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NUMBER 7024/2

PEL 5 AND PEL 6, TOOLACHEE BLOCK
EROMANGA AND COOPER BASINS

TARWONGA 1
TEST REPORTS

Submitted by

Delhi Petroleum Pty Ltd
1987

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MINES AND ENERGY
SOUTH AUSTRALIA



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ENVELOPE 7024/2

2

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

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

CONTENTS

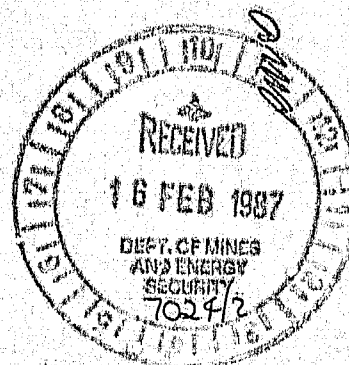
MESA NO.

REPORTS:	Halliburton Services, 1987. Formation testing service report, DST 1 (3/2/87).	7024/2 R 1 Pgs 3-13
	Halliburton Services, 1987. Formation testing service report, DST 2 (4/2/87).	7024/2 R 2 Pgs 14-24
	Halliburton Services, 1987. Formation testing service report, DST 4 (4/2/87).	7024/2 R 3 Pgs 25-34

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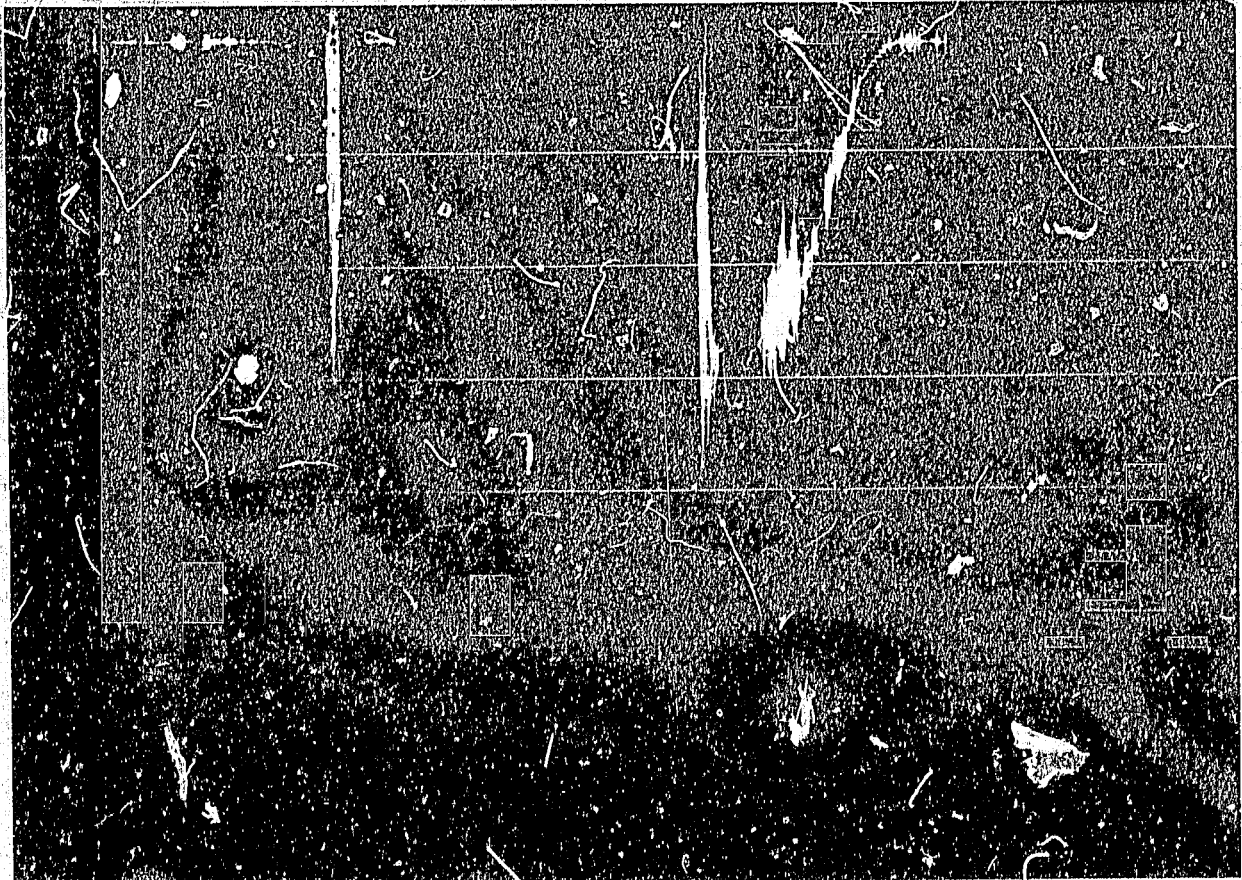
TICKET NO. 25057300
03-FEB-87
MOOMBA



FORMATION TESTING SERVICE REPORT

687
00003

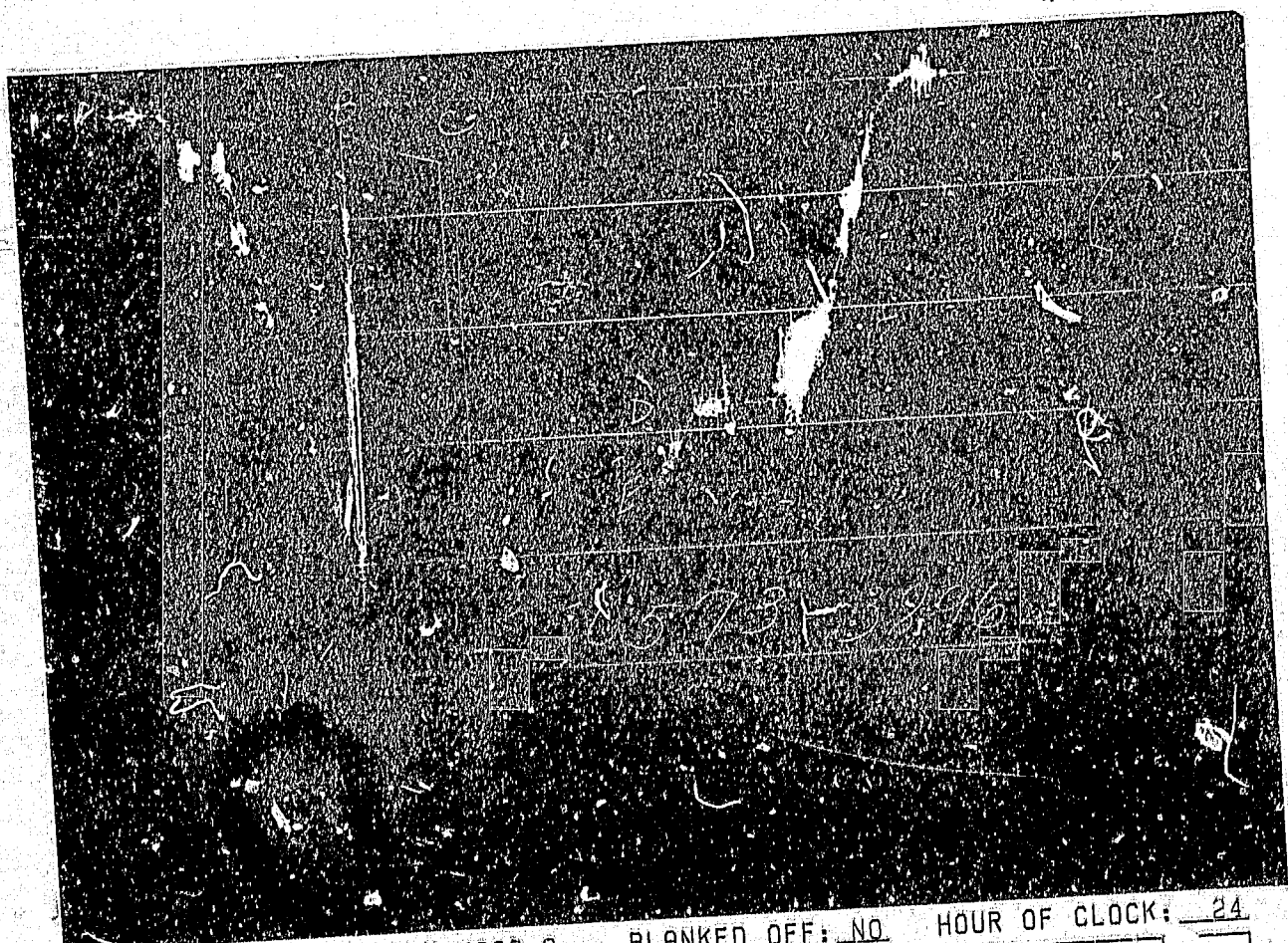
TRAVONGA	WELL NO.	TEST NO.	7290.8 - 7337.0	DELHI PETROLEUM PTY. LTD.
LEASE NAME			TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RANG.	SEE REMARKS	FIELD AREA	COOPER BASIN	COUNTY SOUTH AUSTRALIA
				STATE AUSTRALIA SM



GAUGE NO: 3289 DEPTH: 7247.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		251.1	120.0	119.4	F
C	FINAL FIRST FLOW		594.4			
C	INITIAL FIRST CLOSED-IN		594.4	240.0	240.6	C
D	FINAL FIRST CLOSED-IN	1035	1000.4			
E	FINAL HYDROSTATIC					

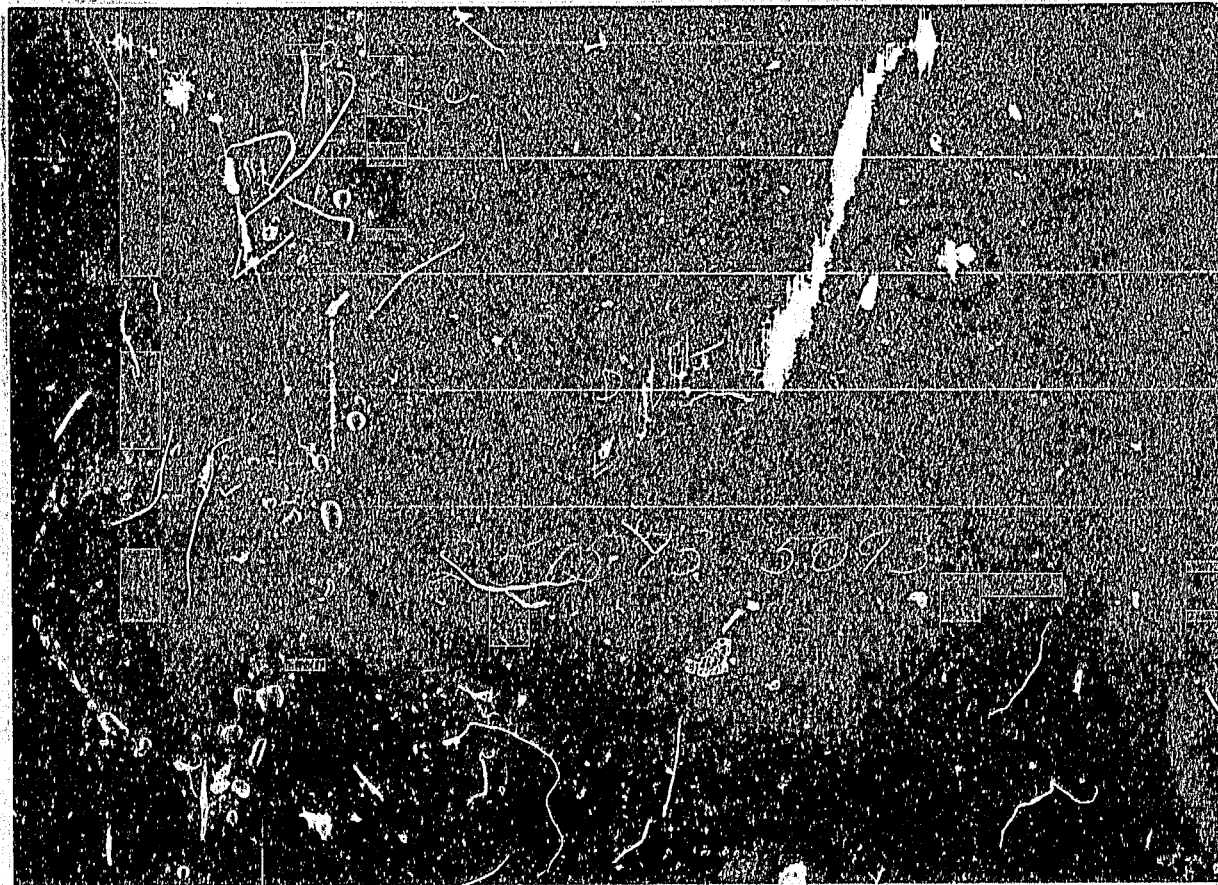
00005



GAUGE NO: 3896 DEPTH: 7268.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3521	3489.9			
B	INITIAL FIRST FLOW	235	232.1	120.0	119.4	F
C	FINAL FIRST FLOW	535	541.2			
C	INITIAL FIRST CLOSED-IN	535	541.2	240.0	240.6	C
D	FINAL FIRST CLOSED-IN	3080	3083.8			
E	FINAL HYDROSTATIC	3458	3489.9			

00006



GAUGE NO: 5093 DEPTH: 7334.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3551	3542.2			
B	INITIAL FIRST FLOW	255	265.2			
C	FINAL FIRST FLOW	595	595.3	120.0	119.4	F
C	INITIAL FIRST CLOSED-IN	595	595.3			
D	FINAL FIRST CLOSED-IN	3137	3154.2	240.0	240.6	C
E	FINAL HYDROSTATIC	3530	3542.2			

EQUIPMENT & HOLE DATA

FORMATION TESTED: EPSILON
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 46.2
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.500
 ELEVATION (ft): 201.0
 TOTAL DEPTH (ft): 7337.0
 PACKER DEPTH(S) (ft): 7283, 7291
 FINAL SURFACE CHOKE (in): 0.50000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.40
 MUD VISCOSITY (sec): 37
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 220 @ 7333.0 ft

TICKET NUMBER: 25057300

DATE: 10-8-86 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
MOOMBA

TESTER: D. BURT

WITNESS: _____

DRILLING CONTRACTOR:
RICHTER RIG #14

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Psig 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

RECOVERED:

2200 FEET OF GAS CUT SLIGHTLY WATERY MUD
 NOTE: GAS TO THE SURFACE, ESTIMATED RATE AT 600 MCF

MEASURED FROM:
TESTER VALVE

REMARKS:

LEGAL LOCATION: 28 DEG 20' 52.8"S. LAT AND 140 DEG. 43' 8.6" E. LONG
 CHARTS INDICATE POSSIBLE LEAK IN TUBULAR GOODS ABOVE THE TOOLS.

00008

TYPE & SIZE MEASURING DEVICE: 6" CERAMIC CHOKE					TICKET NO: 25057300
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
10-8-86					
0025					LOADED BT 3289
0033					LOADED BT 3896
0051					LOADED BT 5093
0125					RAN IN HOLE
0457					RAN INTO APPROXIMATELY 18' OF FILL
0500					HEAD UP AND RIGGED UP MANIFOLD
0515					SET 35,000# ON TOOL
0519	.5				OPENED TOOL - SKIDDED 18' TO BOTTOM, PACKER SEAT HELD
					HAD VERY WEAK BLOW
0522	.5				INCREASED TO STRONG BLOW
0526					GAS TO SURFACE
0530	.5	80			
0535	.5	77			
0540	.5	92			
0545	.5	104			SWITCHED LINE TO BAKER FLARE
0550	.5	110			
0555	.5	115			FLOW THROUGH SEPARATOR
0600	.5	117			
0605	.5	120			
0610	.5	120			
0620	.5	125			
0630	.5	130			
0645	.5	130			
0700	.5	130			
0715	.5	130			
0719					CLOSED TOOL
1119					OPENED BYPASS AND PULLED FREE
1122					LAI D DOWN HEAD AND PULLED OUT OF HOLE
1244					HEAD UP AND RIGGED MANIFOLD TO REVERSE CIRCULATE
1253					RELEASED DROP BAR
1255					PIN SHEARED, STARTED PUMPING
					REVERSING PORT PLUGGED, CLOSED

00009

[illegible]

00010

TICKET NO: 25057300

CLOCK NO: 30368 HOUR: 24



GAUGE NO: 3289

DEPTH: 7247.2

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0	251.1								
	2	10.0	278.9	27.8							
	3	20.0	345.0	66.2							
	4	30.0	387.7	42.7							
	5	40.0	421.1	33.4							
	6	50.0	449.4	28.2							
	7	60.0	468.8	19.4							
	8	70.0	489.0	20.3							
	9	80.0	511.3	22.8							
	10	90.0	533.4	21.6							
	11	100.0	553.0	19.6							
	12	110.0	573.5	20.5							
C	13	119.4	594.4	20.9							
FIRST CLOSED-IN											
C	1	0.0	594.4								
D	2	240.6	1000.4	406.0	79.8	0.175					

REMARKS:

TICKET NO: 25057300

CLOCK NO: 30347 HOUR: 24

HALLIBURTON
SERVICES

GAUGE NO: 3896

DEPTH: 7268.2

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	232.1			36	165.0	3057.8	2516.5	69.3	0.236
	2	10.0	273.7	41.7		37	180.0	3064.3	2523.0	71.8	0.221
	3	20.0	297.2	23.5		38	195.0	3071.0	2529.8	74.0	0.207
	4	30.0	341.0	43.8		39	210.0	3076.7	2535.4	76.1	0.195
	5	40.0	373.8	32.9		40	225.0	3080.7	2539.4	78.0	0.185
	6	50.0	401.7	27.8		D 41	240.6	3083.8	2542.6	79.8	0.175
	7	60.0	420.5	18.8							
	8	70.0	440.0	19.4							
	9	80.0	459.4	19.4							
	10	90.0	481.0	21.6							
	11	100.0	504.1	23.1							
	12	110.0	521.2	17.1							
C	13	119.4	541.2	20.1							
FIRST CLOSED-IN											
C	1	0.0	541.2								
	2	1.0	1827.9	1286.7	1.0	2.087					
	3	2.0	2162.4	1621.2	2.0	1.783					
	4	3.0	2372.4	1831.2	2.9	1.612					
	5	4.0	2576.0	2034.8	3.9	1.489					
	6	5.0	2677.5	2136.3	4.8	1.394					
	7	6.0	2735.0	2193.8	5.7	1.320					
	8	7.0	2776.2	2235.0	6.6	1.257					
	9	8.0	2807.0	2265.8	7.5	1.200					
	10	9.0	2834.8	2293.4	8.3	1.156					
	11	10.0	2852.0	2310.8	9.2	1.112					
	12	12.0	2880.3	2339.0	10.9	1.038					
	13	14.0	2899.4	2358.1	12.5	0.979					
	14	16.0	2913.2	2371.9	14.1	0.926					
	15	18.0	2923.6	2382.3	15.7	0.882					
	16	20.0	2932.5	2391.2	17.2	0.842					
	17	22.0	2939.1	2397.8	18.6	0.807					
	18	24.0	2947.1	2405.9	20.0	0.776					
	19	26.0	2952.4	2411.2	21.4	0.747					
	20	28.0	2957.7	2416.5	22.7	0.721					
	21	30.0	2960.5	2419.3	24.0	0.697					
	22	35.0	2972.4	2431.2	27.0	0.645					
	23	40.0	2981.3	2440.1	30.0	0.600					
	24	45.0	2988.5	2447.3	32.7	0.562					
	25	50.0	2995.8	2454.5	35.2	0.530					
	26	55.0	3001.3	2460.0	37.7	0.501					
	27	60.0	3005.9	2464.6	39.9	0.478					
	28	70.0	3013.0	2471.8	44.1	0.432					
	29	80.0	3020.0	2478.7	47.9	0.398					
	30	90.0	3028.3	2485.0	51.3	0.367					
	31	100.0	3031.5	2490.3	54.4	0.341					
	32	110.0	3036.3	2495.1	57.2	0.319					
	33	120.0	3040.5	2499.3	59.8	0.300					
	34	135.0	3046.2	2505.0	63.4	0.275					
	35	150.0	3052.3	2511.1	66.5	0.254					

REMARKS:

00012

TICKET NO: 25057300

CLOCK NO: 26294 HOUR: 24



GAUGE NO: 5093

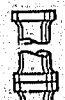
DEPTH: 7334.0

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW						FIRST CLOSED-IN - CONTINUED					
B	1	0.0	265.2			36	165.0	3127.1	2531.8	69.3	0.236
	2	10.0	276.6	11.5		37	180.0	3132.7	2537.4	71.8	0.221
	3	20.0	345.0	68.4		38	195.0	3138.7	2543.4	74.0	0.207
	4	30.0	390.1	45.1		39	210.0	3143.9	2548.6	76.1	0.195
	5	40.0	422.1	32.1		40	225.0	3148.9	2553.5	78.0	0.185
	6	50.0	453.5	31.0		D 41	240.6	3154.2	2558.9	79.8	0.175
	7	60.0	472.2	18.7							
	8	70.0	490.4	18.3							
	9	80.0	510.6	20.2							
	10	90.0	533.1	22.5							
	11	100.0	554.1	21.0							
	12	110.0	572.4	18.3							
C	13	119.4	595.3	22.9							
FIRST CLOSED-IN											
C	1	0.0	595.3		1.0	2.082					
	2	1.0	1931.7	1336.3	1.9	1.791					
	3	2.0	2249.6	1654.3	2.9	1.608					
	4	3.0	2524.8	1929.5	3.8	1.494					
	5	4.0	2660.3	2065.0	4.8	1.400					
	6	5.0	2750.0	2154.7	5.7	1.320					
	7	6.0	2815.1	2219.8	6.6	1.255					
	8	7.0	2852.9	2257.6	7.5	1.204					
	9	8.0	2877.5	2282.2	8.4	1.153					
	10	9.0	2900.8	2305.5	9.2	1.113					
	11	10.0	2916.0	2320.6	10.9	1.041					
	12	12.0	2941.2	2345.8	12.8	0.978					
	13	14.0	2961.6	2366.2	14.1	0.927					
	14	16.0	2974.4	2379.0	15.6	0.883					
	15	18.0	2986.1	2389.8	17.1	0.844					
	16	20.0	2994.7	2399.4	18.6	0.807					
	17	22.0	3001.9	2406.5	20.0	0.776					
	18	24.0	3009.1	2413.8	21.4	0.747					
	19	26.0	3015.3	2420.0	22.7	0.721					
	20	28.0	3020.7	2425.4	24.0	0.697					
	21	30.0	3025.7	2430.3	27.1	0.644					
	22	35.0	3037.3	2441.9	30.0	0.600					
	23	40.0	3046.8	2451.5	32.7	0.563					
	24	45.0	3053.6	2458.3	35.2	0.530					
	25	50.0	3059.8	2464.5	37.7	0.501					
	26	55.0	3065.2	2469.9	39.9	0.476					
	27	60.0	3072.3	2476.9	44.1	0.432					
	28	70.0	3078.7	2483.3	47.9	0.397					
	29	80.0	3087.6	2492.2	51.3	0.367					
	30	90.0	3093.6	2498.3	54.4	0.341					
	31	100.0	3098.1	2502.8	57.2	0.319					
	32	110.0	3102.3	2506.9	59.8	0.300					
	33	120.0	3107.5	2512.1	63.4	0.275					
	34	135.0	3113.3	2517.9	66.5	0.254					
	35	150.0	3119.7	2524.3							

REMARKS:

672
00013

TICKET NO. 25057300

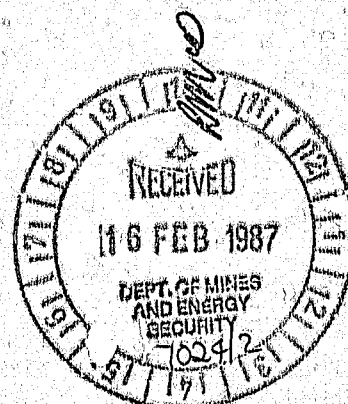
		O.D.	I.D.	LENGTH	DEPTH
1		DRILL PIPE.....	4.500	3.826	6613.8
4		FLEX WEIGHT.....	4.500	2.764	179.3
3		DRILL COLLARS.....	6.500	2.750	360.3
51'		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0 7153.9
3		DRILL COLLARS.....	6.500	2.750	58.9
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0 7213.7
9		DRILL COLLARS.....	6.500	2.750	30.8
258		BAR CATCHER SUB.....	5.750	1.000	1.0 7245.0
80		AP RUNNING CASE.....	5.000	2.250	4.1 7247.2
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		HYDRO SPRING TESTER.....	5.000	0.750	5.3 7266.1
80		AP RUNNING CASE.....	5.000	2.250	4.1 7266.2
15		JAR.....	5.000	1.750	5.0
18		VR SAFETY JOINT.....	5.000	1.000	2.8
70		OPEN HOLE PACKER.....	6.000	1.530	5.8 7283.0
18		DISTRIBUTOR VALVE.....	5.000	1.380	2.0
70		OPEN HOLE PACKER.....	6.000	1.530	5.8 7290.8
19		ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3
20		FLUSH JOINT ANCHOR.....	5.000	2.370	36.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1 7334.0
					7337.0
		TOTAL DEPTH			

EQUIPMENT DATA

1987
00014



TICKET NO. 25057400
04-FEB-87
MOOMBA

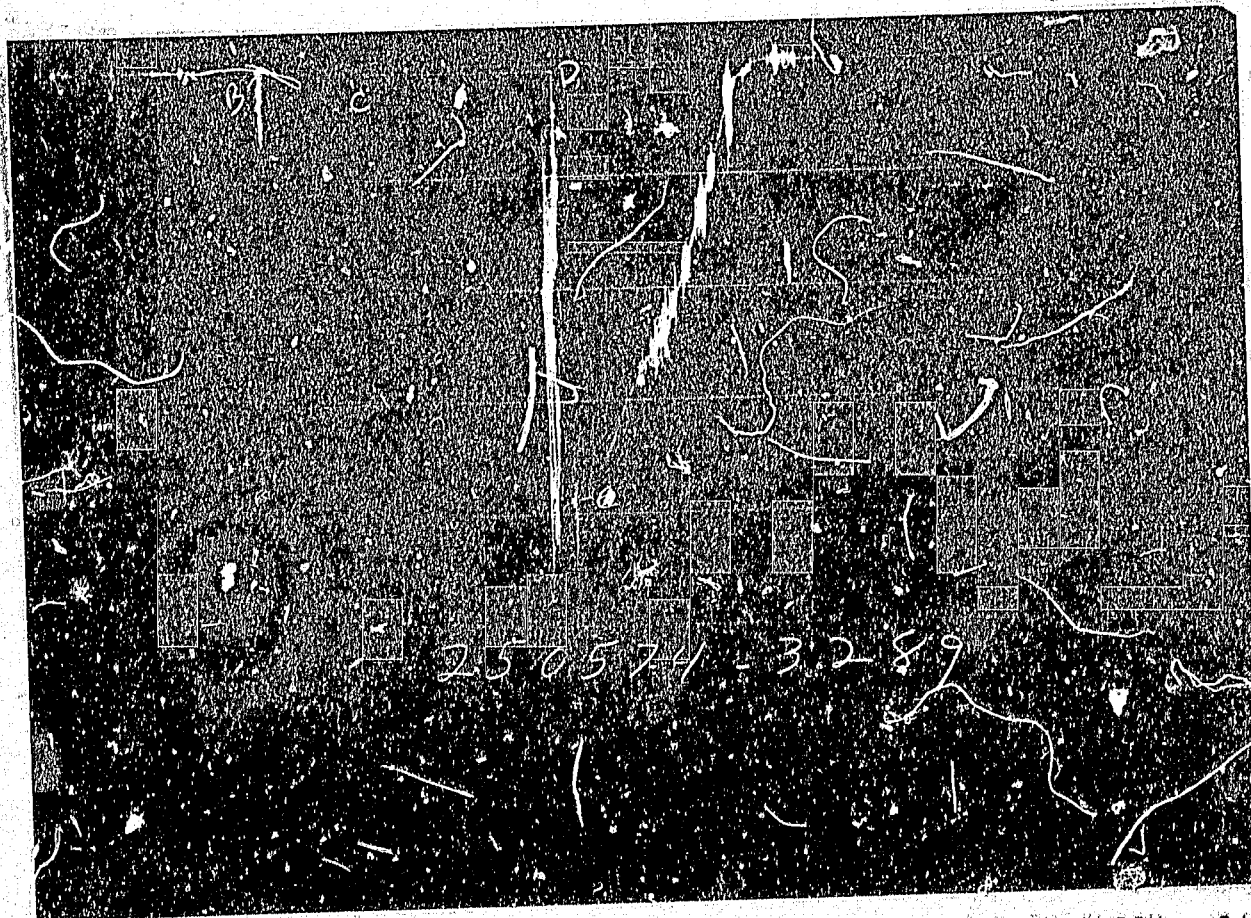


FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TYP. - RMS.	LEASE NAME TARGONGA	WELL NO. 1	TEST NO. 2	TESTED/INTERVAL 7663.8 - 7706.0	DELHI PETROLEUM PTY. LTD. LEASE OWNER/COMPANY NAME
SEE REMARKS	FIELD AREA COOPER BASIN	COUNTY SOUTH AUSTRALIA	STATE AUSTRALIA	DR	

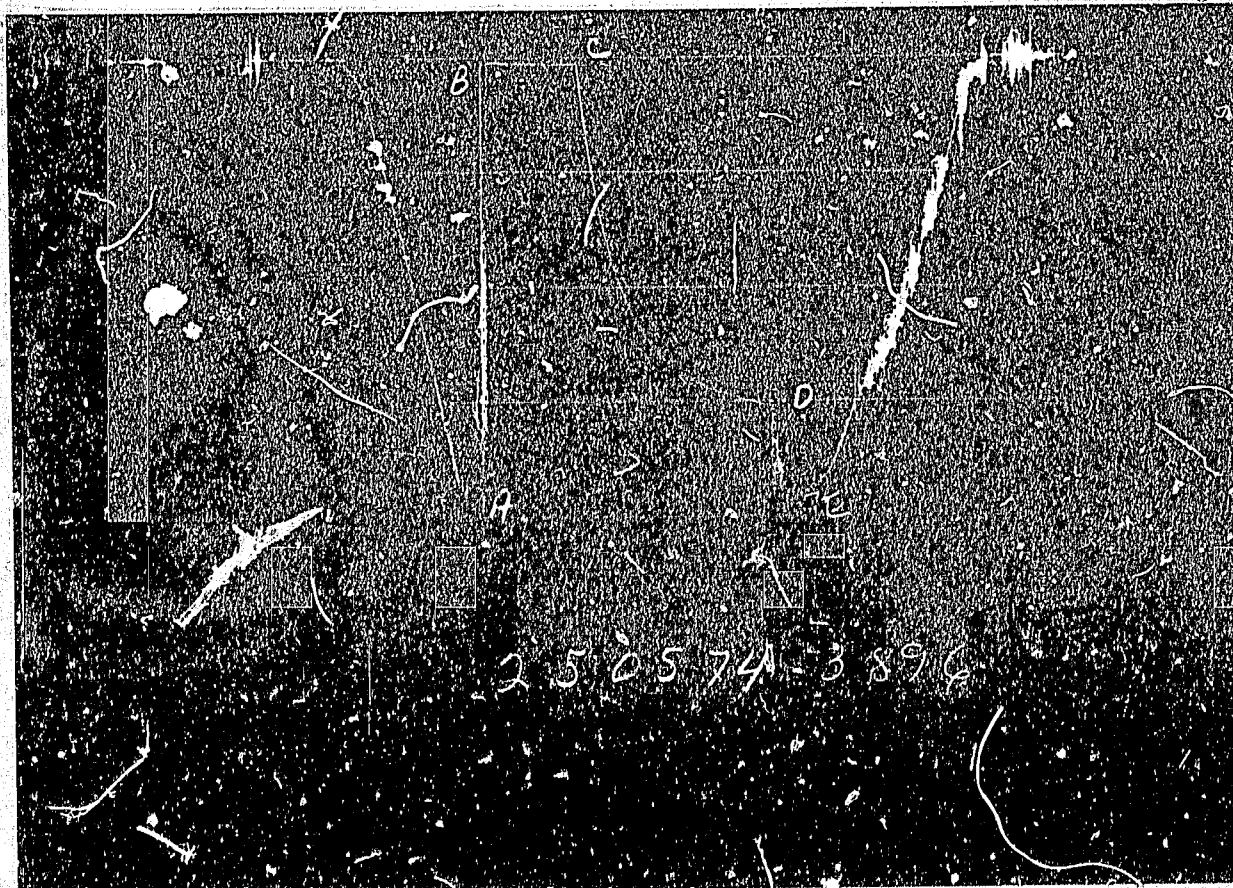
00015

299



GAUGE NO: 3289 DEPTH: 7620.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		48.3			
C	FINAL FIRST FLOW		44.2	120.0	121.1	F
C	INITIAL FIRST CLOSED-IN		44.2			
D	FINAL FIRST CLOSED-IN	65	64.7	240.0	238.9	C
E	FINAL HYDROSTATIC		3780.7			

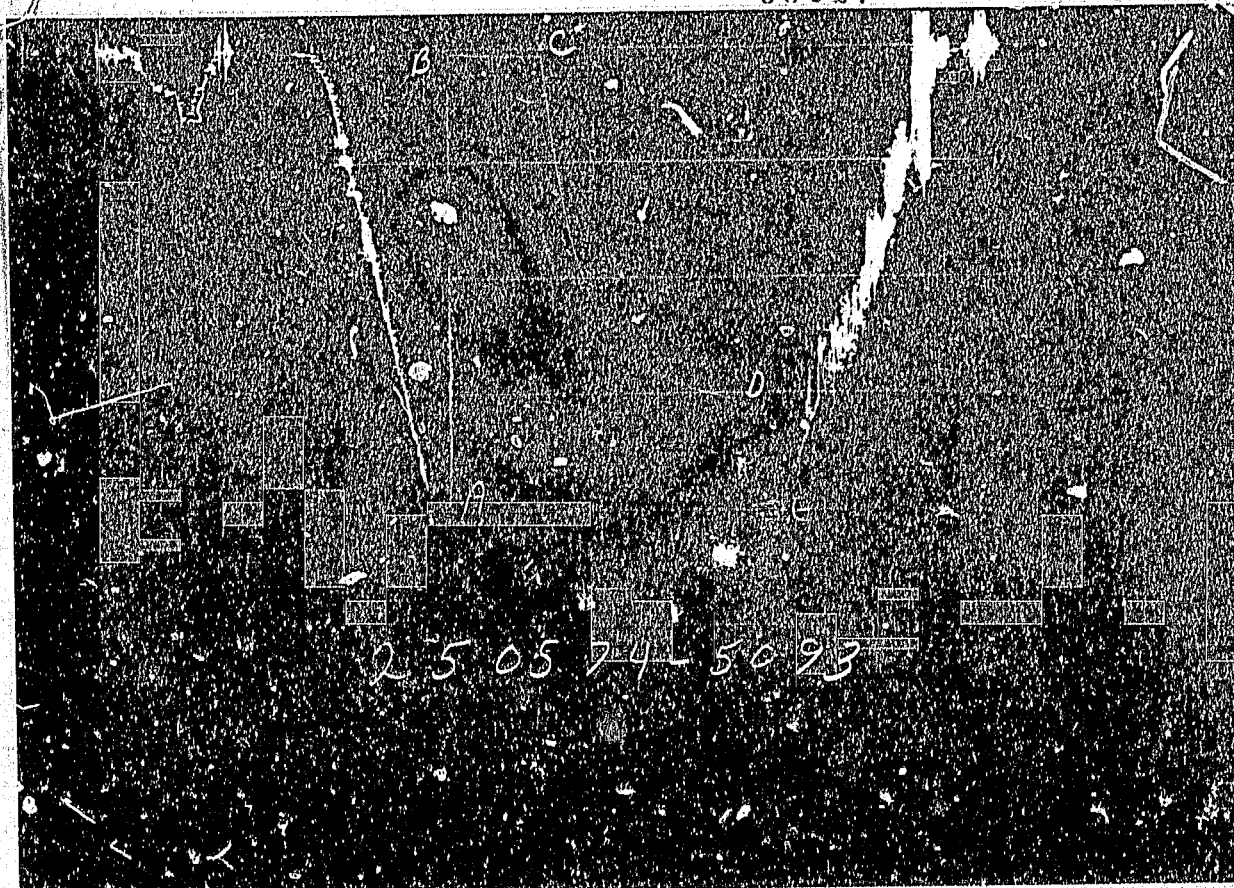


GAUGE NO: 3896 DEPTH: 7641.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3752	3746.8			
B	INITIAL FIRST FLOW	51	71.2	120.0	121.1	F
C	FINAL FIRST FLOW	51	58.3			
C	INITIAL FIRST CLOSED-IN	51	58.3	240.0	238.9	C
D	FINAL FIRST CLOSED-IN	3038	3040.1			
E	FINAL HYDROSTATIC	3731	3821.2			

00017

795



GAUGE NO: 5093 DEPTH: 7703.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3799	3774.5			
B	INITIAL FIRST FLOW	64	73.2			
C	FINAL FIRST FLOW	61	70.3	120.0	121.1	F
C	INITIAL FIRST CLOSED-IN	64	70.3			
D	FINAL FIRST CLOSED-IN	305	7.3	240.0	238.9	C
E	FINAL HYDROSTATIC	3758	3846.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: PATCHAWARRA
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 42.2
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.500
 ELEVATION (ft): 201.0
 TOTAL DEPTH (ft): 7706.0
 PACKER DEPTH(S) (ft): 7656, 7664
 FINAL SURFACE CHOKE (in): 0.50000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.40
 MUD VISCOSITY (sec): 37
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 250 @ 7702.0 ft

TICKET NUMBER: 25057400

DATE: 10-10-86 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
MOOMBA

TESTER: D. BURT

WITNESS: R. ELL

DRILLING CONTRACTOR:
RICHTER RIG #14

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Psg 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
_____	_____	_____
_____	_____	_____

RECOVERED:

130' OF RAT HOLE MUD

MEASURED FROM
TESTER VALVE

REMARKS:

LEGAL LOCATION: 28 DEGREES 20' 52.8" S. LAT. AND 140 DEGREES 43' 8.6" E.
LONG.

00019

TYPE & SIZE MEASURING DEVICE:				6" CERAMIC CHOKE	TICKET NO: 25057400
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
10-10-196					
0630					LOAD RECOVERY BT #3289
0635					STOPPED FOR RIG CREW TO EAT
0650					STARTED PICKING UP TOOLS
0654					LOADED TOP FLOW BT #3896
0719					LOADED BLANKED OFF BT #5093
0750					RUN IN HOLE
0900					AT 5 STANDS IN THE HOLE, DID
					A LEAK OFF TEST WITH PAPER
					OVER THE DRILL PIPE. THERE WAS
					A STRONG BLOW, COULD NOT SEAL
					THE PAPER. THE TOOL ON DRILL
					STRING APPEARED TO BE LEAKING.
0905					PULLED OUT OF HOLE AND ORDERED
					CHANGE OVER DCIP AND HYDROSPRING
					FROM MOOMBA.
0945					BROKE OFF HYDROSPRING AND DCIP
					AND REPLACED RECOVERY CHART.
					THERE WAS NO LEAK ACCORDING TO
					THE CHART. WAITED FOR OTHER
					TOOLS ON REQUEST FROM COMPANY
					MAN.
1105					MADE UP OTHER TOOLS
1125					RUN IN HOLE
1415					HEAD UP AND RIGGED UP MANIFOLD
1423					SET 30,000# ON PACKERS
1428	.5				OPENED TOOL WITH A MODERATE
					BLOW INCREASING TO A STRONG
					BLOW
1430	.5				STRONG BLOW
1435					DECREASING
1440					DECREASING TO MODERATE BLOW
1450					MODERATE BLOW
1500					MODERATE BLOW
1504					GAS TO SURFACE
1628	.5				CLOSED TOOL
2028					OPENED BYPASS AND PULLED FREE

00021

TICKET NO: 25057400

CLOCK NO: 30368 HOUR: 24



GAUGE NO: 3289

DEPTH: 7620.2

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	48.3								
	2	20.0	23.5	-21.8							
	3	40.0	38.4	14.9							
	4	60.0	40.9	2.6							
	5	80.0	41.4	0.4							
	6	100.0	44.0	2.6							
C	7	121.1	44.2	0.2							
FIRST CLOSED-IN											
C	1	0.0	44.2								
D	2	238.9	64.7	20.5	80.4	0.178					

REMARKS:

00022

TICKET NO: 25057400

CLOCK NO: 30374 HOUR: 24



GAUGE NO: 3896

DEPTH: 7641.2

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	71.2								
	2	20.0	42.7	-28.4							
	3	40.0	54.1	11.3							
	4	60.0	54.1	0.0							
	5	80.0	54.1	0.0							
	6	100.0	56.4	2.4							
C	7	121.1	58.3	1.9							
FIRST CLOSED-IN											
C	1	0.0	58.3								
	2	15.0	953.4	895.1	13.4	0.957					
	3	30.0	1501.1	1442.7	24.0	0.702					
	4	45.0	1882.9	1824.5	32.8	0.567					
	5	60.0	2156.9	2098.6	40.1	0.480					
	6	75.0	2357.5	2299.2	46.3	0.417					
	7	90.0	2515.1	2456.7	51.6	0.370					
	8	105.0	2620.9	2570.5	56.2	0.333					
	9	120.0	2739.5	2681.2	60.3	0.303					
	10	135.0	2791.7	2733.4	63.8	0.278					
	11	150.0	2846.9	2786.6	67.0	0.257					
	12	165.0	2895.5	2837.2	69.6	0.239					
	13	180.0	2931.0	2872.7	72.4	0.223					
	14	195.0	2965.0	2906.6	74.7	0.210					
	15	210.0	2996.6	2938.3	76.8	0.198					
	16	225.0	3020.0	2961.6	78.7	0.187					
D	17	238.9	3040.1	2981.8	80.4	0.178					

REMARKS:

00023

TICKET NO: 25057400

CLOCK NO: 26294 HOUR: 24



GAUGE NO: 5093

DEPTH: 7703.0

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	73.2								
	2	20.0	54.1	-19.1							
	3	40.0	62.8	8.7							
	4	60.0	66.7	3.8							
	5	80.0	66.7	0.0							
	6	100.0	70.3	3.6							
C	7	121.1	70.3	0.0							
FIRST CLOSED-IN											
C	1	0.0	70.3								
	2	15.0	914.2	843.9	13.3	0.958					
	3	30.0	1929.8	1459.5	24.0	0.703					
	4	45.0	1920.1	1849.8	32.8	0.567					
	5	60.0	2190.3	2120.1	40.1	0.460					
	6	75.0	2387.3	2310.0	46.3	0.417					
	7	90.0	2530.5	2460.2	51.6	0.370					
	8	105.1	2648.9	2578.7	56.2	0.333					
	9	120.0	2734.2	2664.0	60.3	0.303					
	10	135.0	2811.1	2740.9	63.8	0.278					
	11	150.0	2866.9	2798.6	67.0	0.257					
	12	165.0	2910.9	2840.6	69.8	0.239					
	13	180.0	2950.6	2880.4	72.4	0.223					
	14	195.0	2981.9	2911.7	74.7	0.210					
	15	210.0	3008.5	2938.2	76.8	0.198					
	16	225.0	3035.4	2965.1	78.7	0.187					
D	17	238.9	3057.3	2987.1	80.4	0.178					

REMARKS:

TLS
00024

TICKET NO. 25057400

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	7070.5	
4		FLEX WEIGHT.....	4.500	2.764	179.3	
3		DRILL COLLARS.....	6.500	2.750	274.0	
51		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	7524.3
3		DRILL COLLARS.....	6.500	2.750	61.4	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	7586.7
3		DRILL COLLARS.....	6.500	2.750	30.9	
258		BAR CATCHER SUB.....	5.750	1.000	1.0	7618.0
80		AP RUNNING CASE.....	5.000	2.250	4.1	7620.2
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	7639.1
80		AP RUNNING CASE.....	5.000	2.250	4.1	7641.2
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.000	1.530	5.8	7650.0
16		DISTRIBUTOR VALVE.....	5.000	1.880	2.0	
70		OPEN HOLE PACKER.....	6.000	1.530	5.8	7663.8
19		ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	32.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	7703.0
TOTAL DEPTH					7706.0	

EQUIPMENT DATA

EQUIPMENT DATA

819
00025



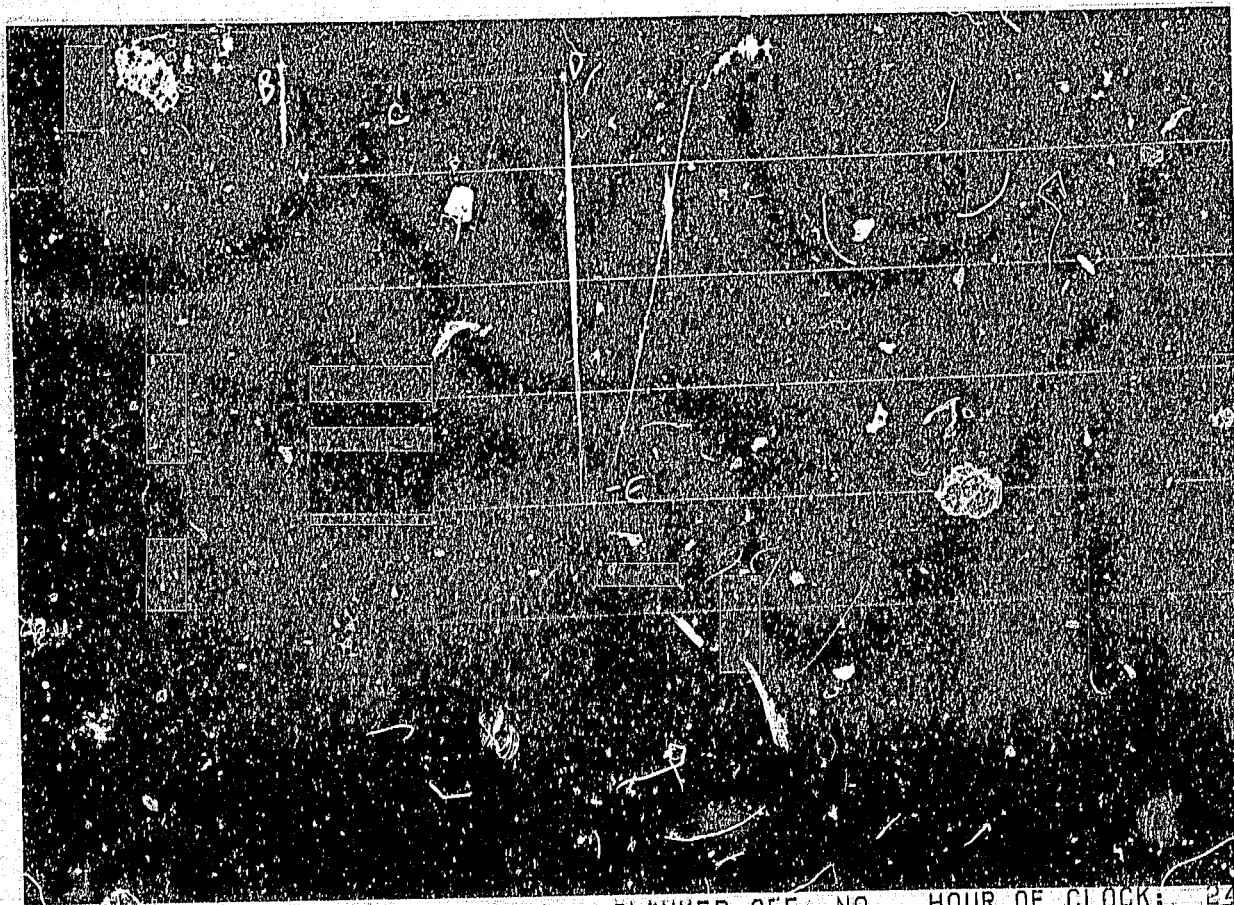
TICKET NO. 34550100
04-FEB-87
MOOMBA



FORMATION TESTING SERVICE REPORT

TRAYONGA	1	4	7692.0 - 773.0	DELHI PETROLEUM PTY. LIMITED
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. 1 TP. 1 RING.	REFER TO REMARKS SECTION	FIELD PRES.	COOPER BASIN	COUNTRY SOUTH AUSTRALIA
				STATE AUSTRALIA

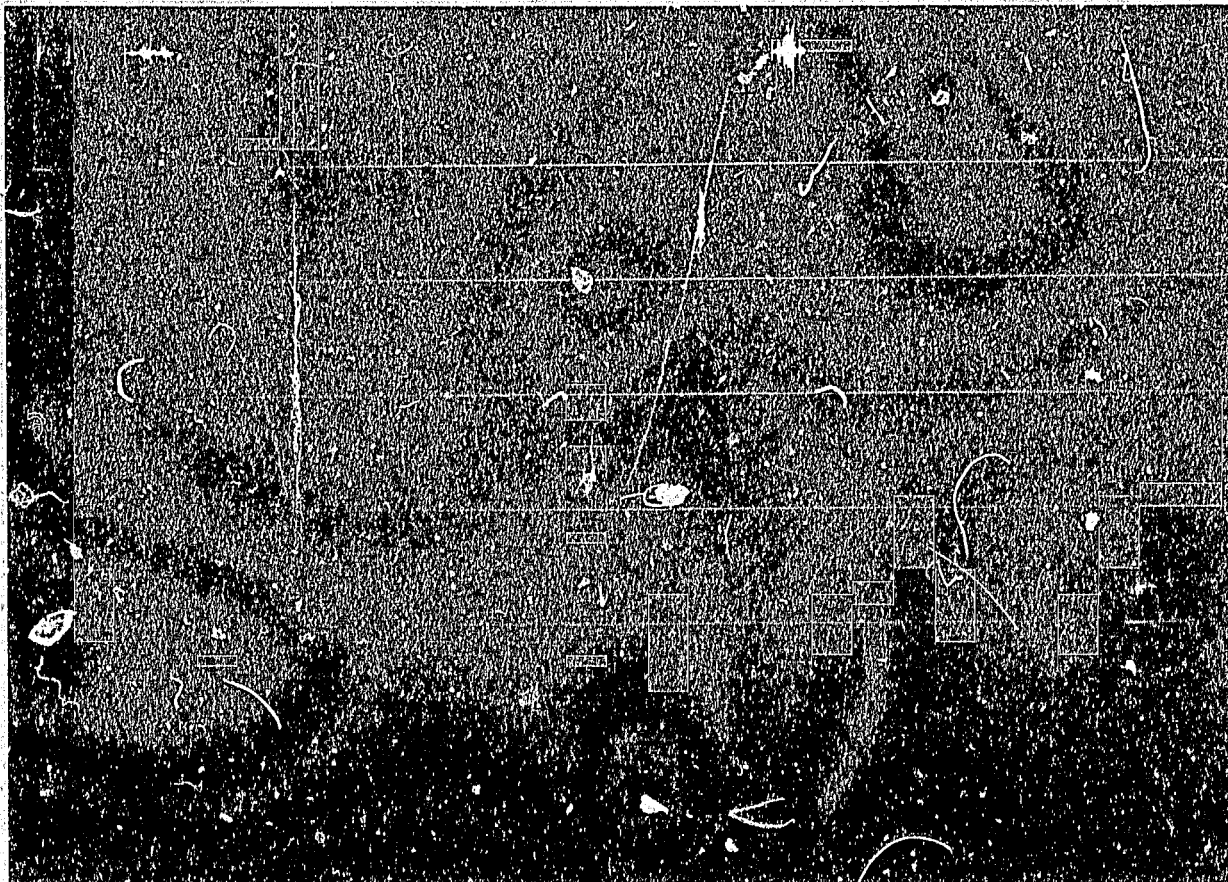
00026



GAUGE NO: 3289 DEPTH: 7648.0 BLANKED OFF: NO HOUR OF CLOCK: 24

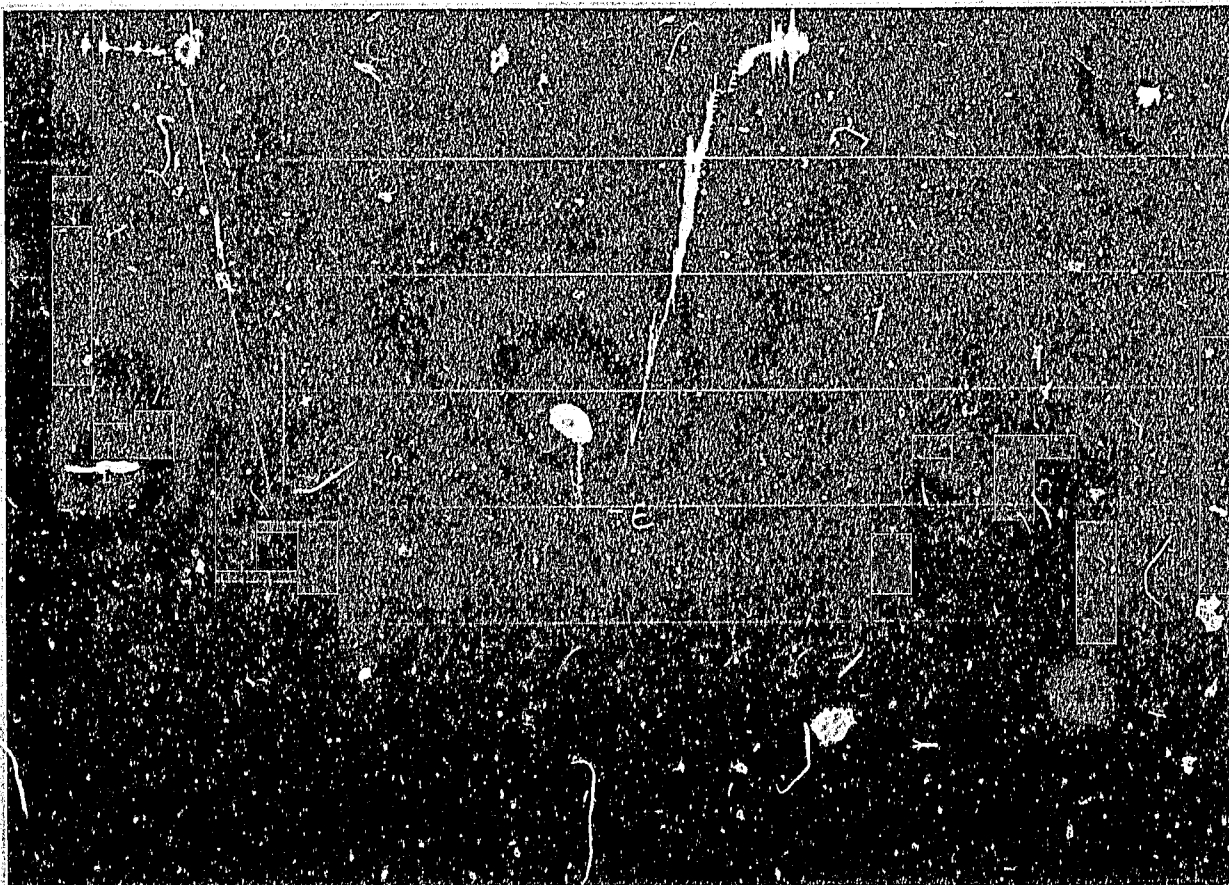
ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		86.2	120.0	119.7	F
C	FINAL FIRST FLOW		180.4			
C	INITIAL FIRST CLOSED-IN		180.4	240.0	240.3	C
D	FINAL FIRST CLOSED-IN	194	196.8			
E	FINAL HYDROSTATIC		3861.7			

00J27



GAUGE NO: 3896 DEPTH: 7669.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3857	3883.2			
B	INITIAL FIRST FLOW	107	125.6			
C	FINAL FIRST FLOW	192	196.8	120.0	119.7	F
C	INITIAL FIRST CLOSED-IN	192	196.8			
D	FINAL FIRST CLOSED-IN	3164	3176.1	240.0	240.3	C
E	FINAL HYDROSTATIC	3794	3883.2			



GAUGE NO: 5093 DEPTH: 7775.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3923	3907.9			
B	INITIAL FIRST FLOW	127	153.1	120.0	119.7	F
C	FINAL FIRST FLOW	234	243.1			
C	INITIAL FIRST CLOSED-IN	234	243.1	240.0	240.3	C
D	FINAL FIRST CLOSED-IN	3220	3238.1			
E	FINAL HYDROSTATIC	3882	3907.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: PATCHAWARRA

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 86.0

ALL DEPTHS MEASURED FROM: K B

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 8.500

ELEVATION (ft): 201.0

TOTAL DEPTH (ft): 7778.0

PACKER DEPTH(S) (ft): 7684, 7692

FINAL SURFACE CHOKE (in): 0.50000

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.70

MUD VISCOSITY (sec): 43

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 260 @ 7774.0 ft

TICKET NUMBER: 34550100

DATE: 10-13-86 TEST NO: 4

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: MOOMBA

TESTER: D. BURT

WITNESS: RAY ELL

DRILLING CONTRACTOR: RICHTER RIG #14

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Psig 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

RECOVERED:

385 FEET OF SLIGHTLY GAS CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS:

LEGAL LOCATION: 28 DEG 20' 52.8"S. LAT AND 140 DEG 49' 8.6". LONG

ET9
00031

TICKET NO: 34550100

CLOCK NO: 30368 HOUR: 24



GAUGE NO: 3229

DEPTH: 7648.0

REF	MINUTES	PRESSURE	AP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	86.2								
	2	10.0	77.8	-8.4							
	3	20.0	84.5	6.7							
	4	30.0	100.4	15.9							
	5	40.0	117.0	16.6							
	6	50.0	128.2	11.2							
	7	60.0	136.0	7.8							
	8	70.0	145.7	9.7							
	9	80.0	152.6	6.9							
	10	90.0	160.1	7.5							
	11	100.0	168.8	8.6							
	12	110.0	174.6	5.8							
C	13	119.7	180.4	5.8							
FIRST CLOSED-IN											
C	1	0.0	180.4								
D	2	240.3	196.8	16.4	79.9	0.178					

REMARKS:

00032

TICKET NO: 34550100

CLOCK NO: 30347 HOUR: 24



GAUGE NO: 3896

DEPTH: 7669.0

REF	MINUTES	PRESSURE	AP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	125.8								
	2	10.0	98.1	-27.6							
	3	20.0	102.6	4.5							
	4	30.0	115.8	13.2							
	5	40.0	128.8	13.0							
	6	50.0	140.8	12.0							
	7	60.0	151.5	10.7							
	8	70.0	159.0	7.5							
	9	80.0	167.5	8.5							
	10	90.0	175.9	8.3							
	11	100.0	182.9	7.1							
	12	110.0	190.2	7.3							
C	13	119.7	196.8	6.6							
FIRST CLOSED-IN											
C	1	0.0	196.8								
☐	2	7.5	376.5	179.7	7.0	1.232					
	3	10.0	463.2	266.9	9.2	1.112					
☐	4	23.4	1037.6	840.8	19.6	0.786					
	5	30.0	1370.4	1173.8	24.0	0.698					
	6	40.0	1629.6	1632.8	30.0	0.601					
	7	50.0	2174.5	1977.7	35.3	0.531					
	8	60.0	2405.3	2208.5	39.9	0.476					
	9	70.0	2563.5	2366.7	44.2	0.433					
	10	80.0	2682.2	2485.4	48.0	0.397					
☐	11	90.6	2778.1	2581.3	51.6	0.366					
☐	12	96.6	2825.9	2629.1	53.5	0.350					
	13	100.0	2877.9	2681.1	54.5	0.342					
	14	110.0	2903.2	2706.4	57.3	0.320					
☐	15	117.5	2936.7	2738.9	58.3	0.305					
	16	120.0	2967.5	2770.7	59.9	0.300					
	17	130.0	2989.2	2792.4	62.3	0.283					
	18	140.0	3011.3	2814.5	64.5	0.268					
	19	150.0	3039.7	2842.0	66.6	0.255					
	20	160.0	3065.5	2868.8	68.5	0.243					
	21	170.0	3084.9	2888.1	70.2	0.231					
	22	180.0	3111.3	2914.5	71.9	0.221					
	23	190.0	3121.2	2924.4	73.4	0.212					
	24	200.0	3134.2	2937.4	74.9	0.204					
	25	210.0	3146.4	2949.6	76.2	0.196					
	26	220.0	3158.8	2962.0	77.5	0.189					
	27	230.0	3166.6	2969.8	78.7	0.182					
D	28	240.3	3176.1	2979.3	79.9	0.176					

LEGEND:

☐ STAIR-STEP

REMARKS:

00033

TICKET NO: 34550100

CLOCK NO: 26294 HOUR: 24


HALLIBURTON
SERVICES

GAUGE NO: 5093

DEPTH: 7775.0

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	153.1								
	2	10.0	142.9	-10.2							
	3	20.0	150.1	7.2							
	4	30.0	166.7	16.6							
	5	40.0	179.4	12.7							
	6	50.0	191.5	12.1							
	7	60.0	198.9	7.4							
	8	70.0	208.7	9.8							
	9	80.0	217.4	8.7							
	10	90.0	224.2	6.8							
	11	100.0	232.1	7.9							
	12	110.0	238.9	6.8							
C	13	119.7	243.1	4.2							
FIRST CLOSED-IN											
C	1	0.0	243.1								
	2	10.0	513.4	270.3	9.3	1.112					
	3	20.0	907.6	664.5	17.2	0.844					
	4	30.0	1402.9	1159.8	24.0	0.697					
	5	40.0	1843.4	1600.3	30.0	0.601					
	6	50.0	2192.0	1948.9	35.3	0.531					
	7	60.0	2438.0	2194.9	40.0	0.476					
	8	70.0	2607.4	2364.3	44.2	0.433					
	9	80.0	2738.7	2495.6	47.9	0.397					
	10	90.0	2833.2	2590.1	51.4	0.367					
	11	100.0	2902.1	2659.0	54.6	0.342					
	12	110.0	2955.3	2712.2	57.3	0.320					
	13	120.0	3002.1	2759.0	59.9	0.300					
	14	130.0	3041.4	2798.3	62.3	0.283					
	15	140.0	3071.8	2828.7	64.5	0.268					
	16	150.0	3099.6	2856.5	66.6	0.255					
	17	160.0	3125.7	2882.6	68.5	0.243					
	18	170.0	3145.8	2902.7	70.2	0.232					
	19	180.0	3165.2	2922.1	71.9	0.221					
	20	190.0	3183.4	2940.3	73.4	0.212					
	21	200.0	3194.6	2951.5	74.9	0.204					
	22	210.0	3206.6	2963.5	76.2	0.196					
	23	220.0	3218.2	2975.1	77.5	0.189					
	24	230.0	3228.4	2985.3	78.7	0.182					
D	25	240.3	3238.1	2995.0	79.9	0.176					

REMARKS:

00034

TICKET NO. 34550100

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	7040.6	
4		FLEX WEIGHT.....	4.500	2.764	179.3	
3		DRILL COLLARS.....	6.500	2.750	332.1	
51		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	7552.5
3		DRILL COLLARS.....	6.500	2.750	61.4	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	7614.9
3		DRILL COLLARS.....	6.500	2.750	30.9	
258		BAR CATCHER SUB.....	5.750	1.000	1.0	7647.0
80		AP RUNNING CASE.....	5.000	2.250	4.1	7648.4
5		CROSSOVER.....	5.000	2.200	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	1.9	
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	7667.0
80		AP RUNNING CASE.....	5.000	2.250	4.1	7669.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.000	1.530	5.8	7684.2
18		DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70		OPEN HOLE PACKER.....	6.000	1.530	5.8	7692.0
18		ANCHOR PIPE SAFETY JOINT.....	5.000	2.370	4.3	
5		CROSSOVER.....	6.250	2.750	1.0	
3		DRILL COLLARS.....	6.500	2.750	29.8	
5		CROSSOVER.....	6.250	2.750	1.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	44.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	7775.0
TOTAL DEPTH					7778.0	

EQUIPMENT DATA

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