

N.E.B. COPY

PARAMOUNT et al LIARD
F-36
MATTSON / 1455 - 1494 M
DST # 3



Delta-P Test Corp.

WELL TESTING AND EVALUATIONS

NATIONAL ENERGY BOARD
ENGINEERING BRANCH
APR - 1 1998

BAKER OIL TOOLS
DELTA-P TEST CORP
WELL TESTING AND DST EVALUATIONS

PARAMOUNT et al LIARD
F-36
MATTSON / 1455 – 1494 M
DST # 3

Wed, Mar 25, 1998

PARAMOUNT ET AL LIARD

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MATTSON / 1455 - 1494 M

DST # 3

CLOSED CHAMBER REPORT SUMMARY

FLOW TIMES (minutes)

FLOW # 1 = 5.25	SHUT IN # 1 = 63
FLOW # 2 = 61	SHUT IN # 2 = 61
FLOW # 3 = 59	SHUT IN # 3 = 95

FLOW RATES (m3/D)

	GAS	LIQUID
	---	-----
FLOW # 1 initial	30650	0
final	4801	0
FLOW # 2 initial	50379	0
final	36250	0
FLOW # 3 initial	35704	0
final	31277	0

RECOVERY

LENGTH (m)	VOLUME (m3)	DESCRIPTION
-----	-----	-----
80	.28	GASIFIED DRILLING MUD
80	.28	TOTAL RECOVERY

COMMENTS

A CLOSED CHAMBER / REAL TIME TEST WAS PERFORMED ON THE MATTSON FORMATION WITH THESE RESULTS:

PREFLOW

A DEFINITIVE GAS FLOW WAS NOTED THROUGHOUT. RATES FLUCTUATED WIDELY AS INTERMITTENT PLUGGING OCCURRED. THESE REACTIONS WERE CONFIRMED ON REALTIME.

INITIAL SHUTIN

ONLY TWO MINUTES OF BREAKOUT OCCURRED. THE CHAMBER WAS FLARED TO THE PIT AT MINUTE # 10. GAS TO SURFACE WAS IMMEDIATE. A SAMPLE WAS CAUGHT WHILE VENTING. THE SHUTIN PRESSURE WAS SO CLOSE TO HYDROSTATIC THE VALIDITY

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COULD NOT BE DETERMINED SO PLANS FOR A THIRD SHUTIN
PERIOD WERE FORMULATED.

SECOND FLOW PERIOD

THE SECOND FLOW WAS RAN IN CLOSED MODE FOR THE FIRST
SIX MINUTES THEN OPENED TO FLARE AND CONTINUED IN OPEN
MODE. POSSIBLE DEPLETION WAS EVIDENT.

SECOND SHUTIN

THE CHAMBER WAS LEFT OPEN TO VENT CONTENTS TO FLARE.
NO SIGNIFICANT LIQUIDS WERE EXPELLED WHILE FLARING.
REAL TIME SUGGESTED POSSIBLE DEPLETION.

THIRD FLOW

THE THIRD FLOW WAS RAN IN OPEN MODE THROUGHOUT. RATES
PEAKED AT MINUTE 20 AND DECLINED SLOWLY AND STEADILY
FOR THE REMAINDER.

THIRD SHUTIN

THE CHAMBER WAS LEFT OPEN TO THE PIT. REAL TIME AGAIN
INDICATED POSSIBLE DEPLETION.

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GAS FLOW RATES AND TIMES

TestTime	FlowTime Min.	Pressure KPa abs.	Dp/Dt KPa/min	Gas Rate m3/D
----------	------------------	----------------------	------------------	------------------

START OF FLOW # 1

01:27:45	.00	95.26		
01:28:00	.25	95.80	2.16	251.1
01:28:15	.50	95.95	.60	69.8
01:28:30	.75	100.57	18.48	2148.9
01:28:45	1.00	115.15	58.32	6784.8
01:29:00	1.25	140.30	100.60	11712.8
01:29:15	1.50	196.07	223.08	26019.0
01:29:30	1.75	261.63	262.24	30650.1
01:29:45	2.00	279.00	69.48	8125.2
01:30:00	2.25	294.61	62.44	7305.5
01:30:15	2.50	313.36	75.00	8780.3
01:30:30	2.75	335.05	86.76	10164.1
01:30:45	3.00	361.82	107.08	12555.3
01:31:00	3.25	381.38	78.24	9179.5
01:31:15	3.50	410.75	117.48	13796.3
01:31:30	3.75	438.04	109.16	12830.4
01:31:45	4.00	463.94	103.60	12187.0
01:32:00	4.25	491.81	111.48	13125.7
01:32:15	4.50	512.30	81.96	9656.4
01:32:30	4.75	535.28	91.92	10837.9
01:32:45	5.00	554.24	75.84	8947.4
01:33:00	5.25	564.41	40.68	4800.9

START OF SHUT IN # 1

01:33:00	.00	564.41	.00	
01:35:00	2.00	570.23	2.91	
01:40:00	7.00	570.05	-.04	
01:45:00	12.00	179.43	-78.12	
01:50:00	17.00	94.92	-16.90	
01:55:00	22.00	94.39	-.11	
02:00:00	27.00	94.30	-.02	
02:05:00	32.00	94.22	-.02	
02:10:00	37.00	94.14	-.02	
02:15:00	42.00	94.11	-.01	
02:20:00	47.00	94.05	-.01	
02:25:00	52.00	93.96	-.02	
02:30:00	57.00	93.86	-.02	
02:35:00	62.00	93.82	-.01	
02:36:00	63.00	94.39	.57	

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DST # 3

GAS FLOW RATES AND TIMES

TestTime	FlowTime Min.	Pressure KPa abs.	Dp/Dt KPa/min	Gas Rate m3/D
START OF FLOW # 2				
02:36:00	.00	94.39		
02:37:00	1.00	454.65	360.26	42366.7
02:38:00	2.00	946.38	491.73	58757.1
02:39:00	3.00	1364.08	417.70	50606.2
02:40:00	4.00	1773.62	409.54	50307.5
02:41:00	5.00	2156.15	382.53	47610.4
02:42:00	6.00	2520.85	364.70	45972.0
START OF CONVENTIONAL FLOW				
02:43:00	7.00	2454.50	-66.35	50379.8
02:46:00	10.00	2160.20	-98.10	39477.6
02:56:00	20.00	1771.12	-38.91	37601.0
03:06:00	30.00	1725.52	-4.56	40719.8
03:16:00	40.00	1619.26	-10.63	37444.5
03:26:00	50.00	1573.92	-4.53	37112.8
03:37:00	61.00	1521.74	-4.74	36250.2
END OF CONVENTIONAL FLOW				

START OF SHUT IN # 2

03:37:00	.00	1521.74	.00	
03:40:00	3.00	890.95	-210.26	
03:45:00	8.00	370.90	-104.01	
03:50:00	13.00	152.59	-43.66	
03:55:00	18.00	94.37	-11.64	
04:00:00	23.00	93.32	-.21	
04:05:00	28.00	93.22	-.02	
04:10:00	33.00	93.13	-.02	
04:15:00	38.00	93.07	-.01	
04:20:00	43.00	93.05	-.00	
04:25:00	48.00	93.05	.00	
04:30:00	53.00	93.05	.00	
04:35:00	58.00	93.11	.01	
04:38:00	61.00	93.13	.01	

START OF FLOW # 3 CONVENTIONAL FLOW

04:38:00	.00	93.13		
04:40:00	2.00	593.81	593.34	14214.1
04:50:00	12.00	1492.68	89.89	35704.2

05:00:00	22.00	1514.49	2.18	36230.6
05:10:00	32.00	1476.26	-3.82	35321.0
05:20:00	42.00	1440.73	-3.55	34459.0
05:30:00	52.00	1408.42	-3.23	33693.0
05:37:00	59.00	1307.74	-14.38	31277.0

END OF CONVENTIONAL FLOW

START OF SHUT IN # 3

05:37:00	.00	1307.74	.00
05:38:00	1.00	1096.05	-211.69
05:39:00	2.00	919.61	-176.44
05:40:00	3.00	773.14	-146.47
05:41:00	4.00	651.13	-122.01
05:42:00	5.00	548.19	-102.94
05:43:00	6.00	462.45	-85.74
05:44:00	7.00	391.33	-71.12
05:45:00	8.00	331.44	-59.89
05:46:00	9.00	280.72	-50.72
05:47:00	10.00	236.72	-44.00
05:48:00	11.00	198.44	-38.28
05:49:00	12.00	167.11	-31.33
05:50:00	13.00	142.71	-24.40
05:51:00	14.00	124.25	-18.46
05:52:00	15.00	110.90	-13.35
05:53:00	16.00	101.74	-9.16
05:54:00	17.00	95.94	-5.80

END OF RECORDED DATA

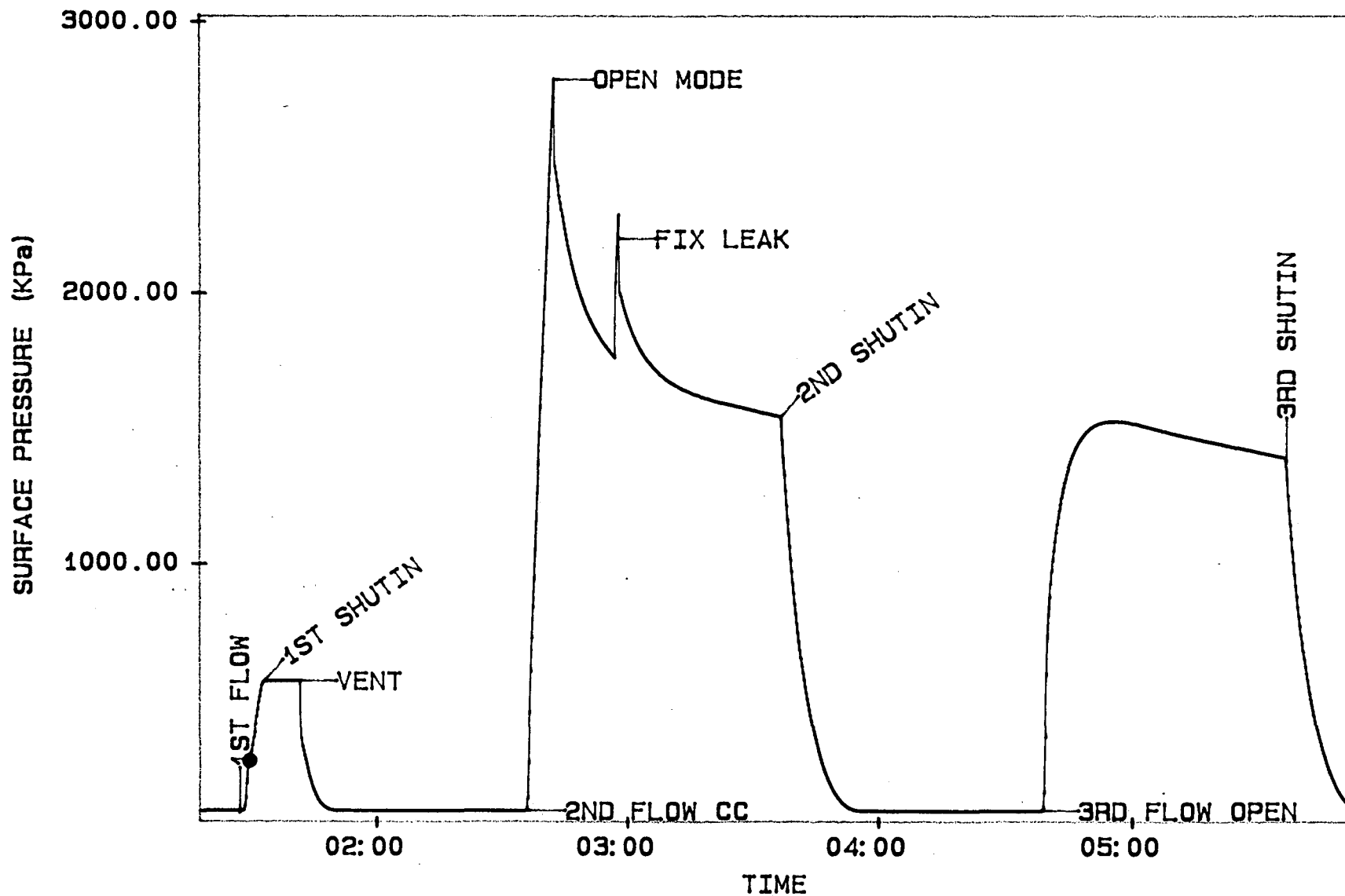
DELTA-P TEST CORP.

REFERENCE FILENAME : P1532C

TEST DATE : Wed, Mar 25, 1998

WELL NAME : PARAMOUNT ET AL LIARD

WELL LOCATION : F - 36



Wed, Mar 25, 1998

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PRETEST CALCULATIONS

FILENAME	P1532C.DST	
GAS GRAVITY	.70	
FORMATION DEPTH	1445.00 MKB	
FORMATION PRESSURE	14710.10 KPAg	
FORMATION TEMPERATURE	46.60 DEG C	
AVE CHAMBER TEMP	25.55 DEG C	
INITIAL CHM SURFACE PRESSURE	99.00 KPAA	
INITIAL GAS/N2 HEAD PRESSURE	111.18 KPAA	
INITIAL TOTAL CUSH. PRESSURE	111.18 KPAA	
INITIAL CUSHION LENGTH	.00 m	
LIQUID CUSHION GRADIENT	.00 kPA/m	
DOWN HOLE CHOKE DIAMETER	12.70 mm	
CHOKE COEFFICIENT	18.02 m3/D/KPA	
DRILL COLLAR LENGTH	72.43 m	
DRILL COLLAR I.D.	65.00 mm	
DRILL COLLAR CAPACITY	.003318 m3/m	
DRILL COLLAR VOLUME	.240 m3	
LOWER DRILL PIPE LENGTH	1369.57 m	
LOWER DRILL PIPE I.D.	84.80 mm	
LOWER DRILL PIPE CAPACITY	.005648 m3/m	
LOWER DRILL PIPE VOLUME	7.735 m3	
UPPER DRILL PIPE LENGTH	.00 m	
UPPER DRILL PIPE I.D.	.00 mm	
UPPER DRILL PIPE CAPACITY	.000000 m3/m	
UPPER DRILL PIPE VOLUME	.000 m3	
TOTAL CHAMBER VOLUME	7.98 m3	
LIQUID CUSHION VOLUME	.00 m3	
NET CHAMBER VOLUME	7.98 m3	
	MAX. RATE	MAX. SURFACE DP/DT
GAS	347930.0 m3/D	2992.2 KPA/min
GAS SATURATED H2O	923.6 m3/D	28.7 KPA/min
PURE LIQUID INFLUX	923.6 m3/D	8.4 KPA/min
	INITIAL CONVERSION FACTORS	
GAS	116.3 m3/D/KPA/min	
GAS SATURATED H2O	32.1 m3/D/KPA/min	
PURE LIQUID INFLUX	109.4 m3/D/KPA/min	

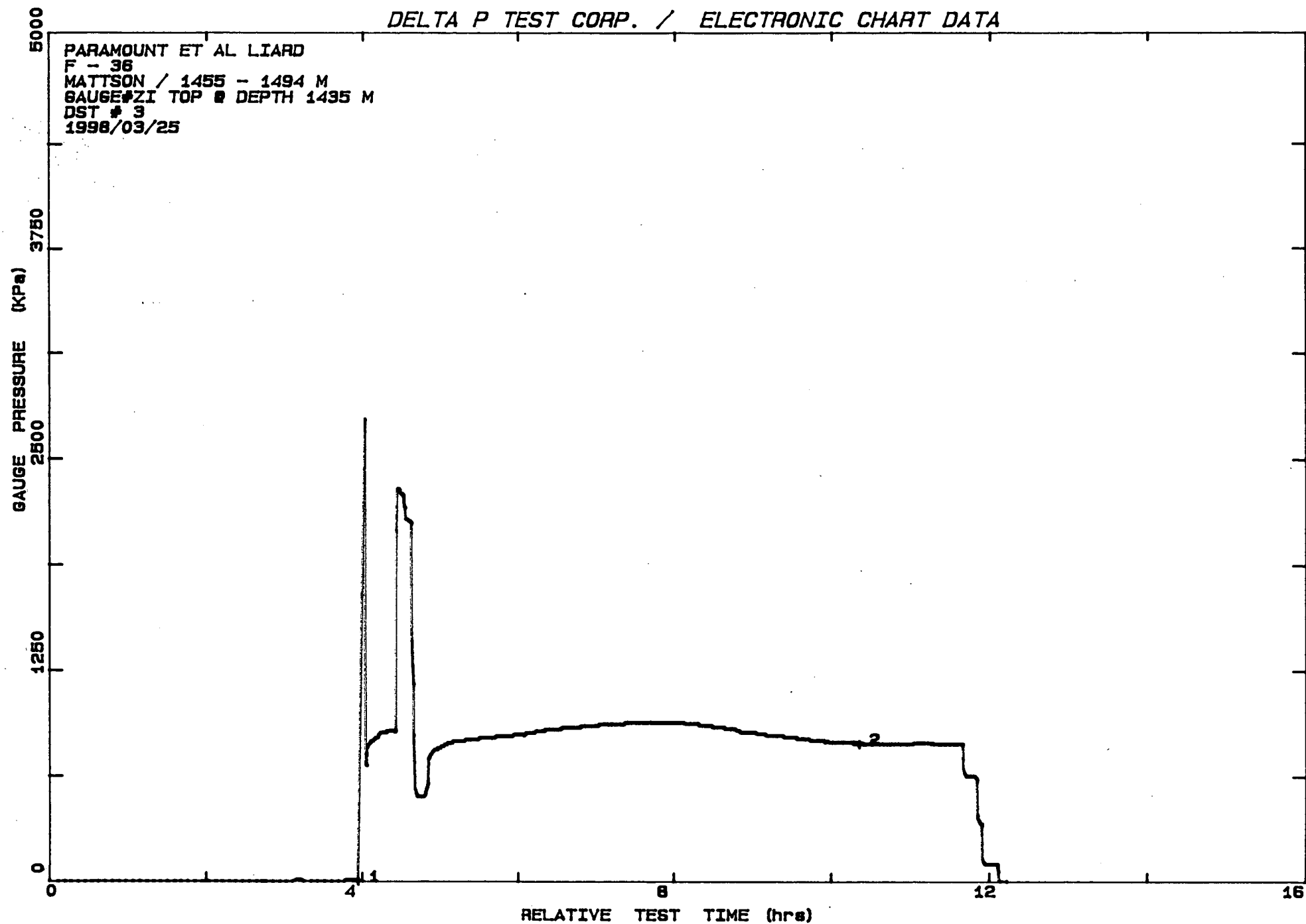
ELECTRONIC DOWNHOLE RECORDER DATA
DELTA P TEST CORP.

PARAMOUNT ET AL LIARD
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MATTSON / 1455 - 1494 M
GAUGE#ZI TOP @ DEPTH 1435 M
DST # 3
1998/03/25

CHART SUMMARY OF LABELS AND PRESSURES

LABEL#	LABEL	TEST TIME (min)	TIME (hours)	PRESSURE (KPa)
1	START TST	236.5	3.94	0.0
2	FHP	621.5	10.36	819.8

DELTA P TEST CORP. / ELECTRONIC CHART DATA



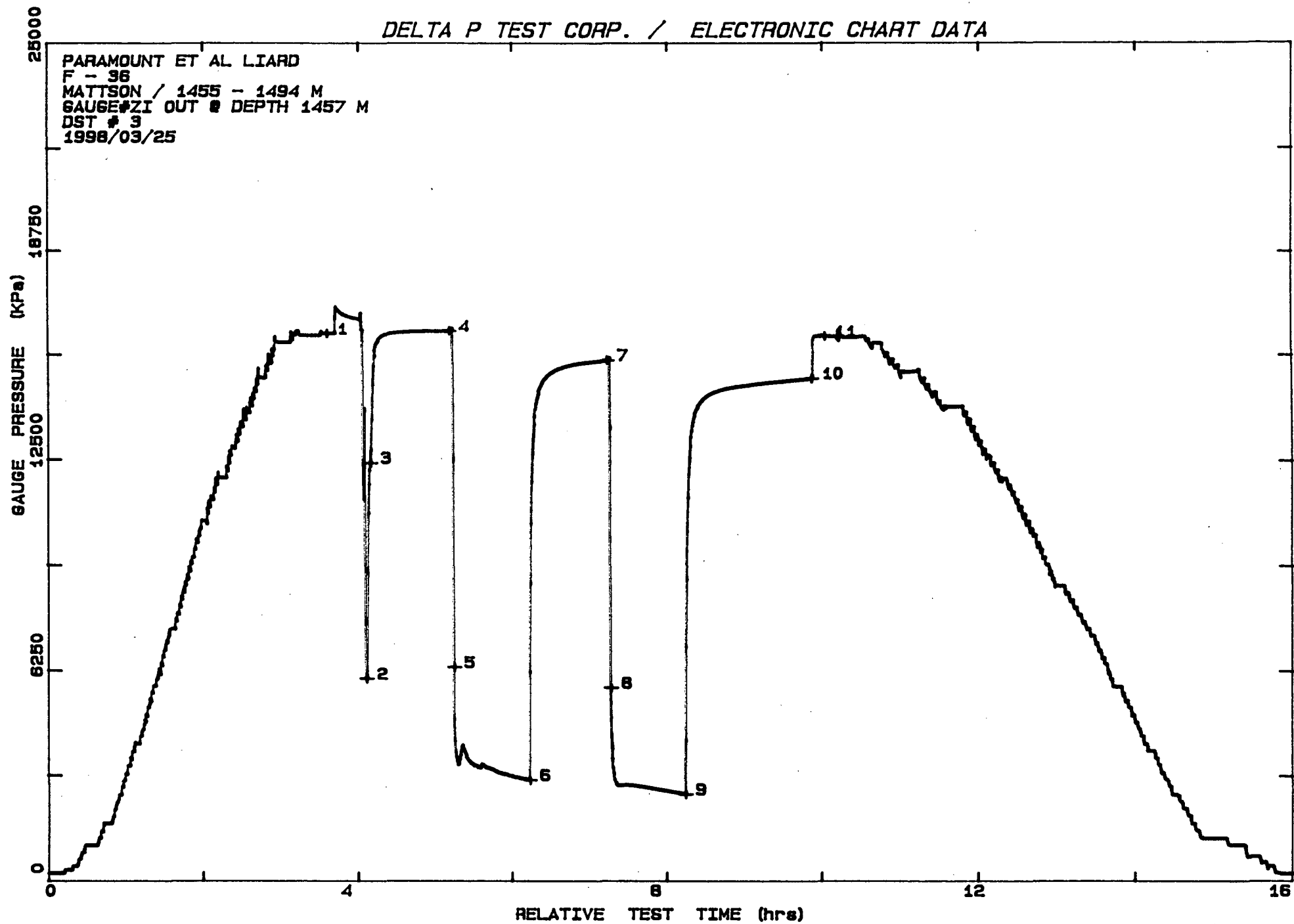
ELECTRONIC DOWNHOLE RECORDER DATA
DELTA P TEST CORP.

PARAMOUNT ET AL LIARD
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MATTSON / 1455 - 1494 M
GAUGE#ZI OUT @ DEPTH 1457 M
DST # 3
1998/03/25

CHART SUMMARY OF LABELS AND PRESSURES

LABEL#	LABEL	TEST (min)	TIME (hours)	PRESSURE (KPa)
1	IHP	216.5	3.61	16266.4
2	IPF	246.5	4.11	6000.8
3	FPF	249.5	4.16	12415.3
4	ISI	311.0	5.18	16348.2
5	2IF	314.5	5.24	6342.5
6	2FF	374.5	6.24	2997.1
7	2SI	434.0	7.23	15466.5
8	3IF	437.0	7.28	5735.3
9	3FF	494.0	8.23	2573.6
10	3SI	592.0	9.87	14918.2
11	FHP	602.0	10.03	16176.7

DELTA P TEST CORP. / ELECTRONIC CHART DATA



ELECTRONIC DOWNHOLE RECORDER DATA
DELTA P TEST CORP.

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GAUGE#ZI OUT @ DEPTH 1457 M

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1998/03/25

CHART FLOW TIMES AND PRESSURES

LABEL	TEST TIME		PRESSURE (KPa)
	(min)	(hours)	
	0.0	0.00	242.9
	0.5	0.01	241.3
	31.0	0.52	1069.4
	61.0	1.02	3140.8
	91.0	1.52	7058.7
	121.0	2.02	10703.6
	151.0	2.52	13470.8
	181.0	3.02	15996.9
	211.0	3.52	16210.6
IHP	216.5	3.61	16266.4
	221.5	3.69	16276.5
	226.5	3.77	16886.5
	231.5	3.86	16786.8
	236.5	3.94	16730.1
	241.5	4.02	16664.1
IPF	246.5	4.11	6000.8
	247.5	4.12	9185.0
	248.5	4.14	11798.9
FPF	249.5	4.16	12415.3
	250.5	4.17	13680.3
	251.5	4.19	15292.6
	252.5	4.21	15756.8
	253.5	4.23	15946.8
	254.5	4.24	15985.7
	255.5	4.26	16095.4
	256.5	4.28	16149.0
	257.5	4.29	16182.7
	258.5	4.31	16206.9
	264.5	4.41	16279.4
	269.5	4.49	16304.7
	274.5	4.58	16319.9
	279.5	4.66	16329.4
	284.5	4.74	16335.7
	289.5	4.82	16340.0
	294.5	4.91	16342.5
	299.5	4.99	16344.2
	304.5	5.08	16347.3
	309.5	5.16	16348.2
ISI	311.0	5.18	16348.2
	312.0	5.20	16445.5
	313.0	5.22	16433.8
	314.0	5.23	12530.1
2IF	314.5	5.24	6342.5

ELECTRONIC DOWNHOLE RECORDER DATA
DELTA P TEST CORP.

PARAMOUNT ET AL LIARD

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MATTSON / 1455 - 1494 M

GAUGE#ZI OUT @ DEPTH 1457 M

DST # 3

1998/03/25

CHART FLOW TIMES AND PRESSURES

LABEL	TEST TIME (min)	TIME (hours)	PRESSURE (KPa)
	315.5	5.26	4147.0
	316.5	5.28	3650.0
	317.5	5.29	3429.9
	318.5	5.31	3538.4
	319.5	5.33	3740.6
	320.5	5.34	4016.0
	321.5	5.36	3972.2
	322.5	5.38	3851.3
	323.5	5.39	3745.0
	324.5	5.41	3657.2
	325.5	5.43	3578.4
	326.5	5.44	3527.3
	327.5	5.46	3485.5
	328.5	5.48	3452.8
	329.5	5.49	3438.8
	330.5	5.51	3393.1
	331.5	5.53	3426.6
	332.5	5.54	3380.9
	333.5	5.56	3348.3
	334.5	5.57	3343.4
	335.5	5.59	3364.1
	336.5	5.61	3479.9
	337.5	5.63	3430.5
	338.5	5.64	3397.9
	339.5	5.66	3357.1
	340.5	5.68	3335.2
	341.5	5.69	3346.3
	342.5	5.71	3321.8
	343.5	5.73	3293.8
	344.5	5.74	3295.7
	345.5	5.76	3277.9
	346.5	5.78	3244.5
	347.5	5.79	3228.4
	348.5	5.81	3209.3
	349.5	5.83	3197.6
	350.5	5.84	3197.3
	351.5	5.86	3178.9
	352.5	5.88	3153.8
	353.5	5.89	3153.5
	354.5	5.91	3135.3
	355.5	5.93	3158.3
	356.5	5.94	3118.6
	357.5	5.96	3112.2

ELECTRONIC DOWNHOLE RECORDER DATA

DELTA P TEST CORP.

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GAUGE#ZI OUT @ DEPTH 1457 M

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1998/03/25

CHART FLOW TIMES AND PRESSURES

LABEL	TEST TIME		PRESSURE
	(min)	(hours)	
	358.5	5.98	3102.5
	359.5	5.99	3099.2
	360.5	6.01	3079.1
	361.5	6.03	3069.3
	362.5	6.04	3062.8
	363.5	6.06	3069.3
	364.5	6.07	3057.9
	365.5	6.09	3046.8
	366.5	6.11	3029.2
	367.5	6.13	3033.8
	368.5	6.14	3031.3
	369.5	6.16	3027.6
	370.5	6.18	3009.3
	371.5	6.19	3012.2
	372.5	6.21	3006.8
	373.5	6.23	2994.8
2FF	374.5	6.24	2997.1
	375.5	6.26	8848.2
	376.5	6.28	11880.6
	377.5	6.29	13230.5
	378.5	6.31	13866.3
	379.5	6.33	14212.6
	380.5	6.34	14400.0
	381.5	6.36	14573.8
	382.5	6.38	14689.4
	383.5	6.39	14777.1
	384.5	6.41	14847.8
	385.5	6.43	14906.2
	386.5	6.44	14955.2
	387.5	6.46	14998.1
	388.5	6.48	15034.9
	389.5	6.49	15067.6
	390.5	6.51	15096.4
	391.5	6.53	15122.4
	392.5	6.54	15145.8
	393.5	6.56	15167.1
	399.5	6.66	15262.2
	404.5	6.74	15315.1
	409.5	6.83	15354.7
	414.5	6.91	15384.9
	419.5	6.99	15409.7
	424.5	7.07	15431.4
	429.5	7.16	15450.2

ELECTRONIC DOWNHOLE RECORDER DATA
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1998/03/25

CHART FLOW TIMES AND PRESSURES

LABEL	TEST TIME (min)	TIME (hours)	PRESSURE (KPa)
2SI	434.0	7.23	15466.5
	435.0	7.25	15539.6
	436.0	7.27	15530.9
3IF	437.0	7.28	5735.3
	438.0	7.30	3893.8
	439.0	7.32	3312.9
	440.0	7.33	2972.5
	441.0	7.35	2854.5
	442.0	7.37	2820.8
	443.0	7.38	2821.4
	444.0	7.40	2832.0
	445.0	7.42	2841.2
	446.0	7.43	2846.8
	447.0	7.45	2852.7
	448.0	7.47	2854.0
	449.0	7.48	2852.0
	450.0	7.50	2851.6
	451.0	7.52	2847.1
	452.0	7.53	2842.0
	453.0	7.55	2836.6
	454.0	7.57	2828.8
	455.0	7.58	2820.4
	456.0	7.60	2813.8
	457.0	7.62	2810.0
	458.0	7.63	2804.9
	459.0	7.65	2794.6
	460.0	7.67	2789.6
	461.0	7.68	2781.9
	462.0	7.70	2773.6
	463.0	7.72	2766.6
	464.0	7.73	2758.2
	465.0	7.75	2752.3
	466.0	7.77	2744.8
	467.0	7.78	2738.9
	468.0	7.80	2731.2
	469.0	7.82	2723.1
	470.0	7.83	2718.0
	471.0	7.85	2709.9
	472.0	7.87	2703.3
	473.0	7.88	2697.4
	474.0	7.90	2689.7
	475.0	7.92	2684.2
	476.0	7.93	2678.9

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1998/03/25

CHART FLOW TIMES AND PRESSURES

LABEL	TEST TIME (min)	TIME (hours)	PRESSURE (KPa)
	477.0	7.95	2673.0
	478.0	7.97	2666.2
	479.0	7.98	2660.4
	480.0	8.00	2654.3
	481.0	8.02	2648.4
	482.0	8.03	2643.6
	483.0	8.05	2636.9
	484.0	8.07	2629.7
	485.0	8.08	2625.0
	486.0	8.10	2618.4
	487.0	8.12	2613.9
	488.0	8.13	2607.4
	489.0	8.15	2601.2
	490.0	8.17	2595.5
	491.0	8.18	2590.4
	492.0	8.20	2584.4
	493.0	8.22	2579.0
3FF	494.0	8.23	2573.6
	495.0	8.25	6980.0
	496.0	8.27	10416.9
	497.0	8.28	12097.1
	498.0	8.30	12924.8
	499.0	8.32	13368.0
	500.0	8.33	13635.4
	501.0	8.35	13813.5
	502.0	8.37	13941.1
	503.0	8.38	14022.1
	504.0	8.40	14112.9
	505.0	8.42	14179.2
	506.0	8.43	14232.6
	507.0	8.45	14277.9
	508.0	8.47	14317.3
	509.0	8.48	14351.1
	510.0	8.50	14381.5
	511.0	8.52	14408.2
	512.0	8.53	14432.5
	513.0	8.55	14454.3
	519.0	8.65	14552.7
	524.0	8.73	14608.1
	529.0	8.82	14648.9
	534.0	8.90	14680.8
	539.0	8.98	14706.7
	544.0	9.07	14731.4

ELECTRONIC DOWNHOLE RECORDER DATA
DELTA P TEST CORP.

PARAMOUNT ET AL LIARD
F - 36
MATTSON / 1455 - 1494 M
GAUGE#ZI OUT @ DEPTH 1457 M
DST # 3
1998/03/25

CHART FLOW TIMES AND PRESSURES

LABEL	TEST TIME (min)	TIME (hours)	PRESSURE (KPa)
	549.0	9.15	14755.5
	554.0	9.23	14778.6
	559.0	9.32	14800.3
	564.0	9.40	14820.6
	569.0	9.48	14839.5
	574.0	9.57	14857.6
	579.0	9.65	14875.4
	584.0	9.73	14892.2
	589.0	9.82	14908.4
3SI	592.0	9.87	14918.2
	593.0	9.88	16087.0
	594.0	9.90	16185.1
	595.0	9.92	16190.1
	596.0	9.93	16195.7
	597.0	9.95	16200.6
	598.0	9.97	16208.4
	599.0	9.98	16204.8
	600.0	10.00	16200.0
	601.0	10.02	16179.7
FHP	602.0	10.03	16176.7
	632.0	10.53	16173.3
	662.0	11.03	15125.0
	692.0	11.53	13991.4
	722.0	12.03	13050.6
	752.0	12.53	11145.0
	782.0	13.03	8774.6
	812.0	13.53	6800.8
	842.0	14.03	4579.5
	872.0	14.53	2516.1
	902.0	15.03	1275.5
	932.0	15.53	745.2

ELECTRONIC DOWNHOLE RECORDER DATA
 DELTA P TEST CORP.

PARAMOUNT ET AL LIARD
F - 36
MATTSON / 1455 - 1494 M
GAUGE#WTD # 9@ DEPTH 1445 M
DST # 3
1998/03/25

CHART SUMMARY OF LABELS AND PRESSURES

LABEL#	LABEL	TEST (min)	TIME (hours)	PRESSURE (KPa)
1	IHP	21.2	0.35	16237.0
2	IPF	49.2	0.82	5354.2
3	FPF	53.6	0.89	12735.1
4	ISI	103.2	1.72	16321.5
5	2ND IF	118.0	1.97	6518.8
6	2ND FF	178.0	2.97	2902.2
7	2ND SI	237.2	3.95	15537.8
8	3RD IF	240.8	4.01	6159.4
9	3RD FF	298.0	4.97	2592.1
10	3RD SI	394.4	6.57	14990.0
11	FHP	397.2	6.62	16181.7

DELTA P TEST CORP. / ELECTRONIC CHART DATA

