

SANTOS - BEACH

DEPT. NAT. RES & ENV



PE908039

07 MAY 2001

COMPILED FOR

SANTOS LIMITED

(A.C.N. 007 550 923)

MCINTEE 1

RAW DATA REPORT

**Prepared By:
Operations Geology
March 2001**

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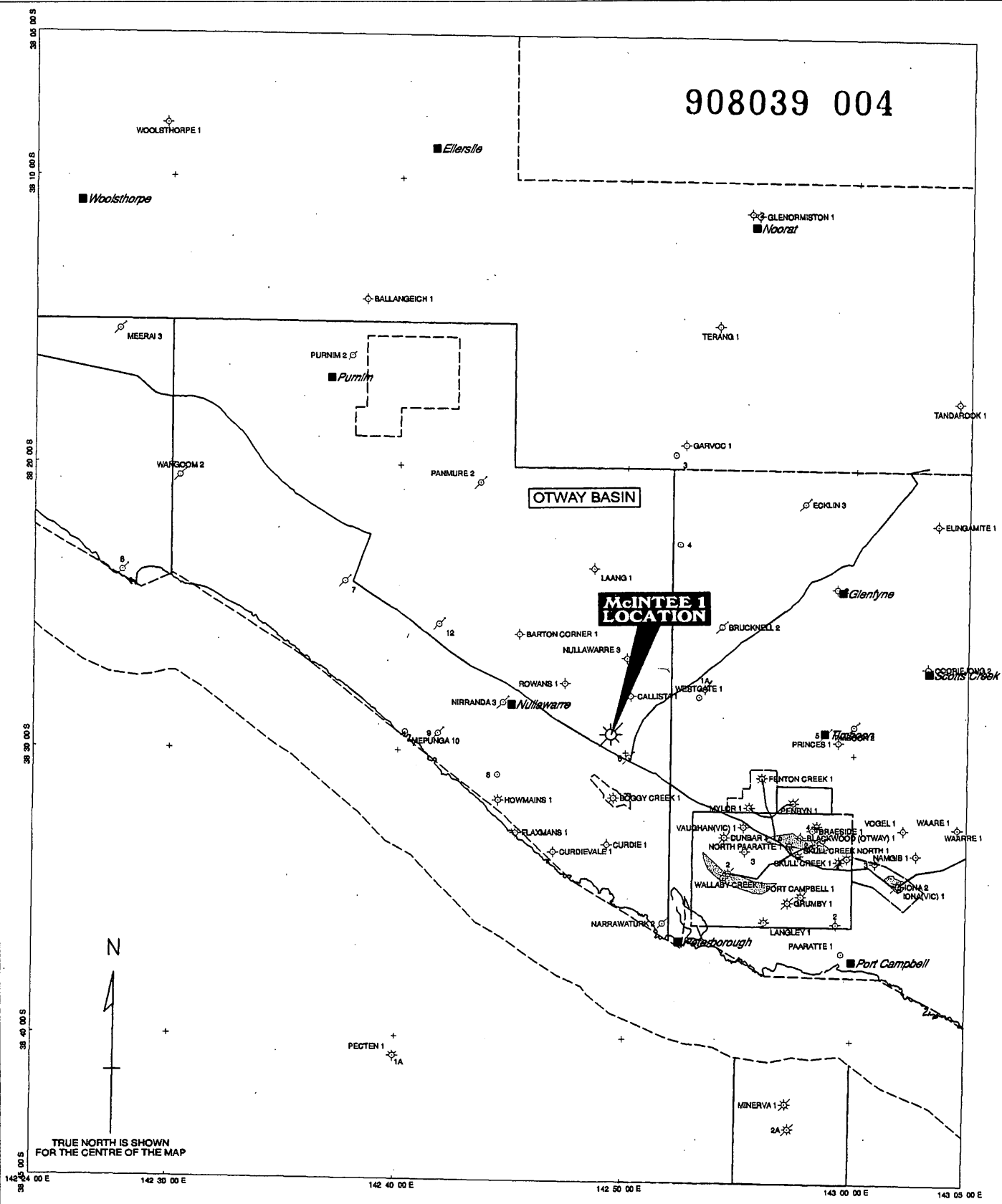
SECTION 11: CASING AND CEMENTING RECORDS

ENCLOSURES
ENCLOSURE I:

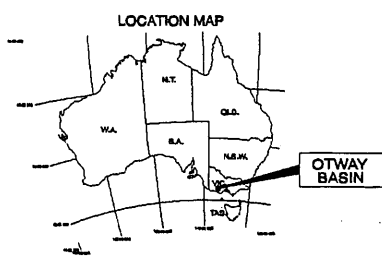
5" = 100' MUDLOG

LOCATION MAP

908039 004



TRUE NORTH IS SHOWN FOR THE CENTRE OF THE MAP



LEGEND

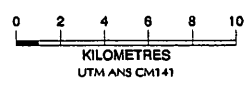
- ◊ Dry hole
- ⊛ Dry hole with gas show(s)
- ⊙ Dry hole with oil show(s)
- ⊛⊙ Dry Hole with oil & gas show(s)
- ⊛ Gas well
- ⊛⊙ Gas well with oil show(s)
- Oil well
- ⊛⊙ Oil and gas well
- Gas Pipeline
- - - Oil Pipeline

EXPLORATION & DEVELOPMENT

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South Australia Business Unit
 Project: Jct-1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
 Original Scale: 1:50000
 Current Format: 1:50000
 Date: April 8, 2001
 Project Name: Jct-1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
 ENCL

McIntee 1 LOCATION MAP



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908039 005

SECTION 1: PRELIMINARY WELL CARD

WELL: McINTEE 1		WELL CATEGORY: EXP (WILDCAT)		SPUD: 10/02/01 11:00hrs TD REACHED: 19/02/01 06:00hrs	
WELL INTENT: GAS		RIG: OD&E 30		RIG RELEASED: 23/02/01 06:00hrs	
LAT: 38° 29' 21.10" S		LONG: 142° 49' 21.18" E (AGD84)		STATUS: C&S GAS WELL	
LAT: 38° 29' 15.78" S		LONG: 142° 49' 26.12" E (GDA94)		CURRENT STATUS: COMPLETED GAS WELL	
SEISMIC STATION: INLINE 2447 C'VALE 3D CDP 10254				REMARKS: NEW FIELD WILDCAT DISCOVERY	
ELEVATION GND: 59.5 m		RT: 64.5m (Prelim)			
BLOCK/LICENCE: PEP 154 (VICTORIA - OTWAY BASIN)					
TD: 1799.5m (Logr Ext)		1803m (Drlr)			
PBSD: m (Logr)		m (Drlr)			
TYPE STRUCTURE: HORST BLOCK		CASING SIZE	SHOE DEPTH	TYPE	
TYPE COMPLETION: 3 1/2" MONOBORE		7 5/8"	428m	L80 26.4#/ft BTC	
ZONE(S): WAARE SANDSTONE		3 1/2"	1677m	J55 9.3#/ft NEW NK35B	

AGE	FORMATION OR ZONE TOPS	DEPTH (m)		THICKNESS TVD (m)	HIGH (H) LOW (L)
		LOGGERS	TVD SS		
MIDDLE-LATE MIOCENE	PORT CAMPBELL LIMESTONE	Surface	65	162	-
EARLY MIOCENE	GELLIBRAND MARL	162	-98	317	N/P
E-L OLIGOCENE - E AQUITANIAN	CLIFTON FM	479	-415	16	-3L
LATE EOCENE	NARRAWATURK MARL	495	-431	35	N/P
MIDDLE EOCENE	MEPUNGA FM	530	-466	92	N/P
EARLY - MIDDLE EOCENE	DILWYN FM	622	-558	239	N/P
L PALEOCENE - EARLY EOCENE	PEMBER FM	861	-797	43	N/P
E-L PALEOCENE	PEBBLE PT FM	904	-840	20	-32L
LATE SENONIAN	PAARATTE FM	924	-860	314	-11L
LATE SENONIAN	SKULL CK MUDSTONE	1238	-1174	113	-8H
LATE SENONIAN	NULLAWARRE	1351	-1287	96	-2L
LATE SENONIAN	BELFAST MUDSTONE	1447	-1383	74	-151H
LATE SENONIAN	FLAXMAN FM	1521	-1457	17	-163H
LATE SENONIAN	WAARRE FM - UNIT C	1539	-1474	16	-171H
	UNIT B	1555	-1490	10	N/P
	UNIT A	1565	-1500	36	N/P
EARLY NEOCOMIAN	EUMERALLA FM	1601	-1536		-163H
	TD	1799			

PRELIMINARY LOG INTERPRETATION (Interval Averages)						PERFORATIONS				
INTERVAL (m)	Ø %	SW %	INTERVAL (m)	Ø %	SW %	FORMATION		INTERVAL		
						WAARE SST		1539.5-1543.5m		
						CORES				
						FORM	NO.	INTERVAL	CUT	REC
						NIL				

LOG	SUITE/RUN	INTERVAL (m)	BHT/TIME/REMARKS	LOG	SUITE/RUN	INTERVAL (m)	BHT/TIME/REMARKS
REEVES LOGGING				PDS-	1 / 2	1795-1300	70°C / 13.5 hrs
DLL-	1/1	1790-400	64°C / 6.35 hrs	CNS		1795-1300	
MLL		1792-400		GR		1790-1300	
GR		1795-18		RFS	1/3	1756-1736.5	72.2°C / 34 hrs
LSC		1780-400					22 TESTS, 3 CURTAILED,
SP		1775-400					2 SPURIOUS, 17 NORMAL
CAL		1792-400					SEGREGATED SAMPLE TAKEN AT 1545.7m
				SWC	1 / 4	1702.5-1424.5	24 SHUT, REC 21

FORMATION TESTS										
NO.	INTERVAL (m)	FORMATION	FLOW (mins)	SHUT IN (mins)	BOTTOM GAUGE IP/FP (psia)	SIP	MAX SURF PRESS (psia)	FLUID TO SURF (mins)	TC/BC	REMARKS
										NO TESTS CONDUCTED

SECTION 2: DAILY GEOLOGICAL REPORTS

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WELL PROGRESS REPORT

McINTEE 1

DATE: 11/02/01 (0600 Hours)

DEPTH: 30M

PROGRESS: 30M

DAYS FROM SPUD: 1

OPERATION: DRILLING AHEAD 9 7/8" SURFACE HOLE

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788

FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$

CASING DEPTH: 10M

RIG: ODE 30

PROGRAMMED TD: 1798M

ROTARY TABLE: 64.2M (Prelim)

GROUND LEVEL: 59.5M

MUD DATA Type: Wt: Visc: WL: pH: K⁺: Cl⁻: PV/YP: Rmf:
(2400 Hours)

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST							

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)

PREVIOUS 24 HOURS OPERATIONS:

SPUD WELL AT 11:00 HRS ON 10/02/01. DRILL AHEAD 9 7/8" SURFACE HOLE, AT 28M MUD COMING UP THROUGH MOUSE HOLE. DRILL OUT WITH 17 1/2" HOLE, PUMP CEMENT, DRILL THROUGH CEMENT WITH 6 5/8" BIT TO 30M.

ANTICIPATED OPERATIONS:

DRILL AHEAD WITH 9 7/8" BIT AS PROGRAMMED

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WELL PROGRESS REPORT

McINTEE 1

DATE: 11/02/01 (0600 Hours)

FORMATION TOPS:

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HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
5-30	Calcarenite – light grey, off white, occasionally yellow to orange, clear to translucent grains, fine to medium crystalline, very fossil, commonly to abundant shell fragments and corals.	Nil

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WELL PROGRESS REPORT

McINTEE 1

DATE: 12/02/01 (0600 Hours)

DEPTH: 433.5m

PROGRESS: 397.5m

DAYS FROM SPUD: 1.4

OPERATION: CIRCULATING BOTTOMS UP AT SURFACE CASING POINT

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$

CASING DEPTH: 10M

RIG: ODE 30

PROGRAMMED TD: 1798M

ROTARY TABLE: 64.2M (Prelim)

GROUND LEVEL: 59.5M

MUD DATA (2400 Hours)	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
	GEL	9.1	39					12/25	

BIT DATA (2400 Hours)	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
	LAST	1RR2	SM	FGSS+2C	9.88	7.5	214	IN
		2	VA	L114	17.5	0.8	14m	I1DLBG2R11WT AEINNOHP

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
1	64	.5	319	5	174	2.8
2	82	1.25	337	6	212	2.25
3	100	1.4	2	7	319	1.4
4	137	2.5	350			

PREVIOUS 24 HOURS OPERATIONS:

CEMENT 17 1/2" 9 7/8" HOLE TO 28M, WAIT ON CEMENT, DRILL CEMENT AND FORMATION WITH 9 7/8" BIT & 3 1/2" HWDP TO 60M (CONTROLS FOR LOSSES), CHANGE BHA AND JET/DRILL AND SURVEY FROM 60 M TO 250M. DRILL AHEAD TO CASING POINT AT 433.5 M.

ANTICIPATED OPERATIONS:

WIPER TRIP TO SURFACE. RUN IN HOLE CIRCULATE, PULL OUT OF HOLE AND RUN 7 5/8" CASING.

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WELL PROGRESS REPORT

McINTEE 1

DATE: 12/02/01 (0600 Hours)

FORMATION TOPS:	RT	-SUBSEA	H/L TO PRC	H/L TO OFFSETS
GELLIBRAND MARL	151 M	-87 M		2.M LOW TO BOGGY CREEK 1

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
30m-151m ROP:0.4-8.0 Ave:1.2 min/m	Massive Calcarenite - light grey, off white, occasionally yellow to orange, clear-translucent grains, fine to medium crystalline, very fossiliferous, common to abundant shell fragments and corals.	nil
151-433m ROP: 0.5-1.3 Ave:0.9 min/m	MARL - light grey - medium grey, finely calcareous, abundant fossils and shell fragments, rare pyrite in parts, soft, sticky, amorphous.	nil

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WELL PROGRESS REPORT

McINTEE 1

DATE: 13/02/01 (0600 Hours)

DEPTH: 433.5m

PROGRESS: 0m

DAYS FROM SPUD: 2.4

CURRENT OPERATION: INSTALLING BRAIDENHEAD HAVING RUN AND SET 7 5/8" SURFACE CASING.

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788

FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$ 639,468

CASING DEPTH: 424m

RIG: ODE 30

PROGRAMMED TD: 1798m

ROTARY TABLE: 64.2m (Prelim)

GROUND LEVEL: 59.5m

MUD DATA (2400 Hours)	Type: GEL	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
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BIT DATA (2400 Hours)	PRESENT	No. 1RR2	Make SM	Type FGSS+2C	Size 9.88	Hours 3.5	Footage 183	Condition I1DLBG2R11WTAEINNOTD
	LAST	2	VA	L114	17.5	0.8	14m	I1DLBG2R11WTAEINNOHP

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
1	64	.5	319	5	174	351
2	82	1.25	337	6	212	345
3	100	1.4	2	7	319	348
4	137	2.5	350	8	415	324

PREVIOUS 24 HOURS OPERATIONS:

DRILL & SURVEY 9 7/8" HOLE FROM 250M TO 433M, CIRCULATE, WIPER TRIP, CIRCULATE, PULL OUT OF HOLE, LAY OUT BOTTOM HOLE ASSEMBLY, RIG TO AND RUN 7 5/8" CASING, CIRCULATE AND CEMENT CASING.

ANTICIPATED OPERATIONS:

INSTALL BRAIDED HEAD. PREPARE AND NIPPLE UP BOP.

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WELL PROGRESS REPORT

McINTEE 1

DATE: 13/02/01 (0600 Hours)

FORMATION TOPS:	RT	-SUBSEA	H/L TO PROG	H/L TO OFFSETS
GELLIBRAND MARL	151 M	-87 M		2 M LOW TO BOGGY CREEK 1

HYDROCARBON SHOW SUMMARY		
INTERVAL	LITHOLOGY	GAS

GEOLOGICAL SUMMARY		
INTERVAL	LITHOLOGY	GAS

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WELL PROGRESS REPORT

McINTEE 1

DATE: 14/02/01 (0600 Hours)

DEPTH: 433.5m

PROGRESS: 0m

DAYS FROM SPUD: 3.4

CURRENT OPERATION: PRESSURE TESTING BLOWOUT PREVENTERS.

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$

CASING DEPTH: 424m

RIG: ODE 30

PROGRAMMED TD: 1798 m ROTARY TABLE: 64.2m

GROUND LEVEL: 59.5m

MUD DATA (2400 Hours)	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
	GEL	9.0	42					8/16	

BIT DATA (2400 Hours)	PRESENT LAST	No.	Make	Type	Size	Hours	Footage	Condition

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
1	64	.5	319	5	174	2.8
2	82	1.25	337	6	212	2.25
3	100	1.4	2	7	319	1.4
4	137	2.5	350	8	415	1.63

PREVIOUS 24 HOURS OPERATIONS:

CEMENT, WAIT ON CEMENT, NIPPLE DOWN RISER AND LAND JOINT, NIPPLE UP BLOWOUT PREVENTERS. FAILURE ON INNER KILL VALVE UNABLE TO CIRCULATE.

ANTICIPATED OPERATIONS:

PRESSURE TEST BOPS, MAKE UP 6 3/4" BOTTOM HOLE ASSEMBLY, DRILL CEMENT AND SHOE TRACK, CONDUCT LEAK OFF TEST, DRILL AHEAD 6 3/4" HOLE.

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WELL PROGRESS REPORT

McINTEE 1

DATE: 14/02/01 (0600 Hours)

FORMATION TOPS:	RT	-SUBSEA	H/L TO PRO	H/L TO OFFSETS
GELLIBRAND MARL	151 M	-87 M		2 M LOW TO BOGGY CREEK 1

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS

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WELL PROGRESS REPORT

McINTEE 1

DATE: 15/02/01 (0600 Hours)

DEPTH: 433m

PROGRESS: 0m

DAYS FROM SPUD: 4.4

OPERATION: INSTALING NEW HYDRIL ELEMENT AND MAKE UP HYDRIL CAP.

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$ 689,405

CASING DEPTH: 428M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.2m

GROUND LEVEL: 59.5m

MUD DATA (2400 Hours)	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
	GEL SPUD	9.0	42	0	0	0	0	8/16	-

BIT DATA (2400 Hours)	PRESENT LAST	No.	Make	Type	Size	Hours	Footage	Condition
		2	SE	FM 2465	6.75"	0	0	-

SURVEYS:	<u>MD</u>	<u>INCLINATION</u>	<u>AZIMUTH (T)</u>	<u>MD</u>	<u>INCLINATION</u>	<u>AZIMUTH (T)</u>

PREVIOUS 24 HOURS OPERATIONS:

TROUBLE SHOOT AND IDENTIFY DAMAGED INNER KILL VALVE. REMOVE INNER KILL VALVE AND NIPPLE UP OUTER VALVE TO INNER. CIRCULATE AND FLUSH THROUGH TO CHOKE MANIFOLD AND PRESSURE TEST BLOW OUT PREVENTERS. ALL ITEMS TESTED BUT FAILURE ON HYDRIL (1200PSI MAX PRESSURE HELD). ODE NOTIFIED TO MOBILIZE HYDRIL ELEMENT TO LOCATION. MAKE UP 6 ¾" BIT AND BOTTOM HOLE ASSEMBLY. TONGS NOT BITING 4 ¾" DRILL COLLARS, RECTIFY. CONTINUE MAKING UP BIT AND RUN IN HOLE TO 395M. ATTEMPT TO TEST HYDRIL ELEMENT WITH HIGH VISCOSITY MUD AT VARYING ANNULAR PRESSURSE, NO GO. PULL OUT OF HOLE. LAY DOWN 9 EXCESS SINGLES OF 3 ½" DRILL PIPE. PULL OUT OF HOLE WITH BOTTOM HOLE ASSEMBLY AND BREAK BIT. WORK HYDRIL ON 2 7/8" TUBING AND TEST, NO GO. RETRY ON 3 ½" DRILL PIPE, NO GO. FULLY CLOSE ELEMENT ON EMPTY HOLE TO STROKE ELEMENT FULLY. RETEST ON 3 ½" DRILL PIPE, NO GO. HOLD PREJOB SAFETY MEETING. LIFT OUT MOUSE HOLE, NIPPLE DOWN FLOWLINE AND BELL NIPPLE. RIG UP KELLY AND FLANGE PLATES AND BREAK HYDRIL CAP. LIFT OUT SAME AND REMOVE ELEMENT, NO OBVIOUS DAMAGE. WAIT ON LOAD OF NEW HYDRIL ELEMENT. SERVICE SURVEY UNIT AND DERRICK SHEAVE. GENERAL HOUSE KEEPING. RACK DRILL PIEP BACK AND CLEAN. HYDRIL ELEMENT ARRIVED 04:30 HRS. INSTALL NEW HYDRIL ELEMENT AND MAKE UP HYDRIL CAP.

ANTICIPATED OPERATIONS:

CONTINUE MAKING UP HYDRIL. TEST ANNULAR PRESSURE TO HOLD 2000 PSI. WHEN SUCCESSFUL RUN IN DRILL OUT OF SHOE CONDUCT FORMATION INTEGRITY TEST. DRILL AHEAD 6 ¾" HOLE.

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WELL PROGRESS REPORT

McINTEE 1

DATE: 16/02/01 (0600 Hours)

DEPTH: 627m PROGRESS: 194m DAYS FROM SPUD: 5.4

OPERATION: DRILLING AHEAD 6 3/4" HOLE IN THE MEPUNGA SANDSTONE/DILWYN FORMATION.

NOPE COST (P&A)\$1,083,179 FINAL FORECAST COST (P&A)\$ COST TO DATE: \$
(C&S)\$1,351,788 (C&S)\$

CASING DEPTH: 428M RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m (REV) GROUND LEVEL: 59.8m (REV)

MUD DATA	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
(2400 Hours)	KCL/PHPA	8.5	33	16	9.0	3.7	18,500	5/3	-

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST	2	SE	FM 2465	6 3/4"	1.8	145m	DRILLING

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	415	1.63	324	570	1.3	342

PREVIOUS 24 HOURS OPERATIONS:

INSTALL NEW HYDRIL ELEMENT AND MAKE UP HYDRIL CAP. PRESSURE TEST HYDRIL TO 2000PSI/10 MINUTES OKAY. NIPPLE UP BELL NIPPLE AND FLOW LINE. MAKE UP BIT 2 AND 6 3/4" BOTTOM HOLE ASSEMBLY AND RUN IN HOLE TO 393M. BREAK CIRCULATION AND WASH FROM 393M TO TAG CEMENT STRINGERS AT 400M. DRILL PLUGS AND FLOAT COLLAR AT 401M. DRILL FLOAT AND SHOE TRACK TO 433M. CIRCULATE TO BALANCED MUD SYSTEM AND CONDUCT LOT TO 15.7 PPG EMW. PRESSURE TEST KELLY VALVES AND STAB IN VALVES WITH DOWELL TO 300/1200 PSI, OKAY. DRILL 6 3/4" HOLE FROM 437M TO 501M. CIRCULATE AND SURVEY AT 484M, MISRUN. DRILL 6 3/4" HOLE FROM 501M TO 578M, MISRUN. TOOL NOT PICTURING, NOT REACHING MONEL. PULL OUT OF HOLE TO INSPECT THE BOTTOM HOLE ASSEMBLY. LIFT OUT DRIFT STRING STABILIZER 3 WITH INTERNAL DIAMETER OF 1 7/8". RUN IN HOLE TO 578M. DRILL 6 3/4" HOLE FROM 578M TO 588M. CIRCULATE AND SURVEY 1 3/8" 342 CORRECTED AZIMUTH. DRILL 6 3/4" HOLE TO 627M

ANTICIPATED OPERATIONS:

CONTINUE DRILLING AHEAD 6 3/4" EXPLORATION HOLE.

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WELL PROGRESS REPORT

McINTEE 1

DATE: 16/02/01 (0600 Hours)

FORMATION TOPS:	MDRT (m)	SS (m)	Thickness (m)	H/L TO PROG	H/L CALLISTA 1
GELLIBRAND MARL	151	86.5	324	N/P	N/P
CLIFTON FORMATION	475	410.5	33.5	1m H	2.5m L
NARRAWATURK MARL	508	443.5	23	N/P	N/P
MEPUNGA SANDSTONE	532	467.5		N/P	N/P
DILWYN FORMATION					
PEMBER MUDSTONE					
PEBBLE POINT FORMATION					

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS
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GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
433m-475m ROP 0.45-6min/m Av 0.7 min/m	<p>GELLIBRAND MARL MARL: (100%) pale to medium greenish/grey, commonly silty and also argillaceous, very calcareous, common to abundant fossil fragments, echinoid spines, gastropods, fenestrate bryozoans, forams, rare carbonaceous specks, soft-dispersive, sticky, competency and firmness increases with depth, predominantly sub blocky, occasionally blocky again increasing with depth.</p>	NIL GAS
475m-508m ROP 0.3-0.65min/m Av 0.45min/m	<p>CLIFTON FORMATION CALCARENITE: (60%) orange-brown, off white, dark brown, common Fe oxide, common dark brown Fe oxide pellets, there are instances where Fe oxide has replaced fossil fragments, common echinoid spines, gastropods, and bryozoans, common to abundant medium to coarse grained, Fe stained, well rounded quartz grains, some of the quartz grains exhibit good quartz overgrowing and euhedral faces, cryptocrystalline calcareous matrix, friable, poor inferred porosity, quartz grains probably float in the matrix, no shows.</p> <p>MARL: (40%) dark greenish/grey, commonly silty, commonly calcareous, common to abundant fossil fragments, echinoid spines, gastropods, fenestrate bryozoans, forams, rare carbonaceous specks, soft to firm, predominantly sub blocky, occasionally blocky increasing with depth.</p>	NIL GAS
508m-532m ROP 0.3-0.5min/m Av 0.45min/m	<p>NARRAWATURK MARL MARL: (100%) pale grey to medium green grey, medium olive brown, moderately calcareous, argillaceous, silty in part, common very fine carbonaceous specks, common to abundant fossil fragments, echinoid spines, gastropods, fenestrate bryozoans, forams, soft to firm, predominantly sub blocky.</p>	NIL GAS

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WELL PROGRESS REPORT

McINTEE 1

DATE: 16/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
531m-627m ROP 0.3-2.5min/m Av 0.7min/m	<p>MEPUNGA SANDSTONE SANDSTONE: (80%) pale brown/orange, clear, translucent, off white, fine to very coarse, predominantly medium to coarse lower, sub rounded to rounded, poor to moderately sorted, minor weak siliceous cement, rare weak siliceous cement, rare pale brown argillaceous matrix, common flat grain boundaries, common Fe staining, minor bituminous looking quartz inclusions, predominantly loose, fair to good inferred porosity, no fluorescence.</p> <p>MARL: (20%) medium green/grey, dark olive brown to dark grey, very calcareous, argillaceous, rare very fine glauconite and carbonaceous specks, rare fossil fragments, echinoid spines, shells, forams, soft to firm, sub blocky.</p>	NIL GAS

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 17/02/01 (0600 Hours)

DEPTH: 1263m

PROGRESS: 636m

DAYS FROM SPUD: 6.4

OPERATION: DRILLING AHEAD 6 3/4" HOLE IN THE SKULL CREEK FORMATION.

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788

FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$

CASING DEPTH: 428M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m

GROUND LEVEL: 59.8m

MUD DATA (2400 Hours)	Type:	Wt:	Visc:	WL:	pH:	K +:	Cl -:	PV/YP:	Rmf:
	KCL/PHPA	8.8	36	8	9.0	3.3	16,000	6/3	-

BIT DATA (2400 Hours)	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
	LAST	3	SE	FM 2465	6 3/4"	9.8	695m	DRILLING

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	415	1.63	324	570	1.3	342
	720	1.5	339	886	1.6	332
	990	1.6	333	1090	1.8	315
	1193	1.75	331			

PREVIOUS 24 HOURS OPERATIONS:

DRILL 6 3/4" HOLE TO 742M, CIRCULATE AND SURVEY AT 720M. DRILL 6 3/4" HOLE TO 907M, CIRCULATE AND SURVEY AT 886M. DRILL 6 3/4" HOLE TO 1002M, CIRCULATE AND SURVEY AT 985M. DRILL 6 3/4" HOLE TO 1109M, CIRCULATE AND SURVEY AT 1090M. DRILL 6 3/4" HOLE TO 1215M. SERVICE RIG. CIRCULATE AND SURVEY AT 1190M. DRILL 6 3/4" HOLE TO 1263M.

ANTICIPATED OPERATIONS:

CONTINUE DRILLING AHEAD 6 3/4" EXPLORATION HOLE WITH SURVEYS.

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 17/02/01 (0600 Hours)

FORMATION TOPS:	MDRT (m)	SS (m)	Thickness (m)	H/L TO PROG	H/L CALLISTA 1
GELLIBRAND MARL	151	86.5	324	N/P	N/P
CLIFTON FORMATION	475	410.5	33.5	1.5 m H	5.5m L
NARAWATURK MARL	508	443.5	23	N/P	22.5m L
MEPUNGA SANDSTONE	532	467.5	85	N/P	2.5m L
DILWYN FORMATION	617	552.5	245	N/P	3.5 m L
PEMBER MUDSTONE	862	797.5	13	N/P	3.5 m L
PEBBLE POINT FORMATION	875	810.5	38	2.5 m L	16.5 m H
PAARATTE FORMATION	913	848.5		0.5 m H	29.5 m H
SKULL CREEK FORMATION					

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS
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GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
617m-687m ROP 0.4-3.0min/m Av 1.1 min/m	<p>DILWYN FORMATION</p> <p>SANDSTONE: (90%) clear, light brown, translucent, common light orange/brown Fe stained grains, fine to medium grain size, minor coarse, poor to moderately sorted, sub rounded to rounded, trace sub angular, minor very weak calcareous cement, trace pyrite cement, minor pale brown argillaceous matrix, trace lithics, predominantly loose, poor inferred porosity, no fluorescence.</p> <p>CLAYSTONE: (10%) pale to medium green/grey, occasionally dark grey, common medium to dark olive brown, commonly very calcareous, commonly very argillaceous, rare very fine carbonaceous specks, rare fossil fragments including echinoid spines, bryozoan fragments and forams, soft to firm, sub blocky.</p>	NIL GAS
687m-777m ROP 0.35-1.4min/m Av 0.65min/m	<p>SANDSTONE: (100%) clear, opaque, translucent, noticeable loss of common light orange/brown Fe stained grains as above, fine to medium grain size, minor coarse, poor to moderately sorted, sub rounded to rounded, trace sub angular, minor very weak calcareous cement, trace pyrite cement, loss of pale brown argillaceous matrix which is present in the interval above, trace lithics, predominantly loose, poor inferred porosity, no fluorescence.</p>	NIL GAS
777m-831m ROP 0.35-1.5min/m Av 0.7min/m	<p>SANDSTONE: (100%) clear, translucent, off white, fine to medium grain size, minor coarse, poor to moderately sorted, sub angular to sub rounded, moderate weak siliceous cement, trace off white argillaceous matrix preserved under some grain contacts presume silty matrix is being washed out of the sample?, common quartz overgrowths, commonly moderately compacted, predominantly loose, poor inferred porosity, no fluorescence.</p>	B/G TG 0 units Max T/G 130 units 82/8

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 17/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
831m-862m ROP 0.45-8.0min/m Av 1.2min/m	SANDSTONE: (100%) clear, translucent, off white, light grey, fine to medium grain size, minor coarse, poor to moderately sorted, sub angular to sub rounded, minor weak siliceous cement, trace calcareous cement stringers? seen by drill bit towards the top of the zone, difficult to see in the sample, trace off white argillaceous matrix preserved under some grain contacts, presume silty matrix is being washed out of the sample?, common quartz overgrowths, commonly moderately compacted, predominantly loose, rare friable, poor inferred porosity, no fluorescence.	B/G TG 0 units Max T/G 10 units 100
862m-875m ROP 2.5-6.4min/m Av 4min/m	PEMBER MUDSTONE CLAYSTONE: (100%) medium brown/ dark grey, pale green grey, argillaceous, commonly silty in part, occasionally grading to clay rich SILTSTONE , in part very fine quartz grains are entrained in the CLAYSTONE , trace to common medium to dark green glauconite which is generally associated with the pale grey CLAYSTONE , common carbonaceous specks in part especially associated with the siltier and dirtier looking CLAYSTONE , minor very fine carbonaceous specks, soft to firm, sub blocky.	NIL GAS
875m-913m ROP 0.85-2.3min/m Av 1.3 min/m	PEBBLE POINT FORMATION SANDSTONE: (90%) moderate yellow-brown, clear, translucent, fine to very coarse, predominantly medium to coarse, occasionally granular, sub rounded to rounded, fine to medium fraction is more subangular to subrounded, potentially diagenetic surface features, poorly sorted, trace pyrite cement, minor weak siliceous cement, pale brown silty matrix washing out of sample?, large flat grain boundaries, predominantly loose, poor inferred porosity, no fluorescence. CLAYSTONE: (10%) pale to medium grey, pale brown grey, silty with minor very fine quartz grains, common dark green glauconite, minor fossils, echinoid spines, trace very fine carbonaceous specks, trace very fine mica specks, soft to firm, sub blocky.	B/G TG 0 units Max T/G 1 units 100
913m-978m ROP 0.5-4.2min/m Av 1.7min/m	PAARATTE FORMATION SANDSTONE: (75%) pale grey, pale grey/brown, clear to opaque, medium to very coarse grained, predominantly medium to coarse, poor to moderately sorted, subangular to sub rounded, occasional siliceous cement and quartz overgrowths, occasional pyrite cement, occasional Fe staining on quartz grains, predominantly loose quartz grains, minor dark grey/brown argillaceous matrix, poor to fair inferred porosity, no fluorescence. CLAYSTONE: (25%) medium to dark grey/ brown, dark brown/ grey in part, commonly calcareous, common fossil fragments, common dark green glauconite in part, minor pyrite nodules, soft to firm, occasionally dispersive, sub blocky.	NIL GAS

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 17/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
978m-1062m ROP 0.5-2.9min/m Av 1.2min/m	<p>SANDSTONE: pale grey, clear translucent to opaque, fine to coarse grained, predominantly medium, poor to moderately sorted, subrounded to rounded, common weak siliceous cement and quartz overgrowths, occasional pyrite cement locally, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.</p> <p>CLAYSTONE: medium to dark grey, pale grey/brown in part, commonly calcareous, commonly silty, common fossil fragments, echinoid spines and forams, minor pyrite nodules, soft to firm, occasionally dispersive, sub blocky to occasionally blocky.</p>	TRACE C1
1062m-1106m ROP 0.8-2.5min/m Av 1.6min/m	<p>SANDSTONE: (85%) clear translucent to opaque, pale grey, medium to very coarse grained, predominantly coarse, poorly sorted, subrounded to rounded, occasionally subangular, minor weak siliceous cement and quartz overgrowths, rare disseminated and nodular pyrite cement, trace pyrite cement, predominantly loose quartz grains, fair to good inferred porosity, no fluorescence.</p> <p>CLAYSTONE: (15%) medium to dark grey, light grey brown, moderately calcareous, commonly silty in part, very fine arenaceous in part, minor fossil fragments, echonid spines and forams, trace carbonaceous specks, rare pyrite and trace glauconite, soft to firm, sub blocky to occasionally blocky.</p>	TRACE C1
1106m-1131m ROP 0.8-2.5min/m Av 1.6min/m	<p>SANDSTONE: (80%) clear translucent to opaque, pale grey, medium to coarse grained, predominantly coarse, poorly sorted, subrounded to rounded, occasionally subangular, common weak siliceous cement and quartz overgrowths, rare pyrite cement locally, trace disseminated pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.</p> <p>CLAYSTONE: (20%) medium to dark grey, trace medium green grey and dark brown grey, moderately calcareous, commonly silty in part, common fossil fragments, echonid spines and forams, minor glauconite, soft to firm, sub blocky.</p>	TRACE C1

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 17/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1131m-1207m ROP 0.45-6.5min/m Av 1.1min/m	<p>SANDSTONE: (80%) clear translucent to opaque, pale grey, in part off white, medium to very coarse grained, predominantly coarse, poorly sorted, subrounded to rounded, occasionally subangular, common weak siliceous cement and common quartz overgrowths, which make the depositional quartz grains look very angular, rare pyrite cement locally, trace disseminated pyrite, predominantly loose quartz grains, poor to fair inferred porosity, minor good inferred porosity, no fluorescence.</p> <p>CLAYSTONE: (10%) pale medium green/grey, minor medium and pale grey, moderately calcareous, dominantly argillaceous, commonly silty in part, common fossil fragments, echinoid spines and forams, minor glauconite, occasionally glauconite replaces fossils, soft to firm, sub blocky.</p> <p>SILTSTONE: (10%) dark grey/dark brown grey, medium brown, trace to locally common very fine arenaceous grading to very fine SANDSTONE, commonly very dirty looking due to the amount of very fine carbonaceous specks and flecks locally, minor mica specks, common pyrite nodules, soft to moderately hard, sub blocky.</p>	TRACE C1

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 18/02/01 (0600 Hours)

DEPTH: 1523m

PROGRESS: 260m

DAYS FROM SPUD: 7.4

OPERATION: DRILLING 6 3/4" HOLE IN THE NULLAWARRE FORMATION.

NOPE COST (P&A)\$1,083,179 FINAL FORECAST COST (P&A)\$
(C&S)\$1,351,788 (C&S)\$

COST TO DATE: \$

CASING DEPTH: 428M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m

GROUND LEVEL: 59.8m

MUD DATA	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
(2400 Hours)	KCL/PHPA	8.9	43	6	9	3.5	17,000	10/7	-

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST	3	SE	FM 2465	6 3/4"	19.6	955M	DRILLING

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	415	1.63	324	570	1.3	342
	720	1.5	339	886	1.6	332
	990	1.6	333	1090	1.8	315
	1193	1.75	331	1299	1.2	332
	1405	1.3	332			

PREVIOUS 24 HOURS OPERATIONS:

DRILL TO 1321M. CIRCULATE BOTTOMS UP AND PUMP PILL. SURVEY AT 1299M. PULL OUT OF HOLE FOR WIPER TRIP. TO SHOE WORKING TIGHT SPOTS AT 1009M AND 685M. SLIP 33FT OF LINE. RUN IN HOLE TO 684M WORK TIGHT SPOT. RUN IN HOLE TO 1294M. LAY OUT TOP SINGLES AND PULL UP KELLY. ATTEMPT TO BREAK CIRCULATION, STRING PACKED OFF AND STUCK WITH NIL CIRCULATION AT 1294M. WORK AND JAR TO MOVEMENT. REGAIN ROTATION. REGAIN CIRCULATION, WORK AND REAM TO FULL FREE. REAM FROM 1294M TO 1321M. DRILL ON TO 1427M. CIRCULATE AND SURVEY AT 1405M. DRILL 6 3/4" HOLE TO 1523M.

ANTICIPATED OPERATIONS:

DRILL AHEAD 6 3/4" EXPLORATION HOLE TO TD.

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 18/02/01 (0600 Hours)

FORMATION TOPS:	MDRT (m)	SS (m)	Thickness (m)	H/L TO PROG	H/L CALLISTA 1
GELLIBRAND MARL	151	86.5	324	N/P	N/P
CLIFTON FORMATION	475	410.5	33.5	1.5 m H	5.5m L
NARRAWATURK MARL	508	443.5	23	N/P	22.5m L
MEPUNGA SANDSTONE	532	467.5	85	N/P	2.5m L
DILWYN FORMATION	617	552.5	245	N/P	3.5 m L
PEMBER MUDSTONE	862	797.5	13	N/P	3.5 m L
PEBBLE POINT FORMATION	875	810.5	38	2.5 m L	16.5 m H
PAARATTE FORMATION	913	848.5	328	0.5 m H	29.5 m H
SKULL CREEK FORMATION	1241	1176.5	108	5.5 m H	9.5m H
NULLAWARRE SANDSTONE	1349	1284.5		0.5m H	3.5m H
BELFAST MUDSTONE					

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS
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GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1207m-1241m ROP 0.55-3.3min/m Av 1.3min/m	<p>SANDSTONE: (70%) clear translucent to opaque, pale grey, in part off white, medium to very coarse grained, predominantly coarse, common very fine grained sandstone aggregates, poorly sorted, sub angular to predominantly sub rounded, very fine aggregates have common off white silty matrix, kaolin ?, common weak to moderate siliceous cement and common quartz overgrowths, which make the depositional quartz grains look very angular, rare pyrite cement locally, trace disseminated pyrite, predominantly loose quartz grains, fair inferred porosity, poor to fair visible porosity in the fine aggregates (around 9% porosity), no fluorescence.</p> <p>CLAYSTONE: (20%) pale to medium green/grey, minor medium and pale grey, trace calcareous associated with fossil fragments, dominantly argillaceous, commonly silty in part, locally common fossil fragments, echinoid spines and forams, rare branching bryozoans (identified by zooidal structure), minor glauconite, soft to firm, sub blocky.</p> <p>SILTSTONE: (10%) medium brown/grey, commonly argillaceous, trace to locally common very fine arenaceous grading to very fine SANDSTONE, commonly very dirty looking due to the amount of very fine carbonaceous specks and flecks locally, rare carbonaceous laminations, minor mica specks, common pyrite nodules, soft to moderately hard, sub blocky.</p>	TRACE C1
1241m-1285m ROP 1.0-12.2min/m Av 1.7 min/m	<p>SKULL CREEK FORMATION</p> <p>CLAYSTONE: (70%) pale brown/grey, medium grey/brown, pale grey, predominantly argillaceous, silty in part, trace very fine arenaceous grading to SILTSTONE, locally common very fine carbonaceous specks and flecks which along with trace mica specks make the CLAYSTONE look dirty, soft, sticky, amorphous, minor sub blocky. (cont.)</p>	B/G TG 0 units Max TG 1 unit 100

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 18/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1241m-1285m ROP 1.0-12.2min/m Av 1.7 min/m	<p>SANDSTONE: (20%) clear, translucent, smoky in part, minor off white to pale grey, dominantly medium to coarse, minor very coarse, trace fine to very fine aggregates, poorly sorted, sub angular to sub rounded, moderate weak siliceous cement, trace pyrite cement in part, rare off white argillaceous matrix, common quartz overgrowths, trace pyrite nodules, dominantly loose, trace firm to moderately hard aggregates, fair inferred porosity, poor visual porosity, no fluorescence.</p> <p>SILTSTONE: (10%) dark grey to dark brown, arenaceous, abundant pyrite nodules, common carbonaceous flecks, trace mica specks, soft to firm sub blocky.</p>	
1285m-1321m ROP 0.9-4.1min/m Av 2.4 min/m	<p>CLAYSTONE: (90%) medium to dark brown grey, minor medium grey, predominantly argillaceous, silty in part, trace to locally common very fine carbonaceous specks and flecks, trace micromicaceous, soft, amorphous, sub blocky.</p> <p>SANDSTONE: (10%) clear, translucent, pale grey, dominantly medium to coarse, minor very coarse, poorly sorted, sub angular to sub rounded, moderate weak siliceous cement, trace pyrite cement in part, rare off white/pale grey argillaceous matrix, minor quartz overgrowths, trace pyrite nodules, dominantly loose, fair inferred porosity, no fluorescence.</p>	B/G TG 0 units Max TG 30 units TR/8/51/41
1321m-1349m ROP 0.9-4.1min/m Av 2.4 min/m	<p>SANDSTONE: (90%) pale grey, clear, translucent, fine to very coarse, predominantly medium to coarse, minor very coarse, poorly sorted, sub rounded to rounded, minor weak siliceous cement, minor off white/pale grey argillaceous matrix, minor quartz overgrowths, common disseminated pyrite, occasional Fe stained grains, moderately flat grain boundaries on the larger grains, dominantly loose, fair inferred porosity, no fluorescence.</p> <p>CLAYSTONE: (10%) pale grey, pale grey brown, trace pale green grey, very argillaceous, locally commonly silty, trace to locally common very fine carbonaceous specks, minor micromicaceous, soft, dispersive in part, amorphous, sub fissile.</p>	B/G TG 4 units Max TG 30 units TR/8/51/41
1349m-1403m ROP 0.5-3.0min/m Av 1.2min/m	<p>NULLAWARRE FORMATION</p> <p>SANDSTONE: (100%) dominantly pale green, clear, translucent, occasionally yellow, fine to very coarse, dominantly medium to coarse, moderate to poorly sorted, predominantly sub rounded to rounded, occasionally well rounded, minor weak siliceous cement, common light green/grey matrix, common to abundant glauconite pellets, minor disseminated pyrite, loose, fair to good inferred porosity, no fluorescence.</p>	B/G TG 9 units Max TG 10 units 31/10/33/26

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 18/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1403m-1448m ROP 0.5-3.0min/m	<p>SANDSTONE: (90%) dominantly clear to translucent, common light yellow and light green, dominantly medium to coarse, trace very coarse, sub angular to sub rounded, moderately well sorted, minor weak siliceous cement, rare off white argillaceous matrix, common glauconite pellets, trace calcareous grains, trace pyrite nodules, occasional quartz overgrowths, fair inferred porosity, no fluorescence.</p> <p>CLAYSTONE (10%) pale green, light to medium grey, very argillaceous, trace calcareous in part, trace to locally abundant glauconite specks, dominantly soft and amorphous, minor firm and sub blocky.</p>	<p>B/G TG 10 units Max TG 23 units 65/6/13/16</p>
1448m-1513m ROP 0.5-3.0min/m	<p>SANDSTONE: (80%) dominantly clear to translucent, common light yellow and light green, dominantly medium to coarse, trace very coarse, well to very well sorted, sub angular to sub rounded, minor weak siliceous cement, rare off white argillaceous matrix, abundant green/black glauconite pellets increasing with depth, occasional quartz overgrowths, fair inferred porosity, no fluorescence.</p> <p>CLAYSTONE (20%) medium to dark brown grey, olive brown, very argillaceous, silty in part, grading to glauconitic SILTSTONE, trace calcareous in part, abundant green/black glauconite pellets, dominantly firm, minor soft, sub blocky.</p>	<p>B/G TG 20 units Max TG 230 units 82/12/5/1</p>

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 19/02/01 (0600 Hours)

DEPTH: 1803m

PROGRESS: 271m

DAYS FROM SPUD: 8.4

OPERATION: PULLING OUT OF HOLE ON WIPER TRIP

NOPE COST (P&A)\$1,083,179 FINAL FORECAST COST (P&A)\$
(C&S)\$1,351,788 (C&S)\$

COST TO DATE: \$ 840,323

CASING DEPTH: 428M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m

GROUND LEVEL: 59.8m

MUD DATA (2400 Hours)	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
	KCL/PHPA	9.2	43	7	9	4	20,000	11/7	-

BIT DATA (2400 Hours)	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
	LAST	3	SE	FM 2465	6 3/4"	34.2	1303M	TD

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	415	1.63	324	570	1.3	342
	720	1.5	339	886	1.6	332
	990	1.6	333	1090	1.8	315
	1193	1.75	331	1299	1.2	332
	1405	1.3	332	1525	1.3	12
	1685	1.2	338			

PREVIOUS 24 HOURS OPERATIONS:

DRILL 6 3/4" HOLE TO 1427M. CIRCULATE AND SURVEY AT 1405M. DRILL HOLE FROM 1427 TO 1543M. SERVICE RIG. SURVEY AT 1525M. DRILL 6 3/4" HOLE TO 1697M. CIRCULATE AND SURVEY. DRILL 6 3/4" HOLE FROM 1697M TO 1803M. TOTAL DEPTH REACHED 06:00HRS ON 19-2-01.

ANTICIPATED OPERATIONS:

WIPER TRIP TO SHOE PULL OUT OF HOLE FOR WIRELINE LOGS.

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 19/02/01 (0600 Hours)

FORMATION TOPS:	MDRT (m)	SS (m)	Thickness (m)	H/L TO PROG	H/L CALLISTA 1
GELLIBRAND MARL	151	86.5	324	N/P	N/P
CLIFTON FORMATION	475	410.5	33.5	1.5 m H	5.5m L
NARRAWATURK MARL	508	443.5	23	N/P	22.5m L
MEPUNGA SANDSTONE	532	467.5	85	N/P	2.5m L
DILWYN FORMATION	617	552.5	245	N/P	3.5 m L
PEMBER MUDSTONE	862	797.5	13	N/P	3.5 m L
PEBBLE POINT FORMATION	875	810.5	38	2.5 m L	16.5 m H
PAARATTE FORMATION	913	848.5	328	0.5 m H	29.5 m H
SKULL CREEK FORMATION	1241	1176.5	108	5.5 m H	9.5m H
NULLAWARRE SANDSTONE	1349	1284.5	69	0.5m H	2.5m H
BELFAST MUDSTONE	1418	1353.5	104	180.5 m H	144.5 m H
FLAXMANS FORMATION	1522	1457.5	14	162.5 m H	68.5 m H
WAARRE FORMATION	1536	1471.5	59	173.5 m H	117.5 m H
EUMERALLA FORMATION	1595	1530.5		168.5 m H	122.5 m H

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS
1524m-1528m ROP 1.0-3.0min/m Av 1.8min/m	SANDSTONE: pale grey, pale brown/yellow, clear translucent, fine to coarse, predominantly medium, sub rounded to rounded, moderately well sorted, trace weak siliceous cements, abundant off white silty kaolin matrix (10-20micron booklet size, microsucrosic), kaolin lines the pore network and would preserve some permeability, common glauconite, predominantly loose, minor friable, fair to good inferred porosity, fair visible porosity, (most visible porosity is associated with the kaolin matrix, no fluorescence.	B/G TG 100units Max TG 800units 88/7/3/2
1534m-1553m ROP 0.8-3.8min/m Av 1.4min/m	SANDSTONE: clear, translucent, pale to medium grey/green, fine to very coarse, predominantly fine to medium, sub angular to sub rounded, trace rounded, poor to moderate sorting, minor weak siliceous cement, minor off white silty kaolin matrix (5-15micron booklet size, microsucrosic), kaolin lines the pore network and would preserve some permeability, abundant green/black glauconite pebbles, common quartz overgrowths, predominantly loose, minor friable, fair to occasionally good inferred porosity, poor visible porosity, (most visible porosity is associated with the kaolin matrix, no fluorescence.	B/G TG 120units Max TG 3000units 78/14/6/2

Santos

A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 19/02/01 (0600 Hours)

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY	GAS
1555m-1575m ROP 1.0-8.5min/m Av 2.3min/m	<p>SANDSTONE: off white, clear, translucent, pale grey, very fine to medium, occasionally very coarse, predominantly fine to medium, sub angular to sub rounded, moderate sorting, minor weak siliceous cement, minor off white silty kaolin matrix (5-15micron booklet size, microsucrosic), kaolin lines the pore network and would preserve some permeability, common quartz overgrowths, predominantly loose, minor friable, trace moderately hard, poor to fair inferred porosity, poor visible porosity, (as above most visible porosity is associated with the kaolin matrix), no fluorescence.</p> <p>NO SHOWS IN THE WAARRE FORMATION. THIS MAY BE DUE TO THE SANDY NATURE OF THE OVERLYING BELFAST MUDSTONE. AN INTRAFORMATIONAL SEAL? IN THE NULLAWARRE APPEARS TO BE ABLE TO TRAP HYDROCARBONS IN THE LOWER NULLAWARRE FORMATION.</p>	<p>B/G TG 200units Max TG 4000units 80/13/5/2</p>

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1513m-1534m ROP 1.0-3.4min/m Av 1.9min/m	<p>SANDSTONE: (65%) pale grey, pale brown/yellow, clear translucent, fine to coarse, predominantly medium, sub rounded to rounded, moderately well sorted, trace weak siliceous cements, abundant off white silty kaolin matrix (10-20micron booklet size, microsucrosic), kaolin lines the pore network and would preserve some permeability, common glauconite, predominantly loose, minor friable, fair to good inferred porosity, fair visible porosity, (most visible porosity is associated with the kaolin matrix, no fluorescence.</p> <p>CLAYSTONE: (35%) pale grey, pale medium grey/green, minor olive/brown, argillaceous, commonly locally silty, trace pyrite nodules, abundant glauconite, grading to glauconitic SILTSTONE, commonly micromicaceous, common very fine carbonaceous specks, soft, sticky, dispersive, amorphous.</p>	<p>B/G TG 100units Max TG 800units 88/7/3/2</p>
1534m-1555m ROP 0.8-5.2min/m Av 2.3min/m	<p>SANDSTONE: (80%) clear, translucent, pale to medium grey/green, fine to very coarse, predominantly fine to medium, sub angular to sub rounded, trace rounded, poor to moderate sorting, minor weak siliceous cement, minor off white silty kaolin matrix (5-15micron booklet size, microsucrosic), kaolin lines the pore network and would preserve some permeability, abundant green/black glauconite pebbles, common quartz overgrowths, predominantly loose, minor friable, fair to occasionally good inferred porosity, poor visible porosity, (most visible porosity is associated with the kaolin matrix, no fluorescence.</p> <p>CLAYSTONE: (20%) pale grey, pale medium brown/grey, medium to dark grey, argillaceous, commonly silty in part, occasionally grading to clay rich SILTSTONE, trace pyrite, common dark green glauconite, common fine carbonaceous specks, minor micromicaceous, soft, dispersive, occasionally firm, sub blocky.</p>	<p>B/G TG 120units Max TG 3000units 78/14/6/2</p>

Santos

A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 19/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1555m-1583m ROP 1.0-8.2min/m Av 2.6min/m	<p>SANDSTONE: (90%) off white, clear, translucent, pale grey, very fine to medium, occasionally very coarse, predominantly fine to medium, sub angular to sub rounded, moderate sorting, minor weak siliceous cement, minor off white silty kaolin matrix (5-15micron booklet size, microsucrosic), kaolin lines the pore network and would preserve some permeability, common quartz overgrowths, predominantly loose, minor friable, trace moderately hard, poor to fair inferred porosity, poor visible porosity, (as above most visible porosity is associated with the kaolin matrix, no fluorescence.</p> <p>CLAYSTONE: (10%) pale grey, pale medium brown/grey, medium to dark grey, argillaceous, commonly silty in part, common dark green glauconite, trace pyrite, common fine carbonaceous specks, minor micromicaceous, soft, dispersive, occasionally firm, sub blocky.</p>	<p>B/G TG 200units Max TG 4000units 80/13/5/2</p>
1583m-1605m ROP 1.2-5.9min/m Av 3.1min/m	<p>SANDSTONE: (65%) off white, clear, translucent, pale grey, fine to medium, occasionally very coarse, predominantly medium, sub angular to sub rounded, moderate sorting, minor weak siliceous cement, trace off white silty kaolin matrix, minor quartz overgrowths, minor to common locally medium to dark green glauconite, predominantly loose, minor friable, poor inferred porosity, poor visible porosity, no fluorescence.</p> <p>CLAYSTONE: (35%) pale to medium olive brown, pale grey/green, silty in part, occasionally grading to slightly argillaceous glauconitic SILTSTONE, abundant medium to dark, glauconite, commonly micromicaceous, common very fine carbonaceous specks associated preferentially with the olive brown CLAYSTONE, dispersive, soft, occasionally sub fissile.</p>	<p>B/G TG 200units Max TG 300units 90/6/3/1</p>
1605m-1638m ROP 2.0-8.0 min/m Av 3.3min/m	<p>BELFAST MUDSTONE</p> <p>SANDSTONE: (60%) off white, clear to translucent, pale grey/green, trace iron stained grains, fine to very coarse, predominantly medium, sub angular to sub rounded, moderate to minor well sorted, minor weak siliceous cement, common off white silty kaolin matrix, minor to common locally medium to dark green glauconite, trace pyrite, predominantly loose, minor friable, poor inferred porosity, poor visible porosity, no fluorescence.</p> <p>CLAYSTONE: (40%) pale to medium olive brown, pale grey/green, silty in part, occasionally grading to slightly argillaceous glauconitic SILTSTONE, abundant medium to dark, glauconite, commonly micromicaceous, common very fine carbonaceous specks associated preferentially with the olive brown CLAYSTONE, dispersive, soft, occasionally sub fissile.</p>	<p>B/G TG 40units Max TG 100units 99/7/3/1</p>

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 19/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1638m-1683m ROP 1.8-9.0min/m Av 4.5min/m	<p>CLAYSTONE: (40%) predominantly pale green/grey, minor dark olive/grey, medium brown, dark olive/grey CLAYSTONE has common carbonaceous specks and common micromicaceous, pale green/grey CLAYSTONE has common very fine glauconite grains locally, soft to firm, sub blocky.</p> <p>SANDSTONE: (60%) off white, pale grey/green, clear, translucent, fine to medium, predominantly medium, sub angular to sub rounded, moderate to well sorted, minor weak siliceous cement, common off white silty kaolin matrix, trace glauconite, predominantly loose, minor friable, poor inferred porosity, poor visible porosity, no fluorescence.</p>	B/G TG 40units Max TG 90units 87/9/3/1
1683m-1710m ROP 3.5-8.1min/m Av 4.7min/m	<p>FLAXMANS FORMATION</p> <p>SANDSTONE: (60%) (1) pale to medium grey becoming off white with depth, very fine to fine grained, subrounded to sub angular, moderately well sorted, trace calcareous and moderate siliceous cement, common medium green glauconite grains, firm to moderately hard, poor visual porosity, no fluorescence.(2) clear to opaque to translucent quartz, medium to coarse grain size, predominantly medium, sub angular to sub rounded, poorly sorted, trace glauconite, off white silty matrix washed away?, poor to fair inferred porosity, no fluorescence.</p> <p>SILTSTONE: (TRACE) off white, minor pale brown, common very fine arenaceous grading to very fine SANDSTONE, minor carbonaceous specks, minor glauconite, soft to firm, occasionally moderately hard, sub blocky.</p> <p>CLAYSTONE: (40%) pale green/grey, pale brown, very argillaceous, minor to common glauconite locally, soft, dispersive, amorphous.</p>	B/G TG 30units Max TG 180units 88/9/4/1
1710m-1739m ROP 2.0-8.0min/m Av 3.5min/m	<p>WAARRE FORMATION</p> <p>SANDSTONE: pale grey, opaque to translucent, fine to coarse lower, minor very coarse, becoming predominantly fine to medium with depth, sub angular to sub rounded, poor to moderately sorted, trace siliceous cement, trace to common off white argillaceous matrix, common medium green glauconite, predominantly loose, minor friable, fair to good inferred porosity, poor visual porosity, no fluorescence.</p> <p>SILTSTONE: off white, minor pale brown, commonly very fine arenaceous, grading to very fine SANDSTONE, minor pale green glauconite, common micromicaceous, soft to firm, occasionally moderately hard.</p> <p>CLAYSTONE: pale grey, off white, minor pale brown, minor medium blue/grey, very fine arenaceous in part, grading to very argillaceous</p> <p>SILTSTONE, minor pale green glauconite, soft, sticky to firm, sub blocky to amorphous.</p>	B/G TG 100units Max TG 200units 91/6/2/1

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 19/02/01 (0600 Hours)

GEOLOGICAL SUMMARY

INTERVAL	LITHOLOGY	GAS
1739m-1762m ROP 1.8-6.0min/m Av 3.5min/m	<p>SANDSTONE: off white clear, translucent, pale grey/green, fine to medium, minor very coarse, becoming finer grained with depth, sub angular to sub rounded, becoming more rounded with depth, poor to moderately sorted, trace siliceous cement, trace to common off white argillaceous matrix, matrix supported quartz grains, minor medium green glauconite, predominantly loose, minor friable, poor to fair inferred porosity, poor visual porosity, no fluorescence.</p> <p>CLAYSTONE: pale grey, medium brown grey, silty in part grading to argillaceous SILTSTONE, locally micromicaceous, trace carbonaceous specks, minor pale green glauconite, dispersive, soft to amorphous.</p>	B/G TG 100units Max TG 180units 92/6/1/1
1762m-1802m ROP 2.01-2.9min/m Av 4.0min/m	<p>EUMERALLA FORMATION</p> <p>SANDSTONE: off white, pale grey/green, clear, translucent, very fine to medium, sub angular to sub rounded, moderately well sorted, trace siliceous cement, common pale grey/off white argillaceous matrix, matrix supported quartz grains, common pale green volcanic lithics, minor brick red lithics, loose, poor to fair inferred porosity, no fluorescence.</p> <p>CLAYSTONE: pale grey, pale medium brown, silty in part grading to argillaceous SILTSTONE, locally micromicaceous, rare carbonaceous specks, minor pale green glauconite, dispersive, soft to amorphous, pale medium brown aggregates are commonly sub fissile.</p>	B/G TG 100units Max TG 170units 93/5/1/1

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 20/02/01 (0600 Hours)

DEPTH: 1803m

PROGRESS: 0m

DAYS FROM SPUD: 9.4

OPERATION: RIGGING UP SIDEWALL CORE GUN.

NOPE COST (P&A)\$1,083,179 FINAL FORECAST COST (P&A)\$
(C&S)\$1,351,788 (C&S)\$

COST TO DATE: \$840,323 (19/2/01)

CASING DEPTH: 425M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m

GROUND LEVEL: 59.8m

MUD DATA	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
(2400 Hours)	KCL/PHPA	9.4	50	5	9.5	4.5	22,000	14/14	-

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST	3	SE	FM 2465	6 3/4"	38.7	1369M	2-6-CT-S-X-IN-WT-TD

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	1193	1.75	331	1299	1.2	332
	1405	1.3	332	1525	1.3	12
	1685	1.2	338	1685	1.2	338
	1790	1.2	342			

PREVIOUS 24 HOURS OPERATIONS:

PULL OUT OF HOLE FOR WIPER TRIP FROM 1803M TO SHOE AT 425M. WORK TIGHT HOLE BETWEEN 1380 AND 1420M CLEAN. RUN IN HOLE FROM 425M TO 1781M. ATTEMPT TO BREAK CIRCULATION. NO GO BUT HOLE WORKING SLICK. ROTATE AT 140 RPM AND LOCK 1000PSI ON STRING. SLOWLY GAIN CIRCULATION. REAM FROM 1781M TO 1803M. CIRCULATE HOLE CLEAN AND LOW GAS- PEAK 240 UNITS. FLOW CHECK, STATIC. SURVEY AT 1790M. PULL OUT OF HOLE FOR WIRELINE LOGGING FROM 1803M AND RACK BOTTOM HOLE ASSEMBLY. BREAK BIT AND CLEAR RIG FLOOR. RIG UP REEVES WIRELINE LOGGING. HOLD PRE JOB SAFETY MEETING. RUN IN HOLE TO TOTAL DEPTH AND LOG RUN 1 GR-DLS-MRS-LCS. ACQUIRE MAIN LOG TO 1300M. RUN BACK TO TOTAL DEPTH. ACQUIRE WAVEFORM TAPING DATA. ONE COMPUTER HARD DRIVE AND BOTH MAGNETIC TAPE RECORDERS FAILED. ONLY RECORDED WAVEFORM DATA TO 1540M DUE TO MEMORY CONSTRAINTS (REQUIRED TO 1330M). WILL ATTEMPT OBTAINING WAVEFORM TAPING DATA ONCE NEW MAGNETIC DRIVE ARRIVES AROUND LUNCH TIME TODAY. LOG OUT MAIN LOG AND RIG DOWN RUN 1. (LOG MAKE CORRECTION OF TOPS OF APPROXIMATELY 180M BELFAST/FLAXMANS, WAARRE AND EUMERALLA FORMATIONS). RIG UP RUN 2, SGS-PDS-CNS. RUN IN HOLE. LOG OUT. RIG DOWN RUN 2. RIG UP RUN 3 SIDEWALL CORES.

ANTICIPATED OPERATIONS:

RUN IN HOLE WITH SIDEWALL CORE GUN AND TAKE 24 POINTS.

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 20/02/01 (0600 Hours)

FORMATION TOPS:	MDRT (m)	SS (m)	Thickness (m)	H/L TO PROG	H/L CALLISTA
GELLIBRAND MARL	151	86.5	324	N/P	N/P
CLIFTON FORMATION	475	410.5	33.5	1.5 m H	5.5m L
NARRAWATURK MARL	508	443.5	23	N/P	22.5m L
MEPUNGA SANDSTONE	532	467.5	85	N/P	2.5m L
DILWYN FORMATION	617	552.5	245	N/P	3.5 m L
PEMBER MUDSTONE	862	797.5	13	N/P	3.5 m L
PEBBLE POINT FORMATION	875	810.5	38	2.5 m L	16.5 m H
PAARATTE FORMATION	913	848.5	328	0.5 m H	29.5 m H
SKULL CREEK FORMATION	1241	1176.5	108	5.5 m H	9.5m H
NULLAWARRE SANDSTONE	1349	1284.5	69	0.5m H	2.5m H
BELFAST MUDSTONE	1418	1353.5	104	180.5 m H	144.5 m H
FLAXMANS FORMATION	1522	1457.5	14	162.5 m H	68.5 m H
WAARRE FORMATION	1536	1471.5	59	173.5 m H	117.5 m H
EUMERALLA FORMATION	1595	1530.5		168.5 m H	122.5 m H

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WELL PROGRESS REPORT

McINTEE 1

DATE: 21/02/01 (0600 Hours)

DEPTH: 1803m

PROGRESS: 0m

DAYS FROM SPUD: 10.4

OPERATION: RIGGING DOWN REPEAT FORMATION SONDE.

NOPE COST (P&A)\$1,083,179
(C&S)\$1,351,788FINAL FORECAST COST (P&A)\$
(C&S)\$

COST TO DATE: \$ 901,212

CASING DEPTH: 425M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m

GROUND LEVEL: 59.8m

MUD DATA	Type:	Wt:	Visc:	WL:	pH:	K ⁺ :	Cl ⁻ :	PV/YP:	Rmf:
(2400 Hours)	KCL/PHPA	9.4	50	5	9.5	4.5	22,000	14/14	-

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST	3	SE	FM 2465	6 3/4"	38.7	1369M	2-6-CT-S-X-IN-WT-TD

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	1193	1.75	331	1299	1.2	332
	1405	1.3	332	1525	1.3	12
	1685	1.2	338	1685	1.2	338
	1790	1.2	342			

PREVIOUS 24 HOURS OPERATIONS:

REEVES WIRELINE LOGGING, MAKE UP LOG RUN 2 SGS-PDS-CNS. RUN IN HOLE LOG AND THEN PULL OUT AND RIG DOWN. PREPARE AND MAKE UP PROGRAMMED RUN 4 SIDEWALL CORES. GAMMA RAY FAILURE WITH NIL BACKUP. RIG DOWN SIDE WALL CORE GUN. RERUN RUN 1B (WAVEFORM TAPING). FAILURE AT TRUCK WITH DEPTH COUNTER. PULL OUT OF HOLE AND RECTIFY FAULT. RERUN 1C RUN IN HOLE AND LOG INTERVAL 1543M-1490M. PULL OUT OF HOLE RIG DOWN TOOLS. WAIT ON TECHNICIAN AND SAMPLING KIT FOR REPEAT FORMATION SONDE RUN 3. ATTEMPT REPAIR GAMMA RAY FROM SIDEWALL CORE, NO GO. TECHNICIAN ARRIVE 13:00 HRS. REPEAT FORMATION SONDE TOOLS ARRIVE 16:45 HOURS. DRESS AND SERVICE REPEAT FORMATION TOOL STRING. HOLD PREJOB SAFETY MEETING. MAKE UP RUN 3 AND RUN IN HOLE. CONDUCT PRESSURE SURVEYS. 20 SURVEY POINTS BETWEEN 1356.5M AND 1742.5M WITH SAMPLING AT 1545.7M. PULL REPEAT FORMATION SONDE OUT OF HOLE. CHECK SAMPLED GAS ON SIGHT WITH GEOSERVICES GAS EQUIPMENT, 1.33% CO2 AND 2452 UNITS OF HYDROCARBON 48%.

ANTICIPATED OPERATIONS:

RUN IN HOLE WITH SIDEWALL CORE GUN AND TAKE 20 POINTS.

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 21/02/01 (0600 Hours)

FORMATION TOPS:	MDRT (m)	SS (m)	Thickness (m)	H/L TO PROG	H/L CALLISTA 1
GELLIBRAND MARL	151	86.5	324	N/P	N/P
CLIFTON FORMATION	475	410.5	33.5	1.5 m H	5.5m L
NARRAWATURK MARL	508	443.5	23	N/P	22.5m L
MEPUNGA SANDSTONE	532	467.5	85	N/P	2.5m L
DILWYN FORMATION	617	552.5	245	N/P	3.5 m L
PEMBER MUDSTONE	862	797.5	13	N/P	3.5 m L
PEBBLE POINT FORMATION	875	810.5	38	2.5 m L	16.5 m H
PAARATTE FORMATION	913	848.5	328	0.5 m H	29.5 m H
SKULL CREEK FORMATION	1241	1176.5	108	5.5 m H	9.5m H
NULLAWARRE SANDSTONE	1349	1284.5	69	0.5m H	2.5m H
BELFAST MUDSTONE	1418	1353.5	104	180.5 m H	144.5 m H
FLAXMANS FORMATION	1522	1457.5	14	162.5 m H	68.5 m H
WAARRE FORMATION	1536	1471.5	59	173.5 m H	117.5 m H
EUMERALLA FORMATION	1595	1530.5		168.5 m H	122.5 m H

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WELL PROGRESS REPORT

McINTEE 1

DATE: 22/02/01 (0600 Hours)

DEPTH: 1803m

PROGRESS: 0m

DAYS FROM SPUD: 11.4

OPERATION: RUNNING 3 1/2" PRODUCTION CASING.

NOPE COST (P&A)\$1,083,179 FINAL FORECAST COST (P&A)\$
(C&S)\$1,351,788 (C&S)\$

COST TO DATE: \$

CASING DEPTH: 425M

RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m

GROUND LEVEL: 59.8m

MUD DATA	Type:	Wt:	Visc:	WL:	pH:	K +:	Cl -:	PV/YP:	Rmf:
(2400 Hours)	KCL/PHPA	9.5	51	5	9	4.3	21000	15/12	-

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST	3	SE	FM 2465	6 3/4"	38.7	1369M	2-6-CT-S-X-IN-WT-TD

SURVEYS:	MD	INCLINATION	AZIMUTH (T)	MD	INCLINATION	AZIMUTH (T)
	1193	1.75	331	1299	1.2	332
	1405	1.3	332	1525	1.3	12
	1685	1.2	338	1685	1.2	338
	1790	1.2	342			

PREVIOUS 24 HOURS OPERATIONS:

RIG DOWN REPEAT FORMATION SONDE. HOLD RADIO SILENCE MEETING. RIG UP RUN 4 SIDEWALL CORE GUN. 24 SHOTS. 21 BULLETS RECOVERED, 2 INCOMPLETE FORMATION RECOVERIES, 2 NOT SHOT AND 1 LOST BULLET (19 VALID SIDEWALL CORES). PULL OUT SIDEWALL CORE GUN AND RIG DOWN TOOL AND SHEAVES. LAY OUT MONEL DRILL COLLAR, PONY DRILL COLLAR AND STABILISER. MAKE UP BIT AND BOTTOM HOLE ASSEMBLY AND RUN IN HOLE TO SHOE AT 424M FOR WIPER TRIP TO 1762M. BREAK CIRCULATION AFTER INITIAL PACK OFF, WASH AND REAM FROM 1762M TO 1803M. CIRCULATE BOTTOMS UP, HOLE CLEAN AND LOW GAS COUNT. FLOW CHECK STATIC. PUMP PILL AND PULL OUT OF HOLE FROM 1803M TO 240M LAYING DOWN DRILL PIPE. PICK UP KELLY AND SOFT BREAK CONNECTIONS. LAY OUT BOTTOM HOLE ASSEMBLY BREAK BIT. MAKE ASSEMBLY AND RETRIEVE WEAR BUSHING. RIG UP PREMIUM CASING SERVICES TO RUN CASING. MAKE UP SHOE AND FLOAT TRACK. TEST FLOATS OKAY. RUN 3 1/2" PRODUCTION CASING.

ANTICIPATED OPERATIONS:

RUN 3 1/2" PRODUCTION CASING.

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A.C.N. 007 550 923

WELL PROGRESS REPORT

McINTEE 1

DATE: 23/02/01 (0600 Hours)

DEPTH: 1803m PROGRESS: 0m DAYS FROM SPUD: 12.4

OPERATION: RIG RELEASED AT 0600 HOURS

NOPE COST (P&A)\$1,083,179 FINAL FORECAST COST (P&A)\$ COST TO DATE: \$
(C&S)\$1,351,788 (C&S)\$

CASING DEPTH: 425M RIG: ODE #30

PROGRAMMED TD: 1798m (MD) ROTARY TABLE: 64.5m GROUND LEVEL: 59.8m

MUD DATA	Type:	Wt:	Visc:	WL:	pH:	K +:	Cl -:	PV/YP:	Rmf:
(2400 Hours)	KCL/PHPA	8.4	28	0	0	0	0	1/0	-

BIT DATA	PRESENT	No.	Make	Type	Size	Hours	Footage	Condition
(2400 Hours)	LAST							

SURVEYS:	<u>MD</u>	<u>INCLINATION</u>	<u>AZIMUTH (T)</u>	<u>MD</u>	<u>INCLINATION</u>	<u>AZIMUTH (T)</u>

PREVIOUS 24 HOURS OPERATIONS:

MAKE UP SHOE AND FLOAT TRACK, TEST FLOATS - OK, RUN 3 ½" CASING TO 1677M, MAKE UP CIRCULATING SWAGE AND CIRCULATE CASING, TREAT 75 BBLs WITH IDCIDE AND TO PH 10+, PUMP PREFLUSH, MAKE UP CEMENT HEAD, DOWELL PRESSURE TEST LINES, DROP BOTTOM PLUG, DOWELL MIX AND PUMP 168 BBLs, 11.5 PPG LEAD AND 28 BBLs 15.6 PPG TAIL CEMENT, FLUSH TO HEAD, DROP TOP PLUG, DISPLACE CEMENT WITH RIG PUMPS, BUMP PLUG, DOWELL PRESSURE TEST CASING TO 2500 PSI / 10 MINUTES - OK, BLEED BACK ½ BBLs, FLOATS HOLDING, WAIT ON CEMENT AND MONITOR WELL OVER TRIP TANK, PREPARE TO NIPPLE DOWN BLOW OUT PREVENTORS, DUMP AND CLEAN PITS, LOWER AND SET 3 ½" CASING SLIPS, SET WITH 55K OVERPULL, RAISE BLOW OUT PREVENTORS AND ROUGH CUT CASING AT 10", LAY OUT KELLY, RAT HOLE AND MOUSE HOLE, RIG DOWN V-DOOR AND CATWALK AND REMOVE, NIPPLE DOWN BLOW OUT PREVENTORS AND LAY OUT SAME, FINAL CUT, DRESS AND BEVEL CASING STUMP, INSTALL AND NIPPLE UP ADAPTOR FLANGE, **RIG RELEASE McINTEE 1 AT 0600 HOURS ON 23/02/01.**

ANTICIPATED OPERATIONS:

RIG DOWN AND RIG MOVE OPERATIONS.

SECTION 3: HYDROCARBON SHOWS

No oil shows were recorded.
See Well Progress Reports for gas shows.

SECTION 4: WIRELINE LOGGING REPORTS

SECTION 4 (a): LOGGING ORDER FORM

Santos

A.C.N. 007 550 923

REVISION 1.0
(DATE: 22/11/96)**LOGGING ORDER**

COMPANY: SANTOS LTD & BEACH PETROLEUM

WELL: McINTEE #1 FIELD: WILDCAT

RIG: OD & E 30 STATE: VIC

LOCATION: INLINE 2447, CDP 10254 BLOCK: PEP 154
CURDIEVALE 3D

LATITUDE: 38 29 21.10" S LONGITUDE: 142 49 21.18" E

ELEVATIONS GL: 59.8m RT: 64.5m DF: 4.7m

9 7/8" HOLE: 433m 7 5/8" CSG: 425m WT: 26.4 LB/FT

6 3/4" HOLE: 1803m TD 3 1/2" CSG: 1677.5m WT: 9.3 LB/FT

TD (Drlr.): 1803m TD TD (Logr.): 1794.8m

MUD SYSTEM: KCL/PHPA/POLYMER CIRCULATION STOPPED: 12:40 HRS ON 19-2-01

WT: 9.4 VISC: 47 PV/YP: 12/14 PH: 9 FLUID LOSS: 6 CHL: 22,000

GEOLOGIST: TIM CONROY

INFORMATION GIVEN ABOVE IS TO BE USED ON LOG HEADING SHEETS.

HOLE CONDITIONS: (TIGHT SPOTS, DEVIATION, COALS, BARITE IN MUD, ETC)
LEDGES AROUND 684M CAUSED PROBLEMS WITH TRIPPING IN AND OUT OF THE HOLE. EXPECT IT TO BE HARD STINGERS OF CALCIFIED SANDSTONE. IT HAS BEEN REAMED. WORKED TIGHT HOLE AT 1370M-1430M THIS MORNING, NO PROBLEMS TRIPPING IN AND OUT OF THE HOLE FOR WIRELINE LOGS. NO WELL DEVELOPED COALS PRESENT.

KCL 4.5%.
INTERNAL DIAMETER OF 7 5/8" CASING IS 6.969".

DRILL STEM TESTS/CORED INTERVALS:

NO DRILL STEM TESTS OR FULL HOLE CORES ARE PLANNED FOR THIS WELL.

COMMENTS: (TO BE INCLUDED IN REMARKS SECTION ON HEADER SHEET)

KCL 4.5%.
INTERNAL DIAMETER OF 7 5/8" CASING IS 6.969"

LOGS:

PROGRAM CONFIRMED WITH OPERATIONS GEOLOGIST AT 15:00 HOURS ON 19/2/01.

PROGRAM VARIES FROM PRE-SPUD NOTES: YES: NO:

LOG	INTERVAL	REPEAT SECTION
RUN 1 SGS (GR) LCS DLS (LLS, LLD) MRS (MLL, CALIPER)	TD TO SURFACE TD TO SCS WAVEFORM TAPING TD TO 1250M TD TO SCS TD TO SCS (SCS = SURFACE CASING SHOE)	AQUIRE RUNNING IN HOLE AQUIRE RUNNING IN HOLE AQUIRE RUNNING IN HOLE
RUN 2 SGS (GR) PDS (RHOB) CNS (NPHI)	TD TO SURFACE TD TO 1250M TD TO 1250M	AQUIRE RUNNING IN HOLE AQUIRE RUNNING IN HOLE AQUIRE RUNNING IN HOLE
RUN 3 RFS (20 POINTS COSTED)	20 POINTS TO BE PICKED	TIE IN EVERY 50M
RUN 4 SCG(SIDE WALL CORE GUN) 1 FULL GUN	SWC POINTS TO BE PICKED, PALYNOLOGY AND PROJECT TEAM	CORRELATE DEPTH

REMARKS:

(ALL OPERATIONS ARE TO CONFORM TO CURRENT SCHLUMBERGER
AND SANTOS OPERATING PROCEDURES)

1. TENSION CURVE - TO BE DISPLAYED ON LOG FROM T.D. TO CASING SHOE.
2. ALL CALIBRATIONS IN CASING MUST BE VERSUS DEPTH. (IF HOLE CONDITIONS PERMIT).
3. SONIC WAVEFORMS TO BE RECORDED OVER ENTIRE PERMIAN SECTION.
4. ALL ZONES OF SONIC CYCLE SKIPPING OR POOR QUALITY DATA TO BE REPEATED AND NOTED IN REMARKS SECTION. (EXCEPT ABOVE CADNA-OWIE FM. IF HOLE CONDITION IS POOR).
5. REPEAT SECTION NOT TO BE RUN IN 6" HOLES, COMPARE DOWN LOG FOR REPEAT ANALYSIS.
6. REPEAT SECTION TO BE LOGGED PRIOR TO MAIN LOG OVER INTERVAL OF INTEREST. (IF HOLE CONDITIONS ALLOW). CONFIRM REPEAT SECTION INTERVAL WITH OPERATIONS GEOLOGIST.
7. ALL THERMOMETER READINGS TO BE RECORDED ON LOG
8. ALL SCALES AND PRESENTATIONS TO CONFIRM TO STANDARDS UNLESS OTHERWISE ADVISED.
9. THE FIELD/EDIT TAPE MUST BE A MERGED COPY OF ALL LOGS RUN. SEPARATE TAPES ARE ONLY ACCEPTABLE AS AN INTERIM MEASURE.
10. ANY CHANGE FROM STANDARD PROCEDURES/SCALES TO BE NOTED IN REMARKS SECTION.
11. RM, RMF, RMC AND BHT MUST BE ANNOTATED ON FAXED LOGS. FAXED LOGS SHOULD ALSO INDICATE IF ON DEPTH OR NOT.
12. LOG DATA IS TO BE TRANSMITTED AS SOON AS POSSIBLE AFTER ACQUISITION. IF ANY DELAYS ARE LIKELY OR IF DATA TRANSMISSION WILL ADVERSELY EFFECT THE OPERATION THEN THE OPERATIONS GEOLOGIST MUST BE IMMEDIATELY INFORMED.
13. THE OPERATIONS GEOLOGIST MUST BE INFORMED IMMEDIATELY OF ANY TOOL OR HOLE PROBLEMS, LOST TIME OR ANY OTHER EVENT WHICH MAY AFFECT THE LOGGING OPERATIONS.

SECTION 4 (b): ELECTRIC LOGGING TIME SUMMARY

Geology Operations

Santos

ACN 007 550 923

ELECTRIC LOGGING TIME SUMMARY

LOGGING UNIT:	V1030 ROMA
START DATE:	19/2/01
END DATE:	21/2/01
DEPTH DRILLER:	1803M
DEPTH LOGGER:	1794.8M

LEFT BASE:	17/2/01
ARRIVED AT THE WELLSITE:	18/2/01
INITIAL RIG UP:	19/2/01
FINAL RIG DOWN:	21/2/01
RETURN TO BASE:	22/2/01

WELL NAME:	McIntee 1
TRIP NUMBER:	1-2-3-4
WELLSITE GEOLOGIST:	TIM CONROY
LOGGING ENGINEER:	M.BARNES, J.CASALECNO
PAGE / DATE:	PAGE 1 OF 6 19/02/2001

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME Rev	L.O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
00:00											
:30											
01:00											
:30											
02:00											
:30											
03:00											
:30											
04:00											
:30											
05:00											
:30											
06:00											
:30											
07:00											
:30											
08:00											
:30											
09:00											
:30											
10:00											
:30											
11:00											
:30											

LOGGING UNIT: V1030 ROMA WELL NAME: MCINTEE1 PAGE: PAGE 2 OF 6 19/02/2001

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME SLB	I.O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
12:00											
:30											
13:00											
:30											
14:00											
:30											
15:00											
:30											
16:00											
:30	X										RIG UP RUN IGR-DLS-MRS-LCS
17:00	X									X	HOLD SAFETY MEETING
:30			X								RUN IN HOLE FIRST RUN !
18:00			X								COMMENCE LOG 1
:30				X							
19:00				X							TD TO 1200M MAIN LOG
:30				X							
20:00				X							FINISH MAIN LOG 1
:30			X								RUN TO TD FOR WFT DATA ACQUISITION
21:00				X							WFT VERY MEMORY INTENSIVE. ONE HARD
:30				X							DRIVE FAILED PLUS BOTH MAGNETIC TAPES.
22:00				X							RAN OUT OF MEMORY AT 1548M.
:30				X							ABORT WAVEFORM AQUIRE MAIN LOG TO SURF
23:00			X								PULL OUT OF HOLE
:30			X								TOOL AT SURFACE

LOGGING UNIT: V1030 ROMA WELL NAME: MCINTEE1 PAGE: PAGE 3 OF 6 20/02/2001

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RH/ POOH	LOGGING	DATA TX	LOST TIME Rev	I. O.	W/PER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
00:00	X										RIG DOWN SBT
			X			X					RUN IN HOLE LCS
:30			X			X					
			X			X					CAN'T ACQUIRE DATA DUE TO BAD DRIVES
01:00	X					X					RIG DOWN DLS-LCS
									X		SAFETY MEETING BEFORE PDS-CNS
:30	X										
		X									CASING CHECK
02:00			X								RUN IN HOLE
			X								
:30				X							START LOG OF PDS-CNS
				X							
03:00				X							HAPPY WITH TOOL RESPONSE
				X							
:30				X							
				X							CLEAN SAND PASS
04:00			X								PULL PDS-CNS OUT OF HOLE
			X								
:30		X									AFTER SURVEY CHECK
	X										RIG DOWN PDS-CNS
05:00	X										LOAD CORE GUN SAFETY MEETING
	X										
:30	X										
	X										
06:00	X										
	X										
:30	X										
	X										
07:00	X										
			X			X					RUNNING IN HOLE GR FAILURE
:30			X			X					
			X			X					PULL OUT OF HOLE
08:00			X			X					
	X										RIG DOWN SCG
:30	X										
	X										
09:00	X										RIG UP LCS WAVEFORM
			X			X					RUN IN HOLE
:30			X			X					PROBLEM WITH SOFTWARE AND
			X			X					UNDERSTANDING OF EQUIPMENT
10:00			X			X					
			X			X					
:30			X			X					PULL OUT OF HOLE
			X			X					CASING CHECK OF LCS
11:00		x				X					RUN IN HOLE
			X			X					
:30				X							START SECOND PART OF WAVEFORM LOG
				X							FINISH SECOND WAVEFORM LOG

LOGGING UNIT: V1030 ROMA	WELL NAME: MCINTEE1	PAGE: PAGE 4 OF 6 20/02/2001
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DATE / TIME	RIG UP / DOWN	TOOL CHECK	RH/POOH	LOGGING	DATA TX	LOST TIME SLB	L.O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
12:00			X			X					PULL LCS OUT OF HOLE
			X			X					
:30			X			X					
	X					X					RIG DOWN LCS
13:00						X					RFS AND SWC GUN BOTH NON FUNCTIONAL
						X					TOOLS, WAITING ON PARTS FROM NZ
:30						X					
						X					
14:00						X					
						X					
:30						X					
						X					
15:00						X					
						X					
:30						X					
						X					
16:00						X					
						X					
:30						X					SPARE PARTS FOR RFS ARRIVE
						X					PREPARE 3 CHAMBERS OF RFS
17:00						X					
						X					
:30						X					
						X					
18:00						X					
						X					
:30						X					
						X					
19:00						X					
						X					
:30						X					
										X	SAFETY MEETING RFS
20:00	X										RIG UP RFS
	X										
:30	X										
			X								RUN RFS IN HOLE
21:00			X								
			X								
:30			X								
			X								
22:00				X							CORRELATE RUN 1 + 0.8M
				X							
:30				X							
				X							
23:00				X							
				X							
:30				X							
				X							

LOGGING UNIT: V1030 ROMA WELL NAME: MCINTEE1 PAGE: PAGE 5 OF 6 21/02/2001

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME SLB	L.O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
00:00				X							
				X							
:30				X							
				X							
01:00				X							
				X							
:30				X							
				X							
02:00				X							
				X							
:30				X							
				X							
03:00				X							
				X							
:30				X							
				X							
04:00				X							
				X							
:30			X								PULL RFS OUT OF HOLE
			X								
05:00			X								AT SURFACE
										X	MEASURE PRESSURE BOTTOM TANKS 1850PSI
:30										X	
										X	TAKE SAMPLE GAS BALLOON (2% CO2)
06:00										X	
	X										START RIG DOWN RFS
:30	X										
	X										FINISH RIG DOWN RFS
07:00	X										
	X										SAFETY MEETING FOR SCG .
:30	X										RIG UP SCG
	X										
08:00	X										
	X										
:30	X										
	X										
09:00				X							CORRELATION PASS #1
				X							
:30				X							1ST SHOT
				X							
10:00				X							
				X							
:30				X							
				X							
11:00				X							LAST SHOT (LOST COMM FOR LAST 2 BULLETS)
			X								PULL SCG OUT OF HOLE
:30			X								
			X								

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME SLB	L. O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
12:00	X										
	X										RIG DOWN SCG
:30	X										
	X										FINISH RIG DOWN SCG
13:00	X										RIG DOWN SHEAVES
	X										
:30	X										
	X										FINISHED
14:00											RELEASED 23/2/01
											WELL BACK TO SANTOS
:30											
15:00											
:30											
16:00											
:30											
17:00											
:30											
18:00											
:30											
19:00											
:30											
20:00											
:30											
21:00											
:30											
22:00											
:30											
23:00											
:30											

WSG (SIGN) ENGINEER(SIGN)

TOTALS

TOTAL	1.25	.5	5	4.75		3.25				0.25
	0.5	0.5	1	1.5						0.25
	1.75		2	6		6.75				1.25
	6.75		1.75	2.25		1				

TOOLS RUN: GR-LCS-DLL-MLL-SLL-CSS
 TOOLS RUN: PDS-CNS
 TOOLS RUN: RFS
 TOOLS RUN: SCG

SERVICE QUALITY SUMMARY

CLIENT WSG					ENGINEER				
1	2	3	4	5	1	2	3	4	5
x					x				
	x					x			
				x					x
		x					x		
		x					x		

SAFETY
 PROMPTNESS
 TOOL & SURFACE SYSTEM PERFORMANCE
 ATTITUDE & CO-OPERATION
 WELLSITE PRODUCTS / LOG QUALITY
 COMMUNICATIONS / TX PERFORMANCE
 OTHER (PLEASE SPECIFY)

1: Excellent - 2 - 3: Normal - 4 - 5: Very Poor

SECTION 4 (c): FIELD ELECTRIC LOG REPORT

SANTOS LIMITED

FIELD ELECTRIC LOG REPORT

WELL: McIntee 1 **GEOLOGIST:** Tim Conroy
LOGGING ENGINEER: M. Barnes, J. Casalecno
RUN NO.: 1-2-3-4 **DATE LOGGED:** 19-21/02/01
DRILLERS DEPTH: 1803m **LOGGERS DEPTH:** 1794.8 m
ARRIVED ON SITE: 18/2/01
ACTUAL LOG TIME: 15.5 HRS **LOST TIME LOGGER:** 11 HRS
TOTAL TIME: 48.25 HRS **LOST TIME OTHER:** 0 HRS

TYPE OF LOG	DLL-SLL-LCS- GR-CAL-CSS-SP	PDS-CNS	RFS-GR	SCG
TIME CIRC. STOPPED	6.35 HRS	13.5 HRS	34 HRS	38 HRS
TIME TOOL RIG UP	0.75 HRS	0.25 HRS	0.75 HRS	4.0 HRS
TIME TOOL RIH	4.25 HRS	1 HR	2 HRS	0.75 HRS
TIME TOOL RIG DOWN	0.75 HRS	0.25 HRS	1 HR	2.75 HRS
TOTAL TIME	10.5 HRS	3.75 HRS	17.75 HRS	11.75 HRS

TYPE OF LOG	FROM	TO	REPEAT SECTION	TIME SINCE LAST CIRCULATION	BHT
DLL-SLL-MLL-SP-CSS- GR-CAL	1793.5M	SURFACE	DOWNLOG	6:35 HRS	64 °C
PDS-CNS-GR	1791.3M	1300M	DOWNLOG	13.5 HRS	70 °C
RFS	1356.5M	1756M	TIE IN	34 HRS	72.24 °C
SCG	1702.5M	1424.5M	TIE IN	38	-

MUD SYSTEM:
 KCL/PHPA/POLYMER
HOLE CONDITIONS:

WEIGHT:
 9.4 PPG

Very good borehole conditions. PHPA mudcake could potentially be plugging the snorkel of the RFS tool.

REMARKS / RECOMMENDATIONS

Good log quality for the resistivity/ sonic and density neutron runs. Good side wall core run. Waveform acquisition was problematical due to two magnetic tape drives failing and one hard drive failing. Reeves will do a better job next time. RFS run was sub standard.

WELLSITE LOG QUALITY CONTROL CHECKS

LOG ORDER FORM	X	MUD SAMPLE RESISTIVITY	X	TOOL NO. / CODE CHECK	X
OFFSET WELL DATA	X	CABLE DATA CARD	X	LOG SEQUENCE CONFIRM.	X

LOG TYPE	SLS	GR	CAL	DLL	MLL	PDS	CNS	CSG	RFS	REMARKS
CASING CHECK	X	X								
SCALE CHECK	X	X	X	X	X	X	X	X	X	
DEPTH Casing Total	X	X	X	X	X	X	X	X	X	
CALIBRATIONS OK	X	X	X	X	X	X	X	X	?	
REPEATABILITY	X	X	X	X	X	X	X	X	N	
LOGGING SPEED	X	X	X	X	X	X	X	X	X	
OFFSET WELL Repeatability	X	X	X	X	X	X	X	X	N	
NOISY / MISSING DATA										
CURVES/LOGS Depth Matched	X	X	X	X	X	X	X	X		
Rm MEASUREMENT										
LLS / LLD / CHECK										
PERF / RHOB CHECK										
LOG HEADER / TAIL	X	X	X	X	X	X	X	X	X	
PRINT/FILM QUALITY	X	X	X	X	X	X	X	X	X	

COMMENTS:

RFS run was very problematical. Pressures were not increasing with depth and were not repeatable within 20 psi (unacceptable). Good sample was taken. Reeves specialist will investigate the RFS run. Potentially the PHPA mud system mudcake was causing plugging of the snorkel. Density/neutron and resistivity sonic runs were good. MLL reads a little low due to limited penetration (pad is for a 3/4" borehole). RFS run went well. Lost contact with the tool at the end of the run missed two points. Make sure reeves has redundancy for all equipment to be run and make sure they have a truck with DAT drive capabilities and experienced engineers.

ENGINEERS COMMENTS (if this report has not been discussed with the Engineer, state reason)
 We will do a really good job next time. We promise.

908039 055

SECTION 4 (d): PRESSURE SURVEY DATA

SANTOS LIMITED
PRESSURE SURVEY

WELL: McINTEE 1 K.B.: 64.5M TOOL AND GAUGE TYPE: HP QUARTZ/STRAIN PAGE: 1 OF 2
 WITNESS: TIM CONROY TIME SINCE LAST CIRC.: 12:40 19-2-01 34HRS PROBE / PACKER TYPE: NORMAL DATE: 19-2-01

TEST	FORMATION UNIT SANDS	DEPTH		EXPECT. FORM PRESS.	EXPECT. TEMP.	FILE NO.	TEST RESULTS			INTERPRETATION			COMMENTS (FLUID TYPE)		
		K.B. FT/M	S.S. FT/M				HYDR. BEFORE PSI	FORM. PRESS PSI	HYDR. AFTER PSI	TEMP. °F/°C	DRAW D. MOBILITY MD/CP	TYPE D/D		TYPE BUILDUP	DEPLET -S/C
1	NULLAWARRE	1356.5	1292	1900	54 C		2225.63	1867.41	2225.77	-	N/A	N	RAPID	N	GOOD TEST
2	NULLAWARRE	1389	1324.5	1900	55 C		2279.44	1914.17	2279.50	-	N/A	N	RAPID	N	GOOD TEST
3	NULLAWARRE	1397	1332.5	1900	55 C		2292.48	1925.49	2292.60	61.01	N/A	N	RAPID	N	GOOD TEST
4	NULLAWARRE	1406.8	1342.3	1900	55 C		2308.72	1939.1	2308.80	61.01	N/A	N	GOOD	N	GOOD TEST
5	WAARRE	1541.5	1477	2100	58 C		2531.03	2094.53	2531.11	61.01	N/A	N	GOOD	N	GOOD TEST
6	WAARRE	1543.5	1479	2100	58 C		2534.42	2089.36	2534.49	64.91	N/A	N	GOOD	N	GOOD TEST
7	SAMPLE 3 CHAMBER/ AIR CUSHION	1545.7	1481.2	2100	59 C		2533.47	2113.69	2535.68	65.4	N/A	N	RAPID	N	GOOD TEST GOOD SAMPLE
8	WAARRE	1547.3	1482.8	2100	59 C		2540.72	2106.16	2540.80	64.91	N/A	N	GOOD	N	GOOD TEST
9	WAARRE	1550.2	1485.7	2100	59 C		2545.56	2101.59	2545.55	65.40	N/A	N	RAPID	N	GOOD TEST
10	WAARRE	1553.7	1489.2	2100	59 C		2551.43	2115.53	2551.52	64.91	N/A	N	RAPID	N	GOOD TEST
11	WAARRE	1554.8	1490.3	2100	59 C		2553.40	2092.80	2553.15	65.79	N/A	N	RAPID	N	GOOD TEST

ANTICIPATED GEOTHERMAL GRADIENT: 0.025 °C/M
 ANTICIPATED WATER GRADIENT: 0.45 PSI/FT
 MUD WEIGHT / GRADIENT: 9.2 PPG

DRAWDOWN NORMAL : PRESSURE DOES NOT DROP TO ZERO
 BUILD UP LIMITED : PRESSURE DROPS TO ZERO
 TYPES : IMMEDIATE - RAPID - GOOD - SLOW

SANTOS LIMITED
PRESSURE SURVEY

WELL: McINTEE 1 K.B.: 64.5 M TOOL AND GAUGE TYPE: HP QUARTZ/STRAIN PAGE: 2 OF 2
 WITNESS: TIM CONROY TIME SINCE LAST CIRC.: 12:40 19-2-01 34HRS PROBE / PACKER TYPE: NORMAL DATE: 19-20-2-01

TEST	FORMATION UNIT SANDS	DEPTH K.B. FT/M	DEPTH S.S. FT/M	EXCEPT. FORM PRESS. PSIG	EXCEPT. TEMP. °F/°C	FILE NO.	TEST RESULTS				INTERPRETATION				COMMENTS (FLUID TYPE)
							HYDR. BEFORE PSI	FORM. PRESS. PSI	HYDR. AFTER PSI	TEM P. °F/°C	DRAW D. MOBILITY MD/CP	TYPE D/D	TYPE BUILDUP	DEPLET -S/C	
12	WAARRE	1562.4	1497.9	2100	59 C		2565.74	2103.47	2565.95	65.4	N/A	N	SLOW	N	GOOD TEST
13	WAARRE	1563.5	1499	2100	59 C		2567.64	2106.25	2567.67	65.89	N/A	N	GOOD	N	GOOD TEST
14	WAARRE	1568.5	1504	2100	59 C		2575.78	2107.48	2575.90	65.89	N/A	N	GOOD	N	GOOD TEST
15	WAARRE	1570.5	1506	2100	59 C		2579.30	2108.80	2579.38	65.89	N/A	N	GOOD	N	GOOD TEST
16	WAARRE	1572	1507.5	2100	60 C		2581.84	2111.21	2581.79	65.89	N/A	N	GOOD	N	GOOD TEST
17	WAARRE	1577.4	1512.9	2100	61 C		2590.68	2117.73	2590.82	65.89	N/A	N	GOOD	N	GOOD TEST
18	EUMERALLA	1709	1644.5	2200	63 C		2807.4	965.53	2808.40	69.8	N/A	N	SLOW	N	CURTAILED
19	EUMERALLA	1711.2	1646.7	2200	63 C		2811.51	487.81	2804.06	69.82	N/A	N	SLOW	N	CURTAILED
20	EUMERALLA	1756	1678	2200	63 C		2888.16	233	2885.53	72.24	N/A	N	SLOW	N	CURTAILED
9A	WAARRE	1550.2	1485.7	2100	59 C		2545.88	2091.47	2545.72	65.4	N/A	N	GOOD	N	SPURIOUS
11A	WAARRE	1554.8	1490.3	2100	59 C		2553.21	2069.47	2553.26	65.79	N/A	N	GOOD	N	SPURIOUS

ANTICIPATED GEOTHERMAL GRADIENT: 0.025 °C/M

ANTICIPATED WATER GRADIENT: 0.45 PSI/FT

MUD WEIGHT / GRADIENT: 9.2 PPG

DRAWDOWN

BUILD UP

NORMAL : PRESSURE DOES NOT DROP TO ZERO

LIMITED : PRESSURE DROPS TO ZERO

TYPES : IMMEDIATE - RAPID - GOOD - SLOW

Very difficult to quality control Reeves RFS due to poor pressure display. Inexperienced RFS engineer running tool. Was not confident with pressures acquired. The pressures did not increase with depth as they should have. Pressures were not repeatable within reasonable accuracy. Potentially plugging of the tool was occurring. Reeves in England will be investigating the RFS logging run and getting back to operations geology.

McINTEE 1 GAS BREAK DOWN FROM SEGREGATED SAMPLE TAKEN AT 1545.7M ON 21-2-01.
ANALYSIS BY GEOSERVICES UNIT.

TOTAL GAS 2542 UNITS
79/13/6/1/1

C1 236379 PPM
C2 40027 PPM
C3 16320 PPM
IC4 3630 PPM
NC4 3901 PPM

CO₂ 1.33%

(NOTE: MAXIMUM CO₂ GAS READING DURING THE DRILLING OF THE WELL WAS 2.66%.)

SECTION 5: SIDEWALL CORE REPORT

SANTOS LIMITED

SIDEWALL CORE DESCRIPTION

WELL: MC INTEE 1 DATE: 20-2-01 PAGE: 1 OF 1GUN NO.: 1 SHOTS FIRED: 22 SHOTS BOUGHT: 20GEOLOGIST: TIM CONROY

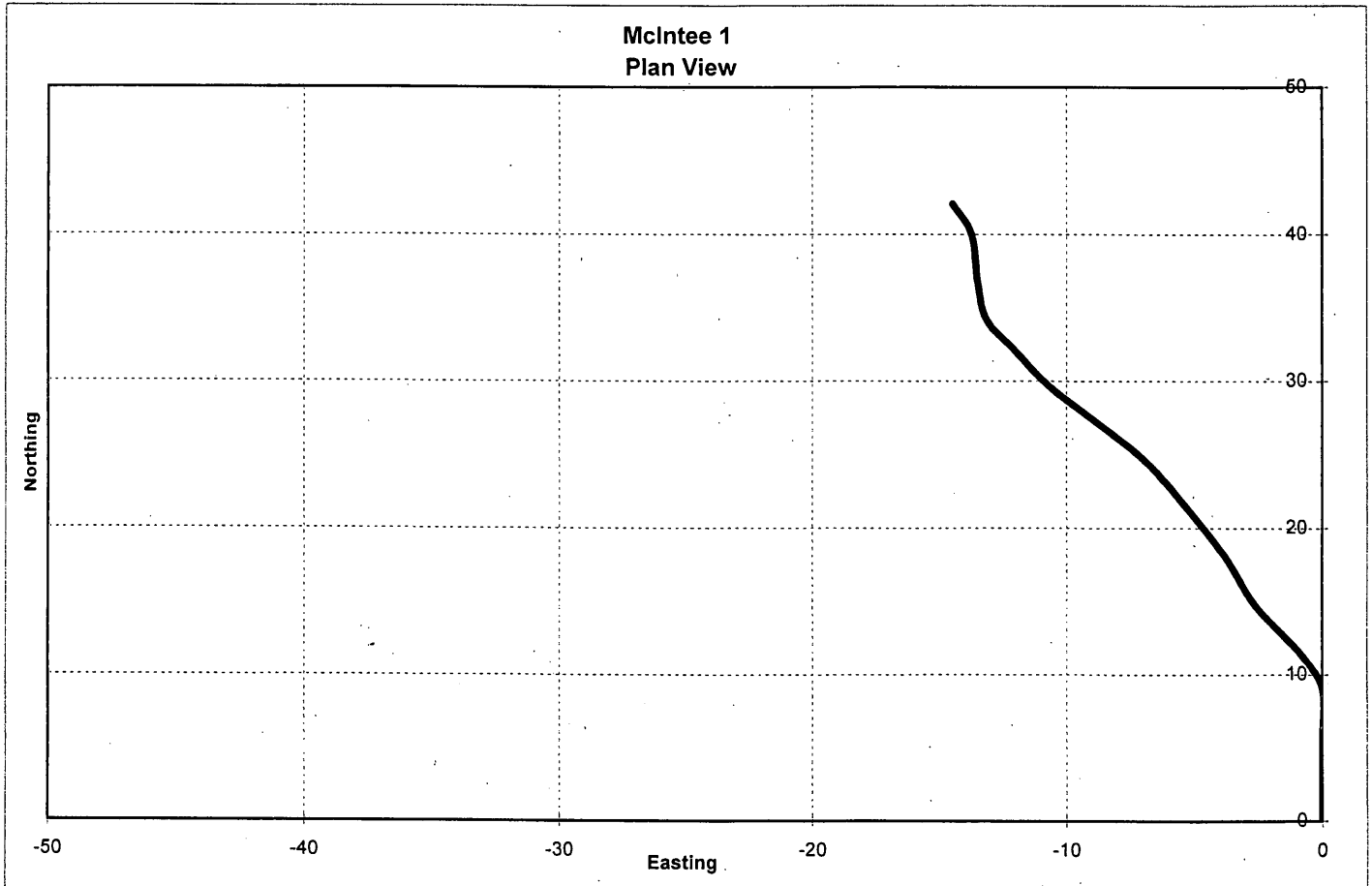
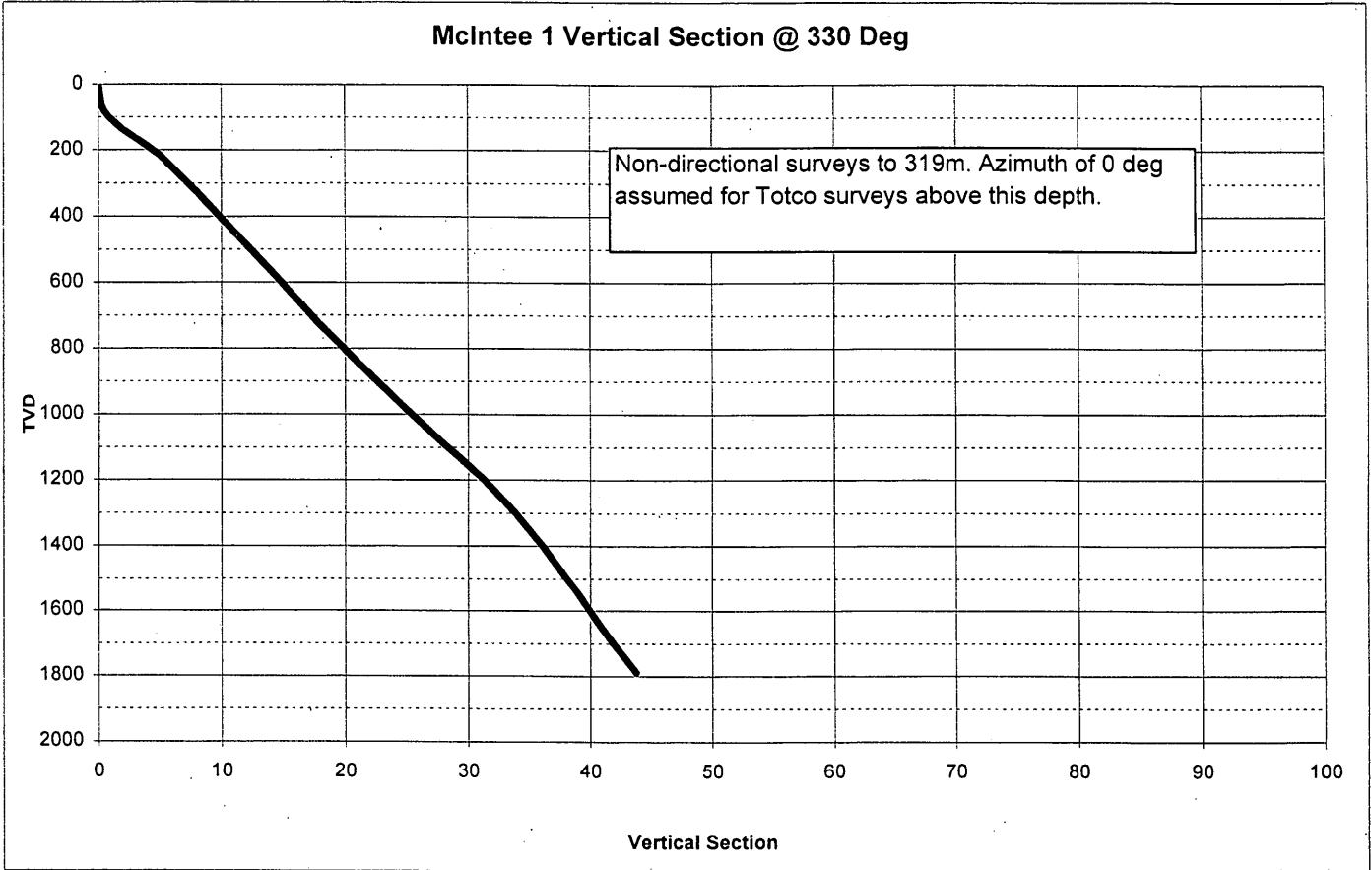
CORE NO.	DEPTH	REC.	PALY N EVAL. REJECT	LITH.	COLOUR	GRAIN SIZE	HYDR. INDIC. (Y/N)	SUPPLEMENTARY INFORMATION
1	1702.5	F	N	SLTST	Pale grey	2-65µm	N	Occasional carb lams, minor mica
2	1685	F	Y	SST	Pale grey	62-160 µm	N	Com silty matrix and lithics
3	1642	F	Y	SST	Pale grey	62-160 µm	N	Com silty matrix and lithics
4	1598	F	N	CLYST	Olive/grey	<2 µm	N	Very arg with minor mica spks
5	1596	F	N	CLYST	Olive/grey	<2 µm	N	Very arg with minor mica spks
6	1591	F	Y	SST	Off white	62-160 µm	N	Com off wh silty matrix, friable
7	1586.5	F	Y	SST	Off white	62-130 µm	N	Abdt off wh silty matrix, friable
8	1573.5	F	Y	SST	Off white	62-130 µm	N	Abdt off wh silty matrix, mnr carb frags
9	1564	F	Y	SST	Off white	62-130 µm	N	Com off wh silty matrix
10	1560.5	F	Y	SST/SLTST	Off white	40-100 µm	N	Com off wh silty matrix, g/t SLTST
11	1559	F	Y	SST/SLTST	Off white	40-100 µm	N	G/t SLTST, com dissem pyrite
12	1556.5	F	N	CLYST	Olive/grey	<2 µm	N	Very arg, minor mica & carb spks
13	1553	POOR	N	SST	Off white	100-500 µm	N	Com off wh silty matrix, minor crs
14	1547	F	Y	SST	Off white	100-250 µm	N	Com off wh silty matrix, carb lams, good perm, com kaolin
15	1542	F	Y	SST	Off white	200-500 µm	N	Com off wh silty matrix, minor carb lams, excellent perm, kaolin
16	1540	F	N?	SST/SLTST	Off white	80-190 µm	N	Com off wh silty matrix, minor carb lams, minor shale bands, trace coarse grns, fine g/t SLTST
17	1539	F	N?	SST & SLTST & CLYST	Off wh/org Off white Med grey	100-800 µm 50-80 µm <5 µm	N	Pr srt, org & wh mtx Off white, very f arenaceous Dirty CLYST with floating grns
18	1533.5	MOD	N	CLYST	Pl/brn gy	<5 µm	N	Common glauconite grains
19	1515	F	N	CLYST	Dk Gn/gy	<2 µm	N	Very argillaceous, homogeneous
20	1497	F	N	CLYST	Dk Gn/gy	<2 µm	N	Abdt large glauconite grains
21	1473.5	F	N	CLYST	Dk Gn/gy	<2 µm	N	Abdt large glauconite grains
22	1451	Lost	-	-	-	-	-	Lost
23	1431	-	-	-	-	-	-	Not Shot
24	1424.5	-	-	-	-	-	-	Not Shot

COMMENTS:

Good sidewall coring run. 24 side wall cores originally planned. 22 shot, 2 did not fire, 1 side wall core lost, 1 insufficient recovery. 19 good recoveries and 1 moderate recovery in all. The side wall core that was lost was a result of the bullet getting excellent penetration and not coming off the wall of the wellbore. After several attempts to retrieve the bullet from the wall of the wellbore it was pulled from the tool.

SECTION 6: DEVIATION DATA

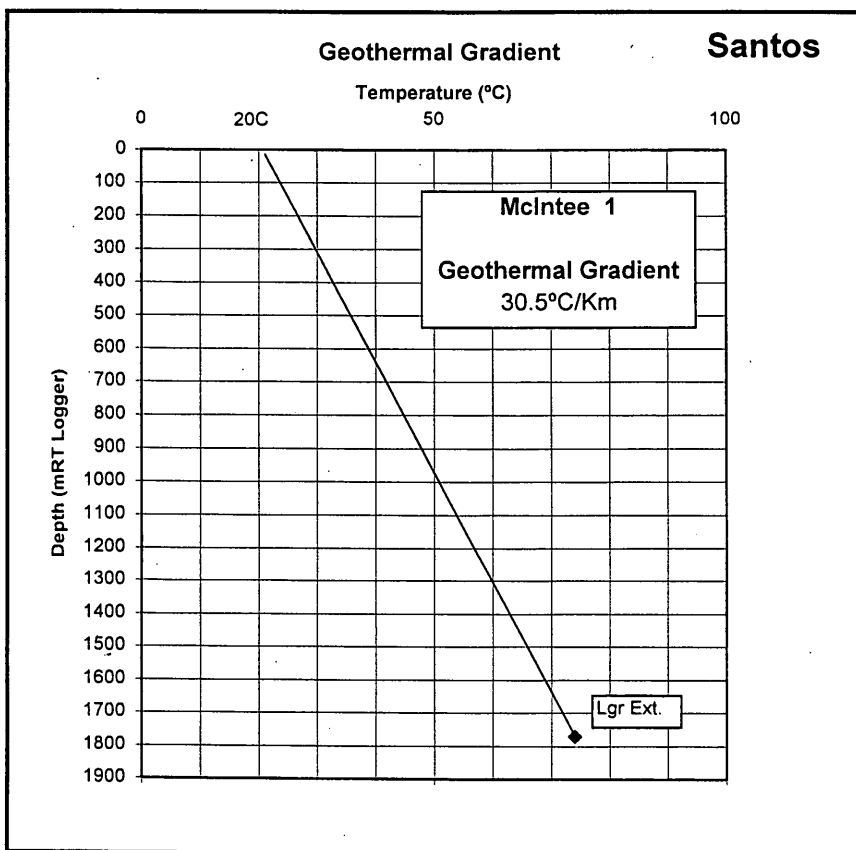
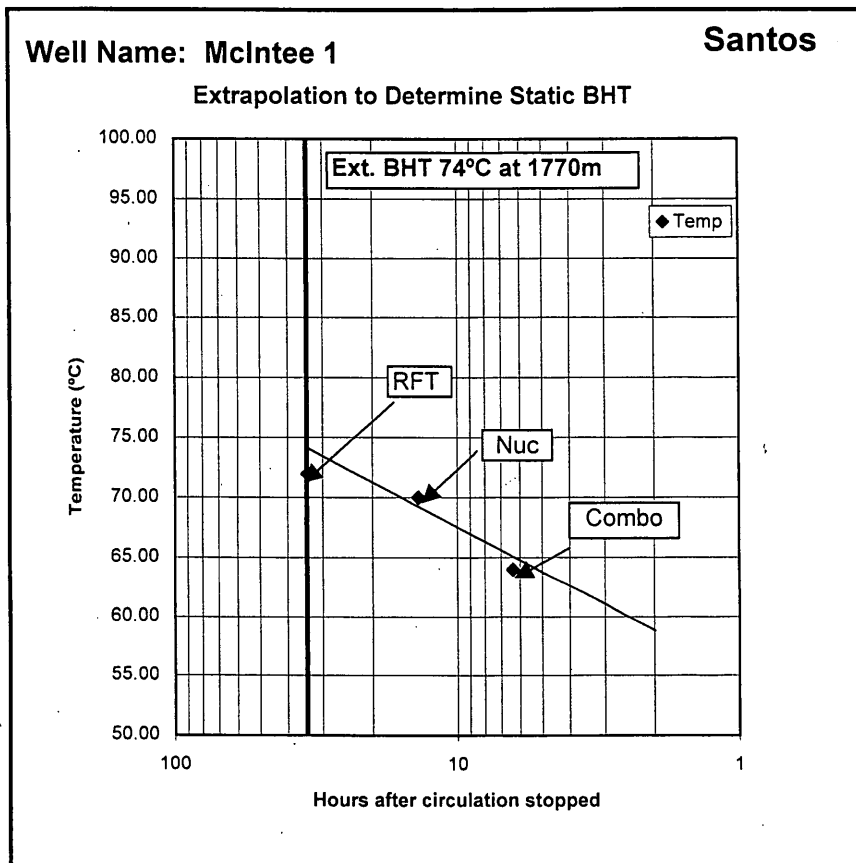
McIntee 1 Deviation plots



DEPTH	INCLIN	Azimuth	TVD	TVD	Northing	Easting	Q	Vert	Vert	(offset)	Direction
FT	DEG	DEG	FT	S/S ft	north	east	DEG	Sect	Plane	Displ	True
0	0.00	0	0.00	-64.00	0.00	0.00	0.00000	0.00	0	0.00	0.00
64	0.5	0	64.00	0.00	0.28	0.00	0.00871	0.24	-0.2418	0.28	0.00
82	1.25	0	82.00	18.00	0.55	0.00	0.01307	0.48	-0.4799	0.55	0.00
100	1.4	0	99.99	35.99	0.97	0.00	0.00260	0.84	-0.8403	0.97	0.00
137.00	2.5	0	136.97	72.97	2.23	0.00	0.01918	1.93	-1.9306	2.23	0.00
174.00	2.8	0	173.93	109.93	3.94	0.00	0.00522	3.41	-3.4121	3.94	0.00
212.00	2.25	0	211.89	147.89	5.61	0.00	0.00962	4.86	-4.8619	5.61	0.00
319.00	1.4	0	318.84	254.84	9.02	0.00	0.01485	7.81	-7.8129	9.02	0.00
415.00	1.63	324	414.81	350.81	11.30	-0.80	0.01677	10.19	10.1865	11.33	355.94
570.00	1.3	342	569.76	505.76	14.75	-2.64	0.00982	14.10	14.0988	14.99	349.85
720.00	1.5	339	719.71	655.71	18.21	-3.87	0.00370	17.70	17.7023	18.61	348.00
886	1.6	332	885.65	821.65	22.28	-5.74	0.00372	22.16	22.1643	23.01	345.56
990	1.6	333	989.61	925.61	24.86	-7.08	0.00049	25.07	25.0653	25.84	344.10
1090	1.8	315	1089.57	1025.57	27.21	-8.82	0.00989	27.98	27.9765	28.61	342.04
1193	1.75	331	1192.52	1128.52	29.73	-10.73	0.00866	31.11	31.1115	31.61	340.16
1299	1.2	332	1298.48	1234.48	32.13	-12.03	0.00963	33.84	33.8391	34.31	339.46
1405	1.3	332	1404.46	1340.46	34.17	-13.12	0.00173	36.15	36.1501	36.60	338.99
1525	1.3	12	1524.43	1460.43	36.70	-13.48	0.01551	38.52	-38.522	39.10	339.84
1685	1.2	338	1684.39	1620.39	40.03	-13.73	0.01286	41.53	41.5301	42.32	341.07
1790	1.2	342	1789.37	1725.37	42.09	-14.48	0.00146	43.69	43.6943	44.52	341.02

SECTION 7: GEOTHERMAL GRADIENT

Assumed surface temperature = 20°C.
Calculated BHT @ 1800m = 75°C.
Geothermal Gradient = 31°C/km.



SECTION 8: PRELIMINARY WELL LOCATION SURVEY

Paul D Crowe, B.App.Sci. (Surv), LS, M.I.S.
Trevor W McDowell, B.App.Sci. (Surv), LS, M.I.S.

Paul Crowe
Licensed Surveyor
192 Koroit Street,
WARRNAMBOOL 3280
Ph 5561 1500
Fax 5561 2935

ABN 5952 1601 183

27 Nov 2000

EFS
Attention Ray Willox
PETERBOROUGH
Fax 55985329

LOCATION NAME; McIntee #1

ORIGINAL LOCATION
00 - 074
NORTHING 5 738 317.06
EASTING 658 952.91

LAT 38° 29' 21.10"
LONG 142° 49' 21.18"

REVISION #1
00 - 074/1
SEISMIC REFERENCE 318.0 METRES AT BEARING 273° 51' FROM ORIGINAL LOCATION

NORTHING 5 738 338.44
EASTING 658 635.60

LAT 38° 29' 20.61"
LONG 142° 49' 08.07"

REVISION #2
00 - 074/2
SEISMIC REFERENCE 149.14 METRES AT BEARING 204° 25' FROM ORIGINAL LOCATION

NORTHING 5 738 181.25
EASTING 658 891.28 FINAL

LAT 38° 29' 25.54"
LONG 142° 49' 18.75" FINAL

PEG PLACED ON WED 23 NOV 2000 BY RAY WILLOX AND MEASURED BY TREVOR MCDOWELL
LICENSED SURVEYOR


PAUL D CROWE LICENSED SURVEYOR

MC INTÉE

NULLAWARRE - TIMBOON RD

22M

WJ + WJ COUCH

ACCESS RD 3.41 HA

PAD AREA 2.06 HA

5.47 HA - 13.51

N

1300M

250M

125

22M

SHALKE

CAR PARKING

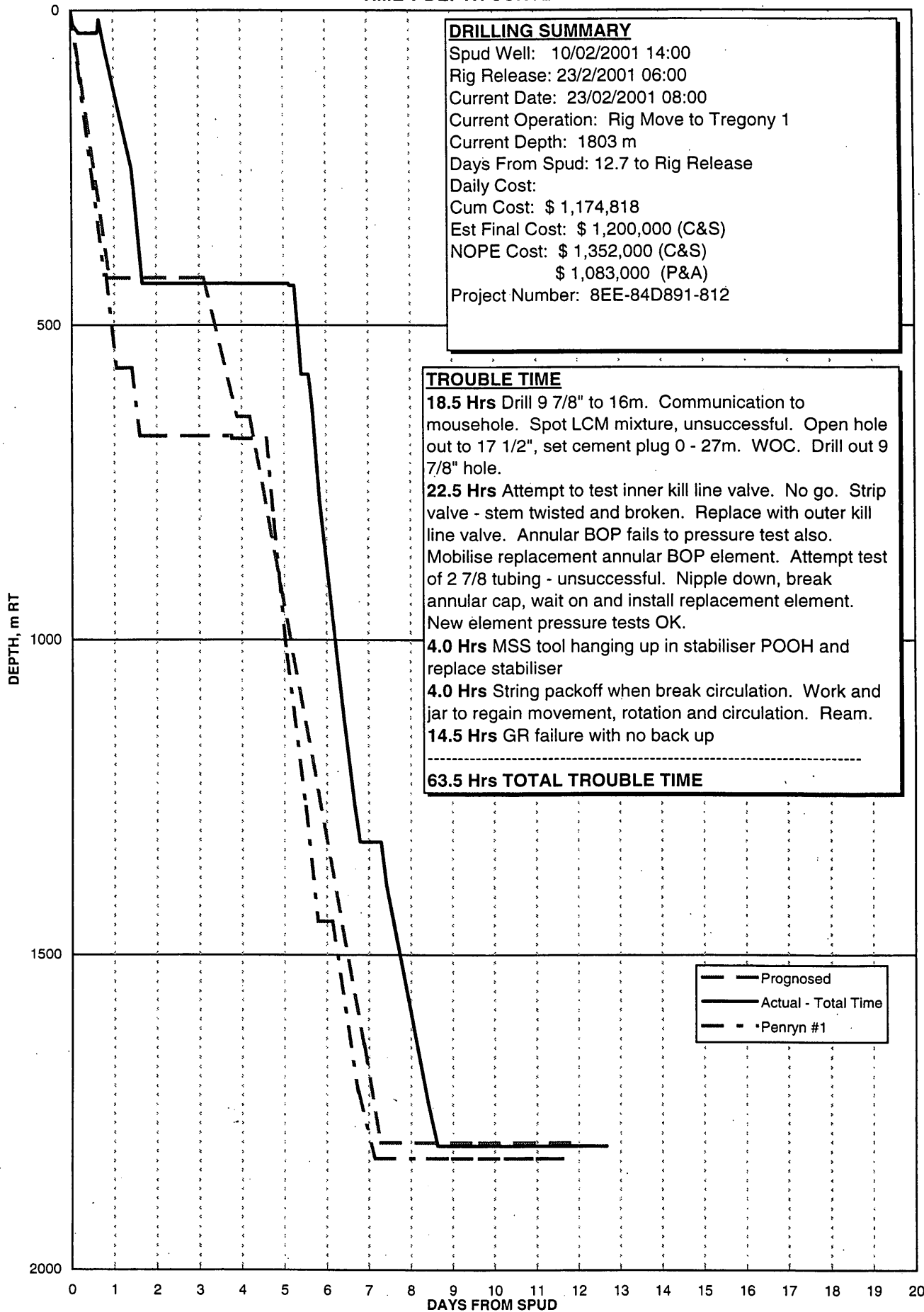
S-11

TOP SOIL

* NOT TO SCALE.

SECTION 9: TIME/DEPTH CURVE

**McINTEE #1
TIME v DEPTH CURVE**



SECTION 10: CATALOGUE OF WELLSITE SAMPLES

SAMPLE MANIFESTMcINTEE #1Sampling Frequency

10m: Spud - 870m
 3m: 870m - 918m
 6m: 918m - 1584m
 3m: 1584m - 1802mTD

SANTOS

Santos Core Laboratory

Samplex Trays:

Box 1 of 1: Spud-1802m

Washed & Dried
 Cuttings:

Box 1 of 5: Spud - 460m
 " 2 of 5: 460m - 972m
 " 3 of 5: 972m - 1372m
 " 4 of 5: 1372m - 1641m
 " 5 of 5: 1641m - 1802mTD

DNRE (Victoria)

Petroleum Branch
 250 Victoria Pde.
 Fitzroy, Victoria, 3065.

Washed & Dried
 Cuttings:

Box 1 of 6: Spud - 460m
 " 2 of 6: 460m - 909m
 " 3 of 6: 909m - 1128m

Box 4 of 6: 1128m - 1440m
 " 5 of 6: 1440m - 1653m
 " 6 of 6: 1653m - 1802mTD

Total No of Boxes

11

SECTION 11: CASING AND CEMENTING RECORDS

Santos

CASING AND CEMENTING

FORM

Santos Ltd
A.C.N. 007 550 923

Well Name: **McINTEE #1**

DQMS F-220

Well Size:	9 7/8"	T.D.:	433.55	By:	A.CHOMLEY	Date:	13/02/2001	Contractor:	Dowell Schlum.
Pre-Flush	40 bbls @	8.5 ppg.	WATER		Spacer	bbls @	ppg		
Additives: _____									

CEMENT	ADDITIVES	Product	%	Amount
LEAD SLURRY:	138 sacks class	G		
Slurry Yield:	2.85 cu.ft./sack	S001 Accelerator	1.50	194.58 LBS
Mixwater Req't:	17.5 gal./sack	D020 Bentonite	4.00	518.88 LBS
Actual Slurry Pumped:	70 bbls @ 11.5 ppg	D081 Retarder	0.00	0 gal
TAIL SLURRY:	85 sacks class	D047 Defoam	0.01	1.2972 gal
Slurry Yield:	1.19 cu.ft./sack	S001 Accelerator	0.05	3.995 LBS
Mixwater Req't:	5.3 gal./sack	D145A Dispersant	0.05	3.995 gal
Actual Slurry Pumped:	18 bbls @ 15.6 ppg	D081 Retarder	0.00	0 gal
		D047 Defoam	0.01	0.799 gal

DISPLACEMENT		Fluid:	MUD @ 9.1 ppg
Theoretical Displ.:	62.8 bbl.		Bumped plug with 1000 psi
Actual Displ.	62.5 bbl @ 5 bpm		Pressure Tested to: 2500 psi
Displaced via	RIG PUMP		Bleed back: 0.5 bbls

ACTIVITY	Time	Returns to Surface:	138 & 40 bbls mud & water	12 bbls cmt.
Start Running csg.	18:00	Reciprocate / Rotate Casing:	Yes	
Start Circulating	21:30	Top Up Job run:	Yes / No	YES sx class G
Pump PreFlush	22:20	Plug Set Make / Type:	Weatherford Non-Rotating Float equip.	
Lead Up	22:25	Centraliser Placement, type/depth:	Floating to 3m above shoe, Floating jt #2, 10' above float,	
Start Press Test	22:35	Jt # 5 & 7, 1 at 28m and cement basket.		
Start Mixing	22:45	Remarks:	Casing and Cementing went to program	
Finish Mixing	23:25			
Start Displacing	23:25			
Stop Displ./Bump	23:35			
Press. Test Finish	23:45			

No. JOINTS	DESCRIPTION	METERS	FROM	TO
	Stick Up (Enter as negative number)	-0.87	-0.87	0.00
1	RT to Top Bradenhead "A" Section	4.70	0.00	4.70
1	7 5/8 BTC x 9 5/8" x 11" 5k Bradenhead "A" Section (WG-22-L)	0.72	4.70	5.42
34	7 5/8" 26.4# L80 BTC Casing (Top collar removed)	398.44	5.42	403.86
1	Float Collar (NR) -Weatherford	0.40	403.86	404.26
2	7 5/8" 26.4# L80 BTC Casing	23.44	404.26	427.70
1	Float Shoe - Weatherford	0.44	427.70	428.14
***NB. Casing is 11.72m average length. ***NB. RT - GL = 4.70m				

Theoretical Bouyed wt of casing(klb):	32	Bradenhead Height above GL	0.00 m
Actual wt of casing (last joint run-block wt, klb)	34	Casing wt just prior to landing csg/	STUCK
Landing WT (after cementing and press. bleed off)	STUCK	setting slips (klbs)	

ENCLOSURE I: 5"= 100' MUDLOG

908039 078

WILL BE FORWARDED WHEN AVAILABLE