<span style="border: 1px solid black; padding: 2px;">24.7</span>	<span style="border: 1px solid black; padding: 2px;">24.1</span>	<span style="border: 1px solid black; padding: 2px;">22.7</span>	<span style="border: 1px solid black; padding: 2px;">20.4</span>	<span style="border: 1px solid black; padding: 2px;">21.0</span>	<span style="border: 1px solid black; padding: 2px;">17.6</span>
NOISE	<span style="border: 1px solid black; padding: 2px;">3.1</span>	<span style="border: 1px solid black; padding: 2px;">3.0</span>	<span style="border: 1px solid black; padding: 2px;">3.1</span>	<span style="border: 1px solid black; padding: 2px;">3.3</span>	<span style="border: 1px solid black; padding: 2px;">3.7</span>	<span style="border: 1px solid black; padding: 2px;">3.9</span>	<span style="border: 1px solid black; padding: 2px;">4.4</span>	<span style="border: 1px solid black; padding: 2px;">4.4</span>

	FREQ 9	FREQ 10	FREQ 11	FREQ 12	FREQ 13	FREQ 14	FREQ 15	FREQ 16
CALIBRATED	<span style="border: 1px solid black; padding: 2px;">730.5</span>	<span style="border: 1px solid black; padding: 2px;">777.6</span>	<span style="border: 1px solid black; padding: 2px;">828.4</span>	<span style="border: 1px solid black; padding: 2px;">867.6</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>
VERIFIED	<span style="border: 1px solid black; padding: 2px;">728.2</span>	<span style="border: 1px solid black; padding: 2px;">774.9</span>	<span style="border: 1px solid black; padding: 2px;">824.5</span>	<span style="border: 1px solid black; padding: 2px;">863.7</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>
	<span style="border: 1px solid black; padding: 2px;">720.5 740.5</span>	<span style="border: 1px solid black; padding: 2px;">767.6 787.6</span>	<span style="border: 1px solid black; padding: 2px;">818.4 838.4</span>	<span style="border: 1px solid black; padding: 2px;">857.6 877.6</span>	<span style="border: 1px solid black; padding: 2px;">-10.0 10.0</span>	<span style="border: 1px solid black; padding: 2px;">-10.0 10.0</span>	<span style="border: 1px solid black; padding: 2px;">-10.0 10.0</span>	<span style="border: 1px solid black; padding: 2px;">-10.0 10.0</span>
OFFSET kHz	<span style="border: 1px solid black; padding: 2px;">-2.3</span>	<span style="border: 1px solid black; padding: 2px;">-2.7</span>	<span style="border: 1px solid black; padding: 2px;">-3.9</span>	<span style="border: 1px solid black; padding: 2px;">-3.9</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>
	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>	<span style="border: 1px solid black; padding: 2px;">-5.0 5.0</span>
Q EST.	<span style="border: 1px solid black; padding: 2px;">17.9</span>	<span style="border: 1px solid black; padding: 2px;">17.8</span>	<span style="border: 1px solid black; padding: 2px;">17.8</span>	<span style="border: 1px solid black; padding: 2px;">17.4</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>
NOISE	<span style="border: 1px solid black; padding: 2px;">4.4</span>	<span style="border: 1px solid black; padding: 2px;">4.1</span>	<span style="border: 1px solid black; padding: 2px;">4.8</span>	<span style="border: 1px solid black; padding: 2px;">4.1</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>	<span style="border: 1px solid black; padding: 2px;">0.0</span>

## MREX\_2TGN PRIMARY CALIBRATION SUMMARY

TOOL #: 3218MA 512197

DATE/TIME PERFORMED: Mon Feb 28 14:54:10 2005

UNIT #: drwlab 100219

TAUA START	TAUA STEP	TAUA END
us	us	us
<span style="border: 1px solid black; padding: 2px;">20</span>	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">80</span>

	FREQ 1	FREQ 2	FREQ 3	FREQ 4	FREQ 5	FREQ 6	FREQ 7	FREQ 8
TX FREQ kHz	<span style="border: 1px solid black; padding: 2px;">445.4</span>	<span style="border: 1px solid black; padding: 2px;">498.8</span>	<span style="border: 1px solid black; padding: 2px;">526.2</span>	<span style="border: 1px solid black; padding: 2px;">553.3</span>	<span style="border: 1px solid black; padding: 2px;">587.8</span>	<span style="border: 1px solid black; padding: 2px;">620.9</span>	<span style="border: 1px solid black; padding: 2px;">652.9</span>	<span style="border: 1px solid black; padding: 2px;">688.6</span>
V 90	<span style="border: 1px solid black; padding: 2px;">77.02</span>	<span style="border: 1px solid black; padding: 2px;">76.14</span>	<span style="border: 1px solid black; padding: 2px;">74.69</span>	<span style="border: 1px solid black; padding: 2px;">75.67</span>	<span style="border: 1px solid black; padding: 2px;">75.96</span>	<span style="border: 1px solid black; padding: 2px;">74.46</span>	<span style="border: 1px solid black; padding: 2px;">73.28</span>	<span style="border: 1px solid black; padding: 2px;">72.04</span>
TAU A	<span style="border: 1px solid black; padding: 2px;">61</span>	<span style="border: 1px solid black; padding: 2px;">58</span>	<span style="border: 1px solid black; padding: 2px;">55</span>	<span style="border: 1px solid black; padding: 2px;">56</span>	<span style="border: 1px solid black; padding: 2px;">55</span>	<span style="border: 1px solid black; padding: 2px;">54</span>	<span style="border: 1px solid black; padding: 2px;">53</span>	<span style="border: 1px solid black; padding: 2px;">51</span>

G† CONSTANT	1.169	1.182	1.205	1.189	1.185	1.209	1.228	1.249
	FREQ 9	FREQ 10	FREQ 11	FREQ 12	FREQ 13	FREQ 14	FREQ 15	FREQ 16
TX FREQ kHz	728.9	774.2	824.6	866.3	0.0	0.0	0.0	0.0
V 90	71.18	68.22	68.07	67.30	0.00	0.00	0.00	0.00
TAU A	51	49	49	49	0	0	0	0
G† CONSTANT	1.264	1.319	1.322	1.337	0.000	0.000	0.000	0.000

## MREX\_3RGN PRIMARY CALIBRATION SUMMARY

TOOL #: 3218MA 512197

DATE/TIME PERFORMED: Mon Feb 28 15:45:15 2005

UNIT #: drwlab 100219

	FREQ 1	FREQ 2	FREQ 3	FREQ 4	FREQ 5	FREQ 6	FREQ 7	FREQ 8
RX FREQ kHz	445.4	498.8	526.2	553.3	587.8	620.9	652.9	688.6
Gr CONSTANT	0.797	0.853	0.864	0.925	0.918	0.952	0.986	0.993
	FREQ 9	FREQ 10	FREQ 11	FREQ 12	FREQ 13	FREQ 14	FREQ 15	FREQ 16
RX FREQ kHz	728.9	774.2	824.6	866.3	0.0	0.0	0.0	0.0
Gr CONSTANT	1.021	1.074	1.072	1.081	1.000	1.000	1.000	1.000

	FREQ NUM (1 - 16)	FREQ (kHz)	CAL TEMP (degC)	T2RS (ms)	POROSITY (pu)
TANK CHECK	12	866.3	25.0	125.1	101.9



COMPANY SANTOS & PARTNERS  
 WELL CASINO-4  
 FIELD CASINO  
 RIG NAME OCEAN PATRIOT COUNTRY AUSTRALIA

FILE NO: \_\_\_\_\_  
 API NO: \_\_\_\_\_  
 VIC P-44 \_\_\_\_\_

**LOCATION:**

LAT: 38 DEG 47' 13.03" SOUTH  
 LONG: 142 DEG 41' 54.49" EAST  
 EASTING: 647.518.19M E  
 NORTHING: 5 705 495 28M N

**ELEVATIONS:**

KB —  
 DF 22 M  
 GL -70.8 M

SCALE 1:500

**Baker Atlas**



DATE 10 MAY 2005

NOXITING. 3.703.493.23m N

DATE

19-MAY-2005