

SOUTH AUSTRALIA
DEPARTMENT OF MINES AND ENERGY



OPEN FILE ENVELOPE NO. 5813

PEL 5 AND PEL 6, NAPPACOONGEE-MURTEREE BLOCK

EROMANGA BASIN

BIALA 2

TEST REPORTS

Submitted by

Delhi Petroleum Pty Ltd

1993

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ENVELOPE 5813

TENEMENT: PEL 5 and PEL 6, Nappacoongee-Murteree Block; Eromanga Basin

TENEMENT HOLDER: Delhi Petroleum Pty Ltd (operator), Santos Ltd, Vamgas Ltd, Crusader Oil NL and South Australian Oil and Gas Corporation Pty Ltd

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Halliburton Services, 1985. Formation testing service report - DST 1 (3 June 1985).	5813 R 1 Pgs 3-12
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Larkin, R., 1987. Results of static pressure gradient survey run on 30 September 1987 (Expertest Pty Ltd).	5813 R 3 Pgs 23-26
Moore, R., 1988. Results of reservoir pressure build-up and static pressure gradient surveys run on 9 December 1988 (Expertest Pty Ltd).	5813 R 4 Pgs 27-30
Cilento, A. and Briancourt, W., 1989. Results of static pressure gradient surveys performed pre and post-swab, 11-12 and 19-22 March 1989 and 5 April 1989 (Expertest Pty Ltd).	5813 R 5 Pgs 31-51
Buckland, R., Briancourt, W. and Smith, A., 1989. Results of reservoir pressure build-up and static pressure gradient surveys conducted over the period 5-21 April 1989 (Expertest Pty Ltd).	5813 R 6 Pgs 52-61
Martin, C., 1990. Results of static pressure gradient survey run on 10 September 1990 (Expertest Pty Ltd).	5813 R 7 Pgs 62-66
Buckland, R., 1993. Results of static pressure gradient survey of Murta oil reservoir perforated interval 3950-3980 feet run on 3 March 1993 (Expertest Pty Ltd).	5813 R 8 Pgs 67-74

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00003



TICKET NO. 33689900
03-JUN-85
MOOMBA

FORMATION TESTING SERVICE REPORT

LEASE NAME		WELL NO.		TEST NO.		TESTED INTERVAL		DELHI/SANTOS	
LEGAL LOCATION		SEE REMARKS		FIELD AREA		COOPER BASIN		LEASE OWNER/COMPANY NAME	
SEC. - TYP. - RNG.						COUNTY SOUTH AUSTRALIA		STATE AUSTRALIA BG	

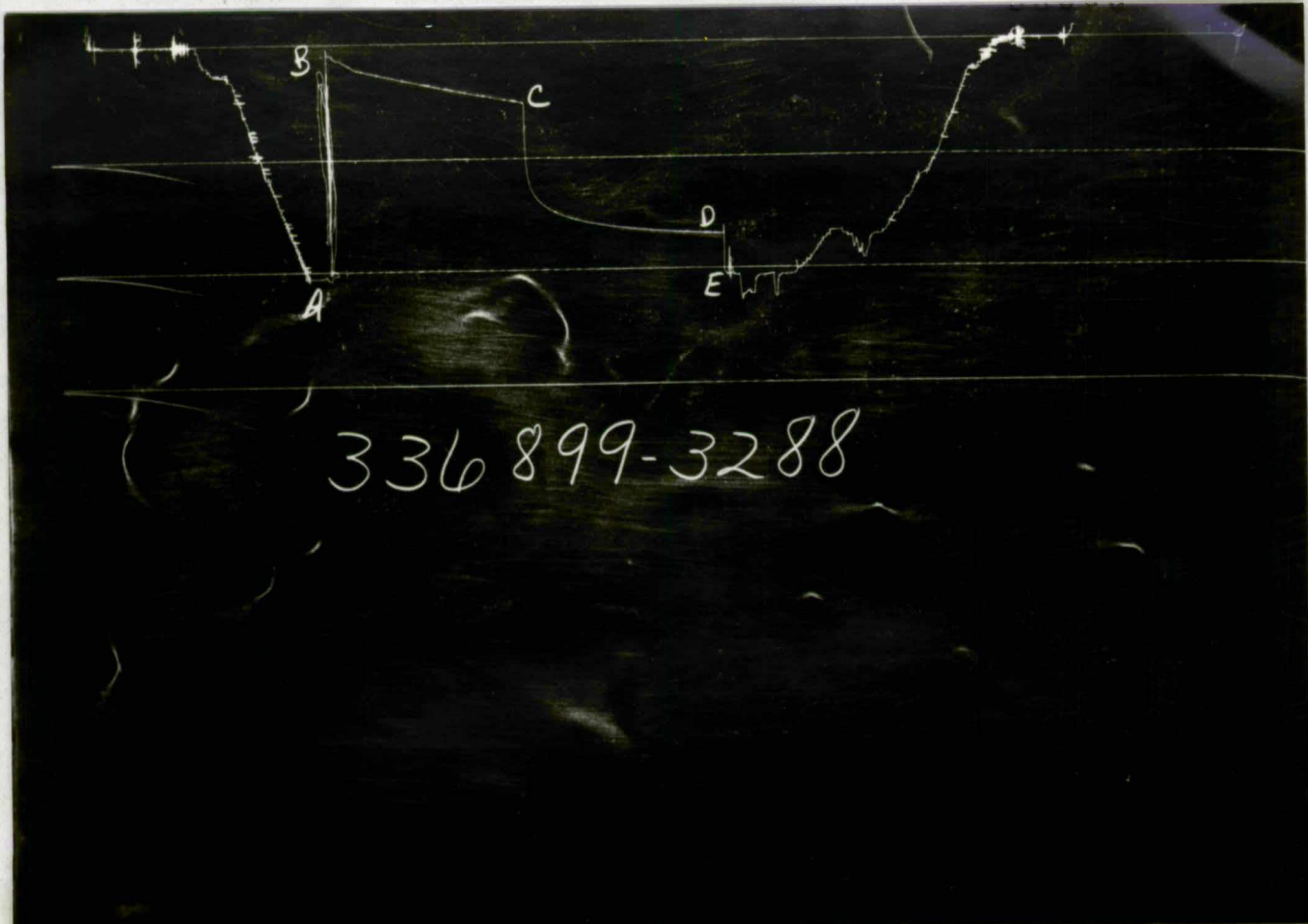
00004

888

336899-3896

GAUGE NO: 3896 DEPTH: 3900.6 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		15.5			
C	FINAL FIRST FLOW		530.6	240.0	239.4	F
C	INITIAL FIRST CLOSED-IN		530.6			
D	FINAL FIRST CLOSED-IN		539.6	240.0	240.6	C
E	FINAL HYDROSTATIC					

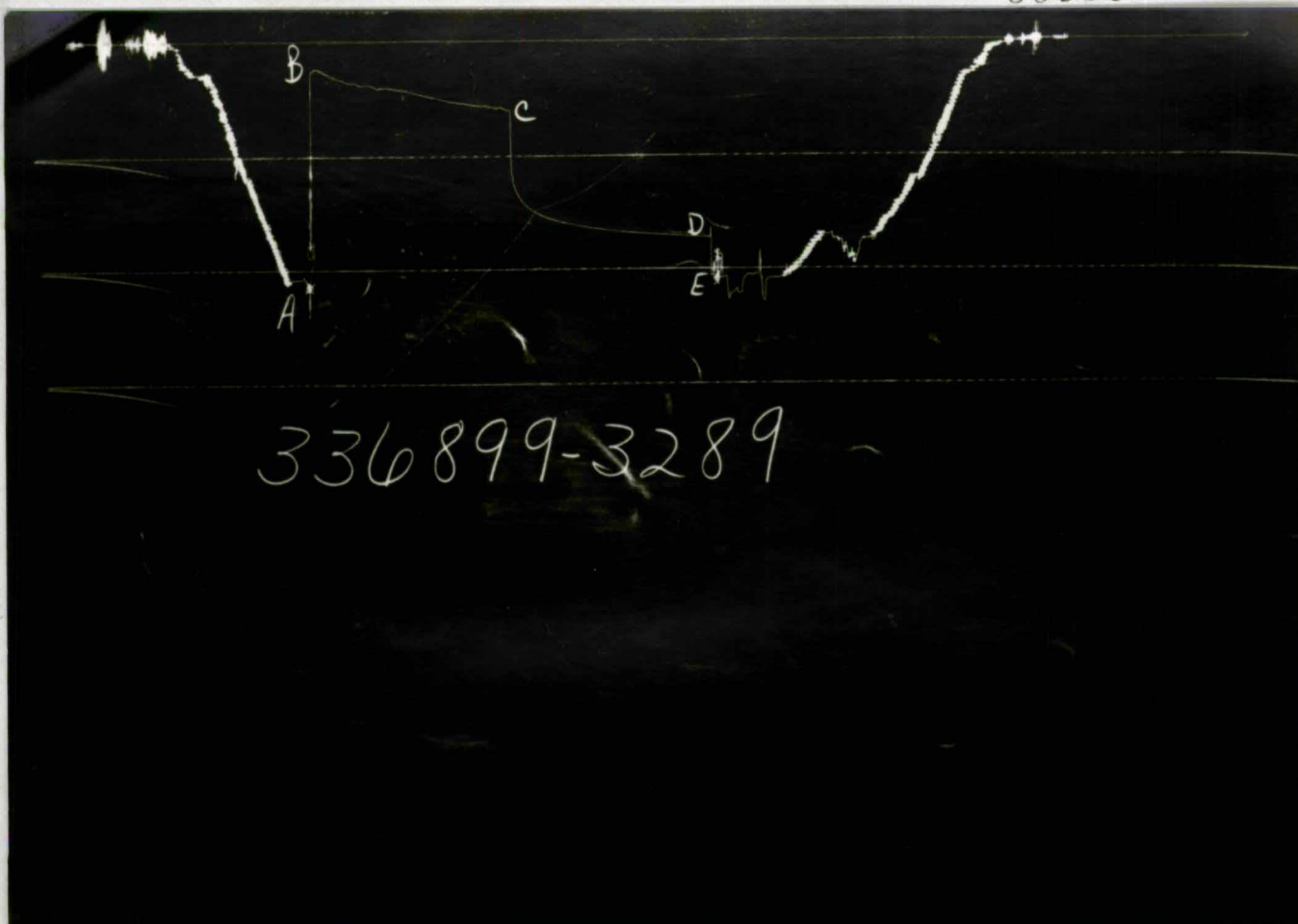


GAUGE NO: 3288 DEPTH: 3921.6 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2053	2056.6			
B	INITIAL FIRST FLOW	75	80.3			
C	FINAL FIRST FLOW	521	522.3	240.0	239.4	F
C	INITIAL FIRST CLOSED-IN	521	522.3			
D	FINAL FIRST CLOSED-IN	1688	1694.7	240.0	240.6	C
E	FINAL HYDROSTATIC	2057	2048.4			

00006

06E



336899-3289

GAUGE NO: 3289 DEPTH: 3997.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2086	2081.0			
B	INITIAL FIRST FLOW	261	274.1	240.0	239.4	F
C	FINAL FIRST FLOW	614	605.1			
C	INITIAL FIRST CLOSED-IN	614	605.1	240.0	240.6	C
D	FINAL FIRST CLOSED-IN	1724	1719.7			
E	FINAL HYDROSTATIC	2086	2070.8			

00007

EQUIPMENT & HOLE DATAFORMATION TESTED: MURTA MEMBER

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 55.0ALL DEPTHS MEASURED FROM: KB

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 8.500ELEVATION (ft): 164.0TOTAL DEPTH (ft): 4000.0PACKER DEPTH(S) (ft): 3937. 3945FINAL SURFACE CHOKE (in): 0.50000BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.40MUD VISCOSITY (sec): 37

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 190 @ 3996.4 ftTICKET NUMBER: 33689900DATE: 1-1-85 TEST NO: 1TYPE DST: OPEN HOLEHALLIBURTON CAMP:
MOOMBATESTER: BRENT HOOVERWITNESS: AL GARRIES

DRILLING CONTRACTOR:

S AND T DRILLING COMPANY #21**FLUID PROPERTIES FOR
RECOVERED MUD & WATER**

SOURCE

RESISTIVITY

CHLORIDES

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

SAMPLER DATAP_{sig} AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIESOIL GRAVITY (°API): 41.3 @ 60°F

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

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED:280' OF OIL1500' OF OIL AND WATERMEASURED FROM
TESTER VALVE**REMARKS:**

LEGAL LOCATION = LAT. 28 DEGREES 31' 50.0"SOUTH

LONG. 140 DEGREES 21' 29.6" EAST.

[illegible]

00009

TICKET NO: 33689900

CLOCK NO: 32069 HOUR: 24



GAUGE NO: 3896

DEPTH: 3900.6

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						FIRST CLOSED-IN - CONTINUED					
B	1	0.0	15.5			24	45.0	535.4	4.7	37.9	0.800
	2	10.0	92.8	77.3		25	50.0	536.5	5.9	41.3	0.763
	3	20.0	153.6	60.8		26	55.0	536.5	5.9	44.7	0.729
	4	30.0	199.5	45.9		27	60.0	536.5	5.9	48.0	0.698
	5	40.0	231.1	31.5		28	70.0	536.5	5.9	54.1	0.646
	6	50.0	248.0	16.9		29	80.0	536.5	5.9	59.9	0.601
	7	60.0	265.8	17.8		30	90.0	536.5	5.9	65.4	0.563
	8	70.0	281.3	15.5		31	100.0	536.5	5.9	70.5	0.531
	9	80.0	298.6	17.3		32	110.0	536.5	5.9	75.4	0.502
	10	90.0	314.6	16.0		33	120.0	536.5	5.9	79.9	0.476
	11	100.0	332.9	18.2		34	135.0	536.5	5.9	86.3	0.443
	12	110.0	348.9	16.0		35	150.0	536.5	5.9	92.2	0.414
	13	120.0	364.4	15.5		36	165.0	537.6	7.0	97.7	0.389
	14	130.0	378.6	14.2		37	180.0	537.6	7.0	102.7	0.367
	15	140.0	395.5	16.9		38	195.0	537.6	7.0	107.5	0.348
	16	150.0	410.4	14.9		39	210.0	537.6	7.0	111.9	0.330
	17	160.0	424.5	14.2		40	225.0	537.6	7.0	116.0	0.315
	18	170.0	439.6	15.1		D 41	240.6	539.6	9.0	120.0	0.300
	19	180.0	452.9	13.3							
	20	190.0	466.7	13.7							
	21	200.0	480.6	14.0							
	22	210.0	493.2	12.6							
	23	220.0	506.3	13.1							
	24	230.0	519.6	13.3							
C	25	239.4	530.6	11.0							
FIRST CLOSED-IN											
C	1	0.0	530.6								
	2	1.0	532.4	1.8	1.0	2.361					
	3	2.0	532.9	2.3	2.0	2.087					
	4	3.0	532.9	2.3	3.0	1.904					
	5	4.0	532.9	2.3	4.0	1.780					
	6	5.0	532.9	2.3	4.9	1.690					
	7	6.0	532.9	2.3	5.8	1.613					
	8	7.0	532.9	2.3	6.8	1.545					
	9	8.0	532.9	2.3	7.7	1.493					
	10	9.0	532.9	2.3	8.7	1.441					
	11	10.0	532.9	2.3	9.6	1.395					
	12	12.0	532.9	2.3	11.4	1.322					
	13	14.0	532.9	2.3	13.2	1.257					
	14	16.0	534.2	3.6	15.0	1.202					
	15	18.0	534.2	3.6	16.7	1.155					
	16	20.0	534.2	3.6	18.4	1.113					
	17	22.0	534.2	3.6	20.2	1.074					
	18	24.0	534.2	3.6	21.8	1.041					
	19	26.0	534.2	3.6	23.5	1.008					
	20	28.0	534.2	3.6	25.0	0.981					
	21	30.0	534.2	3.6	26.7	0.953					
	22	35.0	535.4	4.7	30.5	0.894					
	23	40.0	535.4	4.7	34.3	0.844					

REMARKS:

00010

TICKET NO: 33689900

CLOCK NO: 7407 HOUR: 24



GAUGE NO: 3288

DEPTH: 3921.6

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						FIRST CLOSED-IN -- CONTINUED					
B	1	0.0	80.3			21	30.0	1464.8	942.5	26.7	0.953
1	2	7.4	100.2	19.9		22	35.0	1485.0	962.6	30.6	0.894
	3	10.0	135.2	35.0		23	40.0	1502.4	980.1	34.3	0.844
1	4	16.3	142.0	6.9		24	45.0	1518.4	996.0	37.9	0.801
	5	20.0	160.4	18.4		25	50.0	1531.2	1008.8	41.4	0.762
	6	30.0	202.7	42.3		26	55.0	1544.5	1022.1	44.7	0.728
	7	40.0	235.8	33.2		27	60.0	1554.6	1032.3	48.0	0.698
	8	50.0	252.0	16.2		28	70.0	1573.2	1050.9	54.2	0.645
	9	60.0	267.7	15.7		29	80.0	1588.5	1066.2	60.0	0.601
	10	70.0	282.3	14.6		30	90.0	1602.0	1079.6	65.4	0.564
	11	80.0	297.8	15.5		31	100.0	1613.7	1091.4	70.5	0.531
	12	90.0	315.5	17.7		32	110.0	1623.7	1101.3	75.4	0.502
	13	100.0	329.9	14.4		33	120.0	1631.9	1109.5	79.9	0.476
	14	110.0	346.0	16.2		34	135.0	1645.1	1122.8	86.3	0.443
	15	120.0	359.3	13.3		35	150.0	1654.9	1132.5	92.2	0.414
	16	130.0	375.2	15.9		36	165.0	1663.7	1141.4	97.7	0.389
	17	140.0	390.5	15.3		37	180.0	1670.8	1148.5	102.8	0.367
	18	150.0	404.9	14.4		38	195.0	1678.3	1156.0	107.5	0.348
	19	160.0	419.5	14.6		39	210.0	1685.0	1162.6	111.9	0.330
	20	170.0	431.9	12.4		40	225.0	1690.0	1167.7	116.0	0.315
	21	180.0	446.2	14.4		D 41	240.6	1694.7	1172.3	120.0	0.300
	22	190.0	461.3	15.0							
	23	200.0	472.8	11.5							
	24	210.0	486.1	13.3							
	25	220.0	498.2	12.2							
	26	230.0	510.0	11.7							
C	27	239.4	522.3	12.4							
FIRST CLOSED-IN											
C	1	0.0	522.3								
	2	1.0	1003.5	481.2	1.0	2.382					
	3	2.0	1105.5	583.2	2.0	2.076					
	4	3.0	1150.2	627.9	2.9	1.913					
	5	4.0	1193.4	671.0	4.0	1.782					
	6	5.0	1229.2	706.9	4.9	1.688					
	7	6.0	1249.6	727.2	5.8	1.613					
	8	7.0	1273.0	750.7	6.8	1.544					
	9	8.0	1290.9	768.6	7.8	1.488					
	10	9.0	1304.4	782.1	8.7	1.441					
	11	10.0	1318.6	796.2	9.6	1.397					
	12	12.0	1344.7	822.3	11.5	1.320					
	13	14.0	1364.2	841.8	13.2	1.257					
	14	16.0	1381.9	859.5	15.0	1.202					
	15	18.0	1397.3	875.0	16.7	1.155					
	16	20.0	1410.6	888.3	18.5	1.113					
	17	22.0	1423.9	901.5	20.1	1.075					
	18	24.0	1435.0	912.6	21.8	1.040					
	19	26.0	1446.0	923.7	23.5	1.009					
	20	28.0	1457.1	934.7	25.1	0.979					

LEGEND:

1 STAIR-STEP

REMARKS:

00011

TICKET NO: 33689900

CLOCK NO: 7499 HOUR: 24



GAUGE NO: 3289

DEPTH: 3997.0

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						FIRST CLOSED-IN - CONTINUED						
B	1	0.0	274.1			24	45.0	1548.3	943.2	37.9	0.801	
	2	10.0	245.3	-28.8		25	50.0	1560.3	955.2	41.4	0.763	
	3	20.0	287.0	41.8		26	55.0	1572.3	967.2	44.7	0.729	
	4	30.0	321.1	34.1		27	60.0	1581.9	976.8	48.0	0.698	
	5	40.0	344.2	23.1		28	70.0	1598.5	993.4	54.2	0.645	
	6	50.0	360.7	16.5		29	80.0	1615.1	1010.0	59.9	0.601	
	7	60.0	384.2	23.5		30	90.0	1627.1	1022.0	65.4	0.563	
	8	70.0	379.3	-4.8		31	100.0	1639.1	1034.0	70.5	0.531	
	9	80.0	410.3	31.0		32	110.0	1648.9	1043.9	75.3	0.502	
	10	90.0	405.1	-5.3		33	120.0	1658.5	1053.5	79.9	0.476	
	11	100.0	414.5	9.5		34	135.0	1670.5	1065.5	86.3	0.443	
	12	110.0	425.9	11.4		35	150.0	1681.4	1076.4	92.2	0.414	
	13	120.0	444.0	18.0		36	165.0	1689.7	1084.7	97.7	0.389	
	14	130.0	461.1	17.1		37	180.0	1697.4	1092.3	102.7	0.367	
	15	140.0	482.0	20.9		38	195.0	1703.9	1098.9	107.5	0.348	
	16	150.0	491.4	9.5		39	210.0	1709.6	1104.6	111.9	0.330	
	17	160.0	513.4	22.0		40	225.0	1714.6	1109.6	116.0	0.315	
	18	170.0	529.0	15.6		D	41	240.6	1719.7	1114.6	120.0	0.300
	19	180.0	538.9	9.9								
	20	190.0	550.5	11.6								
	21	200.0	559.6	9.0								
	22	210.0	564.8	5.3								
	23	220.0	583.1	18.2								
	24	230.0	586.6	3.5								
C	25	239.4	605.1	18.5								
FIRST CLOSED-IN												
C	1	0.0	605.1									
	2	1.0	1137.6	532.5	1.0	2.399						
	3	2.0	1181.4	576.4	2.0	2.080						
	4	3.0	1245.6	640.6	3.0	1.907						
	5	4.0	1261.8	656.7	4.0	1.779						
	6	5.0	1285.2	680.1	4.9	1.688						
	7	6.0	1307.9	702.8	5.8	1.614						
	8	7.0	1325.3	720.3	6.8	1.545						
	9	8.0	1338.0	732.9	7.7	1.490						
	10	9.0	1348.0	743.0	8.7	1.440						
	11	10.0	1362.7	757.6	9.6	1.396						
	12	12.0	1384.5	779.4	11.4	1.322						
	13	14.0	1404.8	799.7	13.3	1.257						
	14	16.0	1421.4	816.3	15.0	1.202						
	15	18.0	1436.7	831.6	16.8	1.155						
	16	20.0	1450.2	845.2	18.5	1.113						
	17	22.0	1463.5	858.5	20.2	1.074						
	18	24.0	1472.9	867.9	21.8	1.040						
	19	26.0	1482.5	877.5	23.5	1.009						
	20	28.0	1491.0	886.0	25.1	0.979						
	21	30.0	1498.3	893.2	26.7	0.953						
	22	35.0	1518.6	913.5	30.5	0.894						
	23	40.0	1533.8	928.8	34.3	0.844						

REMARKS:

00012

968

TICKET NO. 33689900

		O.D.	I.D.	LENGTH	DEPTH
1		DRILL PIPE.....	4.500	3.826	3351.3
3		DRILL COLLARS.....	6.250	2.375	485.3
51		PUMP OUT REVERSING SUB.....		1.0	3836.0
3		DRILL COLLARS.....	6.250	2.375	30.7
50		IMPACT REVERSING SUB.....		1.0	3867.4
3		DRILL COLLARS.....	6.250	2.375	31.2
5		CROSSOVER.....	5.750		1.0
80		AP RUNNING CASE.....	5.000	2.250	4.1
5		CROSSOVER.....	5.000	2.200	1.0
12		DUAL CIP VALVE.....	5.000	0.870	4.9
97		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
80		AP RUNNING CASE.....	5.000	2.250	4.1
15		JAR.....	5.000	1.750	5.0
16		VR SAFETY JOINT.....	5.000	1.000	2.8
70		OPEN HOLE PACKER.....	5.000	1.530	5.8
18		DISTRIBUTOR VALVE.....	5.000	1.680	2.0
70		OPEN HOLE PACKER.....	5.000	1.530	5.8
19		ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3
5		CROSSOVER.....			1.0
3		DRILL COLLARS.....	6.250	2.375	30.6
5		CROSSOVER.....			1.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	13.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1
TOTAL DEPTH					4000.0

EQUIPMENT DATA

00013



TICKET NO. 33690000
05-JUN-85
MOOMBA

FORMATION TESTING SERVICE REPORT

BIRLA		2	2	4075.6 - 4098.0		DELHI/SANTOS	
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL		LEASE OWNER/COMPANY NAME	
LEGAL LOCATION SEC. - TWP. - RNG.	SEE REMARKS	FIELD AREA	COOPER BASIN	COUNTY	SOUTH AUSTRALIA	STATE	AUSTRALIA OR

B

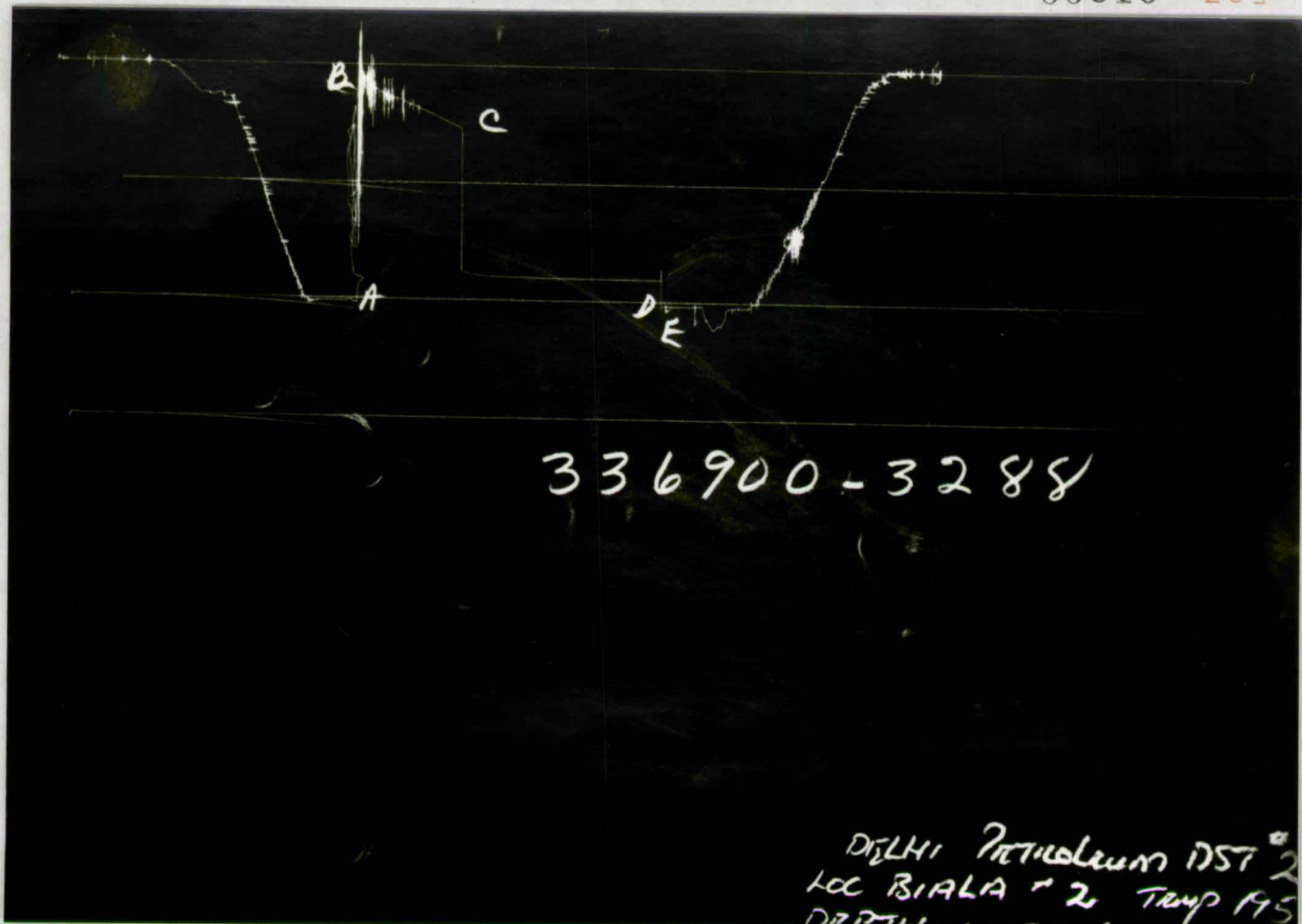
C

D

336900-3896

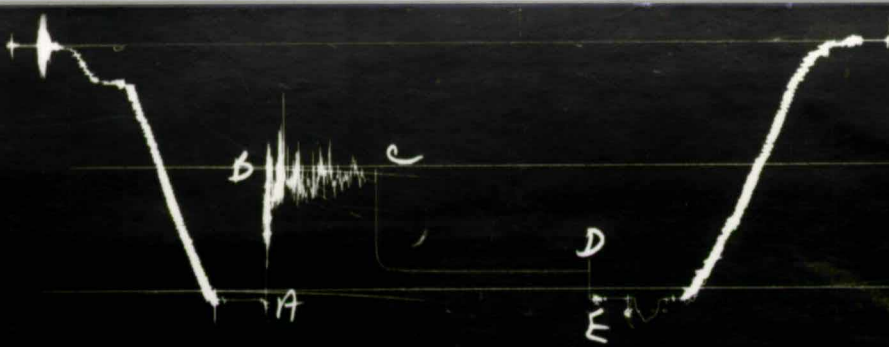
DELHI Petroleum DST
LOC BIALA # 2GAUGE NO: 3896 DEPTH: 4031.1 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		124.8			
C	FINAL FIRST FLOW	552	569.4	122.0	122.5	F
C	INITIAL FIRST CLOSED-IN	552	569.4			
D	FINAL FIRST CLOSED-IN		559.7	238.0	237.5	C
E	FINAL HYDROSTATIC					



GAUGE NO: 3288 DEPTH: 4052.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2022	2015.0			
B	INITIAL FIRST FLOW	128	111.3	122.0	122.5	F
C	FINAL FIRST FLOW	530	533.0			
C	INITIAL FIRST CLOSED-IN	530	533.0	238.0	237.5	C
D	FINAL FIRST CLOSED-IN	1817	1811.3			
E	FINAL HYDROSTATIC	2039	2031.6			



336900-3289

DILMI PETROLIUM DST
DEPTH 4095
24 HR 7499
CURSE 3289

GAUGE NO: 3289 DEPTH: 4095.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2076	2070.8			
B	INITIAL FIRST FLOW		813.4			
C	FINAL FIRST FLOW	1124	1013.5	122.0	122.5	F
C	INITIAL FIRST CLOSED-IN	1124	1013.5			
D	FINAL FIRST CLOSED-IN	1860	1852.2	238.0	237.5	C
E	FINAL HYDROSTATIC	2080	2074.5			

00017

EQUIPMENT & HOLE DATA

FORMATION TESTED: NAMUR SANDSTONENET PAY (ft): 22.0GROSS TESTED FOOTAGE: 22.4ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 8.500ELEVATION (ft): 164.0TOTAL DEPTH (ft): 4098.0PACKER DEPTH(S) (ft): 4068. 4076FINAL SURFACE CHOKE (in): 0.50000BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.40MUD VISCOSITY (sec): 37

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 195 @ 4094.0 ftTICKET NUMBER: 33690000DATE: 1-3-85 TEST NO: 2TYPE DST: OPEN HOLE

HALLIBURTON CAMP:

MOOMBATESTER: B. HOOVER
W. WILTSHIRE-BAKERWITNESS: AL GARRIEA

DRILLING CONTRACTOR:

S & T DRILLING RIG #21FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>SAMPLE CHAMBER</u>	<u>1.400 @ 81 °F</u>	_____ ppm
<u>DRILL STRING</u>	<u>1.600 @ 83 °F</u>	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstlg AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 39.9 @ 60 °F

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

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED:

1330' OF OIL, WATER AND EMULSION

MEASURED FROM
TESTER VALVE

REMARKS:

TEST WAS CONDUCTED ON 3-JAN-85

CHARTS INDICATE PLUGGING OF THE ANCHOR PIPE PERFORATIONS OCCURRED DURING THE FLOW PERIOD.

LEGAL LOCATION: LAT. 28 DEGREES 31' 50.0"S, LONG. 140 DEGREES 21' 29.6"E

00019

TICKET NO: 33690000

CLOCK NO: 32069 HOUR: 24



GAUGE NO: 3896

DEPTH: 4031.1

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	124.8			
2	20.0	247.5	122.7		
3	40.0	311.7	64.2		
4	60.0	357.7	45.9		
5	80.0	418.2	60.6		
6	100.0	485.6	67.3		
7	120.0	551.8	66.2		
C 8	122.5	569.4	17.6		
FIRST CLOSED-IN					
C 1	0.0	569.4			
D 2	237.5	559.7	-9.7	80.8	0.181

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

00020

TICKET NO: 33690000

CLOCK NO: 7407 HOUR: 24



GAUGE NO: 3288

DEPTH: 4052.2

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	111.3			
2	20.0	199.6	88.3		
3	40.0	279.9	80.3		
4	60.0	329.6	49.8		
5	80.0	392.9	63.3		
6	100.0	460.0	67.0		
7	120.0	524.3	64.4		
C 8	122.5	533.0	8.6		
FIRST CLOSED-IN					
C 1	0.0	533.0			
2	1.0	1756.0	1223.0	1.0	2.077
3	2.0	1760.0	1227.0	2.0	1.792
4	3.0	1761.9	1229.0	3.0	1.615
5	4.0	1763.1	1230.1	3.9	1.501
6	5.0	1763.3	1230.3	4.8	1.405
7	6.0	1764.2	1231.2	5.7	1.329
8	7.0	1764.2	1231.2	6.6	1.269
9	8.0	1764.6	1231.6	7.5	1.214
10	9.0	1771.9	1238.9	8.4	1.164
11	10.0	1773.2	1240.3	9.2	1.123
12	12.0	1775.4	1242.5	10.9	1.050
13	14.0	1777.4	1244.5	12.6	0.989
14	16.0	1781.0	1248.0	14.2	0.937
15	18.0	1783.2	1250.2	15.7	0.893
16	20.0	1784.5	1251.5	17.2	0.853
17	22.0	1785.8	1252.9	18.7	0.817
18	24.0	1787.6	1254.6	20.1	0.785
19	26.0	1787.8	1254.9	21.4	0.757
20	28.0	1787.8	1254.9	22.8	0.730
21	30.0	1788.7	1255.8	24.1	0.706
22	35.0	1790.9	1258.0	27.2	0.653
23	40.0	1792.7	1259.7	30.1	0.609
24	45.0	1794.2	1261.3	32.9	0.571
25	50.0	1795.4	1262.4	35.5	0.538
26	55.0	1796.7	1263.7	37.9	0.509
27	60.0	1797.6	1264.6	40.3	0.483
28	70.0	1798.9	1265.9	44.5	0.439
29	80.0	1800.4	1267.5	48.4	0.403
30	90.0	1801.8	1268.8	51.9	0.373
31	100.0	1803.1	1270.1	55.1	0.347
32	110.0	1804.0	1271.0	57.9	0.325
33	120.0	1804.6	1271.7	60.6	0.306
34	135.0	1806.4	1273.5	64.2	0.280
35	150.0	1807.3	1274.3	67.4	0.259
36	165.0	1807.7	1274.8	70.3	0.241
37	180.0	1809.1	1276.1	72.9	0.225
38	195.0	1809.7	1276.8	75.2	0.212
39	210.0	1810.0	1277.0	77.4	0.200
40	225.0	1810.8	1277.9	79.3	0.189

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST CLOSED-IN - CONTINUED					
D 41	237.5	1811.3	1278.3	80.8	0.181

REMARKS:

00021

TICKET NO: 33690000



GAUGE NO: 3289

CLOCK NO: 7499 HOUR: 24

DEPTH: 4095.0

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	813.4								
C	2	122.5	1013.5	200.1							
FIRST CLOSED-IN											
C	1	0.0	1013.5								
	2	1.0	1751.7	738.2	1.0	2.093					
	3	2.0	1770.3	756.8	2.0	1.790					
	4	3.0	1782.3	768.8	3.0	1.615					
	5	4.0	1791.5	777.9	3.9	1.502					
	6	5.0	1797.8	784.3	4.8	1.406					
	7	6.0	1804.6	791.0	5.8	1.328					
	8	7.0	1808.7	795.2	6.6	1.269					
	9	8.0	1814.0	800.4	7.5	1.211					
	10	9.0	1817.2	803.7	8.4	1.164					
	11	10.0	1819.4	805.9	9.2	1.123					
	12	12.0	1824.2	810.7	11.0	1.048					
	13	14.0	1826.6	813.1	12.6	0.989					
	14	16.0	1829.3	815.7	14.1	0.937					
	15	18.0	1831.0	817.5	15.7	0.893					
	16	20.0	1833.2	819.7	17.2	0.852					
	17	22.0	1835.6	822.1	18.6	0.817					
	18	24.0	1836.9	823.4	20.1	0.785					
	19	26.0	1836.9	823.4	21.4	0.757					
	20	28.0	1837.1	823.6	22.8	0.731					
	21	30.0	1838.9	825.3	24.1	0.706					
	22	35.0	1841.0	827.5	27.2	0.653					
	23	40.0	1842.4	828.8	30.2	0.609					
	24	45.0	1843.2	829.7	32.9	0.571					
	25	50.0	1844.3	830.8	35.5	0.538					
	26	55.0	1845.0	831.4	38.0	0.509					
	27	60.0	1845.4	831.9	40.3	0.483					
	28	70.0	1846.7	833.2	44.6	0.439					
	29	80.0	1848.0	834.5	48.4	0.403					
	30	90.0	1848.9	835.4	51.9	0.373					
	31	100.0	1848.9	835.4	55.1	0.347					
	32	110.0	1848.9	835.4	58.0	0.325					
	33	120.0	1850.4	836.9	60.6	0.306					
	34	135.0	1851.3	837.8	64.2	0.280					
	35	150.0	1851.3	837.8	67.4	0.259					
	36	165.0	1851.3	837.8	70.3	0.241					
	37	180.0	1851.3	837.8	72.9	0.225					
	38	195.0	1851.3	837.8	75.2	0.212					
	39	210.0	1852.0	838.4	77.4	0.200					
	40	225.0	1852.0	838.4	79.3	0.189					
D	41	237.5	1852.2	838.6	80.8	0.181					

REMARKS:

FLOW PERIOD NOT SEGMENTED DUE TO SEVERE PLUGGING

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3482.1	
4		FLEX WEIGHT.....	6.250	2.375	484.8	
51		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	3966.1
4		FLEX WEIGHT.....	6.250	2.375	31.2	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	3998.3
4		FLEX WEIGHT.....	6.250	2.375	30.7	
5		CROSSOVER.....	5.750		1.0	
80		AP RUNNING CASE.....	5.000	2.250	4.1	4031.1
5		CROSSOVER.....	5.000	2.200	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	4.9	
97		SAMPLE CHAMBER.....	5.000	2.500	4.9	4042.0
33		DRAIN VALVE.....	5.000	2.200	0.9	
60		HYDROSPRING TESTER.....	5.000	0.750	5.3	4051.1
80		AP RUNNING CASE.....	5.000	2.250	4.1	4052.2
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	5.000	1.530	5.8	4067.8
18		DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70		OPEN HOLE PACKER.....	5.000	1.530	5.8	4075.6
19		ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	13.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4095.0
TOTAL DEPTH					4098.0	

EQUIPMENT DATA



WIRELINE REPORT

023

WELL: BIALA #2DATE: 30/9/87PROGRAM: STATIC GRADIENTPURPOSE OF WORK: Dummy Run check SLEEVE.

REPORT OF WORK PERFORMED: 1400 ON Location
Rig up w/L unit 092 Flow wire.
15:00 R.I.H. 1.75" Blind Box Doing
Pick ups Every 1500'. Run to
4690' KB. as PCR PROGRAM. tubing
Clear P.O.H.
Rig up 1.75" B. Shifting tool to
MAKE SURE SLEEVE was shut.
16:00 R.I.H. MAKE 3 passes by
SLEEVE. SLEEVE shut P.O.H.
PREPARE ELEMENTS FOR Static Gradient.
Flange below MASTER valve leaking oil.
I tightened it up. Ron Larkin

OPERATOR'S SIGNATURE

WORK PERFORMED BY: RON LARKIN of Expertest

WELL DATA:

Tubing Size: 2 7/8" FWHP: _____ SIWHP: 20 PSISub Surface S.V./Landing Nipple @ _____ S.S.D. @: 3773'"X" Nipple @ _____ "N"/"XN" Nipple @ _____ other P.S.N. 3741'Min I.D. 1.75 @ 3773' Packer @ 3807'Perforated Interval: 3950 - 3980'Forward to: Petroleum Engineering — Adelaide
Production Department — Moomba

5813

4 NOV 87

5504

0024



** BIALA 2 **

STATIC PRESSURE GRADIENT

TEST DATE: 30/9/87

TOP PRESSURE ELEMENT 56432/3000				BOTTOM PRESSURE ELEMENT 62040/3000		
DEPTH (FT.)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)
LUB	0.0120	13.1	----	0.0120	14.7	----
1000	0.2430	368.9	0.3558	0.2420	371.8	0.3571
1500	0.3610	551.4	0.3650	0.3590	553.1	0.3625
2000	0.4830	740.5	0.3781	0.4810	741.9	0.3777
2500	0.6470	995.0	0.5090	0.6450	995.7	0.5076
3000	0.8040	1238.8	0.4877	0.8030	1240.2	0.4890
3500	0.9580	1478.1	0.4735	0.9580	1480.2	0.4799
3965	1.0990	1697.1	0.4711	1.0990	1698.6	0.4697
LUB	0.0680	99.1	----	0.0680	101.8	----

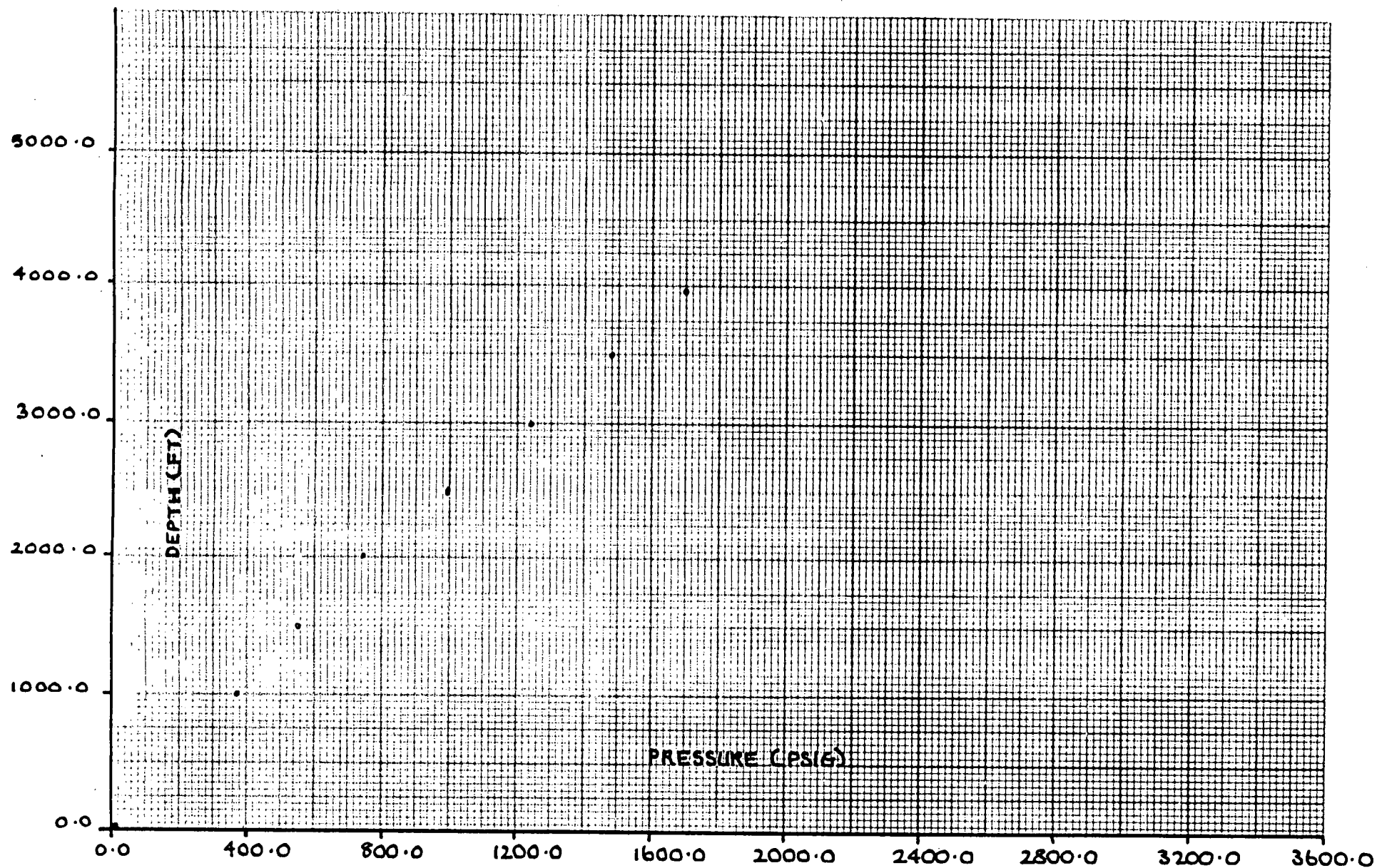
GENERAL REMARKS:

OK.

DWT IN: 20
DWT OUT: 103
MAX BHT: 196 F

ELEMENT 56432/3000 CALIBRATED 29.9.87
ELEMENT 62040/3000 CALIBRATED 29.9.87

BIALA # 2 — STATIC PRESSURE GRADIENT — 30 / 9 / 87
ELEMENT # 62040 / 3000 (BOT)



0025

WELL NAME: BIALP # 2

(MURTA)

STATIC GRADIENT SURVEY

DATE: 30/9/87

DOMS No. 1 DATA

ELEMENT NO. 56432 ELEMENT RANGE: 3000 PSE
RECORDED NO. 34083 X 15745 CLOCK DATA: 2395 X 34R
ENGAGE STYLUS: 16:48 DISENGAGE: 18:39

BOMB No. 2 DATA

ELEMENT No: 62040... ELEMENT RANGE: 3000...
RECORDED No: 14927... CLOCK DATA: 2180X3HR
ENGAGE STYLUS: 16:48 DISENGAGE: 18:39...

IN
LUBRICATOR DATA

PRESSURE WITH D.W.T.: 20 PSF 103 PSF
TIME PRESSURED: 17:00
TIME DEPRESSURED: 18:31

[illegible]

General Comments:

GOIQ

0029



**** BIALA #2 ****

STATIC PRESSURE GRADIENT

TEST DATE: 9/12/88

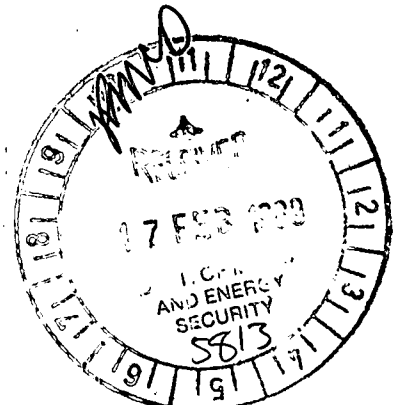
TOP PRESSURE ELEMENT 28514/3000				BOTTOM PRESSURE ELEMENT 29387/2975		
DEPTH (FT.)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)
LUB	0.0431	67.7	----	0.0460	64.5	----
1000	0.2864	439.7	0.3719	0.2975	439.9	0.3754
2000	0.5285	813.3	0.3736	0.5472	814.7	0.3748
3000	0.8202	1265.6	0.4523	0.8478	1268.0	0.4533
3500	0.9671	1493.6	0.4560	0.9992	1497.0	0.4580
3750	1.0415	1609.0	0.4618	1.0756	1612.7	0.4628
3965	1.1079	1712.0	0.4792	1.1449	1717.7	0.4884
LUB	0.0884	136.6	----	0.0958	138.6	----

GENERAL REMARKS:

T 196 F

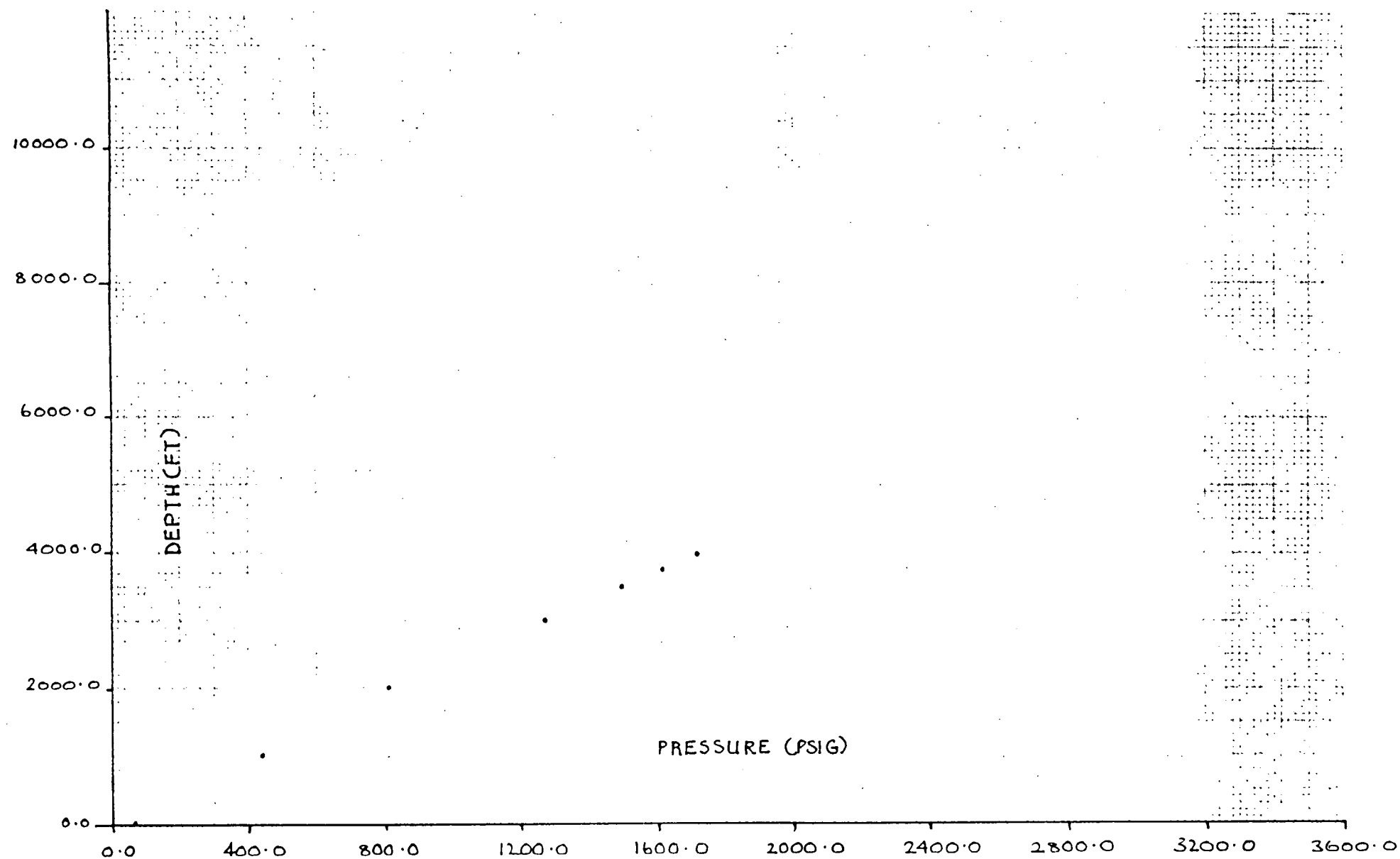
DWT IN: 46
DWT OUT: 148
MAX BHT: 196 F

ELEMENT 28514/3000 CALIBRATED 5.12.88
ELEMENT 29387/2975 CALIBRATED 5.12.88



BIALA # 2 - STATIC PRESSURE GRADIENT - 9/12/88

ELEMENT # 29387/2975 (BOT)



BIALA at 2

SANTOS LTD.

DATE: 9/12/88

ELEMENT No. 28514 ELEMENT RANGE: 3000 PSI
RECORDER No. 14631 CLOCK DATA: A-12046 < 3 HR.
ENGAGE SYLUS: 13:10 DISENGAGE: 14:59

ELEMENT No. 29387 ELEMENT RANGE: 2975^{PS1}
RECORDER No. 59791 CLOCK DATA: A-12047x3^{me}
ENGAGE SYLUS: 13:10 DISENGAGE: 14:59

PRESSURE WITH D.W.T. IN: 46^{PSI} OUT: 149^{PSI}
TIME PRESSURED: 13:10
TIME DEPRESSURED: 14:59

[illegible]

GENERAL REMARKS: MAX. BOTTOM HOLE TEMP. = 196 °F.

PD 31

0025

0030

WIRELINE REPORT

CLIENT **SANTOS**

WELL **BIALA #2**

DATE **9/12/88**

PROGRAMME **BLIND BOX RUN**

PURPOSE OF WORK **ENSURE TUBING IS CLEAR PRIOR TO STATIC GRADIENT**

REPORT OF WORK PERFORMED

11:40 ARRIVE AT LOCATION

RIG UP W/L UNIT

12:20 R/H WITH 1.75" BLIND BOX TO 4690' KB. - TUBING CLEAR

12:40 POOH

13:00 AT SURFACE

DEPRESS. LUB, PREPARE TO RUN AMERDAS

R. Moore
 Operator's Signature

WORKED PERFORMED BY

R. Moore

OF **EXPERTEST**

WELL DATA:

Tubing Size **2 7/8**

FWHP

SIWHP **1020 KPA**

Subsurface S.V./Landing Nipple @

S.S.D. @ **3773'**

'X' Nipple @

'N'/XN' Nipple @

Other RMP SEAT @ **3741'**

Min. I.D. **2.29"**

@ **3741'**

Packer @ **3807'**

Perforated Interval: **3950 - 3980**

0031

WIRELINE REPORT

CLIENT Santos WELL Biala #2 DATE 4.3.89

PROGRAMME Swabbing
 PURPOSE OF WORK Dummy Run

REPORT OF WORK PERFORMED

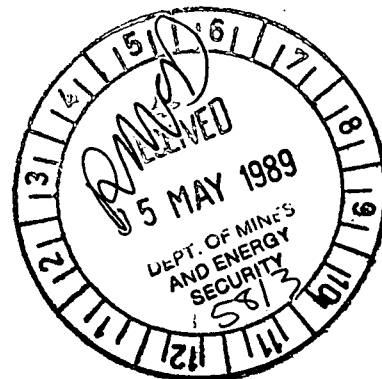
08.40 Arrive location & Rig up
wire line.
09.20 R-I-H with 1.75" Blind Box.
10.02 Pick up at 4100' & P.O.H.
10.15 ARRIVE in hub & Recover
tools and go to gradient.

Andrew Cilento
 Operator's Signature

WORKED PERFORMED BY Andrew Cilento OF EXPERTEST

WELL DATA:

Tubing Size 2 3/4" FWHP Ø SIWHP Ø
 Subsurface S.V./Landing Nipple @ SSD @
 'X' Nipple @ 'N'/XN' Nipple @ Other @ @
 Min. I.D. @ @ Packer @ @
 Perforated Interval:



0032

WIRELINE & WELL TESTING SERVICE

PO BOX 354 MANDALAY 5032

PH. (08) 354 0488 TELEX AA87180

FAX (08) 43 7408

122 STURMUND ROAD MANDALAY

SOUTH AUSTRALIA 5032

Tested Saturday, 11th March 1989.

CLIENT	LOCATION	FORMATION
Santos Ltd.	BIALA 2	0

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	28514	3000	4/ 2/89
Bottom	29387	2075	4/ 2/89

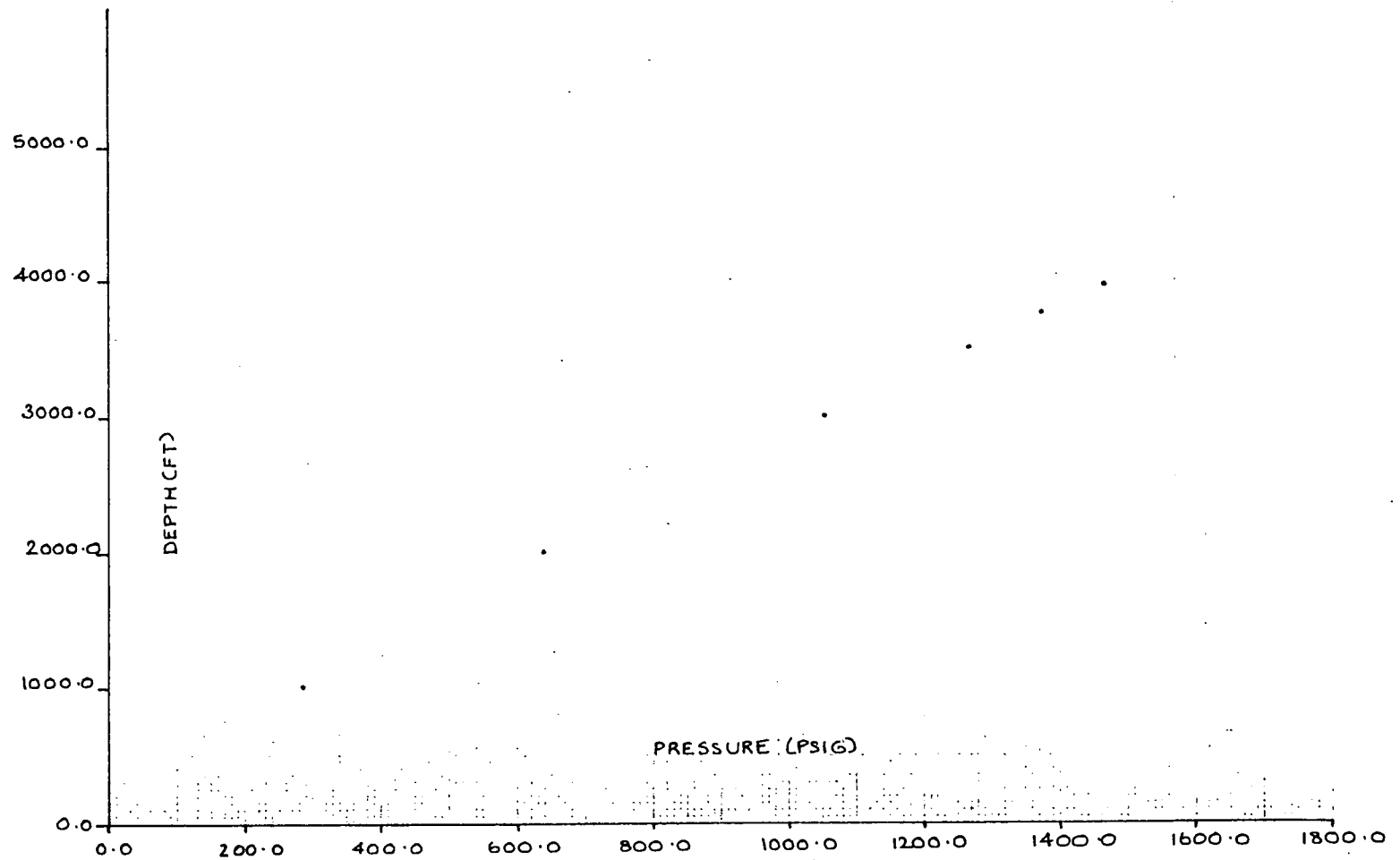
WELL DATA	
PARAMETER	VALUE
DWT In	0
DWT Out	0
Max RHT	190

DEPTH FT. KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000	0.1930	298.2	0.297	0.2030	286.3	0.294
2000	0.4160	641.6	0.343	0.4420	639.1	0.353
3000	0.6900	1064.2	0.423	0.7190	1054.1	0.415
3500	0.8260	1274.5	0.420	0.8610	1268.5	0.429
3750	0.8940	1379.7	0.421	0.9300	1372.9	0.418
3965	0.9550	1474.1	0.430	0.9910	1465.2	0.430

GENERAL REMARKS

BIALA # 2 - STATIC PRESSURE GRADIENT - 11/3/89

ELEMENT # 29387 / 2975 (BOT)





DATE 11-3-89

GENERAL REMARKS: MBHT - 190°F

PETROLEUM ENGINEERING

SWAB REPORT

Date 11-3-89

Well No. B1A2A #2

S.I. Hours _____

T.P.S.I. ~~0~~

C.P.S.I. _____

[illegible]

0035

0036

WIRELINE REPORT

CLIENT **SANTOS**

WELL **BIALA #2**

DATE **12.3.89**

PROGRAMME **Inflow Test**

PURPOSE OF WORK **STATIC GRADIENT & SWABBING**

REPORT OF WORK PERFORMED

09.40 Arrive on location & Prepare B.H.P. Gauges.

09.47 R.I.H. & Perform static Gradient

11.05 STATIC GRADIENT completed.

12.00 change Tool strings.

12.30 Retie Swabbing line Rope Socket & strip 100' of Swabbing line.

13.30 Recommend Swabbing.
See attached Swabbing Report for details.

16.30 Secure lease & Return to Moomba.

Andrew Cilento
Operator's Signature

WORKED PERFORMED BY **Andrew Cilento** OF **EXPERTEST**

WELL DATA:

Tubing Size **2 7/8"** FWHP **0** SIWHP **0**

Subsurface S.V./Landing Nipple @ S.S.D. @

'X' Nipple @ 'N'/XN' Nipple @ Other @

Min. I.D. @ Packer @

Perforated Interval:

EXPRESS

WIRELINE & WELL TESTING SERVICE

PO BOX 354 MANDALAY A 5022

PH. (08) 354 0488 TELEX AAB7183

FAX (08) 43 7408

122 STOLMAN ROAD MANDALAY

SOUTH AUSTRALIA 5022

Tested Sunday, 12th March 1989.

CLIENT	LOCATION	FORMATION
Santos Ltd.	biala 2	0

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	28514	3000	4/ 2/89
Bottom	29387	2975	4/ 2/89

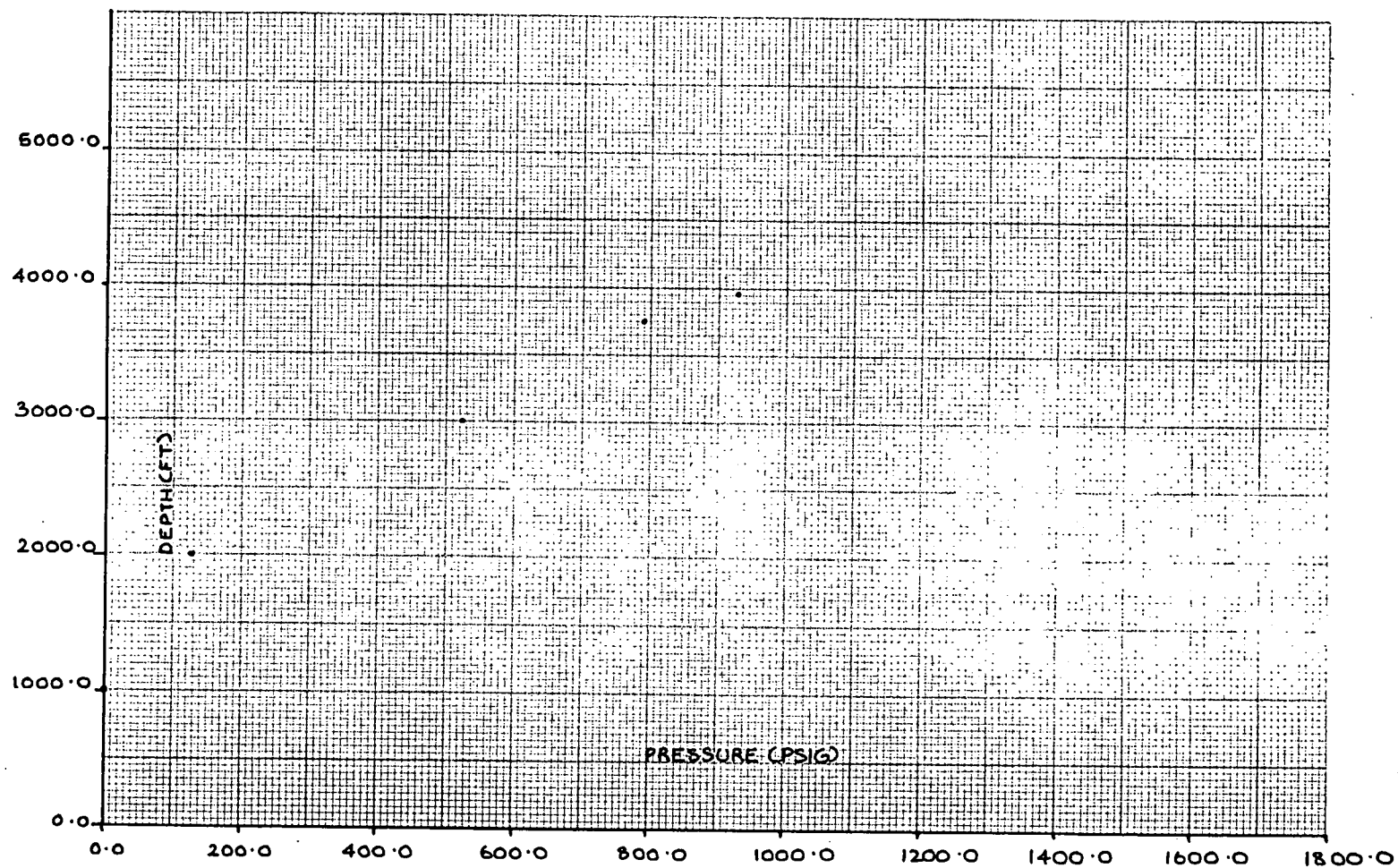
WELL DATA	
PARAMETER	VALUE
DWT In	0
DWT Out	0
Max BHT	198

DEPTH FT	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000	0.0030	5.8	0.005	0.0050	-0.6	0.007
2000	0.0900	139.7	0.134	0.0940	127.6	0.128
3000	0.3420	527.6	0.388	0.2650	524.7	0.397
3750	0.5180	798.9	0.362	0.5430	789.8	0.353
3965	0.6050	933.1	0.624	0.6250	927.7	0.642

GENERAL REMARKS

BIALA # 2 — STATIC PRESSURE GRADIENT — 12/3/89

ELEMENT # 29387/ 2975 (BOT)



Fm 5030

0038

0040

0041

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AAB7183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5033

Tested Sunday, 19th March 1989.

CLIENT	LOCATION	FORMATION
Santos Ltd.	BIALA 2	0

STATIC PRESSURE GRADIENT REPORT

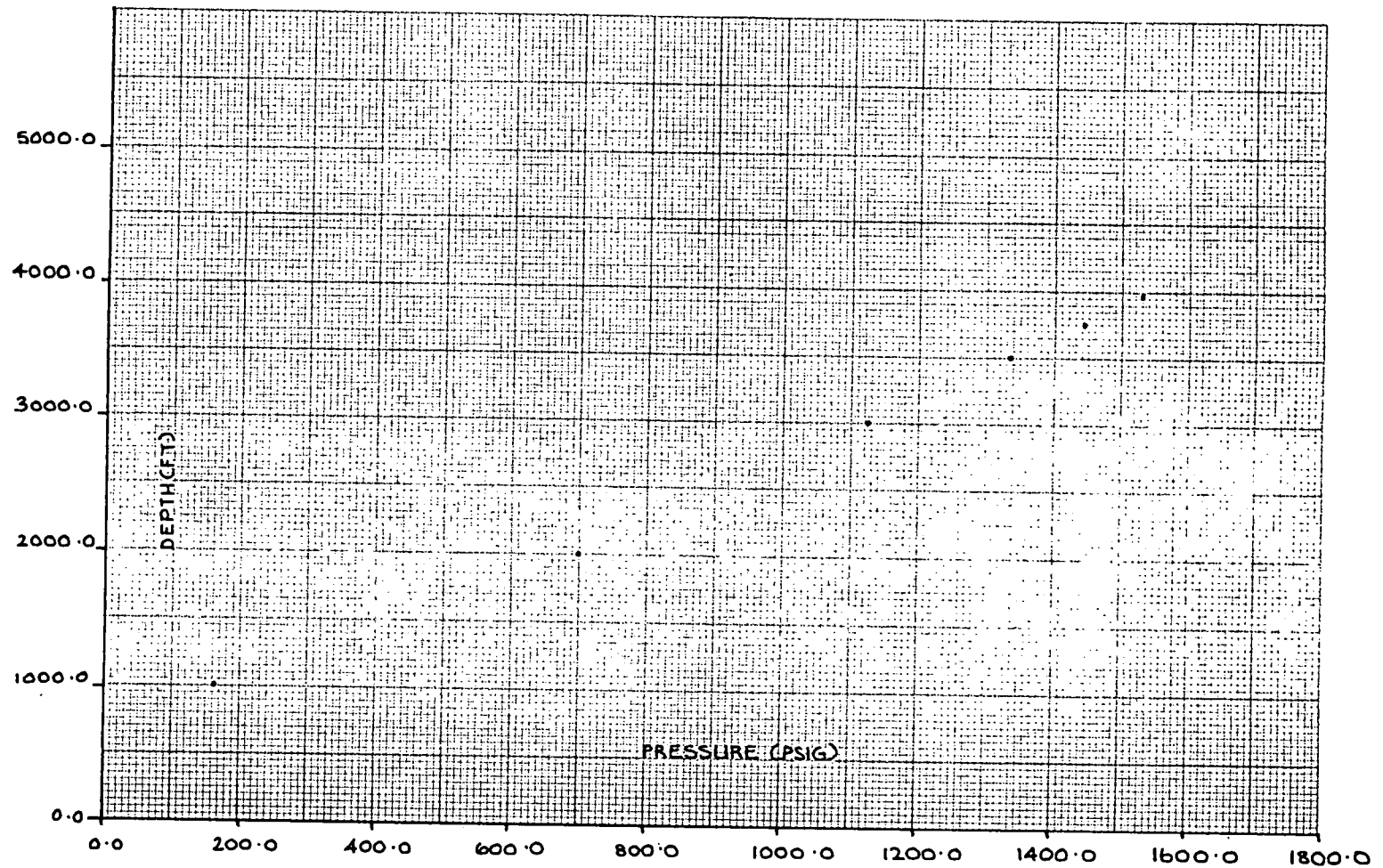
PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	28514	3000	4/ 2/89
Bottom	29387	2975	4/ 2/89

WELL DATA	
PARAMETER	VALUE
DWT In	0
DWT Out	0
Max BHT	196

DEPTH FT KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000	0.1060	164.3	0.163	0.2080	293.6	0.301
2000	0.4530	698.6	0.534	0.4710	682.3	0.389
3000	0.7300	1126.1	0.428	0.7500	1100.8	0.419
3500	0.8650	1334.8	0.417	0.8950	1319.9	0.438
3750	0.9350	1443.1	0.433	0.9630	1422.8	0.412
3965	0.9900	1528.3	0.396	1.0230	1513.7	0.423

GENERAL REMARKS

BIALA # 2 - STATIC PRESSURE GRADIENT - 19/3/89
ELEMENT # 28514/ 3000 (TOP)



Fm 5030



DATE 19.3.89

[illegible]

GENERAL REMARKS: MBHT - 196°F

0042

PETROLEUM ENGINEERING

SWAB REPORT


EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AAB7183

FAX (08) 43 7408

 138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Wednesday, 22nd March 1989.

CLIENT	LOCATION	FORMATION
Santos Ltd.	BIALA 2	0

STATIC PRESSURE GRADIENT REPORT

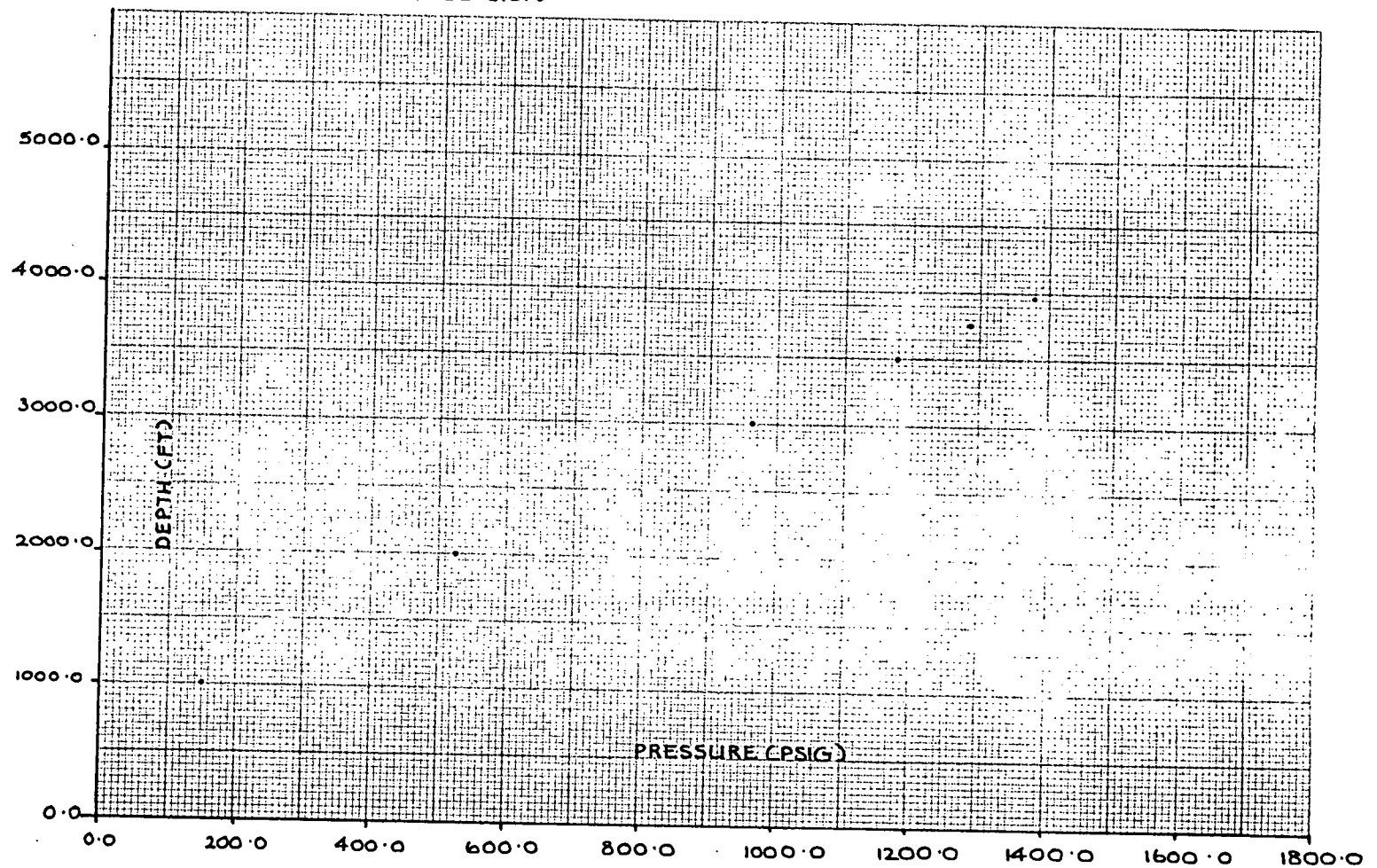
PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	57414	3000	12/ 3/89
Bottom	62039	3000	12/ 3/89

WELL DATA	
PARAMETER	VALUE
DWT In	0
DWT Out	0
Max BHT	196

DEPTH FT KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000	0.1010	151.1	0.000	0.1010	160.6	0.000
2000	0.3400	525.0	0.374	0.3290	529.0	0.368
3000	0.6200	961.6	0.437	0.5980	963.7	0.435
3500	0.7590	1178.0	0.433	0.7320	1180.0	0.433
3750	0.8270	1283.8	0.423	0.7980	1286.5	0.426
3965	0.8880	1378.6	0.441	0.8560	1380.1	0.435

GENERAL REMARKS

BIALA # 2 - STATIC PRESSURE GRADIENT - 22/3/89
ELEMENT # 57414/8000 (TOP)



Fm 5030

0040



WELL BIALA # 2.

[illegible]

GENERAL REMARKS: MBAT 196°F.

0047

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0498 TELEX AA87193

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5033

Tested Wednesday, 5th April 1989.

CLIENT	LOCATION	FORMATION
Santos Ltd.	BIALA 2	0

STATIC PRESSURE GRADIENT REPORT

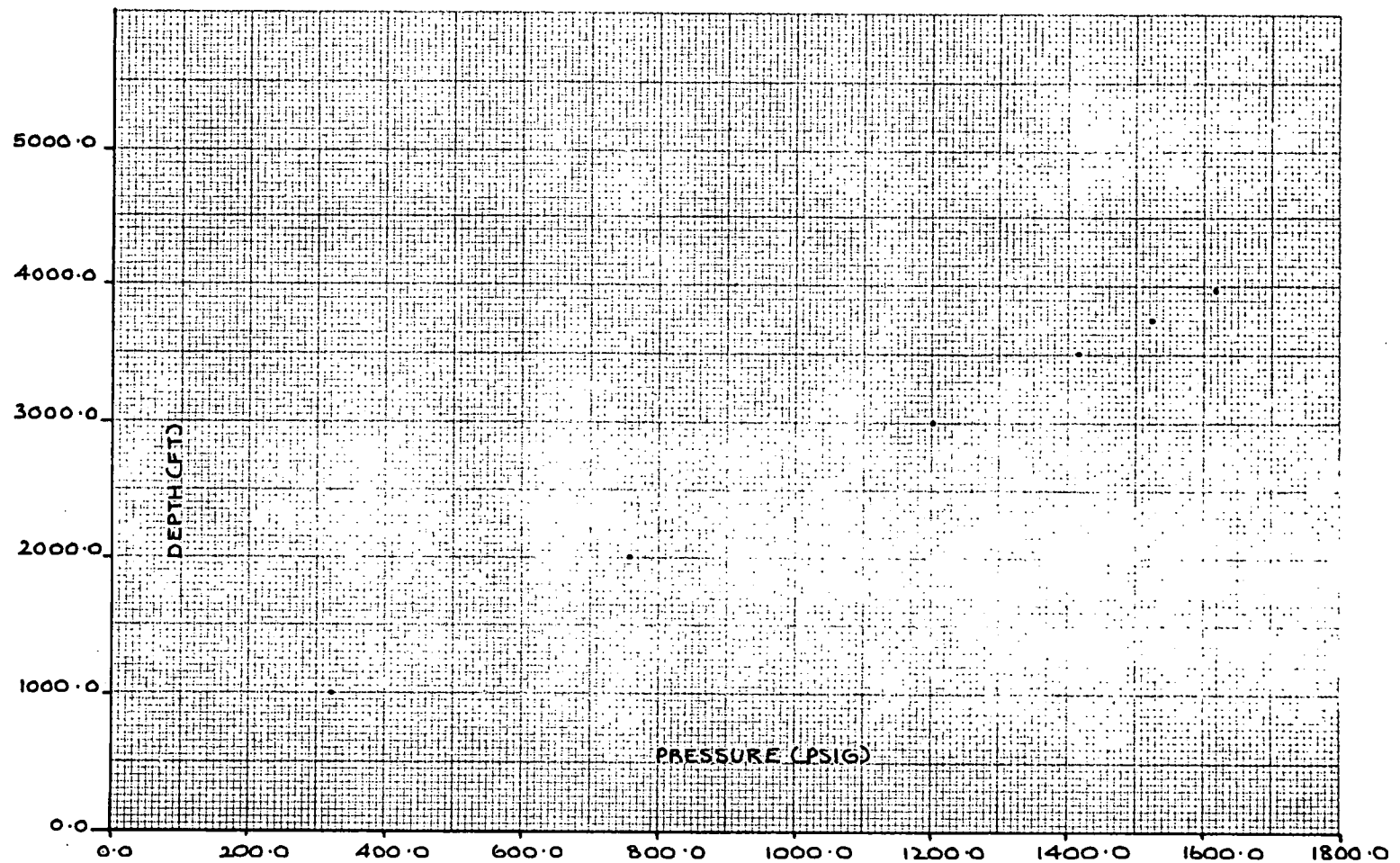
PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	57414	3000	12/ 3/89
Bottom	62039	3000	12/ 3/89

WELL DATA	
PARAMETER	VALUE
DWT In	0
DWT Out	0
Max BHT	198 f

DEPTH FT KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000	0.2100	321.8	0.329	0.2060	330.2	0.333
2000	0.4890	757.5	0.436	0.4760	766.6	0.436
3000	0.7740	1201.3	0.444	0.7480	1205.8	0.439
3500	0.9120	1416.0	0.429	0.8810	1420.4	0.429
3750	0.9800	1521.7	0.423	0.9470	1526.8	0.426
3965	1.0400	1615.0	0.434	1.0050	1620.2	0.435

GENERAL REMARKS

BIALA # 2 - STATIC PRESSURE GRADIENT - 5/4/89
ELEMENT # 57414/3000 (TOP)





DATE 5-4-89

GENERAL REMARKS: MBHT 198°F

PETROLEUM ENGINEERING

SWAB REPORT

Date 5.4.89

Well No. B1ALA #2

S.I. Hours _____

T.P.S.I._____

C.P.S.I._____

[illegible]

SANTOS LTD
39 GRENELL ST
ADELAIDE

PAE-0052

SUB-SURFACE PRESSURE SURVEY

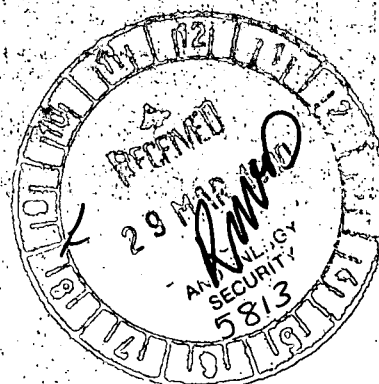
CO. SANTOS		<u>RUN 01 FIELD BIALA</u>	WELL 02
EFF DEPTH		WELL STAT	→ TOOL HUNG 3959'
CASING	-	CASING PRESS	→ ON BOTTOM 1650/5/4
LINER	-	TUBING PRESS	→ OFF BOTTOM 1400 10/4
DATE	890405	ELEMENT RANGE 0 - 3108	ZERO POINT
ELEVATION		ZONE	SHUT-IN
MAX TEMP		PICK-UP	ON-PROD
PERF	-	CAL SER NO. 57414	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	<u>BUILD-UP</u>

SURVEY DATA

CO. SANTOS				RUN 01 FIELD BIALA				WELL 02			
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
16:50	366.5	0.0	0.0	14:16	882.3	515.8	21.4	17:11	930.4	563.9	24.4
17:27	376.1	9.6	6.4	20:55	988.5	622.0	28.1	1:58	1056.5	690.0	33.1
17:56	395.1	28.6	1.1	9:04	1138.4	771.9	40.2	17:51	1221.9	855.4	49.0
18:27	412.9	46.4	1.6	2:42	1291.3	924.8	57.9	13:39	1360.7	994.2	68.8
19:00	431.3	64.8	2.2	0:22	1415.0	1048.5	79.5	0:22	1415.0	1048.5	79.5
19:36	451.7	85.2	2.8	10:34	1458.2	1091.7	89.7	10:34	1458.2	1091.7	89.7
20:30	478.2	111.7	3.7	20:57	1495.7	1129.2	100.1	20:57	1495.7	1129.2	100.1
21:46	516.8	150.4	4.9	8:01	1526.9	1160.4	111.2	8:01	1526.9	1160.4	111.2
23:09	555.6	189.1	6.3	14:00	1542.8	1176.3	117.2	14:00	1542.8	1176.3	117.2
1:24	615.2	248.7	8.6	0:00	0.0	0.0	0.0	0:00	0.0	0.0	0.0
3:07	658.3	291.8	10.3								
5:26	710.0	343.5	12.6								
8:15	769.8	403.3	15.4								
11:00	824.2	457.7	18.2								

LUB IN DWT = 0 PSI / OUT = 0 PSI

5813



SANTOS LTD
39 GRENFELL ST
ADELAIDE

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		*RUN 01 FIELD BIALA	WELL 02
EFF DEPTH		WELL STAT	TOOL HUNG 3959'
CASING	-	CASING PRESS	ON BOTTOM 1510 10/4
LINER	-	TUBING PRESS	OFF BOTTOM 1430 15/4
DATE	890410	ELEMENT RANGE 0 - 3108	ZERO POINT
ELEVATION		ZONE	SHUT-IN
MAX TEMP		PICK-UP	ON-PROD
PERF	-	CAL SER NO. 57414	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	BUILD-UP

SURVEY DATA

CO. SANTOS				RUN 01 FIELD BIALA				WELL 02			
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
15:10	1553.2	0.0	0.0	16:17	1656.2	103.0	25.1				
16:57	1557.8	4.6	1.8	19:21	1659.3	106.1	28.2				
20:42	1562.0	8.9	5.5	0:02	1662.9	109.7	32.9				
0:01	1565.6	12.4	8.9	7:38	1666.7	113.5	40.5				
4:36	1573.3	20.1	13.4	13:34	1670.1	117.0	46.4				
9:32	1580.2	27.1	18.4	22:54	1674.0	120.9	55.7				
9:38	1588.9	35.8	18.5	8:21	1675.4	122.3	65.2				
9:49	1598.0	44.8	18.6	22:00	1683.3	130.1	78.8				
10:03	1607.3	54.1	18.9	10:09	1683.4	130.2	91.0				
10:27	1621.2	68.1	19.3	22:23	1688.6	135.4	103.2				
11:06	1633.5	80.3	19.9	11:33	1685.9	132.8	116.4				
12:35	1646.3	93.1	21.4	14:30	1687.0	133.9	119.3				

LUB IN DWT = 0 PSI / OUT = 0 PSI

SANTOS LTD
39 GRENFELL ST
ADELAIDE

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS	RUN 01 FIELD BIALA	WELL 02
EFF. DEPTH	WELL STAT	TOOL HUNG 3959'
CASING	CASING PRESS	ON BOTTOM 1510 15/4
LINER	TUBING PRESS	OFF BOTTOM 0910 20/4
DATE 890421	ELEMENT RANGE 0 - 3108	ZERO POINT
ELEVATION	ZONE	SHUT-IN
MAX TEMP	PICK-UP	ON-PROD
PERF	CAL SER NO. 57414	MPP
TUBING		
UNITS ENGLISH	PURPOSE BUILD-UP	

SURVEY DATA

CO. SANTOS				RUN 01 FIELD BIALA				WELL 02			
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
15:10	1609.2	0.0	0.0	23:25	1692.2	83.0	8.2				
15:37	1618.0	8.8	.4	5:56	1695.8	86.6	14.8				
15:57	1623.6	14.4	.8	14:32	1698.4	89.2	23.4				
16:17	1607.0	-2.2	1.1	0:01	1699.3	90.1	32.8				
16:38	1597.9	-11.3	1.5	9:27	1703.8	94.6	42.3				
16:47	1617.4	8.2	1.6	21:56	1701.9	92.7	54.8				
16:59	1634.4	25.2	1.8	8:41	1704.1	94.9	65.5				
17:20	1652.1	42.8	2.2	20:28	1704.0	94.8	77.3				
17:48	1668.2	59.0	2.6	11:15	1706.3	97.1	92.1				
18:23	1677.8	68.6	3.2	0:41	1705.3	96.1	105.5				
19:31	1687.1	77.8	4.3	9:11	1707.2	98.0	114.0				

LUB IN DWT = 0 PSI / OUT = 90 PSI

LUB IN AMERADA = 0 PSI / OUT = 88 PSI

SANTOS LTD
39 GRENFELL ST
ADELAIDE

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		RUN 02 FIELD BIALA	WELL 02
EFF DEPTH		WELL STAT	TOOL HUNG 3950'
CASING	-	CASING PRESS	ON BOTTOM 1510 10/4
LINER	-	TUBING PRESS	OFF BOTTOM 1430 15/4
DATE 590410		ELEMENT RANGE 0 - 3224	ZERO POINT
ELEVATION		ZONE	SHUT-IN
MAX TEMP		PICK-UP	ON-PROD
PERF	-	CAL SER NO. 62039	MPP
TUBING	-		
UNITS ENGLISH		PURPOSE BUILD-UP	

SURVEY DATA

CO. SANTOS			RUN 02 FIELD BIALA			WELL 02		
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	
15:10	1549.3	0.0	0.0	22:17	1667.7	118.4	31.1	
17:00	1558.2	8.9	1.8	6:16	1671.8	122.5	35.1	
19:33	1565.3	16.0	4.4	16:35	1679.2	129.8	49.4	
0:36	1572.3	23.0	9.4	5:03	1681.8	132.5	61.9	
8:26	1584.0	34.7	17.3	18:15	1688.5	139.2	75.1	
9:11	1585.6	36.3	18.0	4:07	1688.3	138.9	84.9	
9:33	1602.7	53.3	18.4	14:19	1691.3	142.0	95.2	
9:59	1621.7	72.4	18.8	0:30	1695.2	145.8	105.3	
11:00	1641.8	92.5	19.8	10:57	1695.4	146.1	115.8	
13:02	1654.8	105.5	21.9	14:30	1695.9	146.6	119.3	
16:03	1661.2	111.9	24.9	0:00	0.0	0.0	0.0	

LUB IN DWT = 0 PSI / OUT = 0 PSI

[illegible]

Date: 10-4-89

Lubricator Data:

Operator A SMITH

Pressure with D.W.T. In 0

Out 0

Time Pressured.....1500.....(10-4-89)

Time Depressured.....1442 (15-4-89)

Time Run in Hole.....1501.....(10-4-89)

Time off Bottom.....1430 (15-4-89)

Bomb No. 1 Data

Bomb No. 2 Data

Element No. and Range		62039 x 3000	
Recorder No.	12959 x 15 TLS	D 15816 x 15 TLS	
Clock and Lead Screw Data	1016 x 120 HRS	1389 x 120 HRS	
Engage Stylus	Date: 10-4-89 Time: 1421	Date: 10-4-89 Time:	
Disengage	Date: 1 -4-89 Time: 1448	Date: 15-4-89 Time: 1448	

Remarks:

Well-Head Data for Final Build-up

[illegible]

Bomb No. 2 Data

Remarks: BOTTOM CLOCK NOT ENGAGED PROPERLY

WIRELINE & WELL TESTING SERVICE

PO BOX 354 TORRANCE 28 5021

PH. (08) 354 0408 TELEX A087193

FAX (08) 43 7408

128 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5003

Tested Friday, 21st April 1989. *date.*
start date = end date.

CLIENT	LOCATION	FORMATION
Santos Ltd.	BIALA 2	MURTA

S
X **STATIC PRESSURE GRADIENT REPORT**

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	57414	3000	12/ 3/89
Bottom	62039	3000	12/ 3/89

WELL DATA	
PARAMETER	VALUE
DWT In	19 psi
DWT Out	32 psi
Max BHT	197 F

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.0070	3.6	-----	0.0100	13.8	-----
1000	0.2270	348.4	0.345	0.2230	357.7	0.344
2000	0.4810	745.0	0.397	0.4670	752.0	0.394
3000	0.7560	1173.3	0.428	0.7320	1180.0	0.428
3500	0.8940	1388.0	0.429	0.8640	1393.0	0.426
3750	0.9620	1493.7	0.423	0.9300	1499.4	0.426
3965	1.0440	1621.2	0.593	1.0080	1625.1	0.585
LUB.	0.0160	17.8	-----	0.0180	26.7	-----

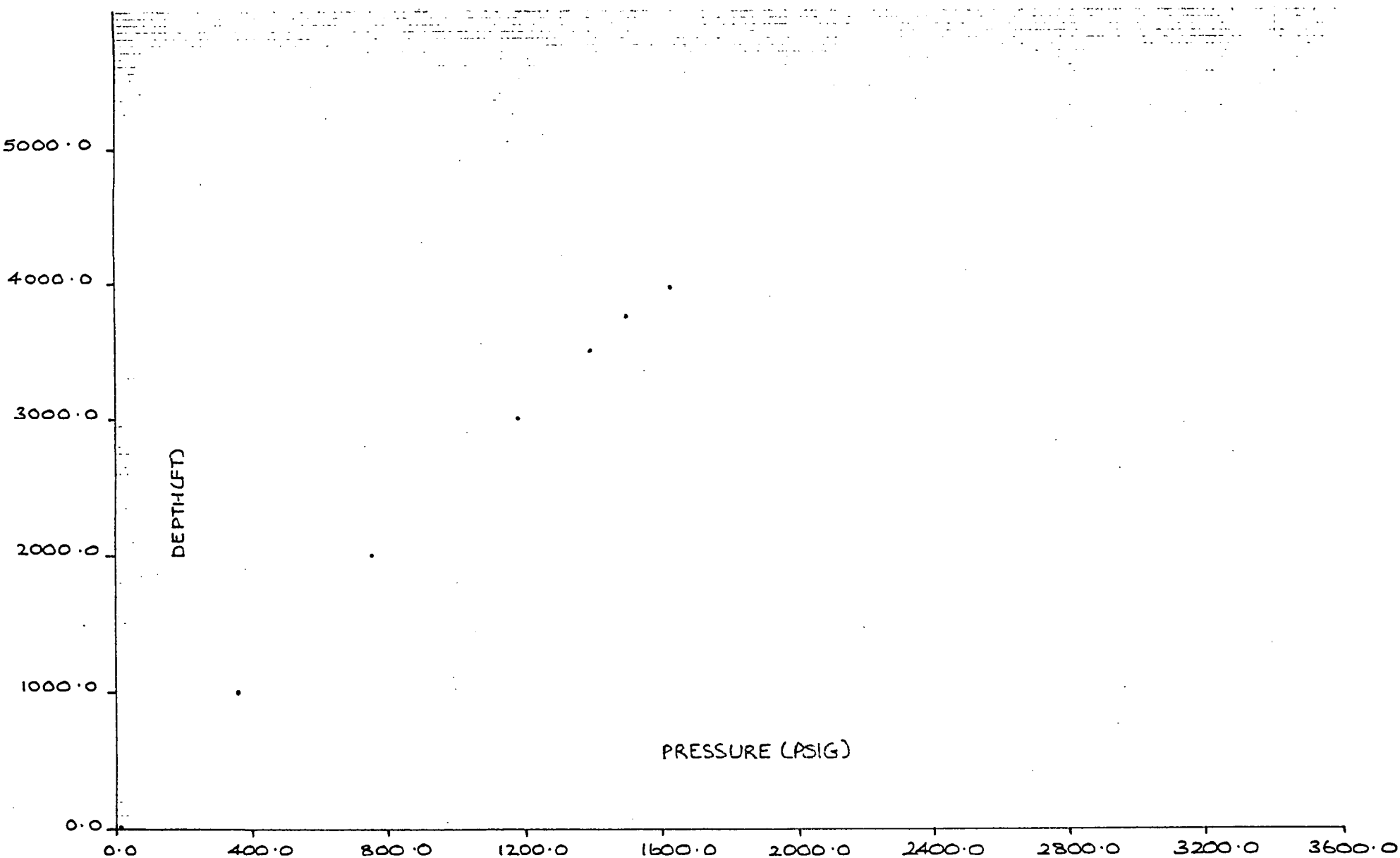
depth.

GENERAL REMARKS

Pulled bombs on 120 hr build up before running static gradient survey.

BIALA # 2 - STATIC PRESSURE GRADIENT - 21/4/89

ELEMENT # 62039/3000 (BOT)





CLIENT SANTOS LTD
WELL BIALA #2

STATIC GRADIENT SURVEY

OPERATOR RICHARD BUCKLAND

DATE 21.4.89

TOP BOMB No. 1 DATA						BOTTOM BOMB No. 2 DATA				DWT IN 19 PSI	
ELEMENT No. <u>57414</u>		ELEMENT RANGE <u>3000 PSI</u>				ELEMENT No. <u>62039</u>		ELEMENT RANGE <u>3000 PSI</u>		DWT OUT 32 PSI	
RECORDER No. <u>12959</u>		CLOCK DATA <u>2180 X 3HR</u>				RECORDER No. <u>D-15186</u>		CLOCK DATA <u>2533 X 3HR</u>			
ENGAGE STYLUS <u>0958 HR</u>		DISENGAGE <u>1158 HR</u>				ENGAGE STYLUS <u>0958 HR</u>		DISENGAGE <u>1158 HR</u>			
PRESSURE LUBRICATOR <u>1006 HR</u>						BLEED LUBRICATOR <u>1151 HR</u>					
DATE	TIME	DEPTH'	DEFLEC-TION	PRESSURE TEMP.	GRADIENT psi/ft	DEPTH'	DEFLEC-TION	PRESSURE TEMP.	GRADIENT psi/ft	REMARKS	
21.4.89	1006	LUB	.007	3.6	-	LUB	.010	13.8	-	15 MINUTE STOP	
	1025	1000	.227	348.4	.345	1000	.223	357.7	.344	5 " "	
	1035	2000	.481	745.0	.397	2000	.467	752.0	.394	" " "	
	1044	3000	.756	1173.3	.428	3000	.732	1180.0	.428	" " "	
	1052	3500	.894	1388.0	.429	3500	.864	1393.0	.426	" " "	
	1059	3750	.894	1493.7	.423	3750	.930	1499.4	.426	" " "	
	1106	3945	1.044	1621.2	.593	3945	1.008	1625.1	.585	15 " "	
	1136	LUB	.016	17.8	-	LUB	.018	26.7	-	" " "	

GENERAL REMARKS: Pulled bombs on build up before running survey.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS.

PERFORATIONS: 3850 - 3980.

PAGE: 1 OF 2

WELL NAME: BUALA # 2.

FORMATION : MURTA.

DATE: 10-9-90

TEST TYPE : STAT GRAD

OPR : C. MARTIN

[illegible]

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANVILLE 5033

PH. (08) 354 0488 TELEX AAB7183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Monday, 10th September 1990.

CLIENT	LOCATION	FORMATION
Santos Ltd.	BIALA 2	MURTA

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	SB431	3000	14/ 8/90
Bottom	SB428	3000	14/ 8/90

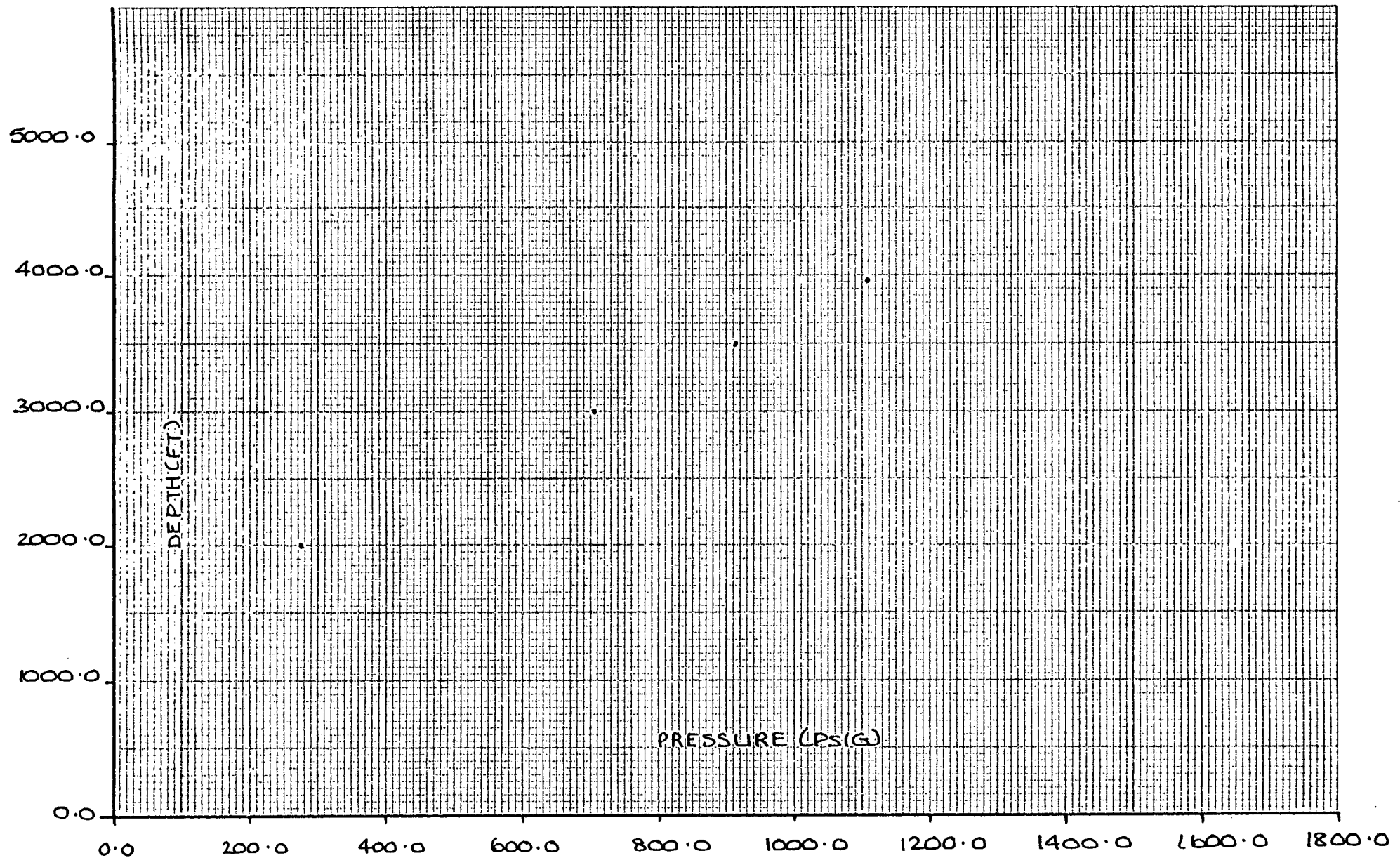
WELL DATA	
PARAMETER	VALUE
DWT In	0
DWT Out	0
Max BHT	248 F

DEPTH FT KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000			0.000			
2000	0.1790	272.9	0.137	0.1780	278.5	0.139
3000	0.4560	703.4	0.431	0.4550	709.9	0.431
3500	0.5900	911.7	0.417	0.5880	916.8	0.414
3965	0.7170	1109.1	0.424	0.7160	1115.7	0.428
LUB.			---			

GENERAL REMARKS

NO LABICATOR STOP DUE TO WORKOVER RIG ON WELL.

BIALA # 2 — STATIC PRESSURE GRADIENT — 10/9/90
ELEMENT # 56431/3000 (TOP)



EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : ~~SANTOS~~

PERFORATIONS: 3850' - 3980'

PAGE: 1 OF 1

WELL NAME: BIACA #2

FORMATION : MURTA

DATE: 10-9-90

TEST TYPE : STAT GRAD

OPR : C-MARTIN

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
(PSI/KPa)ANNULUS
PRESSURE
(PSI/KPa)

ELEMENT SERIAL NO.

56431 56428

DATE 10-9-90:

ELEMENT RANGE

3000 3000

PRESSURE LUBRICATOR :

RECORDING SECTION SERIAL NO.

14929 14620

RUN IN HOLE 10:05:

DATE OF CALIBRATION:

14/8/90 230°F

ON DEPTH AT 10:30 : 3965 FT/M

CLOCK SERIAL NO.

25509 25511

DATE 10-9-90:

CLOCK RANGE

3hr 3hr

PULL OUT OF HOLE 10:35:

LEAD SCREW TYPE

15ths 15ths

AT SURFACE 10:42:

DEPRESSURE LUBRICATOR :

ENGAGE STYLUS DATE 10-9 09:50 TIME

MAXIMUM BHT AT 3965 FT/M = 248 °F

DISENGAGE STYLUS DATE 10-9 10:45 TIME

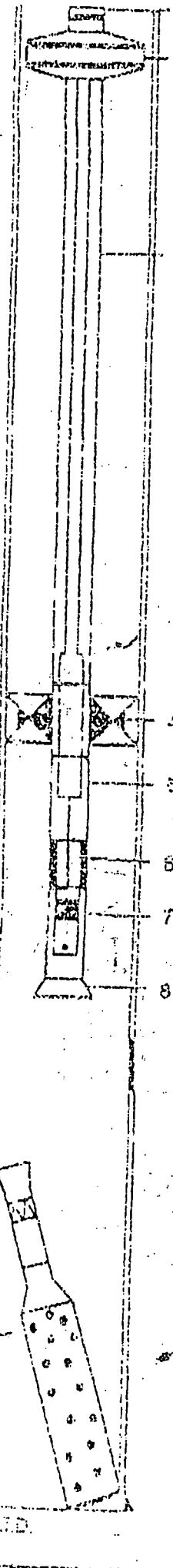
N.B. ALL DEPTHS ARE MEASURED FROM K.B.

DATE

TIME

REMARKS

0065



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
1	K.B. to top of tubinghead spool	14.00	0.00	
2	2 1/8" EUE x 7 1/8" F8B-5N tubing hanger	0.70		2.441
3	123 joints 2 1/8" EUE J55 6-5# tubing	3882.90		
4	2 1/8" x 7" casing TM tubing anchor	3.37		
5	1 joint 2 1/8" EUE J55 6-5# tubing	31.55		
6	2 1/8" EUE pump seating nipple	1.10	3932.52	2.28
7	2 joints 2 1/8" EUE J55 6-5# tubing	62.48		
8	Re-entry swage	1.23		
			3997.33	
	<u>Rod String from Bottom Up:</u>			
	25-150-RWAC-20-4 c/w sand check valve & strainer (SA 150/QWS336; Max. Stroke = 17 1/2")			
	4 x 1 1/2" K-bars			
	151 x 3/4" Grade D sucker rods			
	2 x 4' & 1 x 2' 3/4" Grade D pony rods			
	1 x 26' 1/4" T111 polished rod			
	8-5' Slack up 2' Off lap			
	<u>Lock in Hole - Top approx. 4693' K.B.</u>		4693.00	
	Tubing release sub			
	2 joints 2 1/8" EUE J55 6-5# tubing			
	Swage 2 1/8" x 2 1/8" EUE			
	2 1/8" EUE J55 4-7# 12' pup joint			
	Vann firing head			
	Vann TCP guns			

PERFORATED INTERVALS:

FORMATION

INTERVAL

GUN:

CHARGES:

MURTA

3950' - 3980'

SIZE

TYPE

S.P.F.

TYPE

WT(lb)

5"

TCP

12

REMARKS:

ANNULUS FLUID: Murib Oil

INDICATED STRING WEIGHT: 24#

CALCULATED STRING WEIGHT: 22605#

SLACK-OFF WEIGHT:

TENSION: 11# Stroke = 13"

NOT TO SCALE

WELLSITE SUPERVISOR

M. Dunne

PROPOSED

DATE OF INSTALLATION

14/5/1989

RE-COMPLETION

DRAFTED

H. Sulzmann

DATE 29/5/1989

COMPLETION

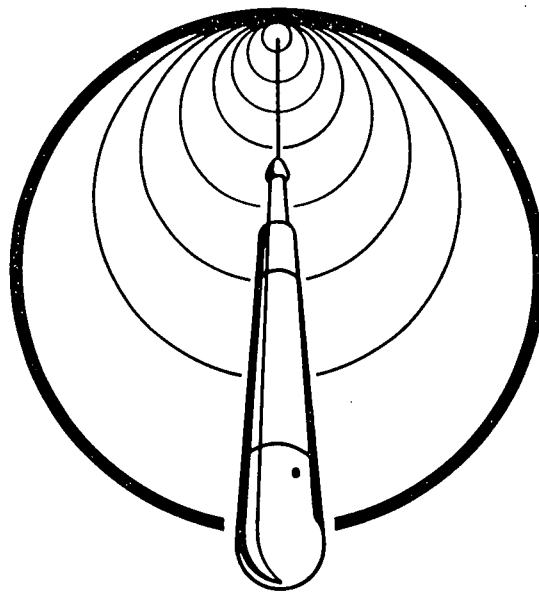
REVISED

DATE

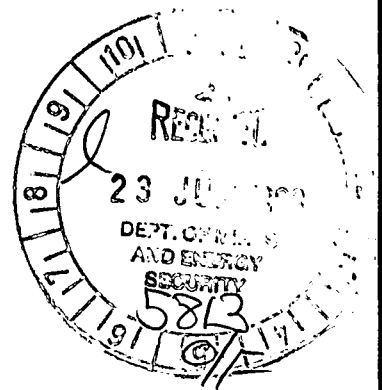
COPY

EXPERTEST

ELECTRIC WIRELINE
SERVICE



Electronic BHP/BHT Survey



Customer: SANTOS LTD
Location: BIALA #2
Formation: MURTA
Date: 03/03/93

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD

PERFORATIONS: 3950'-3980' KB

PAGE: 1 OF 1

WELL NAME: BIALA #2

FORMATION : MURTA

DATE: 03/03/93

TEST TYPE : SGS

OPR :R. BUCKLAND

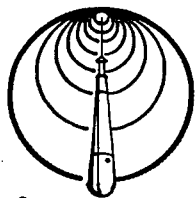
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0003

CUSTOMER :	SANTOS LTD	PERFORATIONS: 3950' - 3980' KB	PAGE: 1 OF 1
WELL NAME:	BIALA #2	FORMATION : MURTA	DATE: 03/03/93
TEST TYPE :	SGS		OPR : R. BUCKLAND

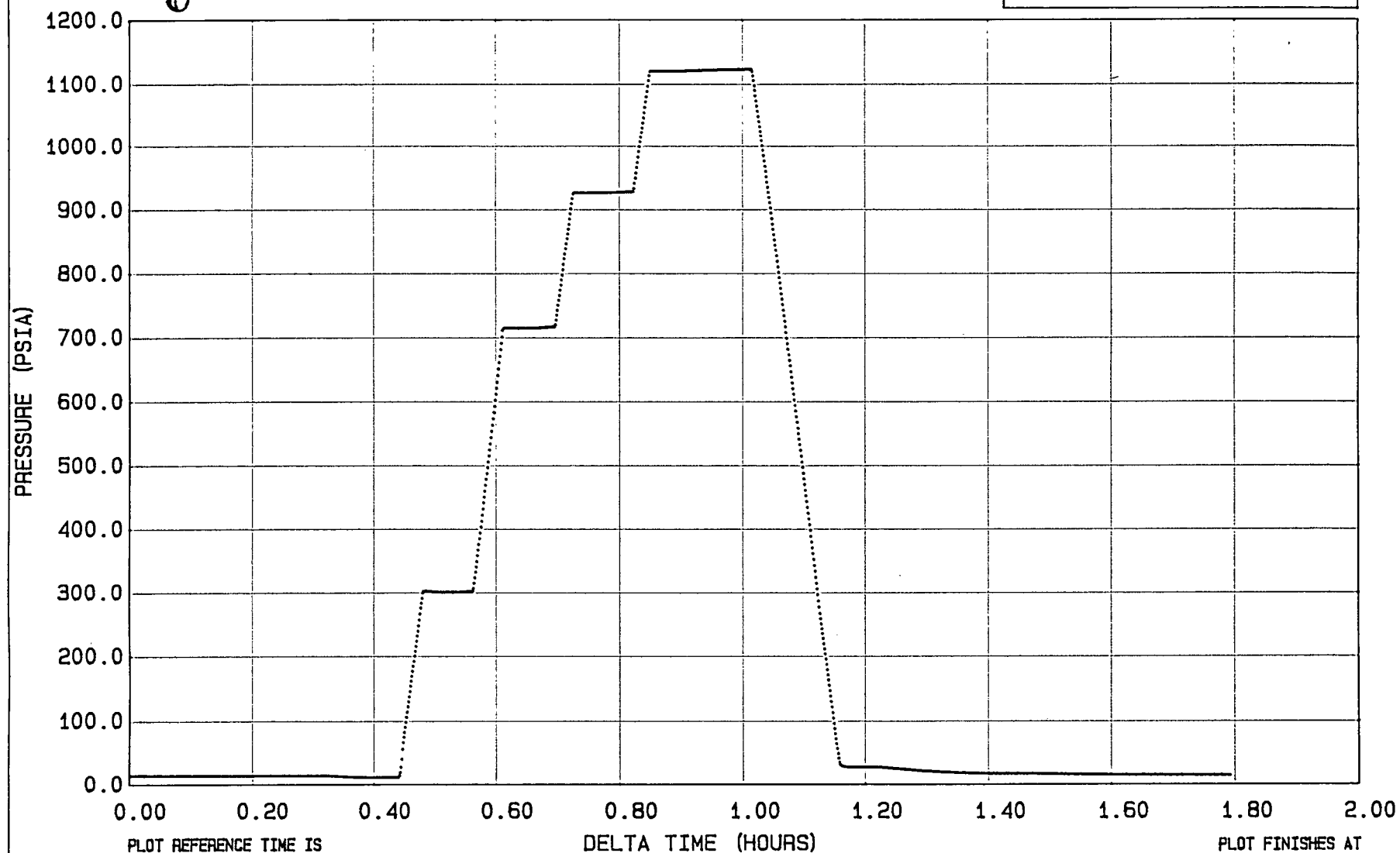
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EXPERTEST PTY. LTD.
ELECTRIC WIRELINE SERVICE
LINEAR PLOT

SANTOS LTD
WELL: BIALA #2
ZONE: MURTA
STATIC GRADIENT

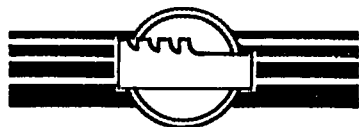


PLOT REFERENCE TIME IS
17:51 HRS. on 03/03/93

PLOT FINISHES AT
19:38 HRS. 03/03/93

00070

EXPERTEST PTY. LTD.



STATIC GRADIENT SURVEY

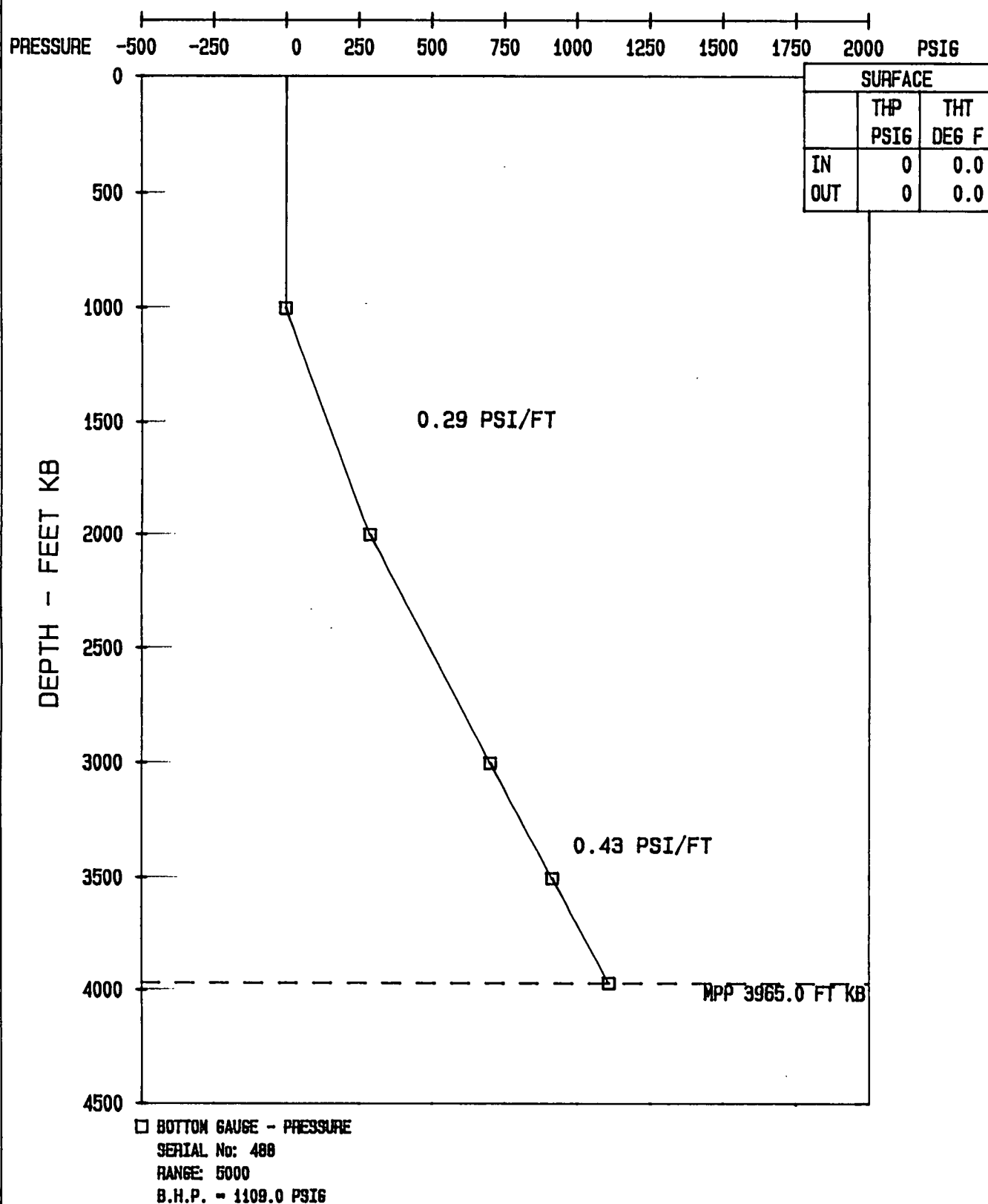
CUSTOMER: SANTOS LTD

PERFORATIONS: 3950'-3980'KB

WELL NAME: BIALA #2

FORMATION: MURTA

DATE: 03/03/93



Tested Wednesday, 3rd March 1993.

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA87183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

STATIC PRESSURE GRADIENT REPORT

CLIENT	LOCATION	FORMATION
SANTOS LTD.	BIALA #2	MURTA

PRESSURE ELEMENT DATA				WELL DATA	
POSITION	SERIAL NO.	RANGE	CALIBRATED	PARAMETER	VALUE
Top	56431	3000	9/ 2/93	DWT In	0 PSIG
Bottom				DWT Out	0 PSIG
				Max BHT	

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
1000	0.0000	0.0	0.000			
2000	0.1890	292.4	0.292			
3000	0.4590	709.0	0.417			
3500	0.6960	1074.6	0.731			
3965	0.7220	1114.8	0.086			
LUB.	0.0000	0.0	-			

GENERAL REMARKS

McALLISTER EMR GAUGE RUN AS LOWER GAUGE

EMP SETUP RECORD

=====

Computer Volume ID (Drive C:) =

EMP Information

Serial : 488
Model : 168
Version : 3.9/ 8
Pressure Range : 5000.0 PSIA
Maximum Readings : 32696
Calibration ID : 585-13016
Last Calibration : 93/01/16
Set Up Time : 93/03/03 10:25:00
Operating Mode : NORMAL

EMP Operating Parameters

s12H	Section	Interval hh:mm:ss	Format P/T	# Readings	Duration Hours	Cumulative Duration
=====	=====	=====	=====	=====	=====	=====
	DELAY	0: 0: 0				
	1	0: 0: 4	1	32692	18.1622	18.1622
	FINAL	1: 0: 0	1	0	0.0000	
	TOTALS			32692	18.1622	

s15HDownload Status

Working registers : downloaded and verified
Custom program : Not used
Calibration : verified



ELECTRONIC BHP/BHT GAUGE QUALITY CONTROL SHEET

CUSTOMER: SANTOS LTD

PERFORATIONS:

PAGE: 1 OF 1

WELL NAME: BIALA #2

FORMATIONS:

DATE: 3/3/93

TEST TYPE: STATIC GRADIENT

GAUGE SERIAL No.: # 488

OPR: N. DOVER

INSTRUMENT DEPARTMENT REPORT	DATE	LAB. COND.	GAUGE RESPONSE	GAUGE FREQUENCY	FIELD OPERATOR REPORT	TIME (HOURS)	PRESSURE WELL SITE	PRESSURE GAUGE
PRE-JOB LAB. CHECK / PERFORMED BY	3/3/93	L. Harvey			DATE	3/3/93		
PRESS PSI A/G		0	-0.196		ATMOSPHERIC CHECK		0	0.168
TEMP °F/°C		69.80	69.85		PRESSURE LUBRICATOR		0	
PRE-JOB CAL. CHECK / PERFORMED BY	25/2/93	L. Harvey			DATE	3/3/93		
PRESS PSI A/G		4409	4405		MAX. RECORDED BHP	18:51:52		1109.154
TEMP °F/°C		221	223		MAX. RECORDED BHT			194.01
POST-JOB LAB. CHECK / PERFORMED BY	4/3/93	L. Harvey			DATE			
PRESS PSI A/G		0	-0.142		DEPRESSURE LUBRICATOR			
TEMP °F/°C		73.40	72.63		ATMOSPHERIC CHECK	19:38:36	0	
POST-JOB REDRESS CAL. CHECK / PERFORMED BY					FIELD OPERATOR'S SIGNATURE			
PRESS PSI A/G								
TEMP °F/°C					COMMENTS:	Zero pressure at Surface		
CALIBRATION DATE	16/1/93							
BATTERY SERIAL No.:	# 5							
PRE-JOB VOLTS:	11.75							
POST-JOB VOLTS:	11.76							
(PRE-JOB) TOTAL HOURS.:	93							
					This sheet is submitted as "Original" and is not typed.			
					Field staff please note units of measure.			