

SOUTH AUSTRALIA
DEPARTMENT OF MINES AND ENERGY



OPEN FILE ENVELOPE NO. 7079/2

PEL 5 AND PEL 6, PATCHAWARRA CENTRAL BLOCK

EROMANGA AND COOPER BASINS

DELIN 1

TEST REPORTS

Submitted by

Santos Ltd

1988

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ENVELOPE 7079/2

TENEMENT: PEL 5 and PEL 6, Patchawarra Central Block; Eromanga and Cooper Basins

TENEMENT HOLDER: Santos Ltd (operator), Bridge Oil Developments Pty Ltd, Delhi Petroleum Pty Ltd, Reef Oil NL, Basin Oil NL, Vangas Ltd, South Australian Oil and Gas Corporation Pty Ltd and Bridge Oil Ltd

CONTENTS

REPORT: Halliburton Services, 1988. Formation testing service report, DST 1 (2/9/88).

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000003



HALLIBURTON SERVICES

TICKET NO. 35923000

02-SEP-88

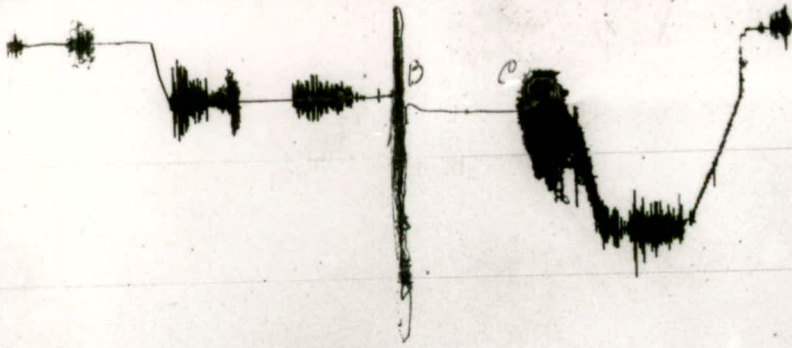
MOOMBA



FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TWP. - RANG.		SEE REMARKS	FIELD AREA	COUNTY	STATE
DELIN		1	1	COOPER BASIN	SM
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME	
			10036.1 - 10100.0	SANTOS L.TD.	

000004



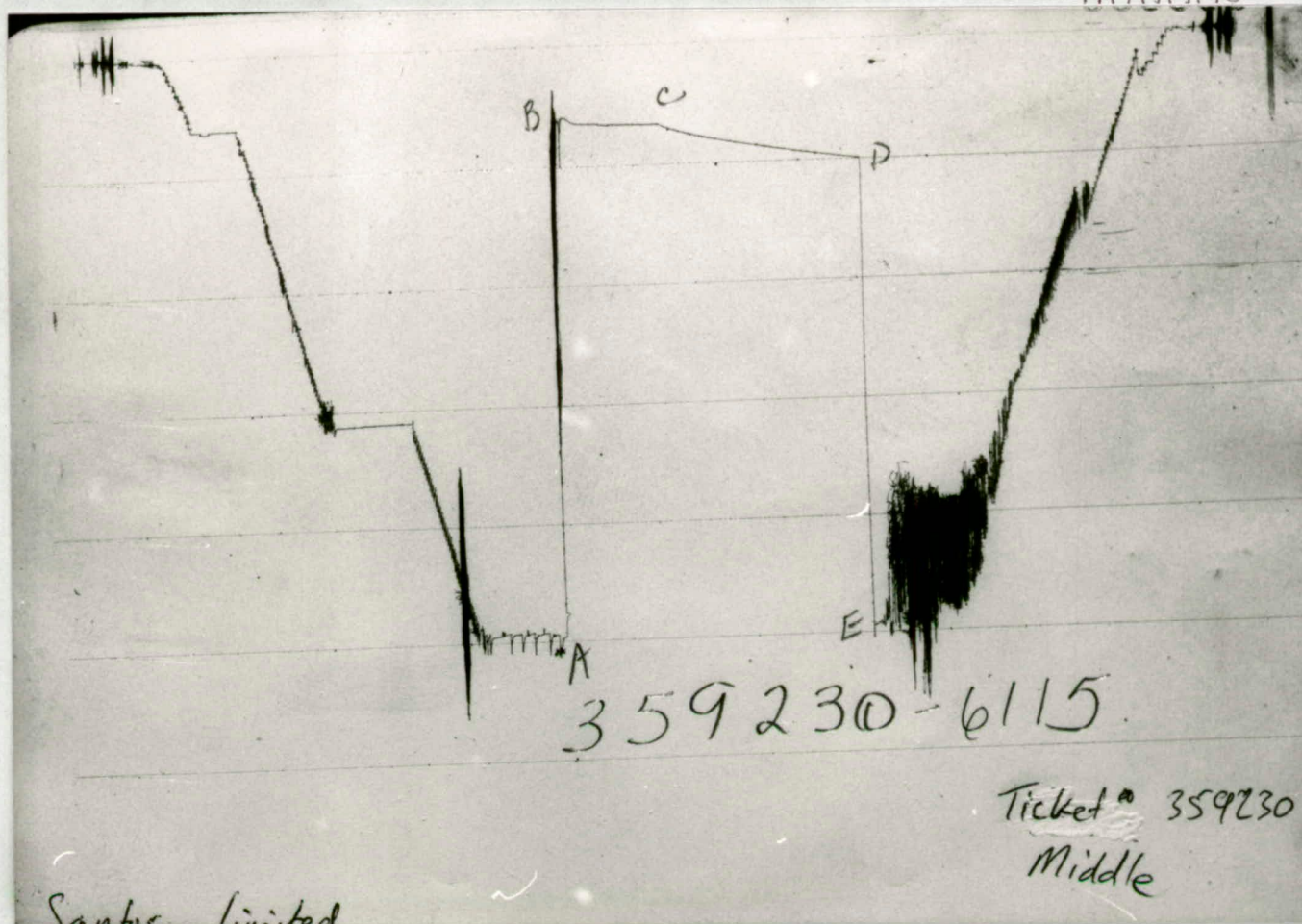
359230. 7901

Ticket # 359230
Recovery.

Santor limited

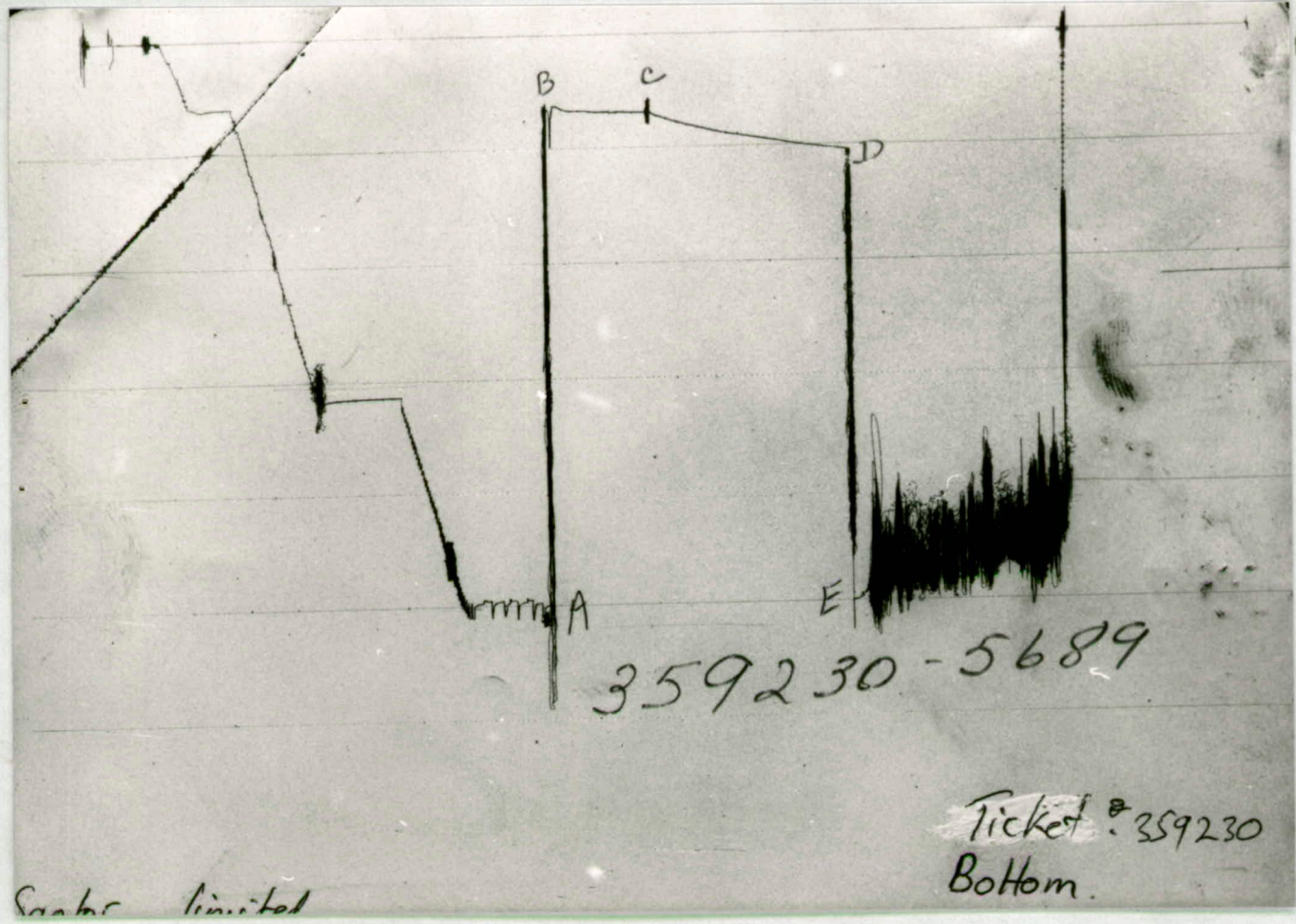
GAUGE NO: 7901 DEPTH: 9992.4 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		634.7			
C	FINAL FIRST FLOW		638.0	120.0	123.7	F
C	INITIAL FIRST CLOSED-IN		638.0			
D	FINAL FIRST CLOSED-IN	640		240.0		C
E	FINAL HYDROSTATIC					



GAUGE NO: 6115 DEPTH: 10013.4 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4960	4951.2			
B	INITIAL FIRST FLOW	609	604.5			
C	FINAL FIRST FLOW	660	659.6	120.0	123.7	F
C	INITIAL FIRST CLOSED-IN	660	659.6			
D	FINAL FIRST CLOSED-IN	979	992.8	240.0	236.3	C
E	FINAL HYDROSTATIC	4947	4945.2			



GAUGE NO: 5689 DEPTH: 10097.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	5004	5009.3			
B	INITIAL FIRST FLOW	649	654.4			
C	FINAL FIRST FLOW	680	682.9	120.0	123.7	F
C	INITIAL FIRST CLOSED-IN	680	682.9			
D	FINAL FIRST CLOSED-IN	1035	1046.2	240.0	236.3	C
E	FINAL HYDROSTATIC	4991	4992.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: PATCHAWARRA

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 63.9ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 8.500ELEVATION (ft): 141.0TOTAL DEPTH (ft): 10100.0PACKER DEPTH(S) (ft): 10028, 10036FINAL SURFACE CHOKE (in): 0.25000BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.50

MUD VISCOSITY (sec): _____

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 245 @ 10096.0 ftTICKET NUMBER: 35923000DATE: 11-1-87 TEST NO: 1TYPE DST: OPEN HOLE

HALLIBURTON CAMP: _____

MOOMBATESTER: ANGUS NICHOLSWITNESS: SPEECHLEY ??

DRILLING CONTRACTOR: _____

ATCO RIG #1FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

P_{sig} AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

WATER (FT) 1130.0 8.34

RECOVERED :

MEASURED FROM
TESTER VALVE

REMARKS :

LEGAL LOCATION: LAT. 27 DEG 29' 34.7"S

LONG. 140 DEG 12' 02.1"E.

LINE- STN 341 ON LINE 85XXH

CLOCK STOPPED IN GAUGE # 7901 AFTER FLOW PERIOD, RE-STARTED WHEN PULLED LOOSE.

000008

TYPE & SIZE MEASURING DEVICE: 6" CERAMIC SURFACE CHOKE					TICKET NO: 35923000
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
10-31-87					
2115					MADE UP TOOLS
2315					RAN IN HOLE
2335					MADE UP HEAD AND FILLED WATER
					CUSHION
11-1-87					
0605					TAGGED BOTTOM, WAITED ON
					SUNRISE
0618	1/2				SEATED PACKERS AT 30,000#
0623	1/2				TOOL OPENED WITH VERY WEAK
					BLOW
0628	1/2				WEAK BLOW
0633	1/2				WEAK TO MODERATE BLOW
0638	1/2				MODERATE BLOW, LOSING ANNULUS
0643	1/2				MODERATE BLOW
0647	1/2	1			STRONG BLOW
0649	1/2	2			
0651	1/2	3			
0652	1/2	4			
0654	1/2	5			
0655	1/2	5			GAS TO THE SURFACE
0659	1/2	6			
0700	1/2	5			
0707	1/2	4			
0712	1/2	3			
0713	1/4	4			
0719	1/4	5			
0721	1/4	6			
0830					CLOSED DCIP FOR SHUT IN
1230					PULLED FREE OFF BOTTOM &
					OPENED BYPASS
					HEAD OFF AND PULLED OUT OF HOLE
1840					TOOLS AT SURFACE
1950					FINISHED BREAKING AND LAYING
					DOWN TOOLS

000009

TICKET NO: 35923000

CLOCK NO: 29507 HOUR: 24



GAUGE NO: 7901

DEPTH: 9992.4

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	634.7								
	2	20.0	611.0	-23.6							
	3	40.0	619.0	7.9							
	4	60.0	629.4	10.4							
	5	80.0	629.1	-0.2							
	6	100.0	634.9	5.7							
C	7	123.7	638.0	3.1							
FIRST CLOSED-IN											
C	1	0.0	638.0								
D	2	NO DATA FOR THIS POINT									

REMARKS:

000010

TICKET NO: 35923000

CLOCK NO: 28189 HOUR: 24



GAUGE NO: 6115

DEPTH: 10013.4

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	604.5								
	2	20.0	616.4	11.9							
	3	40.0	642.6	26.2							
	4	60.0	655.5	13.0							
	5	80.0	656.6	1.1							
	6	100.0	660.0	3.4							
C	7	123.7	659.6	-0.4							
FIRST CLOSED-IN											
C	1	0.0	659.6								
	2	15.0	701.3	41.7	13.4	0.966					
	3	30.0	733.0	73.4	24.2	0.709					
	4	45.0	762.3	102.8	33.0	0.574					
	5	60.0	786.6	127.0	40.4	0.486					
	6	75.0	808.9	149.4	46.7	0.423					
	7	90.0	829.8	170.2	52.1	0.375					
	8	105.0	847.9	188.3	56.8	0.338					
	9	120.0	865.5	206.0	60.9	0.308					
	10	135.0	884.7	225.1	64.6	0.282					
	11	150.0	900.4	240.9	67.8	0.261					
	12	165.0	918.3	258.7	70.7	0.243					
	13	180.0	935.3	275.7	73.3	0.227					
	14	195.0	950.6	291.1	75.7	0.213					
	15	210.0	966.2	306.6	77.8	0.201					
	16	225.0	981.3	321.7	79.8	0.190					
D	17	236.3	992.8	333.2	81.2	0.183					

REMARKS:

000011

TICKET NO: 35923000

CLOCK NO: 28322 HOUR: 24



GAUGE NO: 5689

DEPTH: 10097.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	654.4								
	2	20.0	647.6	-6.9							
	3	40.0	670.2	22.7							
	4	60.0	680.0	9.8							
	5	80.0	685.6	5.6							
	6	100.0	686.2	0.7							
C	7	123.7	682.9	-3.3							
FIRST CLOSED-IN											
C	1	0.0	682.9								
	2	15.0	731.3	48.4	13.4	0.965					
	3	30.0	767.8	84.9	24.2	0.709					
	4	45.0	800.7	117.8	33.0	0.574					
	5	60.0	825.7	143.8	40.4	0.486					
	6	75.0	855.3	172.4	46.7	0.423					
	7	90.0	878.9	196.0	52.1	0.376					
	8	105.0	897.8	214.9	56.8	0.338					
	9	120.0	917.3	234.4	60.9	0.308					
	10	135.0	934.4	251.6	64.5	0.282					
	11	150.0	950.9	268.0	67.8	0.261					
	12	165.0	972.9	290.0	70.7	0.243					
	13	180.0	989.1	306.2	73.3	0.227					
	14	195.0	1004.4	321.5	75.7	0.213					
	15	210.0	1019.5	336.6	77.8	0.201					
	16	225.0	1033.3	350.4	79.8	0.190					
D	17	236.3	1046.2	363.3	81.2	0.183					

REMARKS:

000012

TICKET NO. 35923000

		O.D.	I.D.	LENGTH	DEPTH
1					
	DRILL PIPE.....	4.500	3.826	9314.3	
4					
	FLEX WEIGHT.....	4.500	2.764	182.7	
3					
	DRILL COLLARS.....	6.500	2.750	419.7	
51					
	PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	9900.3
3					
	DRILL COLLARS.....	6.500	2.750	59.5	
50					
	IMPACT REVERSING SUB.....	6.000	3.000	1.0	9960.4
3					
	DRILL COLLARS.....	6.500	2.750	29.8	
258					
	BAR CATCHER SUB.....	5.750	1.120	1.0	
80					
	AP RUNNING CASE.....	5.000	2.250	4.1	9992.4
5					
	CROSSOVER.....	5.000	2.200	1.0	
12					
	DUAL CIP VALVE.....	5.000	0.870	4.9	
202					
	SAMPLE CHAMBER.....	5.000	2.500	4.9	
33					
	DRAIN VALVE.....	5.000	2.200	0.9	
60					
	HYDROSPRING TESTER.....	5.000	0.750	5.3	10011.3
80					
	AP RUNNING CASE.....	5.000	2.250	4.1	10013.5
15					
	JAR.....	5.000	1.750	5.0	
16					
	VR SAFETY JOINT.....	5.000	1.000	2.8	
70					
	OPEN HOLE PACKER.....	7.500	1.530	5.8	10028.3
18					
	DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70					
	OPEN HOLE PACKER.....	7.500	1.530	5.8	10036.1
19					
	ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3	
5					
	CROSSOVER.....	5.750	2.200	1.0	
3					
	DRILL COLLARS.....	6.500	2.750	29.8	
5					
	CROSSOVER.....	5.750	2.200	1.0	
20					
	FLUSH JOINT ANCHOR.....	5.000	2.370	22.0	
81					
	BLANKED-OFF RUNNING CASE.....	5.000		4.1	10097.0
TOTAL DEPTH					10100.0

EQUIPMENT DATA