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## Seismic Survey Observer's Report Scanned Image File

Survey Name	GS88A Marine Seismic
UNO	S3880005
PSLA File Reference	88/11
Operator	Shell Dev (AUST) P/L
Contractor	GSI
Date of Recording	July 1988
Confidentiality	
Comment	

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Geoscience Australia  
Data Repository  
Cnr Jerrabomberra Avenue & Hindmarsh Drive,  
Symonston ACT 2609  
GPO Box 378, Canberra,  
ACT, 2601, Australia

Phone: +61 2 6249 9222

Fax: +61 2 6249 9903

E-mail: [ausgeodata@ga.gov.au](mailto:ausgeodata@ga.gov.au)

Web Page: <http://www.ga.gov.au>

SECTION II (2)

INSTRUMENT DETAILS AND DISCUSSIONS

SECTION II (2)

I. DIGITAL STREAMER DETAILS

LENGTH	3750 M.
GROUP INTERVAL	12.5 M.
LIVE SECTION LENGTH	75 M.
STRETCH SECTION LENGTH	100 M.
SEM MODULE LENGTH	0.46 M.
REPEATER MODULE LENGTH	0.3 M.
STREAMER TRACE MIX	1:1
NO. OF HYDROPHONES PER GROUP	32
HYDROPHONE INTERVAL	LINEAR, 1 PHONE / 0.3906 M.
HYDROPHONE TYPE	TI - ACR
NO. OF STRETCH SECTIONS	1 FRONT 1 TAIL
SKIN TYPE	POLYURETHANE
LOCATION OF DEPTH TRANSDUCERS	IN ALL SEMs
LOCATION OF DEPTH CONTROLLERS - 240 TRACE STREAMER	1, 31, 49, 73, 97, 121, 145, 181, 205, 229, 253, 277 + 289.* SEE DISCUSSION
NEAR GROUP	300
STREAMER SENSITIVITY	53.4 UV/UBAR
NEAR TRACE OFFSET	125.0 METRES

1(A) DIGITAL STREAMER DISCUSSION

AT THE BEGINNING OF THE SURVEY TWO STRETCH SECTIONS WERE INCORPORATED BETWEEN THE VESSEL AND THE LAST ACTIVE SECTION TO ATTENUATE ANY FRONT END JERK AND PROPELLER GENERATED NOISE BURSTS. THE FIRST FRONT-END STRETCH, IN THE WATER, WAS WEIGHTED WITH LEAD TO AID IN FRONT END BALLAST. ANOTHER STRETCH SECTION, ALONG WITH APPROXIMATELY 200 METRES OF ROPE, WAS PLACED BETWEEN THE TAILBUOY AND THE FIRST ACTIVE SECTION TO REDUCE TAILBUOY INDUCED NOISE BURSTS.

ON THE 01ST OF JULY THE FRONT-END CONFIGURATION WAS ALTERED TO ONE STRETCH SECTION PLUS STEEL TOW CABLE. THIS WAS DONE PRIMARILY TO CHANGE THE NEAR-TRACE OFFSET TO APPROXIMATELY 125 METRES. THE OFFSET HAD PREVIOUSLY BEEN APPROXIMATELY 147 METRES USING THE TWO STRETCH SECTIONS.

THE STREAMER DEPTH WAS MAINTAINED BY CORRECT BALLASTING AND THE USE OF DIGICOURSE, MODEL 396/02, COMPASS BIRDS. STREAMER DEPTHS WERE CONSTANTLY MONITORED THROUGHOUT THE SURVEY. THE DEPTH TRANSDUCERS WERE LOCATED IN EVERY SEM AND DIGICOURSE BIRD. THE BIRD DEPTHS WERE DISPLAYED ON THE SCS'S OPERATOR TERMINAL AND RECORDED IN THE OBSERVER'S LOG.

LINE GS88A-25A WAS TERMINATED ON THE 02ND OF JULY WHEN EXCESSIVE PARITY ERRORS WERE EXPERIENCED ON BOTH FIBRES. THE CAUSE OF THE PROBLEM WAS A BROKEN 'A' FIBRE BETWEEN SEMS 18 AND 19. THE PROBLEM WAS SOLVED BY COMMANDING SEM 18 TO TRANSFER DATA ALONG THE 'B' FIBRE THEREBY BYPASSING THE 'A' FIBRE. THE LINE WAS COMPLETED AT A LATER DATE.

THE POSITION OF BIRD NUMBER 5 WAS ALTERED ON THE 04TH OF JULY (0230 LOCAL) WHEN A FAULTY SENSOR COIL, IN THE SECTION, WAS DISCOVERED. THE NEW POSITION WAS ON THE LIVE I OF SEM 9 (TRACE NUMBER 103).

LINE GS88A-03 WAS TERMINATED ON THE 04TH OF JULY WHEN A PROBLEM OCCURRED WITH THE STREAMER. EXCESSIVE PARITY ERRORS WERE EXPERIENCED FOR MORE CONSECUTIVE SHOTPOINTS THAN THE CONTRACT WOULD ALLOW. THE STREAMER WAS 'POWERED DOWN' AND THEN 'POWERED UP' AGAIN WHICH RECTIFIED THE PROBLEM. THE LINE WAS RESURVEYED AT A LATER DATE.



II. RECORDING SYSTEM DETAILS

RECORDING SYSTEM	FIELD COMPUTER SYSTEM III
SOFTWARE VERSION	G.S.I. SYS 27
TAPE FORMAT	SEG D. 2.5 BYTE GROUP CODED RECORDING 6250 B.P.I.
TAPE SPEED	125 I.P.S.
CHANNELS (ON TAPE)	312 ( INCLUDES 12 AUXILIARY )
GAIN CONTROL MODE	I.F.P.
SAMPLE INTERVAL	2 MS.
RECORD LENGTH	6 SECS.
RECORDING DELAY	0 SECS.
PREAMPLIFIER GAIN	0.535
FINAL GAIN	88 DB
DYNAMIC RANGE	115 DB (REFERRED TO INPUT NOISE.)
FILTERS      LOW CUT HIGH CUT	OUT * SEE DISCUSSION 128 HZ @ 72 DB/OCTAVE
POLARITY	POSITIVE PRESSURE GIVES NEGATIVE NUMBER ON TAPE AS PER SEG CONVENTION

II(A) RECORDING SYSTEM DISCUSSION

ON COMPLETION OF A SEISMIC LINE THE FIRST AND LAST MAGNETIC DATA TAPES WERE PARTIALLY REPLAYED TO ENSURE READABILITY AND DATA INTEGRITY. A RECORD HEADER WAS ALSO DECODED AND ANALYSED AFTER EVERY LINE AS A CONFIRMATION OF CORRECT SYSTEM SET UP AND Q.C. DATA TRANSFER TO TAPE.

AT THE COMMENCEMENT OF THE SURVEY LOW-CUT FILTERS WERE NOT USED. THIS WAS DONE AT CLIENT REQUEST. HOWEVER, THEY WERE USED FROM THE 02ND OF JULY (LINE GS88A-25) TO THE END OF THE SURVEY. THE LOW-CUTS USED WERE 8Hz/18dB SLOPE.

LINE GS88A-025 WAS TERMINATED ON THE 02ND OF JULY WHEN COMMUNICATION ERRORS OCCURRED (DUE TO SOFTWARE PROBLEMS) BETWEEN THE TITAN AND THE CMS. THIS WAS THE FIRST TIME THAT THE NEW TITAN SOFTWARE WAS USED. THE SOFTWARE WAS RELOADED AND THE LINE RESURVEYED.

III. SERVO PROFILER DETAILS

MANUFACTURER	EPC LABS
MODEL	3200
SERIAL NUMBER	252
SOURCE	TRACE NUMBER 296
RECORD LENGTH	4 SECS.
GAIN MODE	PGC
FILTERS	PRODUCTION FILTERS

III(A) SERVO PROFILER DISCUSSION

AN EVENT MARK APPEARED ON THE PROFILER RECORDS AT A 50 SHOTPOINT INTERVAL WITH THE RELEVANT SHOTPOINT NUMBER ANNOTATED ON THAT MARK. THIS WAS DONE TO AID INTERPRETATION.

#### IV. FATHOMETER DETAILS

MANUFACTURER	SIMRAD
MODEL	EA
WATER VELOCITY VALUE	1492 M/SEC.
TRANSDUCER (1) POSITION	2.40 M. FORWARD
TRANSDUCER (2) POSITION (WITH RESPECT TO CNP)	11.99 M. AFT, 10 M. TO STARBOARD
DRAFT CORRECTION (SAME FOR BOTH TRANSDUCERS)	3.7 M.
CALIBRATED	29TH JUNE 1988.

#### IV(A) FATHOMETER DISCUSSION

AT A 50 SHOTPOINT INTERVAL AN EVENT MARK WAS LOGGED TO THE FATHOMETER STRIP CHART WITH THE RELEVANT SHOTPOINT NUMBER AND WATER DEPTH ANNOTATED ALONGSIDE THE MARK. ON ANY OCCASION WHERE IT BECAME NECESSARY TO CHANGE THE FATHOMETER SCALE, THE SHOTPOINT NUMBER AND NEW SCALE WOULD BE LOGGED ON THE CHART.

ON THE 16TH OF JANUARY A FAULT OCCURRED IN THE FATHOMETER WHICH REQUIRED THE REPLACEMENT OF THE ELECTRONICS AND DIGITIZER. THIS WAS CARRIED OUT AND NO FURTHER PROBLEMS WERE ENCOUNTERED.

PROBLEMS DEVELOPED WITH THE FATHOMETER'S TRACKING ON THE 05TH OF MAY DUE TO A COMBINATION OF ROUGH SEAS AND DEEP WATER DEPTHS. THE LINES AFFECTED WERE AS FOLLOWS: GF88C-91, GF88C-93, GF88C-95 AND GF88C-97.

THE FATHOMETER WAS OPERATIONAL FOR ALL RECORDED SEISMIC LINES. TRANSDUCER 1 WAS USED THROUGHOUT THE SURVEY.

V. MULTI-TRACE PLOTTER DETAILS

MANUFACTURER	GEO SPACE
MODEL	GS-622
NUMBER OF CHANNELS	300
PLOT RATE	1.0" PER SEC.
TIMING LINE PERIODS	LIGHT LINES    :- 20 MSEC MEDIUM LINES   :- 100 MSEC HEAVY LINES    :- 1 SEC
TRACE # ANNOTATION	EVERY 12 TRACES STARTING AT #12
DISPLAY MODE	"ON LINE"       :- VARIABLE WIGGLE "NOISE STRIPS" :- WIGGLE ONLY
TRACES PER INCH	"ON LINE"       :- 20 "NOISE STRIPS" :- 10
POLARITY	POSITIVE PRESSURE DOWNBREAK.

V(A) PLOTTER DISCUSSION

DURING NORMAL "ON-LINE" OPERATION PLOTS WERE PRODUCED APPROXIMATELY EVERY 40 SHOTPOINTS. THESE RECORDS INCLUDED A HEADER LABEL, PROVIDING FIELDS CONTAINING THE FOLLOWING INFORMATION :-

0	FILE NUMBER (SEISMIC DATA TAPE)
0	GMT TIME
0	SEISMIC TAPE REEL NUMBER
0	JULIAN DATE

DURING THE PERIOD OF SURVEY EXECUTION THE FIELDS AVAILABLE FOR SHOTPOINT NUMBER, LINE NUMBER AND CREW NUMBER WERE NOT SUPPORTED BY THE "WESTREN" SOFTWARE VERSION IN USE AND SO THE LINE NUMBER WAS MANUALLY INPUT, VIA THE CONTROLLER TERMINAL, INTO THE COMMENTS FIELD.

VARIOUS DISPLAY PARAMETERS, INCLUDING OVERALL GAIN AND PROGRAM GAIN CONTROL VALUES, WERE ADJUSTED FROM TIME TO TIME TO PROVIDE THE BEST DISPLAY CHARACTERISTICS FOR THE DIFFERENT AREA DEPENDENT GRAPHIC PROFILES.

VI. MAGNETOMETER DETAILS

GEOMETRICS G-803 PROTON-FREE PRECESSION MAGNETOMETER

DATA RATE : 5 SECONDS  
SENSITIVITY : 1 GAMMA  
CHART SPEED : 2 CM./SEC.  
CHART SCALE : 2 GAMMA/SMALL DIVISION  
100 GAMMA FULL SCALE  
RED PEN : SIGNAL AND EVERY 150TH SHOTPOINT

VI (A) MAGNETOMETER DISCUSSION

THE MAGNETOMETER WAS OPERATIONAL FOR ALL LINES WHERE MAGNETOMETER DATA WAS REQUESTED BY THE CLIENT IN PERMITS VIC/P21 AND VIC/P28.

THE MAGNETOMETER FISH WAS TOWED APPROXIMATELY 200 METRES FROM THE STERN OF THE VESSEL RUNNING BETWEEN THE INNER AND OUTER GUN-STRINGS ON THE STARBOARD SIDE. THE FISH WAS APPROXIMATELY 125 METRES FROM THE NEAREST AIR-GUN.

VII. ENERGY SOURCE DETAILS

2180 CU. IN. CONVENTIONAL TOW SLEEVE AIRGUN ARRAY

OPERATING VOLUME	2180 CU. INS.
OPERATING PRESSURE	1800 P.S.I.
OPERATING DEPTH	6.0 M. +/- 1.0 M.
TIMING CONTROL	TIGER II
FIRING DELAY	51.2 MS.
COMPRESSORS	3 SULLAIR ( 1 SPARE ) 5 PB-44 ( 2 SPARE )
DISTANCE FROM CNP TO CENTRE OF ARRAY	116.79 M. (27-06-88 > 28-06-88) 96.79 M. (02-07-88 > END OF SURVEY)
DISTANCE FROM STERN TO CENTRE ARRAY	87.0 M. (27-06-88 > 28-06-88) 67.0 M. (02-07-88 > END OF SURVEY)

VII(A) ENERGY SOURCE DISCUSSION

DURING THE SHELL BASS STRAIT SURVEY THE CONVENTIONAL TOW ARRAY WAS UTILISED WITH A SPREAD OF 25 METRES BETWEEN THE OUTER ARRAYS. AT THE COMMENCEMENT OF THE SURVEY THE DISTANCE FROM THE STERN OF THE VESSEL TO THE FIRST GUN OF EACH SUB-ARRAY WAS 80 METRES. HOWEVER, THIS WAS ALTERED TO 60 METRES ON THE 02ND OF JULY AND REMAINED THIS DISTANCE UNTIL THE END OF THE SURVEY.

THE AIRGUNS WERE MAINTAINED BY GSI PERSONNEL ON LINE CHANGES SO THAT THROUGHOUT THE SURVEY THE AIRGUNS WERE OPERATING WITHIN SPECIFICATIONS. WHILST SURVEYING, USING 25 METRE SHOTPOINT INTERVALS, TWO SULLAIR AND THREE PB-44 COMPRESSORS WERE UTILIZED.

THE AIRGUNS OPERATED VERY SATISFACTORILY FOR THE DURATION OF THE SURVEY.



MARINE FIELD DATA	CLIENT: SHELL	PROSPECT: VIC P/21	RECORD LENGTH: 6 Sec	FORMAT: SEG D	S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR	A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD
DATE: 5-JULY	VESSEL: M/V MAG CREEK	LINE: 688A-1 ID = 01	SAMPLE RATE: 2m Sec	GUN DELAY: 51.2mS		
PAGE 1 OF 1	PARTY: 2993	DIRECTION: 45.2	TRACES: 300+12	OPERATOR:		

FIELD TAPE ENTRY																			
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER						FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS
				REC.N	TYPE	M1	AV	h0											
101	101	08:59 <sup>49</sup>	73			8.8	8.6	8.2			1.7°S	704519	0	101	101	175	175	RN GUN TD ONSET OFFSET	
																		96 95 51.2	
150	151	09:07 <sup>31</sup>	73			8.8	8.6	8.2			0.3°S	704520	1	176	176			97 255 51.3	
																		98 9P 51.4	
																		99 25P 51.4	
203	203	09:15 <sup>46</sup>	73								2.0°S								
																		AV OFFSET	
																		# 100 BOL NOISE	
																		# 204 EOL NOISE	
																		Kill TRACE 150	
																		VESSEL PASSING PORT TO STARBOARD	
																		AIRPORT 2km @ SP 170	

Do Not PROCESS

LAST FILE#  
" SHOTPOINT"  
" TAPE#

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-011

DATE : 04 JULY 88

F.S.P. : 812

L.S.P. : 023

TOTAL SPS : 790

F.R.N. : 101

L.R.N. : 890

TOTAL KMS : 19.750

FIRST REEL : 704465

LAST REEL : 704476

NO OF REELS: 12

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

224.8 DEG.

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : 123 Metres  
STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 103,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -# 5  
LINE STATUS : -COMPLETE

# GEOPHYSICAL SERVICE INC.

11-A8827

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: VIC/P21		RECORD LENGTH: 6 Sec		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR		A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD										
DATE: 4-July-88				VESSEL: m/v MAG CREEK		LINE: 4588A-11 ID = 011		SAMPLE RATE: 2mSec		GUN DELAY: 51.2ms														
PAGE 1 OF 1				PARTY: 2993		DIRECTION: 224.8		TRACES: 300+12		OPERATOR: ML														
														FIELD TAPE ENTRY										
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER						FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS					
				REC.N	TYPE	SPX	H1	AV	L0															
101	812	09:15	73				8.8	8.4	7.6			3.55	704465	0	101	812		175	738	RN	GUN	TD	ONSET	OFFSET
																			96	95	51.2	128	121.5	
151	762	09:23	72				8.8	8.6	7.9			3.75							97	253	51.6	130	123.8	
													704466	1	176	737	255	658	98	9P	51.3	130	124.3	
201	712	09:30	72				8.8	8.6	8.2			4.15							99	25P	51.4	130	124.2	
251	662	09:37	73				8.8	8.6	8.2			4.15	704467	2	256	657	335	578						
																			100					
301	612	09:45	73				9.1	8.6	7.9			4.05												
													704468	0	336	577	415	498	891					
351	562	09:52	72				8.8	8.5	8.2			3.75												
401	512	10:01	72				8.5	8.5	8.2			3.75	704469	1	416	497	495	418						
451	462	10:08	72				8.5	8.5	8.2			3.65												
													704470	2	496	417	566	347						
501	412	10:16	72				8.8	8.6	8.2			4.35												
551	362	10:23	72				8.5	8.5	8.2			5.05	704471	0	567	346	567	346						
601	312	10:31	72				8.8	8.7	8.2			5.65	704472	1	568	345	647	266						
651	262	10:39	71				8.8	8.6	8.5			6.05	704473	2	648	267	727	186						
701	212	10:46	70				8.8	8.5	8.2			6.25	704474	0	728	185	807	106						
751	162	10:53	70				8.8	8.5	8.2			6.05												
													704475	1	808	105	887	26						
801	112	11:01	71				8.8	8.5	8.2			5.95												
851	62	11:08	72				8.8	8.5	8.2			5.65												
													704476		888	25	890	23						
890	23	11:14	72				8.5	8.4	8.2			5.45												

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-013

DATE : 04 JULY 88

F.S.P. : 101

L.S.P. : 966

TOTAL SPS : 866

F.R.N. : 101

L.R.N. : 966

TOTAL KMS : 21.650

FIRST REEL : 704454

LAST REEL : 704464

NO OF REELS: 11

RECORD LENGTH : 6 Seconds  
 RECORD DELAY : 0 Seconds  
 SAMPLE RATE : 2 Milliseconds  
 FILTERS HIGH : 128/72  
 LOW : 8/18  
 RECORDING FORMAT : SEG D  
 PACKING DENSITY : 6250 BPI

DIRECTION

N

044.9 DEG.

PREAMP GAIN : Low  
 RECORD GAIN MODE : IFP  
 REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
 AIRGUN SPREAD (M): 8.3/8.3/8.3  
 AIRGUN ARRAY VOL.: 2180 cubic inches  
 AIRGUN PRESSURE : 1800 PSI  
 AIRGUN DEPTH : 6 Metres  
 TIMING DELAY : 51.2 Milliseconds  
 TRACE MIX : 1:1 Traces 001-300  
 TOTAL CHANNELS : 312  
 AUX. CHANNELS : 301-312  
 DATA CHANNELS : 1-300

STREAMER TYPE : MULTIPLEX  
 SKIN : P.U.  
 STREAMER LENGTH : 3750 Metres  
 GROUP INTERVAL : 12.5 Metres  
 SHOTPOINT INTERVAL : 25 Metres  
 OFFSET : 122 Metres  
 STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
 TRACES:- 1, 31, 49, 73, 103,  
 121, 145, 181, 205,  
 229, 253, 277, 289.

PRIMARY NAV SYS : SYLEDIS  
 FREQUENCY : 427 MHz  
 SECONDARY NAV SYS: TRANSIT SATELLITE

COMMENTS: TRACES TO EDIT : -NIL  
 COMPASSES EXCLUDED: -NIL  
 LINE STATUS : -COMPLETE

# GEOPHYSICAL SERVICE INC.

91-48827

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: VIC P121		RECORD LENGTH: 6 sec		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR		A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD	
DATE: 4 JULY 1988				VESSEL: MAG CREEK		LINE: 5568A-13 ID = 13		SAMPLE RATE: 2 ms		GUN DELAY: 51.2ms					
PAGE 1 OF 1				PARTY: 2993		DIRECTION: 44.3°		TRACES: 300 + 12		OPERATOR: <del>JEFF</del> MK.					

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS					
				REC.N	TYPE	HI	AV	LO		TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	RN	GUN	TØ	ONSET	OFFSET
101	101	05:47	69			8.8	8.6	8.2	2.18	704454	0	101		101	175	175				
151	151	05:55 <sup>23</sup>	69			8.8	8.6	8.2	3.58	704455	1	176		176	255	255				
201	201	06:03 <sup>14</sup>	70			8.8	8.5	8.2	3.68	704456	2	256		256	335	335				
251	251	06:11 <sup>37</sup>	71			8.8	8.7	8.2	3.88	704457	0	336		336	415	415				
301	301	06:19	71			8.8	8.7	8.5	4.08	704458	1	416		416	495	495				
351	351	06:27	71			8.8	8.6	8.2	4.05	704459	2	496		496	575	575				
401	401	06:35	71			8.5	8.4	7.9	3.55											
451	451	06:43	73			8.8	8.6	7.9	3.05	704460	0	576		576	655	655				
501	501	06:51	72			8.8	8.5	8.2	2.95	704461	1	656		656	735	735				
551	551	06:58	71			8.8	8.5	8.2	2.55	704462	2	736		736	815	815				
601	601	07:06	72			8.8	8.5	8.5	2.35											
651	651	07:14	73			8.8	8.5	7.9	2.65	704463	0	816		816	895	895				
701	701	07:22	73			8.8	8.6	8.2	2.45											
751	751	07:29	73			8.8	8.6	8.5	2.15	704464	1	896		896	966	966				
801	801	07:37	73			8.5	8.5	8.2	1.55											
851	851	07:45	74			8.8	8.4	8.2	1.05											
901	901	07:53	73			8.8	8.6	8.2	0.55											
951	951	08:01	74			8.8	8.5	8.2	0.15											
966	966	08:04	75			8.8	8.6	7.9	0.2P											

AVE OFFSET 122.4

LAST FILE \* 966

LAST SP \* 966

LAST TAPE \* 704464

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-015

DATE : 03 JULY 88

F.S.P. : 101

L.S.P. : 1087

TOTAL SPS : 987

F.R.N. : 101

L.R.N. : 1087

TOTAL KMS : 24.675

FIRST REEL : 704441

LAST REEL : 704453

NO OF REELS: 13

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

044.9 DEG.

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : Metres  
STREAMER DEPTH : 8.1 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 97,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -COMPLETE

# GEOPHYSICAL SERVICE INC.

MARINE FIELD DATA				CLIENT: SHELL				PROSPECT: VIC/P-21				RECORD LENGTH: 6 SEC				FORMAT: SEG D				S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR				A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD											
DATE: 3 JULY: 88				VESSEL: M/V MAG CREEK				LINE: 6588A015 ID = 015				SAMPLE RATE: 2mS				GUN DELAY: 51.2mS																			
PAGE 1 OF				PARTY: 2993				DIRECTION: 44.9° TRUE				TRACES: 300 + 12 Aux				OPERATOR:																			
																FIELD TAPE ENTRY																			
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER						FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS																
				REC.N	TYPE	HIGH	AVE	LOW	FILE #	GUN #	TD								ONSET	OFFSET															
101	101	12:25	69					8.2	8.1	7.0	1.3°	704441	0	101	101			96	95	51.2ms	130ms	124.4m													
151	151	12:34	69					8.5	8.1	7.3	0.6°	704442	1	176	176			97	255	51.6ms	132ms	133.8m													
201	201	12:43	70					8.5	8.1	7.3	0.4°	704443	2	256	256			98	3P	51.5ms	132ms	127m													
251	251	12:52	70					8.3	8.1	7.3	0.6°	704444	0	336	336			99	25P	51.5ms	132ms	127m													
301	301	13:01	71					8.5	8.1	7.3	0.4°	704445	1	416	416			AVERAGE OFFSET = 125.6m																	
351	351	13:09	72					8.3	8.0	7.0	0.7°	704446	2	496	496			# 100	NOISE BOL																
401	401	13:19	73					8.5	8.2	7.3	1.3°	704447	0	576	576			# 1088	NOISE EOL																
451	451	13:27	72					8.5	8.2	7.6	1.3°	704448	1	656	656																				
501	501	13:36	72					8.5	8.2	7.6	2.1°	704449	2	736	736																				
551	551	13:45	73					8.5	8.1	7.3	2.6°	704450	0	816	816																				
601	601	13:54	73					8.5	8.2	7.6	2.9°	704451	1	896	896																				
651	651	14:02	74					8.5	8.2	7.6	2.8°	704452	2	976	976																				
701	701	14:10	75					8.2	8.1	7.3	2.5°	704453	0	1056	1056																				
751	751	14:19	74					8.5	8.2	7.3	2.6°																								
801	801	14:27	74					8.5	8.2	7.6	2.7°																								
851	851	14:35	75					8.5	8.2	7.6	3.7°																								
901	901	14:43	75					8.2	8.2	7.3	4.2°																								
951	951	14:51	75					8.5	8.2	7.6	4.5°																								
1001	1001	15:00	76	1036	BR			8.2	8.1	7.3	4.7°																								
1051	1051	15:08	77					8.2	8.1	7.3	5.5°																								
1087	1087	15:14	75					8.5	8.2	7.3	5.9°																								
																LAST FILE # 1087 " S.P. # 1087 " TAPE # 704453																			
																LINE COMPLETE / PROCESS																			

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-017

DATE : 03 JULY 88

F.S.P. : 1255

L.S.P. : 022

TOTAL SPS : 1234

F.R.N. : 101

L.R.N. : 1334

TOTAL KMS : 30.850

FIRST REEL : 704425

LAST REEL : 704440

NO OF REELS: 16

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

225 DEG.

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : 123 Metres  
STREAMER DEPTH : 8.1 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 97,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -COMPLETE



# GEOPHYSICAL SERVICE INC.

F7-A 8822

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: G588A Vic/P-21		RECORD LENGTH: 6 sec		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR		A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD				
DATE: 3 JULY : 88				VESSEL: m/v MAG CREEK		LINE: G588A-17 ID = 017		SAMPLE RATE: 2 msec		GUN DELAY: 51.2ms								
PAGE 1 OF				PARTY: 2993		DIRECTION: 225		TRACES: 300 + 12		OPERATOR: Norm Hoyer								
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER						FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS
				REC.N	TYPE	11	Av	10						TAPE NUMBERS	T	F.R.N.	F.S.P.	
101	1255	04:51 <sup>40</sup>	73			8.8	8.4	8.2	2.2°P	704425	0	101	1255	175	1181	RN GUN TD ONSET OFFSET		
151	1205	04:59 <sup>37</sup>	74			8.8	8.5	8.2	2.7°P	704426	1	176	1180	285	1101	96 95 51.2 128 121.45		
201	1155	05:07 <sup>35</sup>	74			8.5	8.4	8.2	2.5°P							97 255 51.4 130 124.15		
251	1105	05:15 <sup>33</sup>	73			8.8	8.5	8.2	2.3°P	704427	2	256	1100	335	1021	98 9P 51.5 130 124.00		
301	1055	05:23 <sup>38</sup>	72			8.8	8.5	8.5	2.1°P							99 25P 51.4 130 124.15		
351	1005	05:31 <sup>40</sup>	73			8.8	8.5	8.2	1.8°P	704428	0	336	1020	415	941			
401	955	05:39 <sup>46</sup>	72			8.5	8.4	8.2	1.8°P							AV OFFSET = 123.44		
451	905	05:47 <sup>52</sup>	72			8.8	8.5	8.2	1.7°P	704429	1	416	940	495	861	#100 BOL NOISE		
501	855	05:55 <sup>59</sup>	72			8.5	8.5	8.2	1.4°P							#1335 EOL NOISE		
551	805	06:04 <sup>08</sup>	72			8.5	8.4	8.2	1.6°P	704430	2	496	860	575	781			
601	755	06:12 <sup>17</sup>	72			8.8	8.5	8.2	1.3°P									
651	705	06:20	72			8.5	8.4	8.2	1.0°P	704431	0	576	780	655	701			
701	655	06:28	72			8.8	8.5	8.2	0.6°P									
751	605	06:36 <sup>35</sup>	70			8.5	8.5	8.5	0.6°P	704432	1	656	700	735	621			
801	555	06:44 <sup>37</sup>	71			8.5	8.5	8.2	0.2°P	704433	2	736	620	815	541			
851	505	06:52 <sup>36</sup>	71			8.8	8.5	8.2	0.1°S	704434	0	816	540	895	461			
901	455	07:00 <sup>44</sup>	70			8.8	8.4	8.2	0.3°S	704435	1	896	460	975	381			
951	405	07:08 <sup>19</sup>	69			8.5	8.5	8.2	0.5°S	704436	2	976	380	1055	301			
1001	355	07:16 <sup>01</sup>	69			8.8	8.5	8.2	0.6°S	704437	0	1056	300	1135	221	LAST FILE # 1334		
1051	305	07:23 <sup>34</sup>	68			8.5	8.4	8.2	1.03°S	704438	1	1136	220	1215	141	LAST SP # 22		
1101	255	07:31 <sup>03</sup>	68			8.8	8.5	8.2	1.1°S	704439	2	1216	140	1295	61	LAST TAPE # 704440		
1151	205	07:38 <sup>26</sup>	68			8.8	8.5	8.5	1.2°S	704440	0	1296	60	1334	22			
1201	155	07:45 <sup>47</sup>	68	1186	B.R. (SP#170)	8.8	8.4	8.4	1.4°S									
1251	105	07:53 <sup>13</sup>	67			9.1	8.5	8.2	1.6°S									
1301	55	08:01 <sup>04</sup>	68			8.5	8.4	8.2	2.1°S									
1334	22	08:06 <sup>06</sup>	68			8.5	8.4	8.2	2.1°S									

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-019

DATE : 03 JULY 88

F.S.P. : 101

L.S.P. : 897

TOTAL SPS : 797

F.R.N. : 101

L.R.N. : 897

TOTAL KMS : 19.925

FIRST REEL : 704413

LAST REEL : 704424

NO OF REELS: 12

RECORD LENGTH : 6 Seconds  
 RECORD DELAY : 0 Seconds  
 SAMPLE RATE : 2 Milliseconds  
 FILTERS HIGH : 128/72  
 LOW : 8/18  
 RECORDING FORMAT : SEG D  
 PACKING DENSITY : 6250 BPI

DIRECTION

N

045.4 DEG.

PREAMP GAIN : Low  
 RECORD GAIN MODE : IFP  
 REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
 AIRGUN SPREAD (M): 8.3/8.3/8.3  
 AIRGUN ARRAY VOL.: 2180 cubic inches  
 AIRGUN PRESSURE : 1800 PSI  
 AIRGUN DEPTH : 6 Metres  
 TIMING DELAY : 51.2 Milliseconds  
 TRACE MIX : 1:1 Traces 001-300  
 TOTAL CHANNELS : 312  
 AUX. CHANNELS : 301-312  
 DATA CHANNELS : 1-300

STREAMER TYPE : MULTIPLEX  
 SKIN : P.U.  
 STREAMER LENGTH : 3750 Metres  
 GROUP INTERVAL : 12.5 Metres  
 SHOTPOINT INTERVAL : 25 Metres  
 OFFSET : 124 Metres  
 STREAMER DEPTH : 8.1 Metres

LEVELLER/COMPASS LOCATIONS:

TRACES:- 1, 31, 49, 73, 97,  
 121, 145, 181, 205,  
 229, 253, 277, 289.

PRIMARY NAV SYS : SYLEDIS  
 FREQUENCY : 427 MHz  
 SECONDARY NAV SYS: TRANSIT SATELLITE

COMMENTS: TRACES TO EDIT : -NIL  
 COMPASSES EXCLUDED: -NIL  
 LINE STATUS : -COMPLETE

# GEOPHYSICAL SERVICE INC.

PI-48022

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: G588A		RECORD LENGTH: 6 sec		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR		A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD							
DATE: 3RD JULY				VESSEL: M/V MAG CREEK		LINE: G588A-19 ID = 019		SAMPLE RATE: 2 mSec		GUN DELAY: 51.2mS											
PAGE 1 OF				PARTY: 2993		DIRECTION: 45.5		TRACES: 300+12		OPERATOR: MK											
														FIELD TAPE ENTRY							
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER						FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS		
				REC.N	TYPE	SPK	H1	AV	LO												
101	101	01:34	72					8.5	8.4	8.2	0.55	704413	0	101	101	175	175			RN GUN TD ONSET OFFSET 96 95 51.1 128 121.6	
151	151	01:41	72					8.5	8.4	8.2	0.55									97 255 51.3 130 124.3	
201	201	01:49	72					8.5	8.4	8.2	0.75	704414	1	176	176	255	255			98 9P 51.3 130 124.3 99 25P 51.2 130 124.5	
251	251	01:56	72					8.8	8.5	8.2	1.05	704415	2	256	256	335	335			100 BOL NOISE AV OFFSET 123.7	
301	301	02:03	72					8.8	8.5	8.2	1.35	704416	0	336	336	415	415			898 EOL NOISE.	
351	351	02:10	72					8.5	8.5	8.2	1.65										
401	401	02:17	71					8.5	8.5	8.2	1.75	704417	1	416	416	495	495				
451	451	02:25	72					8.5	8.5	8.2	2.15									LAST FILE # 897 " SP # 897 " TAPE # 704424	
501	501	02:32	72					8.8	8.5	8.2	2.15	704418	2	496	496	575	575				
551	551	02:40	72					8.8	8.5	8.2	1.95	704419	0	576	576	655	655				
601	601	02:47	71					8.5	8.5	8.2	1.95										
651	651	02:54	72					8.5	8.5	8.2	2.25	704420	1	656	656	735	735				
701	701	03:01	73					8.8	8.5	8.2	2.35										
751	751	03:08	72	765	BR	765		8.8	8.6	8.2	2.55	704421	2	736	736	764	764				
801	801	03:16	71					8.5	8.5	8.2	2.75	704422	0	765	765	765	765				
851	851	03:23	70					8.5	8.4	8.2	3.05	704423	1	766	766	845	845				
897	897	03:30	71					8.5	8.4	8.2	3.05	704424	2	846	846	897	897				

M/V MAGNIFICENT CREEK

CLIENT : SHELL

AREA : GIPPSLAND BASIN

PROSPECT : VIC/P21

PARTY NO : 2993

LINE NO : GS88A-01A

F.S.P. : 101

L.S.P. : 589

DATE : 05 JULY 88

F.R.N. : 101

L.R.N. : 585

TOTAL SPS : 489

FIRST REEL : 704521

LAST REEL : 704527

TOTAL KMS : 12.225

NO OF REELS: 7

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

DIRECTION

N

045.2 DEG.

S

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : Metres  
STREAMER DEPTH : 8.5 Metres

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 103,  
121, 145, 181, 205,  
229, 253, 277, 289.

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -COMPLETE  
MISSED SHOTPOINTS : -122, 123, 124 + 125.

# GEOPHYSICAL SERVICE INC.

[illegible]

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-021

DATE : 02 JULY 88

F.S.P. : 1299

L.S.P. : 020

TOTAL SPS : 1280

F.R.N. : 101

L.R.N. : 1376

TOTAL KMS : 32.0

FIRST REEL : 704396

LAST REEL : 704412

NO OF REELS: 17

RECORD LENGTH : 6 Seconds  
 RECORD DELAY : 0 Seconds  
 SAMPLE RATE : 2 Milliseconds  
 FILTERS HIGH : 128/72  
 LOW : 8/18  
 RECORDING FORMAT : SEG D  
 PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
 RECORD GAIN MODE : IFP  
 REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
 AIRGUN SPREAD (M): 8.3/8.3/8.3  
 AIRGUN ARRAY VOL.: 2180 cubic inches  
 AIRGUN PRESSURE : 1800 PSI  
 AIRGUN DEPTH : 6 Metres  
 TIMING DELAY : 51.2 Milliseconds  
 TRACE MIX : 1:1 Traces 001-300  
 TOTAL CHANNELS : 312  
 AUX. CHANNELS : 301-312  
 DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
 FREQUENCY : 427 MHz  
 SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION  
 N  
 -----  
 225.0 DEG.

STREAMER TYPE : MULTIPLEX  
 SKIN : P.U.  
 STREAMER LENGTH : 3750 Metres  
 GROUP INTERVAL : 12.5 Metres  
 SHOTPOINT INTERVAL : 25 Metres  
 OFFSET : 123 Metres  
 STREAMER DEPTH : 8.1 Metres

LEVELLER/COMPASS LOCATIONS:  
 TRACES:- 1, 31, 49, 73, 97,  
 121, 145, 181, 205,  
 229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
 COMPASSES EXCLUDED: -NIL  
 LINE STATUS : -COMPLETE  
 SPS. 782, 421, 370 + 317 MISSED

# GEOPHYSICAL SERVICE INC.

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: VIC/P21		RECORD LENGTH: 6 seconds		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR  A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD	
DATE: 2 JULY 88				VESSEL: MAG CREEK		LINE: 6588A-21 ID = 21		SAMPLE RATE: 2ms		GUN DELAY: 51.2ms			
PAGE 1 OF 2				PARTY: 2993		DIRECTION: 225°		TRACES: 300 + 12		OPERATOR: TJJG			

FIELD TAPE ENTRY													COMMENTS			
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.		F.S.P.	L.R.N.	L.S.P.
				REC.N	TYPE	HIGH	Ave	LOW								
101	1299	20:24	72			8.8	8.3	8.2	1.2°S	704396	0	101	1299	175	1225	RN Gun to ONSET OFFSET
151	1249	20:32	70			8.5	8.4	8.2	1.3°S	704397	1	176	1224	255	1145	96 9S 51.4ms 128 121.2
201	1199	20:40	72			8.8	8.5	8.2	1.5°S	704399	2	256	1114	335	1065	97 25S 51.5ms 130 124.0
251	1149	20:47	72			8.5	8.4	8.2	1.7°S	704399	0	336	1064	415	985	98 9P 51.4ms 130 124.2
301	1099	20:55	72			8.5	8.5	8.2	2.3°S	704400	1	416	984	495	905	99 25P 51.5ms 130 124.0
351	1049	21:03	71			8.5	8.5	8.2	2.4°S	704401	2	496	904	575	825	100 BOL NOISE
401	999	21:11	72			8.5	8.4	8.2	3.3°S	704402	0	576	824	655	744	SPW RN
451	949	21:19	72			8.8	8.5	8.2	3.2°S	704403	1	656	743	735	664	784 616 GOOD
501	899	21:26	72			8.8	8.5	8.2	3.6°S	704404	2	736	663	815	584	783 617
551	849	21:34	71			8.5	8.4	8.2	3.7°S	704405	0	816	583	895	504	782 —
601	799	21:41	71	621	NR	9.1	8.7	8.2	4.0°S	704406	1	896	503	975	424	781 618
651	748	21:49	71			8.8	8.5	8.2	4.1°S	704407	2	976	423	1055	342	780 619
701	698	21:57	72			8.5	8.3	7.9	4.2°S	704408	0	1056	341	1135	261	779 620
751	648	22:04	72			8.8	8.5	8.2	4.6°S	704						777 622
801	598	22:12	72			8.8	8.4	8.2	4.6°S							776 623
851	548	22:19	72			8.5	8.5	8.2	4.8°S							775 624 GOOD
901	498	22:26	72			8.5	8.3	8.2	4.7°S							*N.B. RN 621 NR → SP# 778
951	448	22:34	71			8.5	8.5	8.2	4.9°S							SHOTPOINT 421 & 370 MISSED DUE TO NAVIGATION
1001	397	22:42	70			8.5	8.5	8.2	4.7°S							SHOTPOINT 317 MISSED DUE TO NAVIGATION
1051	346	22:49	71			8.8	8.4	8.2	4.2°S							1377 EOL NOISE
1101	295	22:57	70			8.8	8.6	8.2	4.4°S							

15-ADP-22

LAST FILE # 1376  
LAST SP # 20



M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-023

DATE : 02 JULY 88

F.S.P. : 101

L.S.P. : 987

TOTAL SPS : 887

F.R.N. : 101

L.R.N. : 982

TOTAL KMS : 22.175

FIRST REEL : 704383

LAST REEL : 704395

NO OF REELS: 13

RECORD LENGTH : 6 Seconds  
 RECORD DELAY : 0 Seconds  
 SAMPLE RATE : 2 Milliseconds  
 FILTERS HIGH : 128/72  
 LOW : 8/18  
 RECORDING FORMAT : SEG D  
 PACKING DENSITY : 6250 BPI

DIRECTION

N

045.1

PREAMP GAIN : Low  
 RECORD GAIN MODE : IFP  
 REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
 AIRGUN SPREAD (M): 8.3/8.3/8.3  
 AIRGUN ARRAY VOL.: 2180 cubic inches  
 AIRGUN PRESSURE : 1800 PSI  
 AIRGUN DEPTH : 6 Metres  
 TIMING DELAY : 51.2 Milliseconds  
 TRACE MIX : 1:1 Traces 001-300  
 TOTAL CHANNELS : 312  
 AUX. CHANNELS : 301-312  
 DATA CHANNELS : 1-300

STREAMER TYPE : MULTIPLEX  
 SKIN : P.U.  
 STREAMER LENGTH : 3750 Metres  
 GROUP INTERVAL : 12.5 Metres  
 SHOTPOINT INTERVAL : 25 Metres  
 OFFSET : Metres  
 STREAMER DEPTH : 8.1 Metres

LEVELLER/COMPASS LOCATIONS:  
 TRACES:- 1, 31, 49, 73, 97,  
 121, 145, 181, 205,  
 229, 253, 277, 289.

PRIMARY NAV SYS : SYLEDIS  
 FREQUENCY : 427 MHz  
 SECONDARY NAV SYS: TRANSIT SATELLITE

COMMENTS: TRACES TO EDIT : -193 INTERMITTENTLY SPIKING  
 COMPASSES EXCLUDED:-NIL  
 LINE STATUS : -COMPLETE  
 S.P. 588 - BAD RECORD  
 S.P. 589 THRU 593 MISSED DUE TO TAPE TRANSPORT HANG-UP

**GEOPHYSICAL SERVICE INC.**

MARINE FIELD DATA				CLIENT: <b>SH 545409</b>		PROSPECT: <b>VIC / P21</b>				RECORD LENGTH: <b>6 sec</b>				FORMAT: SEG D				S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR				A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD					
DATE: <b>2 JULY 1988</b>				WELL: <b>MALE GREEK</b>		LINE: <b>4588 A23ID = 23</b>				SAMPLE RATE: <b>2 ms</b>				GUN DELAY: 51.2ms													
PAGE <b>1</b> OF <b>1</b>				PARTY: <b>2993</b>		DIRECTION: <b>45.1°</b>				TRACES: <b>300 + 12</b>				OPERATOR: <b>R.P.H./T.J.G</b>													
FIELD TAPE ENTRY																											
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER				FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS										
				REC.N	TYPE	HIGH	AVE	LOW																			
101	101	1647	70			8.5	8.4	8.2		3.9°S																	
151	151	1655	70			8.5	8.5	8.2		4.8°S	704383	0	101	101			RN	Gun	to	ONSET	OFFSET						
201	201	1702	70			9.4	8.5	8.2		4.8°S	704384	1	176	176	175	175											
251	251	1710	69			8.8	8.5	8.2		5.0°S	704385	2	256	256	255	255	96	95	51.2ms	130ms	124.4m						
301	301	1718	70			8.8	8.5	8.2		5.3°S	704386	0	336	336	335	335	97	255	51.2ms	130ms	124.4m						
351	351	1728	70			8.8	8.6	8.2		5.5°S	704387	1	416	416	415	415	98	90	51.2ms	130ms	124.4m						
401	401	1734	71			8.8	8.5	8.2		5.5°S	704388	2	496	496	495	495	99	251p	51.4ms	130ms	124.15m						
451	451	1742	70			8.8	8.6	8.2		5.4°S	704389	0	576	576	575	575	100 BOL NOISE										
501	501	1750	69			8.5	8.5	8.2		5.5°S	704390	1	588	588	588	588	AVERAGE OFFSET = 124.33m										
551	551	1758	70	588	BR	8.8	8.5	8.2		5.2°S	704391	2	589	594	588	588	SP's 589, 590, 591, 592, 593 MISSED DUE TO TAPE DRIVE MALFUNCTION										
601	606	1806	70			8.5	8.4	8.2		4.9°S	704392	0	669	674	668	668	SP # 747 TRACE # 193 SPINNING										
651	656	1813	70			8.5	8.4	8.2		5.0°S	704393	1	749	754	748	753	RN # 742										
706	706	1822	70			8.5	8.4	8.2		4.5°S	704394	2	829	834	828	833	LAST FILE # 983										
756	761	1830	69			8.5	8.4	8.2		4.3°S	704395	0	909	914	908	913	LAST SP # 987										
806	801	1838	70			8.8	8.6	8.2		4.1°S							S.P. R.N. (588)										
856	861	1845	71			8.8	8.6	8.2		4.1°S							587 587										
906	901	1854	70			8.8	8.5	8.2		4.2°S							588 B.R. (588)										
956	961	1903	70			8.5	8.4	8.2		3.6°S							589 N.R.										
982	987	1907	66			8.5	8.4	8.2		3.3°S							590 N.R.										
																	591 N.R.										
																	592 N.R.										
																	593 N.R.										
																	594 589										
LINE COMPLETE / PROCESS																											

# 200-A8022 GEOPHYSICAL SERVICE INC.

MARINE FIELD DATA				CLIENT: <b>SHELL</b>		PROSPECT: <b>GS 88A</b>		RECORD LENGTH: <b>6 Sec</b>		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR  A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD	
DATE: <b>2/7/88</b>				VESSEL: <b>M/V. MCG CREEK</b>		LINE: <b>GS88A 25 ID = 025</b>		SAMPLE RATE: <b>2mSec</b>		GUN DELAY: 51.2mS			
PAGE <b>1</b> OF <b>1</b>				PARTY: <b>2993</b>		DIRECTION: <b>224.8</b>		TRACES: <b>300+12</b>		OPERATOR: <b>ML</b>			

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS	
				REC.N	TYPE	H1	AV	L0		TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.		L.S.P.
101	866	1:35	68			88	8.5	8.2	1.1P	704368	0	101	866	153	814	RN GUN TD ONSET OFFSET 96 95 51.4 97 255 52.1 98 9P 51.4 99 25P 51.4
151	816	1:48	69			85	8.5	8.2	1.8P							
153	814	1:49	69			85	8.5	8.2	1.8P							AV OFFSET.
																100 BOL NOISE
																EOL NOISE

DONT PROCESS @

**A22-488860 PHYSICAL SERVICE INC.**

MARINE FIELD DATA		CLIENT: SHELL		PROSPECT: G588A		RECORD LENGTH: 6 Sec		FORMAT: SEG D								
DATE: 2 <sup>ND</sup> JULY		VESSEL: M/V SHIP		LINE: 588 2SA ID = 1025		SAMPLE RATE: 2mSec		GUN DELAY: 51.2ms								
PAGE 1 OF		PARTY: 2993		DIRECTION: 224.8		TRACES: 300+12		OPERATOR: MR.								
							FIELD TAPE ENTRY									
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS
				REC.N	TYPE	H1	AU	L0								
101	866	04:54	68			8.5	8.5	8.2	1.8P	704368	0	101	866			RN Gunl TD ONSET OFFSET 96 95 51.2 97 255 51.4 98 9P 51.6 99 2SP 51.3
124	843	04:58	68			8.5	8.4	8.2								
																AN OFFSET
																100 BOL NOISE
																EOL NOISE
Do Not PROCESS.																

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-025B

DATE : 02 JULY 88

F.S.P. : 866

L.S.P. : 529

TOTAL SPS : 338

F.R.N. : 101

L.G.S.P. : 536

TOTAL KMS : 8.450

L.R.N. : 437

L.G.R.N. : 430

NO OF REELS: 5

FIRST REEL : 704369

LAST REEL : 704373

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

DIRECTION  
N

224.8 DEG.

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : 123 Metres  
STREAMER DEPTH : 8.1 Metres

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M) : 8.3/8.3/8.3  
AIRGUN ARRAY VOL. : 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 97,  
121, 145, 181, 205,  
229, 253, 277, 289.

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

COMMENTS:

TRACES TO EDIT:-NIL  
COMPASSES EXCLUDED:-  
LINE STATUS:-TO BE COMPLETED

**[REDACTED]** : REASON UNKNOWN  
LINE TERMINATED DUE TO CMS SOFTWARE PROBLEM. PROCESS TO SP # 536 ONLY.

# GEOPHYSICAL SERVICE INC. 220-A8022

MARINE FIELD DATA				CLIENT: <b>SHELL</b>		PROSPECT: <b>GS 88A</b>		RECORD LENGTH: <b>6sec</b>		FORMAT: SEG D		P. SHOT POINT R. RECORD NUMBER T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD	
DATE: <b>2ND JULY : 88</b>				VESSEL: <b>M/V MAG CREEK</b>		LINE: <b>GS88A-25BID = 2025</b>		SAMPLE RATE: <b>2mSec</b>		GUN DELAY: 51.2ms			
PAGE <b>1</b> OF				PARTY: <b>2993</b>		DIRECTION: <b>224.8°</b>		TRACES: <b>300+12</b>		OPERATOR: <b>mr.</b>			

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS					
				REC.N	TYPE	H1	AV	L0		TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.						L.S.P.
101	866	07:55	69			8.8	8.5	8.2	2.95	704369	0	101	866	175	792	RN 96	GUN 95	TD 51.4	ONSET 128	OFFSET 121.2
151	816	08:03	68			8.8	8.6	8.2	2.75	704370	1	176	791	255	711	97	255	52.0	130	123.3
201	766	08:10	69			8.8	8.5	8.2	4.15							98	9P	51.5	130	124.0
251	715	08:18	69			8.5	8.5	8.2	4.45	704371	2	256	710	335	831	99	ASP	51.5	130	AV OFFSET 122.8
301	665	08:26	70			8.8	8.5	8.2	4.65	704372	0	336	630	415	551	100	BOL NOISE			
351	615	08:34	69			8.8	8.5	8.2	4.95							431	EOL NOISE			
401	565	08:42	69			8.5	8.5	8.2	5.15	704373	1	416	550	430	536	PROCESS TO SHOTPOINT 536  ONLY. SHOTPOINTS 535 - 529  BAD NAVIGATION DATA				
430	536	08:47	69			8.5	8.5	8.2	5.15											

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-025C

DATE : 02 JULY 88

F.S.P. : 686

L.S.P. : 030

TOTAL SPS : 657

F.R.N. : 101

L.R.N. : 749

TOTAL KMS : 16.425

FIRST REEL : 704374

LAST REEL : 704382

NO OF REELS : 9

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

DIRECTION

N

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

224.8 DEG.

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M) : 8.3/8.3/8.3  
AIRGUN ARRAY VOL. : 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : Metres  
STREAMER DEPTH : 8.1 Metres

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS : TRANSIT SATELLITE

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 97,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -N/A  
LINE STATUS : -COMPLETE

FOR OVERLAP DETAILS SEE THE ATTACHED DIAGRAM.  
FOR MISSED S.P./R.N. RELATONSHIP REFER TO OBSERVERS LOG

022-AB823

91-20-2-8.2 1484



M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-03A

DATE : 04 JULY 88

F.S.P. : 101

L.S.P. : 588

TOTAL SPS : 488

F.R.N. : 101

L.R.N. : 586

TOTAL KMS : 12.200

FIRST REEL : 704499

LAST REEL : 704505

NO OF REELS: 7

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

045.0 DEG

S

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : Metres  
STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 103,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -COMPLETE  
MISSED SHOTPOINTS : -197 & 199 (NAV JUMPS)

# GEOPHYSICAL SERVICE INC.

A50-A882

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: VIC P/21		RECORD LENGTH: 6 sec		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR		A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD	
DATE: 6 JULY 1988				VESSEL: MAG CREEK		LINE: G588A-3AID = 1003		SAMPLE RATE: 2 msec		GUN DELAY: 51.2ms					
PAGE 1 OF 1				PARTY: 2993		DIRECTION: 45°		TRACES: 300+12		OPERATOR:					

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS
				REC.N	TYPE	HI	AV	LO		TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	
101	101	22:19	73			8.8	8.6	8.2	5.8P	704499	0	101	101		
151	151	22:27	73	138	B.R.	8.8	8.4	7.9	6.4P	204500	1	176	176	175	175
201	203	22:35	74			8.8	8.5	8.2	6.6P	704501	2	256	258	255	257
251	253	22:43	75	234	B.R.	8.8	8.7	8.8	6.6P	204502	0	336	338	335	337
301	303	22:51	76	242	B.R.	8.8	8.5	8.2	6.2P	704503	1	416	418	415	417
351	353	22:58	74	245	B.R.	9.1	8.5	8.2	6.5P	204504	2	496	498	495	497
401	403	23:06	75	246	B.R.	8.8	8.5	7.9	6.4P	704505	0	576	578	575	577
451	453	23:14	74	247	B.R.	9.1	8.4	8.2	5.8P					586	588
501	503	23:22	75	288	B.R.	9.1	8.5	7.9	5.3P						
551	553	23:30	76	289	B.R.	8.8	8.5	8.2	4.7P						
586	588	13:35	74	290	B.R.	8.8	8.5	8.2	4.9P						
				291	B.R.										
				292	B.R.										
				293	B.R.										
				294	B.R.										
				325	B.R.										
				329	B.R.										
				410	B.R.										
				542	B.R.										
				564	B.R.										

R#	GUN	T.D.	ONSET	OFFSET
96	9S	51.1	130ms	124.6
97	25S	51.5	130ms	124.0
98	9P	51.2	130ms	124.4m
99	25P	51.3	130ms	124.3m

AV. OFFSET = 124.3m

100 BOL NOISE

587 EOL NOISE

MISSED SHOTPOINT 197 & 199

RN	SP
196	196
-	197
197	198
-	199
198	200
199	201

LAST ~~FIRE~~ RECORD NO. 586

LAST SHOT POINT 588

LINE COMPLETE / PROCESS

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-05

DATE : 05 JULY 88

F.S.P. : 770

L.S.P. : 121

TOTAL SPS : 650

F.R.N. : 101

L.R.N. : 748

TOTAL KMS : 16.250

FIRST REEL : 704506

LAST REEL : 704514

NO OF REELS: 9

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

225.0 DEG.

S

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : 123 Metres  
STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 103,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS:

TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -TO BE COMPLETED. CMS 980B COMPUTER IDLE.  
MISSED SHOTPOINTS : -757 & 413.

# GEOPHYSICAL SERVICE INC.

MARINE FIELD DATA

DATE: 5 TH JULY - 88

CLIENT: SHELL

PROSPECT: VIC/P21

RECORD LENGTH: 6 Sec

FORMAT: SEG D

PAGE 1 OF 1

VESSEL: M/V MAG CREEK

LINE: GS88A-5 ID = 5

SAMPLE RATE: 2 m Sec

GUN DELAY: 51.2mS

PARTY: 2993

DIRECTION: 225

TRACES: 300+12

OPERATOR: M

S.P. SHOT POINT  
R.N. RECORD NUMBER  
N.F. NO RECORD  
T.D. TIME DELAY  
T. TRANSPORT  
T.E. TRANSMISSION ERROR

A.F. AUTO FIRE  
N.F. NO FIRE  
B.R. BAD RECORD

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER				FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS	
				REC.N	TYPE	H1	AV	LO	TAPE NUMBERS		T	F.R.N.	F.S.P.	L.R.N.	L.S.P.		
101	770*	01:03	75							6.75	704506	0	101	770	175	695	RN Gun TD ONSET OFFSET
151	719	01:10	74	1													96 95 51.3 128 124.3
201	669	01:18	74							7.25	704507	1	176	694	255	615	97 255 51.3 130 124.3
251	619	01:25	74							8.45							98 9P 51.4 130 124.2
301	569	01:32	74							8.95	704508	2	256	614	335	535	99 25P 51.1 128 121.6
351	519	01:40	76							8.55	704509	0	336	534	415	455	100 BOL NOISE AV OFFSET. 122.8
401	469	01:47	75							7.45	704510	1	416	454	495	374	749 EOL NOISE
451	419*	01:54	74							6.25							
501	368	02:02	73							4.35	704511	2	496	373	575	294	MISSED SP* 757 H13
551	318	02:09	72							3.55	704512	0	576	293	655	214	SP MISSED RN NSP* 757 114 758 413 459 412
601	268	02:16	73							3.55							
651	218	02:23	73							3.95	704513	1	656	213	735	134	
701	168	02:30	72							5.35	704514	2	736	133	748	121	LINE TO BE COMPLETED
748	121	02:37	72							5.85							
										5.75							

MISSED SPX 757 H13  
SP MISSED RN NSR  
757 114 758  
413 459 412

LINE TO BE COMPLETED

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-05A

DATE : 05 JULY 88

F.S.P. : 280

L.S.P. : 024

TOTAL SPS : 257

F.R.N. : 101

L.R.N. : 357

TOTAL KMS : 6.425

FIRST REEL : 704515

LAST REEL : 704518

NO OF REELS: 4

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

225.2 DEG.

S

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : 124 Metres  
STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 103,  
121, 145, 181, 205,  
229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -COMPLETE  
MISSED SHOTPOINTS :-

FOR OVERLAP DETAILS SEE THE ATTACHED DIAGRAM.

# GEOPHYSICAL SERVICE INC.

A20-A0020

## MARINE FIELD DATA

DATE: 5-JULY-88

PAGE 1 OF 1

CLIENT: SHELL

VESSEL: M/V MAG CREEK

PARTY: 2993

PROSPECT: GS 88A

LINE: GS88A-SA ID = 105

DIRECTION: 225.2

RECORD LENGTH: 6 Sec

SAMPLE RATE: 2 mSec

TRACES: 300+12

FORMAT: SEG D

GUN DELAY: 51.2ms

OPERATOR: M.L.

S.P. SHOT POINT  
R.N. RECORD NUMBER  
N.R. NO RECORD  
T.D. TIME DELAY  
T. TRANSPORT  
T.E. TRANSMISSION ERROR

A.F. AUTO FIRE  
N.F. NO FIRE  
B.R. BAD RECORD

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER				FEATH. ANGLE	FIELD TAPE ENTRY					COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				REC.N	TYPE						TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
101	280	06:49	72					H1		AV		L0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-07

DATE : 04 JULY 88

F.S.P. : 765

L.S.P. : 023

TOTAL SPS : 743

F.R.N. : 101

L.R.N. : 843

TOTAL KMS : 18.575

FIRST REEL : 704487

LAST REEL : 704496

NO OF REELS: 10

RECORD LENGTH : 6 Seconds  
 RECORD DELAY : 0 Seconds  
 SAMPLE RATE : 2 Milliseconds  
 FILTERS HIGH : 128/72  
 LOW : 8/18  
 RECORDING FORMAT : SEG D  
 PACKING DENSITY : 6250 BPI

PREAMP GAIN : Low  
 RECORD GAIN MODE : IFF  
 REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
 AIRGUN SPREAD (M): 8.3/8.3/8.3  
 AIRGUN ARRAY VOL.: 2180 cubic inches  
 AIRGUN PRESSURE : 1800 PSI  
 AIRGUN DEPTH : 6 Metres  
 TIMING DELAY : 51.2 Milliseconds  
 TRACE MIX : 1:1 Traces 001-300  
 TOTAL CHANNELS : 312  
 AUX. CHANNELS : 301-312  
 DATA CHANNELS : 1-300

PRIMARY NAV SYS : SYLEDIS  
 FREQUENCY : 427 MHz  
 SECONDARY NAV SYS: TRANSIT SATELLITE

DIRECTION

N

225.4 DEG

STREAMER TYPE : MULTIPLEX  
 SKIN : P.U.  
 STREAMER LENGTH : 3750 Metres  
 GROUP INTERVAL : 12.5 Metres  
 SHOTPOINT INTERVAL : 25 Metres  
 OFFSET : Metres  
 STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
 TRACES:- 1, 31, 49, 73, 103,  
 121, 145, 181, 205,  
 229, 253, 277, 289.

COMMENTS: TRACES TO EDIT : -NIL  
 COMPASSES EXCLUDED: -NIL  
 LINE STATUS : -COMPLETE

# GEOPHYSICAL SERVICE INC.

MARINE FIELD DATA				CLIENT: SHELL		PROSPECT: BREM VIC/P21		RECORD LENGTH: 6 records		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR		A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD									
DATE: 4 JULY 88				VESSEL: M/V MAG CREEK		LINE: GS88A-7 ID = 7		SAMPLE RATE: 2ms		GUN DELAY: 51.2ms													
PAGE 1 OF 1				PARTY: 2993		DIRECTION: 225.4°		TRACES: 300 + 12		OPERATOR: TJG													
														FIELD TAPE ENTRY									
RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER						FEATH. ANGLE	TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.	L.S.P.	COMMENTS				
				REC.N	TYPE	HIGH	AVE	LOW															
101	765	1612	74				8.8	8.5	8.2			10.0°p	704487	0	101	765				RN Gun to ONSET OFFSET			
151	715	1620	74				8.8	8.5	8.2			10.2°p	704488	1	176	690				96 9s 51.3ms 132ms 127.3			
201	665	1628	73				8.8	8.5	8.2			10.3°p	704489	2	256	610				97 25s 51.5ms 132ms 127.0			
251	615	1636	74				8.8	8.6	8.2			9.9°p	704490	0	336	530				98 9p 51.4ms 132ms 127.2			
301	565	1643	74				8.8	8.5	8.2			9.2°p	704491	1	416	450				99 25p 51.4ms 132ms 127.2			
351	515	1652	74				8.5	8.5	8.2			8.4°p	704492	2	496	370				AV OFFSET = 127.2m			
401	465	1700	74				8.8	8.5	8.2			7.9°p	704493	0	576	290				100 BOL NOISE			
451	415	1708	74				8.5	8.5	8.2			7.5°p	704494	1	656	210				844 EOL NOISE			
501	365	1717	73				8.8	8.5	8.2			7.5°p	704495	2	736	130							
551	315	1725	73				8.5	8.4	7.9			7.7°p	704496	0	816	50							
601	265	1733	72				8.8	8.4	7.6			8.2°p											
651	215	1741	72				8.8	8.5	7.9			8.5°p											
701	165	1750	72				8.5	8.5	7.9			8.0°p											
751	115	1758	72				8.8	8.5	7.9			6.9°p											
801	65	1807	72				8.8	8.5	8.2			6.2°p											
843	23	1814	71				8.8	8.5	7.9			5.9°p											
														TO 88A-01 COMPLETE 99 JUL 88									
																			LIST FILE # 843 LIST SP # 23				
																			LWE COMPLETE/PROCESS				



M/V MAGNIFICENT CREEK

CLIENT : SHELL

PROSPECT : VIC/P21

AREA : GIPPSLAND BASIN

PARTY NO : 2993

LINE NO : GS88A-09

DATE : 04 JULY 88

F.S.P. : 101

L.S.P. : 875

TOTAL SPS : 775

F.R.N. : 101

L.R.N. : 874

TOTAL KMS : 19.375

FIRST REEL : 704477

LAST REEL : 704486

NO OF REELS: 10

RECORD LENGTH : 6 Seconds  
RECORD DELAY : 0 Seconds  
SAMPLE RATE : 2 Milliseconds  
FILTERS HIGH : 128/72  
LOW : 8/18  
RECORDING FORMAT : SEG D  
PACKING DENSITY : 6250 BPI

DIRECTION

N

044.6 DEG.

PREAMP GAIN : Low  
RECORD GAIN MODE : IFP  
REPRODUCE MODE : Defloat with PGC

AIRGUN TYPE : VSX SLEEVE  
AIRGUN SPREAD (M): 8.3/8.3/8.3  
AIRGUN ARRAY VOL.: 2180 cubic inches  
AIRGUN PRESSURE : 1800 PSI  
AIRGUN DEPTH : 6 Metres  
TIMING DELAY : 51.2 Milliseconds  
TRACE MIX : 1:1 Traces 001-300  
TOTAL CHANNELS : 312  
AUX. CHANNELS : 301-312  
DATA CHANNELS : 1-300

STREAMER TYPE : MULTIPLEX  
SKIN : P.U.  
STREAMER LENGTH : 3750 Metres  
GROUP INTERVAL : 12.5 Metres  
SHOTPOINT INTERVAL : 25 Metres  
OFFSET : Metres  
STREAMER DEPTH : 8.5 Metres

LEVELLER/COMPASS LOCATIONS:  
TRACES:- 1, 31, 49, 73, 103,  
121, 145, 181, 205,  
229, 253, 277, 289.

PRIMARY NAV SYS : SYLEDIS  
FREQUENCY : 427 MHz  
SECONDARY NAV SYS: TRANSIT SATELLITE

COMMENTS: TRACES TO EDIT : -NIL  
COMPASSES EXCLUDED: -NIL  
LINE STATUS : -COMPLETE  
MISSED SHOTPOINTS : -143 , 144 & 662

# GEOPHYSICAL SERVICE INC.

MARINE FIELD DATA				CLIENT: <u>SHELL</u>		PROSPECT: <u>VIC/P 21</u>		RECORD LENGTH: <u>6 Sec</u>		FORMAT: SEG D		S.P. SHOT POINT R.N. RECORD NUMBER N.R. NO RECORD T.D. TIME DELAY T. TRANSPORT T.E. TRANSMISSION ERROR  A.F. AUTO FIRE N.F. NO FIRE B.R. BAD RECORD	
DATE: <u>4-JULY-88</u>				VESSEL: <u>m/v MAG CREEK</u>		LINE: <u>G588A-9ID=009</u>		SAMPLE RATE: <u>2 mSec</u>		GUN DELAY: 51.2ms			
PAGE <u>1</u> OF <u>1</u>				PARTY: <u>2993</u>		DIRECTION: <u>44.6</u>		TRACES: <u>300+12</u>		OPERATOR:			

RECORD NUMBER	SHOTPOINT NUMBER	LOCAL TIME GMT	WATER DEPTH METRES	EDIT		CABLE DEPTH & SECTION NUMBER			MATH. ANGLE	FIELD TAPE ENTRY					COMMENTS	
				REC.N	TYPE	H1	AV	L0		TAPE NUMBERS	T	F.R.N.	F.S.P.	L.R.N.		L.S.P.
102	101	12:40	72			8.8	8.4	7.9	2.5P	204477	0	102	101			RN GUN TP ONSET OFFSET
152	153	12:49	71			8.8	8.5	7.9	2.1P					175	176	96 98 51.4ms 130ms 124.4m
202	203	12:58	71			8.8	8.6	7.9	2.3P	204478	1	176	177	255	256	97 255 51.5ms 132ms 127.4m
252	253	13:07	71			8.8	8.5	7.9	3.0P	204479	2	256	257			98 99 51.5ms 132ms 127.4m
302	303	13:16	73			8.8	8.5	7.9	3.2P	204480	0	336	337	335	336	99 256 51.2ms 132ms 127.4m
352	353	13:25	74			8.8	8.5	7.9	3.0P	204481	1	416	417	415	416	AV OFFSET 126.6m
402	403	13:34	74			8.5	8.5	7.9	2.2P	204482	2	496	497	495	496	100 BOL NOISE
452	453	13:43	74			8.8	8.5	7.9	1.4P	204483	0	576	577	575	576	101 BOL NOISE
502	503	13:51	73			8.8	8.5	7.9	0.4P	204484	1	656	657	655	656	875 BOL
552	553	14:00	74			8.8	8.5	7.9	0.7S	204485	2	736	737			S.P. RV.
602	603	14:08	73			8.8	8.5	7.9	1.5S	204486	0	816	817	735	736	142 - 143
652	653	14:17	74	662	N.F.	8.8	8.5	8.2	1.4S					815	816	143 N.R. 2
702	703	14:26	74			8.8	8.5	7.9	0.5S					874	875	144 N.R. 3
752	753	14:34	74			8.8	8.5	7.9	0.0S					145		145 N.R. 3
802	803	14:43	74			8.8	8.5	7.9	0.1S							2 SHIPS IN AREA - SHOTPOINT 590
852	853	14:51	74			9.1	8.5	7.6	1.2S							
874	875	14:55	74			9.1	8.6	7.9	1.6S							

## JR. GEOPHYSICIST'S LOG

SHE ABN 05-08-04-25-03

ABN 5.8.4.25.03

Client SHELL  
Prospect G588  
Vessel MAG. CREEK  
Party 2993

Page 1

TIME

Date 29-06-88

0800 ARRIVE BARRY BEACH. CREW CHANGE / RE-SUPPLY

1230 BEGIN SEM TESTS

2400 SEM TESTS CONTINUING.

30-06-88

1630 SEM TESTS COMPLETE

1650 DEPART BARRY BEACH

01-07-88

0330 TAILBUOY DEPLOYED.

0515 CHANGED OUT SEM #5 - PARITY ERRORS

# IN: 2031

# OUT: 2041

0930 CHANGED OUT SEM # <sup>12</sup>~~10~~ - GROUND FAULT

# IN: 2041

# OUT: 2037

1430 FAULTY FIBRE FROM DMI BOARD TO DATA PORT REPLACED.

## JR. GEOPHYSICIST'S LOG

SHE ABN 05-08-04-25-03

ABN 5.8.4.25.03

Client SHELL  
Prospect G588  
Vessel MAG. CREEK  
Party 2993

Page 1

TIME

Date 29-06-88

0800 ARRIVE BARRY BEACH. CREW CHANGE/ RE-SUPPLY

1230 BEGIN SEM TESTS

2400 SEM TESTS CONTINUING.

30-06-88

1630 SEM TESTS COMPLETE

1650 DEPART BARRY BEACH

01-07-88

0330 TAILBUOY DEPLOYED.

0515 CHANGED OUT SEM #5 - PARITY ERRORS

# IN: 2031

# OUT: 2041

0930 CHANGED OUT SEM # <sup>12</sup>~~10~~ - GROUND FAULT

# IN: 2041

# OUT: 2037

1430 FAULTY FIBRE FROM DMI BOARD TO DATA PORT REPLACED.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect G588 VIC/P21  
Vessel MAG CREEK  
Party 2993

Page 2

TIME

Date 01-July-88

1630

SEM #24 CHANGED. S/N 2018 IN

S/N 2049 OUT - FAULTY "A" FIBRE

1710

LIVE 2 CLUSTER 25 OUT S/N 382 IN

S/N 331 OUT - MANY HOLES.

1940

LIVE 2 CLUSTER 25 OUT. S/N 320 IN

S/N 377 OUT - CRUSHED FIBRE &amp; NUMEROUS HOLES.

1955

SEM #25 CHANGED S/N 2019 IN

S/N 2001 OUT - CROSSFEED BETWEEN POWER &amp; COMPASS LINES.

CAUSES COMPASSES &amp; DT'S TO RANDOMLY DROP OUT.

2130

STREAMER DEPLOYED.

2145

DEPLOYING GUNS.

2305

GUNS DEPLOYED.

2345

OFFSET SHOTS TAKEN. AVG OFFSET - 127m.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 3

TIME

Date 02 JULY '88

0137 B.O.L. GS88A-25 I.D. 25 DIR: 224.8 FSP: 866 FRN: 101

OFFSET: m AVE. CABLE NOISE: UB AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: WATER DEPTH: 69 m SPEED: 5.1 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1800 psi.

GUN STATUS: ~~18~~ AGF COMPASSES EXCLUDED: —

TRACE STATUS:

B.O.L. LAT: 038 33 37.63 S B.O.L. LON: 147 58 26.01 E

NAV STATIONS IN USE: 3, 5+6 CEP:

WIND DIR. WSW FORCE 4 SEA STATE 3 SWELL DIR. SW HEIGHT 1.5 m

~~— DO NOT PROCESS —~~

LSP 814 LRN 153

0145 LINE GS88A-25 TERMINATED EARLY DUE TO TITAN  
SOFTWARE PROBLEMS (FL COMMUNICATION ERRORS  
BETWEEN TITAN/CMS). WILL CIRCLE AND ATTEMPT  
LINE GS88A-25A

0210 COMMENCED 'DUMMY' LINES

0310 COMPLETED 'DUMMY' LINES. DECISION MADE TO REVERT  
TO 'OLD' TITAN SOFTWARE.

## JR. GEOPHYSICIST'S LOG

TIME

Client SHELL  
Prospect G588 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 4Date 02 JULY '880454

B.O.L. GS88A-25A I.D. 1025 DIR: 224.8 FSP: 866 FRN: 101

OFFSET: m AVE. CABLE NOISE: uB AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: WATER DEPTH: 69 m SPEED: 4.8 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: psi.

GUN STATUS: AGF COMPASSES EXCLUDED: -

TRACE STATUS: ALL GOOD

B.O.L. LAT: B.O.L. LON:

NAV STATIONS IN USE: 3 5 + 6 CEP:

WIND DIR. WSW FORCE 4 SEA STATE 3 SWELL DIR. SW HEIGHT 1.5m

- DO NOT PROCESS -

0458

LINE GS88A-25A TERMINATED EARLY DUE TO  
EXCESSIVE PARITY COUNTS ON BOTH FIBRES.

LSP 843 LRN 124

WILL CIRCLE AND ATTEMPT LINE GS88A-25B

CAUSE OF PROBLEM: BROKEN 'A' FIBRE BETWEEN  
SEMS 18 + 19. DATA FROM SEM 18 NOW SWAPPED  
TO 'B' FIBRE.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 5

TIME

Date 02 JULY '88

0755

B.O.L. GS88A-25B I.D. 2025 DIR: 224.8 FSP: 866 FRN: 101

OFFSET: 123 m AVE. CABLE NOISE: 1-8 uB AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 2.9°ST WATER DEPTH: 69 m SPEED: 5 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1800 psi.

GUN STATUS: AGF COMPASSES EXCLUDED:       

TRACE STATUS: ALL GOOD

B.O.L. LAT: 038 33 37.41S B.O.L. LON: 147.58 26.12E

NAV. STATIONS IN USE: 3, 5 + 6 CEP: 3

WIND DIR. SW FORCE 4 SEA STATE 3 SWELL DIR. SW HEIGHT 1.3m

SP 828: GUNS 6(s) + 29(s) AIRLEAKS 2100IN<sup>3</sup>

SP 767 MISSED: REASON UNKNOWN

~~- PROCESS TO SP # 536 ONLY -~~

0848

LINE GS88A-25B TERMINATED EARLY DUE TO NAVIGATION  
CMS SOFTWARE PROBLEMS (ALL RANGES 'DROPPED OUT'  
IN THE 990 NAV. (CAUSING THE SYSTEM TO 'JUMP'  
TO A POSITION PAST EOL).

LSP 5:29 LRN 4:37 LGSP 5:36 LGRN 4:30

CHARGEABLE SPS 331 KMS 8.275

CIRCLING TO ATTEMPT LINE GS88A-25C



## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 VIC/P21  
 Vessel MAG. CREEK  
 Party 2993

Page 6

TIME

Date 02 JULY '881142

B.O.L. GS88A-25C I.D. 3025 DIR: 224.8 FSP: 686 FRN: 101

OFFSET: 127 m AVE. CABLE NOISE: 2  $\mu$ B AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 6.6° ST WATER DEPTH: 70 m SPEED: 5.8 Knts.

GUN ARRAY VOL: 2140 in3 AIR PRESS: 1850 psi.

GUN STATUS: #6(6) AIRLEAK COMPASSES EXCLUDED: - N/A

TRACE STATUS: ALL GOOD

B.O.L. LAT: 038 35 24.325 B.O.L. LON: 147 56 10.67E

NAV STATIONS IN USE: 4, 7, 8 CEP: 0

WIND DIR. W FORCE 4 SEA STATE 3 SWELL DIR. SW HEIGHT 1M

SP 673 MISSED: VESSEL SPEED, UNABLE TO REDUCE SPEED  
 WILL LOSE STEERING CONTROL

1206~~FIRST CH. SP. 535~~

FOLLOWING SPs MISSED DUE TO VESSEL SPEED

SP 679, 678, 667, 662, 656, 650, 644, 638

1328E.O.L. GS88A-25C LSP 030 LRN 749CH. SP RANGE 535 ~ 030 CH. SPs 506 Kms 12.650COMPLETE/PROCESS. E.O.L. NOISE 2 $\mu$ B. W.D. 70m F.A. 2.8R.

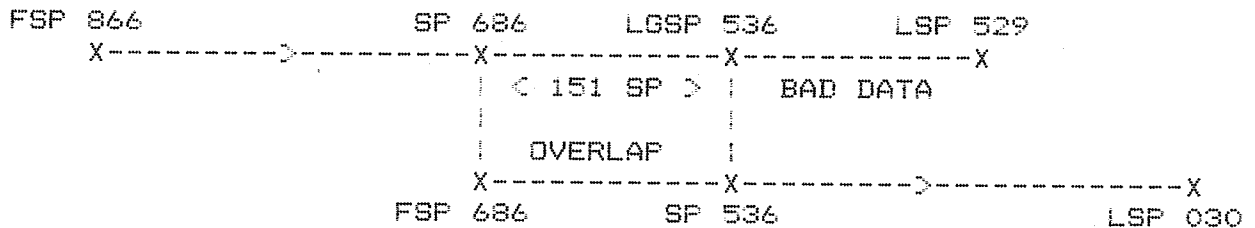
HEADING FOR LINE GS88A-23.

## OVERLAP DIAGRAM

LINE NO. G588A-025B

I.D. 2025

DIR. 224.8 DEG.



LINE NO. GS88A-025C

I. D. 3025

DIR. 224.8 DEG.

## COMMENTS

LINE GS88A-025 TERMINATED DUE TO TITAN ERRORS - DO NOT PROCESS.

LINE GS88A-025A TERMINATED DUE TO STREAMER FAULT - DO NOT PROCESS.

LINE GS88A-025B TERMINATED DUE TO CMS SOFTWARE ERROR.

LINE GS88A-025C COMPLETE / PROCESS

LGSP - LAST GOOD SHOTPOINT

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect VIC/P21  
Vessel MAG CREEK  
Party 2993.

Page 7Date 02 JULY 88

TIME

1445

ABORT RUN-IN TO LINE GS88A-023. U.P.S. FAILURE  
CIRCLING TO REPAIR UPS & RESTART LINE

1515

UPS REPAIRED (2 BLOWN FUSES). REASON UNKNOWN.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect G588 Vic/P21  
 Vessel MAG  
 Party \_\_\_\_\_

Page 8

TIME

Date 02 JULY 88

SHIPMENT N° 2993-021-SYD

1649

B.O.L. G588A-023 I.D. 23 DIR: 045-1 FSP: 101 FRN: 101

OFFSET: 124 m AVE. CABLE NOISE: < 2  $\mu$ B AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 3.9 STB WATER DEPTH: 70.5m m SPEED: 5.2 Knts.

GUN ARRAY VOL: 2140 in3 AIR PRESS: 2000 psi.

GUN STATUS: 6 STB OFF N/F COMPASSES EXCLUDED:

TRACE STATUS: TRACE #193 INTERMITTENTLY SPIKING.

B.O.L. LAT: 38 41 46.60S B.O.L. LON: 147 49 44.05

NAV STATIONS IN USE: 4, 7, 8 CEP: 0

WIND DIR. SW FORCE 3-4 SEA STATE 3. SWELL DIR. SW HEIGHT 1m

SP 588 - BAD RECORD.

SP 589 THRU 593 MISSED DUE TO TAPE TXP HANG-UP.

1907

L.O.L. G588A-23 LSP 987 LRN 982 CN. SP5887 Kms. 22.175WATER DEPTH 67m. FEATHER 3.35 CABLE NOISE < 2  $\mu$ B.

COMPLETE/PROCESS.

HEADING FOR LINE G588A-021.

MAGNETOMETER DATA RECORDED ON STRIPCHART BUT NOT  
ON C.M.S. TAPE.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 Vic/P21  
 Vessel MAG CREEK  
 Party 2993.

Page 9

TIME

Date 02 JULY 882027

B.O.L. GS88A-21 I.D. 21 DIR: 225 FSP: 1299 FRN: 101

OFFSET: 124 m AVE. CABLE NOISE: 2.4 uB AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: WATER DEPTH: 72 m SPEED: 5.2 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 2000 psi.

GUN STATUS: A.G.F. COMPASSES EXCLUDED: NIL.

TRACE STATUS: ALL GOOD

B.O.L. LAT: 038 35 06.10 S B.O.L. LON: 147 59 59.79 E

NAV STATIONS IN USE: 4, 7 &amp; 8 CEP: 1m

WIND DIR. SW FORCE 3 SEA STATE 3 SWELL DIR. S.W HEIGHT 1m

MAG. DATA BEING RECORDED ON STRIPCHART BUT NOT ON CMS  
 TAPE.

SPS 783 THRU 776 BAD DUE TO STREAMER CONTROL  
 SYSTEM HANG-UP. SP 782 MISSED

SP 421 &amp; 370 MISSED - NAV JUMPS.

SP 364 - DROP STN 8 (NOISY), ON 2 WAY NAV.

SP 308 - CHANGE TO STNS 3 &amp; 5.

SP 317 MISSED. - NAV JUMP.

2337

E.O.L. GS88A-21 LSP 020 LRN 1376 CH. SPS. 1280 Kms. 32:00

WATER DEPTH 68m FEATHER &amp; 3.3° STB. CABLE NOISE 2 uB.

COMPLETE/PROCESS.

HEADING FOR LINE GS88A-19

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 10Date 03 July '88

TIME

0134B.O.L. GS88A-19 I.D. 19 DIR: 045.4 FSP: 101 FRN: 101OFFSET: 124 m AVE. CABLE NOISE: 1-7  $\mu$ B AVE. CABLE DEPTH: 8.5 m.FEATHER ANGLE: 0.5°ST WATER DEPTH: 72 m SPEED: 5.4 Knts.GUN ARRAY VOL: 2180 in3 AIR PRESS: 1800 psi.GUN STATUS: AGF COMPASSES EXCLUDED: -TRACE STATUS: ALL GOODB.O.L. LAT: 038 42 47.60S B.O.L. LON: 147 51 36.85ENAV STATIONS IN USE: 3, 5, 7 CEP: 3WIND DIR. SW FORCE 2 SEA STATE 1 SWELL DIR. SW HEIGHT 0.5 m

\*  
MAGNETOMETER DATA RECORDED ON STRIPCHART BUT NOT  
ON CMS TAPE

0330EOL GS88A-19 LSP 897 LRN 897W/DEPTH 72m FEATHER 3°ST NOISE 1-5 @ 8.5mCHARGEABLE: SEISMIC SPS 797 Kms 19.925MAG. SPS 797 Kms 19.925HEADING FOR LINE GS88A-17

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 VIC/P21  
 Vessel MAG. CREEK  
 Party 2993

Page 11

TIME

Date 03 JULY '880451B.O.L. GS88A-17 I.D. 17 DIR: 225° FSP: 1255 FRN: 101OFFSET: 123 m AVE. CABLE NOISE: 1-6 uB AVE. CABLE DEPTH: 8 m.FEATHER ANGLE: 2.2° PT WATER DEPTH: 72 m SPEED: 5.2 Knts.GUN ARRAY VOL: 2180 in3 AIR PRESS: 1800 psi.GUN STATUS: AGF COMPASSES EXCLUDED: -TRACE STATUS: ALL GOODB.O.L. LAT: 038 36 47.41 S B.O.L. LON: 148 00 58.57ENAV STATIONS IN USE: 4, 5, 7 CEP: 1WIND DIR. SW FORCE 2 SEA STATE 1 SWELL DIR. SW HEIGHT 0.5m

\* MAGNETOMETER DATA RECORDED ON STRIPCHART BUT NOT ON  
 CMS TAPE

0806

EOL GS88A-17 LSP 22 LRN 1334

W/DEPTH 68m FEATHER 2.1°GT NOISE 1-7 @ 8.5m

CHARGEABLE: SEISMIC SPS 1234 Kms 30.85

MAG. SPS 1234 Kms 30.85

HEADING FOR LINE GS88A-15

0915

BIRD #13 RIDING ON THE SURFACE - UNABLE TO

CONTROL, WILL NOT RESPOND. BIRD #12 FORCED TO

RIDE SHALLOW (5m) DUE TO BIRD #13. WILL RETRIEVE.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 12Date 03 JULY '88

TIME

0945 PORT + STB. INNER GUN-STRINGS ONBOARD.

1000 CHANGED OUT BIRD #13 - PERMANENTLY SET TO SURFACE

# IN : 2731

# OUT: 2908

1020 STREAMER DEPLOYED. HEADING TO LINE GS88A-15



## JR. GEOPHYSICIST'S LOG

TIME

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG CREEK  
Party 2998

Page 13Date 02 JUL 88

1225

B.O.L. GS88A-15 I.D. 15 DIR: 044.9 FSP: 101 FRN: 101

OFFSET: 124 m AVE. CABLE NOISE: 2.6  $\mu$ B AVE. CABLE DEPTH: 8.2 m.

FEATHER ANGLE: 1.3 Pt. WATER DEPTH: 70m m SPEED: 4.4 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: AGF COMPASSES EXCLUDED:

TRACE STATUS:

B.O.L. LAT: 088 46 16.69S B.O.L. LON: 147 50 22.75E

NAV STATIONS IN USE: 4,547 CEP: 0

WIND DIR. ENE FORCE 3 SEA STATE 3 SWELL DIR. E HEIGHT 0.5m

MAG DATA RECORDED ON STRIPCHART ONLY.

SP911 - GUN #14 STR OFF A/L. ARRAY VOL. 2160 IN<sup>3</sup>

1515

E.O.L. GS88A-15 LSP 1087 LRN 1087CH. SPS 987 KMS 24.675MAG SPS 987 KMS 24.675W/DEPTH 76m FEATHER & 5.9° STR. CABLE NOISE 2.3  $\mu$ B.

COMPLETE / PROCESS

HEADING FOR LINE GS88A-13.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GSPP Vic/P21  
 Vessel MAG CREEK  
 Party 2992.

Page 14Date 03 JULY 88

TIME

1626	ABORT RUN-IN TO LINE GSPPA-13. SPIKING TRACES AROUND SEM #3.
1630	RETRIEVING GUNS.
1715	GUNS ONBOARD.
1740	MAG. SENSOR ONBOARD. RETRIEVING STREAMER.
1855	STREAMER ON TO LIVE 2 CLUSTER #3. BEGIN REPLACING #2 #3. S/N 319 OUT - SUSPECTED OF CAUSING SPIKING TRACES. S/N 272 IN
1915	SEM #3 REPLACED. S/N 2025 OUT - MAY ALSO BE CAUSING SPIKES. S/N 2030 IN
2000	ORIGINAL SEM #3 BACK IN (S/N 2025). SEM #2030 HAS INTERMITTENT O/C TRACES
2050	STOPPED TO CHECK AT SEM #5. GROUND FAULT. FAULT TRACED TO SEM #5. UNABLE TO CONTINUE - NO GOOD SPARES LEFT.
2140	PICKING STREAMER UP TO SEM #3. APPEAR TO HAVE O/C TRACES.
2218	SEM #3 REPLACED. S/N 2025 OUT. PARITY ERRORS. S/N 2004 IN.
2237	BACK AT SEM #5 POSITION. WAITING FOR A REPAIRED ONE.
2300	REPLACING SEM #5 S/N 2031 OUT - GROUND FAULT. S/N 2030 IN. (REPAIRED & TESTED)
2310	ALL TRACES/SEMS GOOD. RESUME DEPLOYING.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect GS88 Vic/P21  
Vessel MAG CREEK  
Party 2993.

Page 15

TIME

Date 03/04 JULY 88

2330 STOPPED AT SEM #10 TO CHECK STREAMER. PARITY ERRORS !!

04 JULY '88

0015 AT SEM #5 - PARITY ERRORS

0130 CHANGED OUT SEM #5 - WAITING FOR SEM TO BE TESTED  
# IN : 2031  
# OUT: 2038

0200 PARITY ERRORS CAUSED BY LOOSE CONNECTION BETWEEN  
BABY COFFIN REPEATER/BREAKAWAY. ALL LOOKS GOOD NOW.

0230 CHANGED OUT BIRD #5 - NOT RESPONDING

# IN : 2981

# OUT: 2623

STILL NO RESPONSE

CHANGED POSITION OF BIRD #5 - BAD SENSOR COIL IN  
SECTION. NOW POSITIONED AT LIVE 1 #9

0400 STREAMER DEPLOYED. ALL O.K.

0520 ALL GUNS DEPLOYED.

0525 MAGNETOMETER DEPLOYED

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect G588 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 16

TIME

Date 04 JULY '880547B.O.L. G588A-13 I.D. 13 DIR: <sup>044.9</sup>~~224~~2 FSP: 101 FRN: 101OFFSET: 122 m AVE. CABLE NOISE: 1-5  $\mu$ B AVE. CABLE DEPTH: 8.5 m.FEATHER ANGLE: 2.1° PT WATER DEPTH: 69 m SPEED: 4.7 Knts.GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.GUN STATUS: AGF COMPASSES EXCLUDED: -TRACE STATUS: ALL GOODB.O.L. LAT: 038 46 42.14S B.O.L. LON: 147 51 21.48ENAV STATIONS IN USE: 4, 5, 7 CEP: 0WIND DIR. N FORCE 2 SEA STATE 2 SWELL DIR. SE HEIGHT 0.5m

MAGNETOMETER DATA RECORDED ON STRIPCHART ONLY

SP 121: #23(P) AIR LEAK. 2140 in<sup>3</sup>0803

EOL G588A-13 LSP 966 LRN 966

W/DEPTH 75m FEATHER 0.2° PT NOISE 2-6  $\mu$ B @ 8.5m

CHARGEABLE: SEISMIC SPS 866 Kms 21.65

MAGNETIC SPS 866 Kms 21.65

HEADING FOR LINE G588A-11

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88A VIC/P21  
 Vessel MAG. CREEK  
 Party 2993

Page 17

TIME

Date 04 July '880915B.O.L. GS88A-11 I.D. 11 DIR: 224.8 FSP: 812 FRN: 101OFFSET: 123 m AVE. CABLE NOISE: 1-7  $\mu$ B AVE. CABLE DEPTH: 8 m.FEATHER ANGLE: 3.5° ST WATER DEPTH: 74 m SPEED: 5.4 Knts.GUN ARRAY VOL: 2140 in3 AIR PRESS: 1900 psi.GUN STATUS: #23(P) AIR LEAK COMPASSES EXCLUDED: #5TRACE STATUS: ALL GOODB.O.L. LAT: 038 40 29.385 B.O.L. LON: 148 00 43.11ENAV STATIONS IN USE: 4, 5, 7 CEP: 0WIND DIR. NE FORCE 1 SEA STATE 2 SWELL DIR. SE HEIGHT 0.5m

MAGNETOMETER DATA RECORDED ON STRIPCHART ONLY

SP180: FLOUNDER OFF THE AIR. SHORESIDE NAV. SUPPORT  
 CHECKING THE STATION.

EOL: FLOUNDER BACK ON THE AIR.

1114

EOL GS88A-11 L6P 023 LRN 890

W/DEPTH 73m FEATHER 5.4° ST NOISE 1-5 $\mu$ B @ 8.5mCHARGEABLE: SEISMIC SPS 790 Kms 19.75MAGNETIC SPS 790 Kms 19.75

HEADING FOR LINE GS88A-09

1125

PORT INNER ON BOARD FOR REPAIR

## JR. GEOPHYSICIST'S LOG

Client SMELH  
 Prospect G588 Vic/P21  
 Vessel MAG CREEK  
 Party 2993

Page 18  
 Date 04 July 88

TIME

1240

B.O.L. GS88A-09 I.D. 9 DIR: 044.6 FSP: 101 ERN: 102

OFFSET: 127 m AVE. CABLE NOISE: <3  $\mu$ B AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 3.5 Pt. WATER DEPTH: 72 m SPEED: 4.6 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: A.G.F. COMPASSES EXCLUDED: NIL

TRACE STATUS:

B.O.L. LAT: 038 47 41.64 S B.O.L. LON: 147 53 06.11 E

NAV STATIONS IN USE: 4,597 CEP: 1

WIND DIR. E FORCE 1-2 SEA STATE 1 SWELL DIR. E HEIGHT &lt;0.5

MAG DATA RECORDED ON STRIPCHART ONLY.

SP'S 1436 144 MISSED - TITAN PROBLEM.

SP 590 - SOME SHIP NOISE VISIBLE ON LAST SECOND OF DATA.  
 SHIP IS 7 NM AHEAD.

SP 663 RN 662 = ON LINE NOISE RECORD.

1456 EOL GS88A-09 LSP 875 LRN 874  
CH. SP5 775 KMS 19.375 MAG KMS 19.375  
 W/DEPTH 74 m FEATHER 4° 1.6° STB. CABLE NOISE <3  $\mu$ B.  
 COMPLETE / PROCESS.  
 HEADING FOR LINE GS88A-07.

## JR. GEOPHYSICIST'S LOG

TIME

Client SHELL  
 Prospect GS88 VIC/P21  
 Vessel MAG CREEK  
 Party 2993

Page 19Date 04 JULY 88

1612

B.O.L. GS88A-007 I.D. 7 DIR: 225.4 FSP: 765 FRN: 101

OFFSET: 127 m AVE. CABLE NOISE: 1.8  $\mu$ B AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 10 Pt. WATER DEPTH: 74 m SPEED: 4.6 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: A.C.F. COMPASSES EXCLUDED:

TRACE STATUS:

B.O.L. LAT: 038 41 55.30S B.O.L. LON: 148 02 03.22E

NAV STATIONS IN USE: 4, 5, 7 CEP: 0

WIND DIR. E FORCE 1-2 SEA STATE 1 SWELL DIR. E HEIGHT &lt; 0.5m

MAG. DATA RECORDED ON STRIPCHART ONLY.

1814

E.O.L. GS88A-07 LS P023 LRN. 843CH. SP3 743 CH. Kms 18.575 MAG Kms 18.575.W/DEPTH. 71m FEATHER < 5.9° PORT CABLE NOISE. 2.4  $\mu$ B.

COMPLETE/PROCESS.

HEADING FOR LINE GS88A-03.

# JR. GEOPHYSICIST'S LOG

TIME

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG CREEK  
Party 2993

Page 20

Date 04 JUL 88

1928

B.O.L. GS88A-03 I.D. 03 DIR: 045.0 FSP: 101 FRN: 101

OFFSET: m AVE. CABLE NOISE: uB AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 5.4 STB. WATER DEPTH: 73 m SPEED: 4.6 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: AGF COMPASSES EXCLUDED:

TRACE STATUS:

B.O.L. LAT: B.O.L. LON:

NAV STATIONS IN USE: 4, 5 & 7. CEP:

WIND DIR. SE FORCE 1 SEA STATE 0 SWELL DIR. S/E HEIGHT 0.5 m

1946

E.O.L. GS88A-03 NBP 221 LRN 218

TERM- STREAMER FAILURE DO NOT PROCESS.

CIRCLING TO RE-SHOOT.

~~DO NOT PROCESS~~



## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 VK/P21  
 Vessel MAG CREEK  
 Party 2993

Page 21

TIME

Date 04 JULY 88

2219

B.O.L. GS88A-03A I.D. 1003 DIR: 045.0 FSP: 101 FRN: 101

OFFSET: 124 m AVE. CABLE NOISE: 1-3  $\mu$ B AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 5.8 Pt. WATER DEPTH: 74 m SPEED: 5.4 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: A.G.F. COMPASSES EXCLUDED: Nil

TRACE STATUS:

WIND DIR. SE FORCE 1 SEA STATE 0 SWELL DIR. SE HEIGHT 0.5 m

MAG DATA RECORDED ON STRIPCHART ONLY.

SPS 197 &amp; 199 - NO RECORD DUE TO NAV JUMP.

SP 205 - DROP STN 7 (SNAPPER). 2WAY FIXING.

SP 367 - ADD STN 7 (SNAPPER). 3WAY FIXING.

2336

E.O.L. GS88A-03A LSP 588 LRN 586

CH. SPS 488 CH. KMS. 12.200 MAG KMS 12.200

W/DEPTH 75m. FEATHER & 4.9° Pt CABLE NOISE 1-3  $\mu$ B

COMPLETE / PROCESS.

HEADING FOR LINE GS88A-05.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 VIC/P21  
 Vessel MAG. CREEK  
 Party 1993

Page 22

TIME

Date 05 JULY '880101B.O.L. GS88A-05 I.D. 05 DIR: 225° FSP: 770 FRN: 101OFFSET: 123 m AVE. CABLE NOISE: 1-5 uB AVE. CABLE DEPTH: 8 m.FEATHER ANGLE: 6.7° ST WATER DEPTH: 75 m SPEED: 5.4 Knts.GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.GUN STATUS: AGF COMPASSES EXCLUDED: -TRACE STATUS: ALL GOODB.O.L. LAT: 038 42 11.35 S B.O.L. LON: 148 02 33.57 ENAV STATIONS IN USE: 4, 5, 7 CEP: 2WIND DIR. 1 FORCE E SEA STATE 1 SWELL DIR. SE HEIGHT 0.5 m

MAG. DATA RECORDED ON STRIPCHART ONLY

SP 757 MISSED: NAVIGATION 'Jump'

SP 413 " " "

0237

LINE GS88A-05 TERMINATED EARLY DUE TO NAV. 9803

IDLE. LSP 121 LRN 748

W/DEPTH 72m FEATHER 5.7° ST NOISE 1-5 @ 9m

CHARGEABLE: SEISMIC SPS 650 Kms 16.25

MAG. SPS 650 Kms 16.25

CIRCLING TO LINE GS88A-05A

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect G88A- VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 23

TIME

Date 05 JULY '88

0500 ABORTED LINE G88A-05A ON RUN-IN DUE TO INTERFERENCE  
FROM NEARBY VESSEL. CIRCLING TO ATTEMPT LINE AGAIN

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 VIC/P21  
 Vessel MAG. CREEK  
 Party 2993

Page 24

TIME

Date 05 JULY '880649

B.O.L. GS88A-05A I.D. 1005 DIR: 225.2 FSP: 280 FRN: 101

OFFSET: 124 m AVE. CABLE NOISE: 1-7 uB AVE. CABLE DEPTH: 8 m.

FEATHER ANGLE: 6.5°PT WATER DEPTH: 72 m SPEED: 5.3 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: AGF COMPASSES EXCLUDED: -

TRACE STATUS: ALL GOOD

B.O.L. LAT: 038 46 52.235 B.O.L. LON: 147 56 34.95E

NAV STATIONS IN USE: 4, 5, 7 CEP: 1

WIND DIR. - FORCE 1 SEA STATE 2 SWELL DIR. - HEIGHT -

MAG. DATA RECORDED ON STRIPCHART ONLY

0713

SP 120: FIRST CHARGEABLE SHOTPOINT

0728

EOL GS88A-05A LSP 024 LRN 357

W/DEPTH 70m FEATHER 3.4°PT NOISE 1-7 @ 8m

CHARGEABLE: SEISMIC SPS 97 Kms 2.425

MAG. SPS 97 Kms 2.425

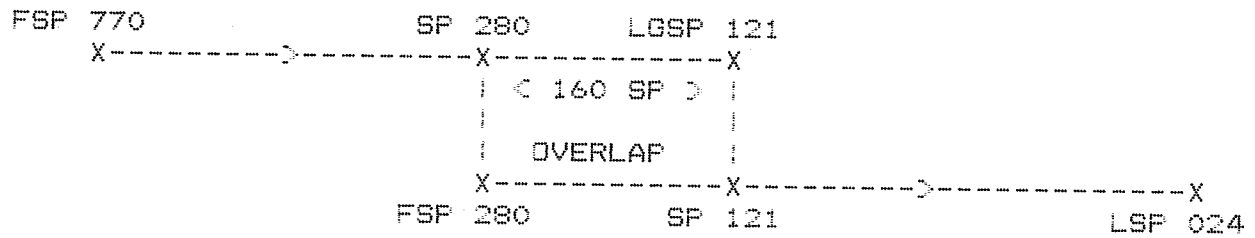
HEADING FOR LINE GS88A-01

OVERLAP DIAGRAM

LINE NO. GS88A-005

I.D. 05

DIR. 225.0 DEG.



LINE NO. GS88A-005A

I.D. 1005

DIR. 225.2 DEG.

COMMENTS

LINE GS88A-005 TERMINATED DUE TO CMS 980B IDLE.

LINE GS88A-005A COMPLETE.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect GS88 VIC/P21  
Vessel MAG. CREEK  
Party 2993

Page 25Date 05 JULY '88

TIME

0859

B.O.L. GS88A- 01 I.D. 01 DIR: 045.2 FSP: 101 FRN: 101

OFFSET: m AVE. CABLE NOISE: uB AVE. CABLE DEPTH: 8.5 m.

FEATHER ANGLE: 1.2°ST WATER DEPTH: 73 m SPEED: 5.3 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: AGF COMPASSES EXCLUDED: -

TRACE STATUS: ALL GOOD

B.O.L. LAT: 038 46 55.47 S B.O.L. LON: 147 59 30.02 E

NAV STATIONS IN USE: 4, 5, 7 CEP: 2

WIND DIR. - FORCE 1 SEA STATE 2 SWELL DIR. - HEIGHT -

MAG. DATA RECORDED ON STRIPCHART ONLY

- DO NOT PROCESS -

0915LINE GS88A-01 TERMINATED EARLY DUE TO  
INTERFERENCE FROM NEARBY VESSEL.

LSP 203 LRN 203

CIRCLING TO ATTEMPT LINE GS88A-01A

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 VIC/P21  
 Vessel MAG. CREEK  
 Party 2993

Page 26

TIME

Date 05 JULY '881124B.O.L. GS88A-01A I.D. 1001 DIR: 045.2 FSP: 101 FRN: 101OFFSET: 124 m AVE. CABLE NOISE: 5.7  $\mu$ B AVE. CABLE DEPTH: 8 m.FEATHER ANGLE: 5.3° PT WATER DEPTH: 74 m SPEED: 4.8 Knts.GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.GUN STATUS: AGF COMPASSES EXCLUDED: -TRACE STATUS: ALL GOODWIND DIR. SE FORCE 4 SEA STATE 3 SWELL DIR. SE HEIGHT 0.5m

MAG. DATA RECORDED ON STRIPCHART ONLY

\* VESSEL PASSING 5 NMILES ASTERN AT BOL. PROP  
 NOISE EVIDENT  $\approx 3 \mu$ B MOST TRACES

MISSED SPS 122 THRU 125 : DUE TO FCS HANG-UP

$\approx$  SP 180: ANOTHER VESSEL PASSING 5 NMILES ASTERN.  
 PROP NOISE  $\approx 10 \mu$ B MOST TRACES

1258L.O.L. GS88A-01A LSP 589 LRN 585CH. SPS 489 CH. Kms. 12.225 MAG. Kms 12.225W/DEPTH 77m. FEATHER  $\times$  1.7 Pt. CABLE NOISE 2.4  $\mu$ B.COMPLETE/ PROCESS.BEGIN TRANSIT TO VIC/P11 BLOCK. DIST. TO GO = 61 Km.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect G588 Vic/P21 & Vic/P11  
Vessel MAG CREEK  
Party 2993.

Page 27Date 05 Jun 88

TIME

1340 ALL AIRGUNS ON DECK.

1745 DEPLOYING GUNS.

1915 ALL GUNS DEPLOYED.

ANTENNA ON SNAPPER SHIFTED TO OBTAIN BETTER  
COVERAGE. NEW POSITION: 038 11 44.78 S  
148 01 26.91 E



## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 Vic P/11  
 Vessel MAG CR  
 Party \_\_\_\_\_

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TIME

Date 05 July 88

1943

B.O.L. GS88C-25 I.D. 25 DIR: 259.3 FSP: 101 FRN: 101

OFFSET: 127 m AVE. CABLE NOISE: \_\_\_\_\_ uB AVE. CABLE DEPTH: 8.6 m.

FEATHER ANGLE: 2.4 STB. WATER DEPTH: 50 m SPEED: 4.9 Knts.

GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.

GUN STATUS: AGF COMPASSES EXCLUDED:

TRACE STATUS: ALL GOOD

WIND DIR. E/NE FORCE 5-6 SEA STATE 4 SWELL DIR. E/NE HEIGHT 2m

DUE TO ADVERSE WEATHER CONDITIONS FATHOMETER TRACKING  
 VERY POORLY.

SP 584- BAD RECORD - TAPE TRANSPORT HANG-UP.

SPS 585 THRU 589 MISSED. TAPE TRANSPORT HANG-UP.

2115

E.O.L. GS88C-25 LSP 670. LRN 665CH. SPS. 570 CH. KMS 14.250

W/DEPTH 44m FEATHER &amp; 0° CABLE NOISE

COMPLETE / PROCESS.

HEADING FOR LINE GS88C-21

## JR. GEOPHYSICIST'S LOG

Client SHELL  
Prospect G588 Vic/PII  
Vessel MAG CREEK  
Party 2993

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TIME

Date 05 JULY 882230B.O.L. G588C-21 I.D. 21 DIR: 180.2° FSP: 352 FRN: 101OFFSET: 127 m AVE. CABLE NOISE: uB AVE. CABLE DEPTH: 8.7 m.FEATHER ANGLE: 0° WATER DEPTH: 44 m SPEED: 4.5 Knts.GUN ARRAY VOL: 2180 in3 AIR PRESS: 1900 psi.GUN STATUS: A.G.F. COMPASSES EXCLUDED:TRACE STATUS: ALL GOODWIND DIR. E/NE FORCE 5-6 SEA STATE 4 SWELL DIR. E/NE HEIGHT 2.0 mFATHOMETER TRACKING VERY POORLY DUE TO WEATHER CONDITIONS.2323E.O.L. G588C-21 LSP 023 LRN. 430CH. SP3 330 CH. KMS. 8.250W/DEPTH 46m FEATHER & 2.95TB CABLE NOISECOMPLETE / PROCESS.

## JR. GEOPHYSICIST'S LOG

Client SHELL  
 Prospect GS88 Vic/P11  
 Vessel MAG CREEK  
 Party 2993

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TIME

Date 06 JULY

0111 B.O.L. GS88C-27A I.D. 1027 DIR: 000°/ FSP: 441 FRN: 101

OFFSET: 122 m AVE. CABLE NOISE: 1-8  $\mu$ B AVE. CABLE DEPTH: 9 m.

FEATHER ANGLE: 7°PT WATER DEPTH: 46 m SPEED: 3.7 Knts.

GUN ARRAY VOL: 2140 in3 AIR PRESS: 2000 psi.

GUN STATUS: #27(P) AIR LEAK COMPASSES EXCLUDED: -

TRACE STATUS: ALL GOOD

WIND DIR. E FORCE 7 SEA STATE 5-6 SWELL DIR. E HEIGHT 3m

0142 SP 598: FIRST CHARGEABLE SHOTPOINT

0154 EOL GS88C-27A LSP 656 LRN 316

W/DEPTH 46m FEATHER 9.4°PT NOISE 1-6  $\mu$ B @ 9m

CHARGEABLE: SEISMIC SPS 59 Kms 1.475

HEADING FOR LINE GS88C-23

0315 ABORTED LINE GS88C-23 ON RUN-IN DUE TO DIFFICULTY  
 CONTROLLING STREAMER DEPTH / SWELL BURSTS. WEATHER  
 DOWNTIME IN EFFECT. HEADING TO FAIR SEAS.

0400 PORT + STBD. INNER GUN-STRINGS ON BOARD.

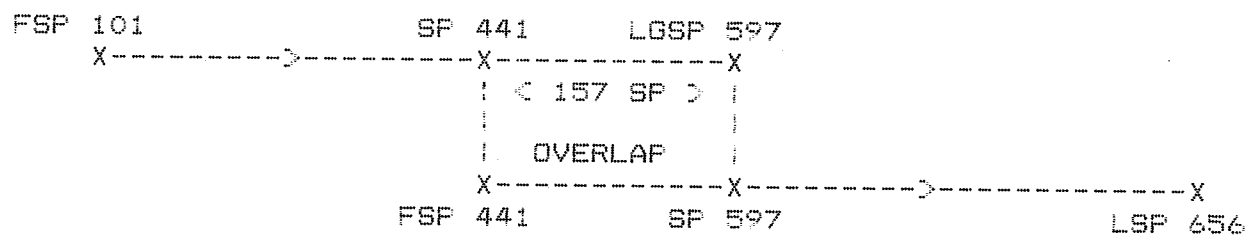
0700 " " OUTER " " " "

OVERLAP DIAGRAM

LINE NO. SG88C-027

I.D. 27

DIR. 000.1 DEG.



LINE NO. GS88C-027A

I.D. 1027

DIR. 000.1 DEG.

COMMENTS

LINE SG88C-027 TERMINATED DUE TO FISHING VESSEL.

LINE GS88C-027A COMPLETE.