PALM VALLEY #2

WELL TEST REPORT

OPEN FILE

L.N. FRANKS,
MAGELLAN PETROLEUM (N.T.) LIMITED

AUGUST 1987

DEPT OF MINES & ENERGY
DO NOT REMOVE
P01000

INDEX

MAGELLAN PETROLEUM - WIRELINE OPS.

OPERATIONS REPORT

PALM VALLEY 2.

3-8-87

1100 Commence wireline rig up.

1430 Pressure lubricator.

1445 Commence recording lubricator calibration check and first flowing gradient stop.
Well controller in auto.

1546 SPP - 13984 Kpaa. at 14.6 deg. C.

EDL - 14016 Kpaa. at 25.0 deg. C.

Vaetrix gauge - 13830 Kpag.

Well producing at 11120 M3/HR, 34% choke.

F.W.H.T. is 40 deg. C.

R.I.H.

1607 Hang gauge at 1000' KB.

1619 SPP - 13949 Kpa. at 15.2 deg. C.

EDL - 14631 Kpa. at 50.2 deg. C.

R.I.H.

1624 Hang gauge at 2000' KB.

1635 SPP - 13905 Kpa. at 14.9 deg. C.

EDL - 15228 Kpa. at 55.4 deg. C.

R.I.H.

1640 Hang gauge at 3000' KB.

1653 SPP - 13619 Kpa. at 14.2 deg. C.

EDL - 15731 Kpa. at 60.5 deg. C.

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1653 R.I.H.
Due to constant pressure changes as controller opens and closes, controller changed to manual operation at 35%
Well producing 12450 m3/hr. at 39.8 deg. C.

1702 Hang gauge at 4000' KB.

1708 SPP - 13420 Kpa. at 13.3 deg. C.

EDL - 16303 Kpa. at 65.1 deg. C.

R.I.H.

1712 Hang gauge at 5000' KB.

1722 SPP - 13421 Kpa. at 12.5 deg. C.

EDL - 16973 Kpa. at 68.7 deg. C.

R.I.H.

1724 Hang gauge at 5500' KB.

1731 SPP - 13412 Kpa. at 12.1 deg. C.

EDL - 17321 Kpa. at 70.3 deg. C.
R.I.H.

1733 Hang gauge at 5750' KB.

1739 SPP - 13404 Kpa. at 11.8 deg. C.

EDL - 17491 Kpa. at 71.0 deg. C.
R.I.H.

1744 Hang gauge at 6000' KB.

SPP - 13395 Kpa. at 11.7 deg. C.

EDL - 17670 Kpa. at 71.8 deg. C.

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1744	R.I.H.
1746	Hang gauge at 6145' KB. (Survey datum depth)
1751	Well producing at 12300 M3/HR, 35% choke.
	F.W.H.T. is 39.8 deg. C.
1915	SPP - 13341 Kpa. at 8.6 deg. C.
	EDL - 17840 Kpa. at 72.3 deg. C.
	Well producing at 11550 M3/HR, 30% choke.
	F.W.H.T. is 39.8 deg. C.
	Well controller put back on automatic.
2240	SPP - 12945 Kpa. at 6.2 deg. C.
	EDL - 17780 Kpa. at 72.3 deg. C.
	Well producing at 14040 M3/HR, 40% choke.
	F.W.H.T. is 39.0 deg. C.

4-8-87

0000	SPP - 13232 Kpa. at 5.8 deg. C.
	EDL - 17805 Kpa. at 72.3 deg. C.
0200	SPP - 13684 Kpa. at 4.5 deg. C.
	EDL - 17848 Kpa. at 72.3 deg. C.
0400	SPP - 13693 Kpa. at 4.1 deg. C.
	EDL - 17866 Kpa. at 72.3 deg. C.

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0600 SPP - 13858 Kpa. at 3.4 deg. C.

EDL - 17874 Kpa. at 72.3 deg. C.

0725 Pressure controller adjusted to slightly lower setting.

0800 SPP - 14075 Kpa. at 7.6 deg. C.

EDL - 17831 Kpa. at 72.3 deg. C.

Well producing at 8130 M3/HR, 22% choke.

F.W.H.T. is 39.0 deg. C.

N.B. Controller opening and closing exessively.

0800 SPP - 13858 Kpa. at 3.4 deg. C.

EDL - 17874 Kpa. at 72.3 deg. C.

1000 SPP - 11386 Kpa. at 14.6 deg. C.

EDL - 17694 Kpa. at 72.2 deg. C.

1200 SPP - 13574 Kpa. at 16.9 deg. C.

EDL - 17857 Kpa. at 72.3 deg. C.

Well producing at 12340 M3/HR, 35% choke.
Controller settles.
F.W.H.T. is 39.5 deg. C.

1400 SPP - 13339 Kpa. at 16.6 deg. C.

EDL - 17823 Kpa. at 72.3 deg. C.

1600 SPP - 13401 Kpa. at 15.0 deg. C.

EDL - 17831 Kpa. at 72.3 deg. C.

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1800 SPP - 12736 Kpa. at 10.4 deg. C.

EDL - 17771 Kpa. at 72.3 deg. C.

Well producing at 14140 M3/HR, 43% choke.
F.W.H.T. is 39.5 deg. C.

2000 SPP - 12763 Kpa. at 7.1 deg. C.

EDL - 17771 Kpa. at 72.3 deg. C.

2200 SPP - 12798 Kpa. at 6.2 deg. C.

EDL - 17762 Kpa. at 72.3 deg. C.

2300 Well producing at 13900 M3/HR ,45% choke.
F.W.H.T. is 39.4 deg. C.

5-8-87

0000 SPP - 12650 Kpa. at 5.4 deg. C.

EDL - 17754 Kpa. at 72.3 deg. C.

0200 SPP - 12625 Kpa. at 4.3 deg. C.

EDL - 17745 Kpa. at 72.3 deg. C.

0400 SPP - 12529 Kpa. at 3.5 deg. C.

EDL - 17737 Kpa. at 72.3 deg. C.

0600 SPP - 12486 Kpa. at 2.9 deg. C.

EDL - 17728 Kpa. at 72.3 deg. C.

0800 SPP - 13302 Kpa. at 6.2 deg. C.

EDL - 17814 Kpa. at 72.3 deg. C.
Well producing at 10160 M3/HR, 37% choke.
F.W.H.T. is 39.4 deg. C.

MAGELLAN PETROLEUM - WIRELINE OPS.

OPERATIONS REPORT

PALM VALLEY 2.

5-8-87

1000 SPP - 11386 Kpa. at 14.6 deg. C.

EDL - 17694 Kpa. at 72.2 deg. C.

1016 SPP - 11386 Kpa. at 14.6 deg. C.

EDL - 17694 Kpa. at 72.2 deg. C.
Well producing at 9760 M3/HR, 38% choke.
F.W.H.T. is 39.4 deg. C.

End of flowing bottomhole pressure survey, P.O.O.H.

1121 O.O.H.

SPP - 12410 Kpa. at 16.0 deg. C.

EDL - 12642 Kpa. at 35.9 deg. C.

Well producing at 16150 M3/HR, 38% choke.

F.W.H.T. is 39.5 deg. C.

Commence post survey tool calibration check in lubricator. Increased flow rate due to Mereenie supply to Darwin pipeline temporarily stopped.

1310 SPP - 12463 KpaA. at 14.9 deg. C.

EDL - 12499 KpaA. at 21.3 deg. C.

Vaetrix gauge - 12266 KpaG.

Well producing at 15240 M3/HR, 46% choke.

F.W.H.T. is 39.4 deg. C.

End of post survey tool calibration check in lubricator.

MAGELLAN PETROLEUM - WIRELINE OPS.

CALIBRATION REPORT - 25/7/87

E.D.L. # 119 & S.P.P. 019

25-7-87

Time (hrs.)	D.W.T Kpa-G	E.D.L. - 119 Pressure Kpa-A	E.D.L. - 119 Temp. C.	S.P.P. - 019 Pressure Kpa-A	S.P.P. - 019 Temp. C.	W/Head Therm. Temp., ambiant Degrees C.
1835	00000	00143	23.7	00112	14.3	n/a
(Aneroid barom. - 916.6 mbar)						
1852	01000	01144	23.9	01115	15.2	n/a
1854	02000	02142	24.0	02114	15.2	n/a
1857	03000	03136	24.0	03110	15.2	n/a
1859	04000	04138	24.0	04114	15.2	n/a
1901	05000	05133	24.0	05110	15.2	n/a
1904	06000	06135	24.1	06106	15.2	n/a
1907	07000	07129	24.1	07111	15.2	n/a
1909	08000	08133	24.1	08110	15.2	n/a
0722	08000	08126	16.5	08088	7.8	n/a
0725	09000	09121	16.6	09087	8.0	n/a
0728	10000	10125	16.8	10095	8.2	n/a

MAGELLAN PETROLEUM - WIRELINE OPS.

CALIBRATION REPORT - 26/7/87

E.D.L. # 119 & S.P.P. 019

26-7-87

Time (hrs.)	D.W.T Kpa-G	E.D.L. - 119 Pressure Kpa-A	E.D.L. - 119 Temp. C.	S.P.P. - 019 Pressure Kpa-A	S.P.P. - 019 Temp. C.	W/Head Therm. Temp., ambiant Degrees C.
0731	11000	11120	17.0	11094	8.3	n/a
0734	12000	12115	17.1	12093	8.6	n/a
0736	13000	13119	17.3	13093	8.6	n/a
0739	14000	14114	17.5	14092	8.7	n/a
0741	15000	15111	17.6	15085	8.6	n/a
0743	16000	16108	17.7	16086	8.8	n/a
0745	17000	17105	17.8	17078	8.9	n/a
0747	18000	18103	17.9	18082	9.0	n/a
0749	19000	19103	18.1	19076	9.0	n/a
0751	20000	20102	18.2	20080	9.1	n/a
0754	0000	00136	18.3	00112	9.3	n/a

(Aneroid barom. - 918.1 mbar)

End

MAGELLAN PETROLEUM - WIRELINE OPS.

CALIBRATION REPORT - 2/8/87

VAETRIX GAUGE # 1152

2-8-87 (After PV 3 test)

Budenberg D.W.T. # 1152	Vaetrix gauge
1000 Kpag	997 Kpag
2000 "	1995 "
3000 "	2992 "
4000 "	3990 "
5000 "	4988 "
11000 "	10962 "
12000 "	11959 "
13000 "	12958 "
14000 "	13953 "
15000 "	14951 "
16000 "	15947 "
17000 "	16942 "
18000 "	17936 "

MAGELLAN PETROLEUM – WIRELINE OPS.

CALIBRATION REPORT – 6/8/87

E.D.L. # 119 & S.P.P. 019

6-8-87

Time (hrs.)	D.W.T Kpa-G	E.D.L. - 119 Pressure Kpa-A	E.D.L. - 119 Temp. C.	S.P.P. - 019 Pressure Kpa-A	S.P.P. - 019 Temp. C.	W/Head Therm. Temp., ambiant Degrees C.
0822	00000	00120	18.0	00095	9.0	11.5
(Aneroid barom. - 924.0 mbar)						
0829	10000	10013	18.2	10085	9.5	11.9
0831	11000	11116	18.3	11075	9.8	12.1
0834	12000	12111	18.4	12084	10.0	12.3
0838	13000	13106	18.6	13084	10.1	12.4
0840	14000	14110	18.8	14084	10.2	12.4
0842	15000	15107	18.8	15076	10.2	12.5
0844	16000	16104	19.0	16077	10.3	12.4
0846	17000	17102	19.1	17078	10.3	12.5
0848	18000	18100	19.2	18082	10.4	12.6
0850	19000	19091	19.3	19076	10.4	12.6
0900	0000	00142	19.7	00112	10.4	12.9
(Aneroid barom. - 924.5 mbar)						

Please note that calibration check performed to cover survey range only.

MAGELLAN PETROLEUM – WIRELINE OPS.

CALIBRATION REPORT – 6/8/87

VAETRIX GAUGE # 1152

6-8-87 (After PV 3 test)

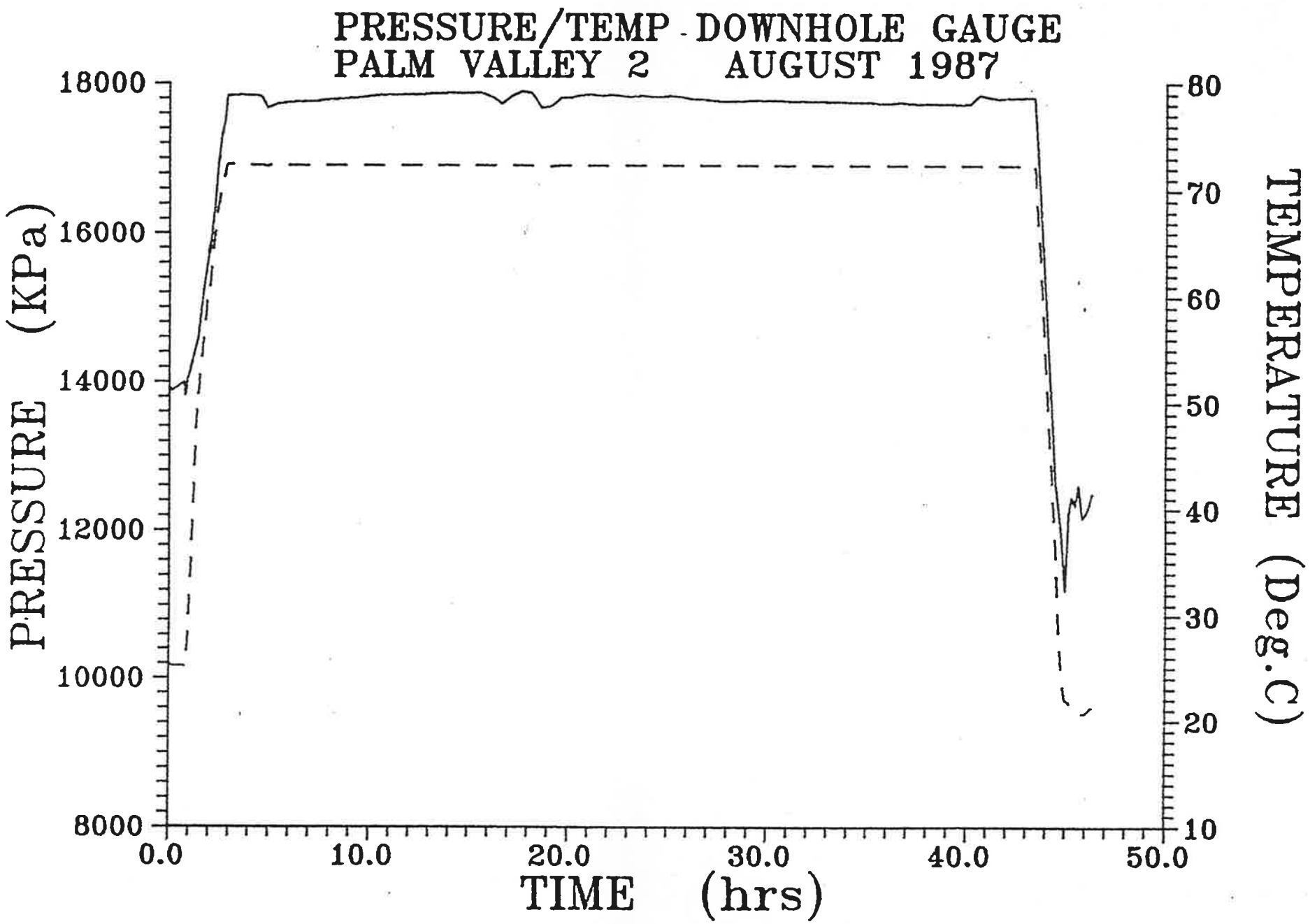
Budenberg D.W.T. # 1152	Vaetrix gauge
10000 "	9968 "
11000 "	10964 "
12000 "	11960 "
13000 "	12958 "
14000 "	13953 "

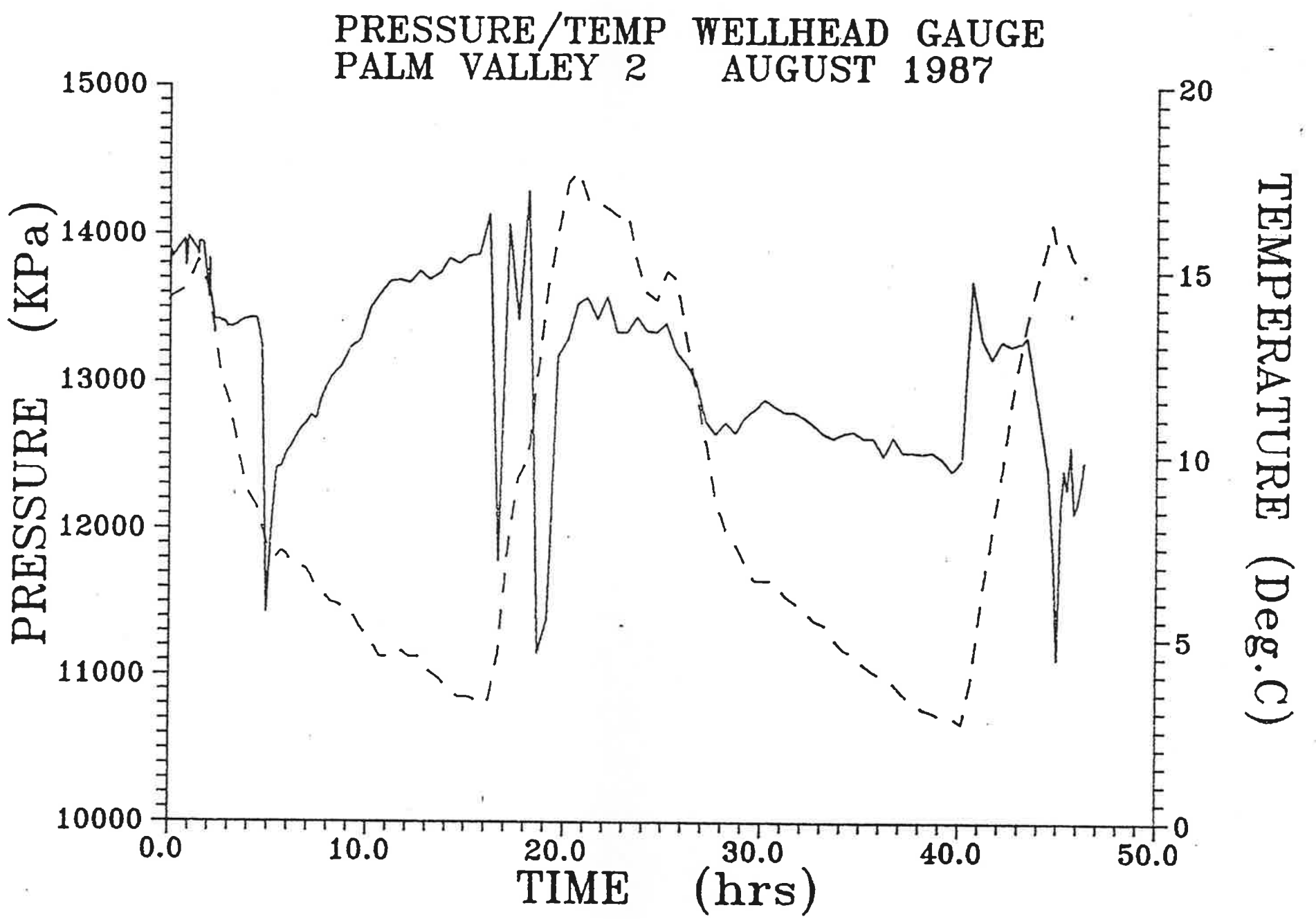
Calibration check covers range of survey only.

DATE	TIME	UNITS/ INTERVAL	PROBE - 119 PRESSURE	TEMP	PROBE - 19 PRESSURE	TEMP
3 Aug 87	14:51:50	METRIC	13802.0	25.3	13776.0	14.2
	14:55: 2	5 min	13922.0	25.4	13889.0	14.3
	15: 0: 2		13871.0	25.1	13845.0	14.3
	15:38: 9		13999.0	25.1	13967.0	14.5
	15:40: 1		13811.0	25.0	13784.0	14.5
	15:45: 1		13948.0	25.0	13914.0	14.6
	15:46:21	12 hr	14016.0	25.1	13984.0	14.6
	16:17:11	1 min	14571.0	50.2	13879.0	15.3
	16:18: 0		14562.0	50.1	13862.0	15.3
	16:19: 0		14631.0	50.2	13949.0	15.2
	16:19: 5	12 hr	14631.0	50.2	13949.0	15.2
	16:34: 5	1 min	15237.0	55.4	13940.0	14.9
	16:35: 1	12 hr	15228.0	55.4	13905.0	14.9
	16:49: 8	1 min	15688.0	60.5	13567.0	14.5
	16:50: 0		15731.0	60.5	13671.0	14.5
	16:51: 0		15808.0	60.6	13836.0	14.4
	16:52: 0		15834.0	60.6	13810.0	14.3
	16:53: 0		15748.0	60.5	13637.0	14.3
	16:53:21	12 hr	15731.0	60.5	13619.0	14.2
	17: 7: 7	1 min	16303.0	65.1	13420.0	13.4
	17: 7:59	12 hr	16303.0	65.1	13420.0	13.3
	17:21: 5	1 min	16973.0	68.7	13421.0	12.6
	17:21:59	12 hr	16973.0	68.7	13421.0	12.5
	17:30: 2	1 min	17313.0	70.3	13412.0	12.2
	17:30:59	CONT	17321.0	70.3	13412.0	12.1
	17:31: 2		17321.0	70.3	13404.0	12.1
	17:31: 2		17321.0	70.3	13412.0	12.1
	17:31: 2		17313.0	70.3	13412.0	12.1
	17:31:12	12 hr	17321.0	70.3	13412.0	12.1
	17:38:11		17491.0	71.0	13404.0	11.8
	17:39:14		17491.0	71.0	13404.0	11.8
	17:43:11		17670.0	71.8	13387.0	11.7
	17:44:16		17670.0	71.8	13395.0	11.7
	17:46:53	1 min	17823.0	72.3	13369.0	11.6
	17:47: 2		17823.0	72.3	13369.0	11.6
	17:48: 2		17831.0	72.3	13369.0	11.6
	17:49: 2		17831.0	72.3	13369.0	11.6
	17:50: 2		17831.0	72.3	13378.0	11.5
	17:51: 1		17831.0	72.4	13378.0	11.5
	17:51:19	15 min	17831.0	72.4	13378.0	11.5
	18: 0: 1		17840.0	72.4	13370.0	11.1
	18:15: 1		17840.0	72.4	13388.0	10.4
	18:30: 1		17848.0	72.4	13414.0	9.7
	18:45: 1		17840.0	72.3	13423.0	9.1
	19: 0: 2		17840.0	72.3	13431.0	8.8
	19:15: 2		17840.0	72.3	13431.0	8.6
	19:30: 2		17814.0	72.3	13240.0	8.1
	19:45: 2		17677.0	72.2	11425.0	7.6
	20: 0: 1		17694.0	72.3	12016.0	7.3
	20:15: 1		17728.0	72.3	12415.0	7.2
	20:30: 1		17737.0	72.3	12424.0	7.4
	20:45: 1		17745.0	72.3	12519.0	7.3
	21: 0: 0		17745.0	72.3	12563.0	7.1
	21:15: 0		17754.0	72.3	12632.0	7.1

DATE	TIME	UNITS/ INTERVAL	PROBE - 119 PRESSURE	PROBE - 119 TEMP	PROBE - 19 PRESSURE	PROBE - 19 TEMP
3 Aug 87	21:30: 0	METRIC	17754.0	72.3	12685.0	7.0
	21:45: 0	15 min	17762.0	72.3	12719.0	6.9
	22: 0: 1		17762.0	72.3	12772.0	6.7
	22:15: 1		17762.0	72.3	12746.0	6.4
	22:30: 1		17771.0	72.3	12876.0	6.3
	22:42:13	30 min	17780.0	72.3	12945.0	6.2
	23: 0: 0		17788.0	72.3	13032.0	6.0
	23:30: 0		17797.0	72.3	13102.0	5.9
4 Aug 87	0: 0:13		17805.0	72.3	13232.0	5.8
	0:30: 0		17814.0	72.3	13284.0	5.3
	1: 0: 0		17831.0	72.3	13501.0	5.0
	1:30: 0		17848.0	72.3	13597.0	4.5
	2: 0: 0		17848.0	72.3	13684.0	4.5
	2:30: 1		17857.0	72.3	13692.0	4.7
	3: 0: 1		17857.0	72.3	13675.0	4.5
	3:30: 1		17857.0	72.3	13753.0	4.5
	4: 0: 1		17866.0	72.3	13693.0	4.1
	4:30: 1		17866.0	72.3	13736.0	3.9
	5: 0: 1		17874.0	72.3	13840.0	3.6
	5:30: 1		17866.0	72.3	13805.0	3.4
	6: 0: 1		17874.0	72.3	13858.0	3.4
	6:30: 0		17874.0	72.3	13866.0	3.3
	7: 0: 0		17823.0	72.3	14145.0	3.2
	7:30: 0		17728.0	72.2	11782.0	4.6
	8: 0: 0		17831.0	72.3	14075.0	7.6
	8:30: 2		17891.0	72.3	13423.0	9.4
	9: 0: 2		17874.0	72.3	14301.0	9.9
	9:30: 2		17677.0	72.2	11152.0	12.3
	10: 0: 2		17694.0	72.2	11386.0	14.6
	10:30: 2		17814.0	72.3	13175.0	16.1
	11: 0: 2		17814.0	72.3	13286.0	17.4
	11:30: 2		17840.0	72.3	13529.0	17.7
	12: 0: 2		17857.0	72.3	13574.0	16.9
	12:30: 2		17831.0	72.3	13426.0	16.9
	13: 0: 2		17848.0	72.3	13582.0	16.7
	13:30: 2		17831.0	72.3	13339.0	16.5
	14: 0: 2		17823.0	72.3	13339.0	16.6
	14:30: 1		17831.0	72.3	13445.0	15.2
	15: 0: 1		17823.0	72.3	13350.0	14.4
	15:30: 1		17823.0	72.3	13341.0	14.2
	16: 0: 1		17831.0	72.3	13401.0	15.0
	16:30: 1		17823.0	72.3	13210.0	14.8
	17: 0: 1		17797.0	72.4	13125.0	13.2
	17:30: 1		17788.0	72.3	13013.0	11.8
	18: 0: 1		17771.0	72.3	12736.0	10.4
	18:30: 2		17762.0	72.3	12649.0	8.8
	19: 0: 2		17762.0	72.3	12728.0	8.0
	19:30: 2		17762.0	72.3	12658.0	7.6
	20: 0: 2		17771.0	72.3	12763.0	7.1
	20:30: 1		17771.0	72.3	12815.0	6.6
	21: 0: 1		17771.0	72.3	12885.0	6.6
	21:30: 1		17771.0	72.3	12841.0	6.6
	22: 0: 1		17762.0	72.3	12798.0	6.2
	22:30: 1		17762.0	72.3	12798.0	6.0

DATE	TIME	UNITS/ INTERVAL	PROBE - 119 PRESSURE	TEMP	PROBE - 19 PRESSURE	TEMP
4 Aug 87	23: 0: 1	METRIC	17762.0	72.3	12763.0	5.8
	23:30: 1	30 min	17762.0	72.3	12711.0	5.5
5 Aug 87	0: 0:14		17754.0	72.3	12650.0	5.4
	0:30: 1		17754.0	72.3	12624.0	5.0
	1: 0: 1		17745.0	72.3	12659.0	4.7
	1:30: 1		17745.0	72.3	12668.0	4.6
	2: 0: 1		17745.0	72.3	12625.0	4.3
	2:30: 0		17737.0	72.3	12625.0	4.1
	3: 0: 0		17737.0	72.3	12503.0	4.0
	3:30: 0		17745.0	72.3	12633.0	3.8
	4: 0: 0		17737.0	72.3	12529.0	3.5
	4:30: 1		17728.0	72.3	12529.0	3.3
	5: 0: 1		17737.0	72.3	12521.0	3.1
	5:30: 1		17728.0	72.3	12530.0	3.0
	6: 0: 1		17728.0	72.3	12486.0	2.9
	6:30: 2		17719.0	72.3	12399.0	2.9
	7: 0: 2		17728.0	72.3	12478.0	2.7
	7:30: 2		17848.0	72.3	13693.0	4.0
	8: 0: 2		17814.0	72.3	13302.0	6.2
	8:30: 2		17797.0	72.3	13162.0	7.8
	9: 0: 2		17805.0	72.3	13284.0	9.5
	9:30: 2		17805.0	72.3	13248.0	11.5
	10: 0: 2		17814.0	72.3	13273.0	12.9
	10:16:20		17814.0	72.3	13316.0	13.7
	11:21:46	10 min	12642.0	35.9	12410.0	16.0
	11:30: 1		12284.0	28.4	12089.0	16.3
	11:40: 1		11883.0	24.2	11776.0	15.8
	11:50: 1		11193.0	22.0	11116.0	15.8
	12: 0: 1		12214.0	21.9	12150.0	15.8
	12:10: 1		12464.0	21.5	12410.0	15.9
	12:20: 1		12337.0	21.1	12280.0	15.7
	12:30: 1		12620.0	21.1	12576.0	15.4
	12:40: 1		12166.0	20.7	12115.0	15.3
	12:50: 2		12217.0	20.7	12167.0	15.1
	13: 0: 2		12328.0	21.0	12289.0	15.0
	13:10: 2		12482.0	21.3	12446.0	14.9
	13:10:43		12499.0	21.3	12463.0	14.9


PRESSURE/TEMP - DOWNHOLE GAUGE
PALM VALLEY 2 AUGUST 1987
PRESSURE (KPa)
18000
16000
14000
12000
10000
8000
TEMPERATURE (Deg.C)
80
70
60
50
40
30
20
10
0.0
10.0
20.0
30.0
40.0
50.0
TIME (hrs)


PRESSURE/TEMP WELLHEAD GAUGE
PALM VALLEY 2 AUGUST 1987
PRESSURE (KPa)
15000
14000
13000
12000
11000
10000
TEMPERATURE (Deg.C)
20
15
10
5
0
0.0
10.0
20.0
30.0
40.0
50.0
TIME (hrs)