



Drill Stem Test Report

Prepared for: **CANADIAN FOREST OIL**
600, 800 - 6th Ave. S.W.
CALGARY, AB

Well Name: CDN FOREST ET AL LIARD K-32
Location: K-32-60-10-132-15

Test Date: 03/19/1999

Job Ticket #: D2-6397 DST#: 2



Drill Stem Testing Report

Company: CANADIAN FOREST OIL LTD.
600, 800 - 6th Ave. S.W.
CALGARY, AB

Job Ticket #: D2-6397 DST#: 2
Test Date: 03/19/1999 830hrs

Well Name: CDN FOREST ET AL LIARD K-32
Location: K-32-60-10-132-15

Contact: DOUG SOLBERG

General Information:

Test Type: CONV. BOTTOM HOLE
Interval: 1635.00m - 1695.00m
Formation: PERMIAN FANTASQUE
KB Elevation: 404.50m
Ground Elevation: 400.10m
Total Depth: 1695.00m
Test Mode: Gas

Tester: R. EDWARDS
Truck No.: Unit 673
Contractor: NABORS
Rig No.: 6
Hole Diameter: 222mm
Hole Condition: GOOD
Bottom Hole Temperature: 56.60 C

Electronic Recorder Information:

OUTSIDE
Recorder #: 014

Range: 70000 kPag
Depth: 1637.59 m

FLUID
Recorder #: 044

Range: 35000 kPag
Depth: 1616.76 m

Flag Points:

	Time:	Pressure:
A Initial Hydrostatic	0.00	17516.4
B Start of 1st Flow	0.00	3195.6
C End of 1st Flow	4.00	3404.0
D End of 1st Shutin	66.00	15271.0
E Start of 2nd Flow	0.00	2866.9
F End of 2nd Flow	79.00	6162.1
G End of 2nd Shutin	115.00	15193.5
Q Final Hydrostatic	0.00	17122.9

Test Run Information:

Start Time: 830hrs
Reached Test Depth: 1200hrs
Pull Out Time: 1730hrs
Tool Out Of Hole: 2330hrs

Weight set on Packers: 10000.00daN
Weight to free Packers: 10000.00daN
Initial String Weight: 44000.00daN
Unseated String Weight: 48000.00daN

Tool Chased Dist: 0.00m Water Loss: 7.00cm³
Mud Type: GEL CHEMICAL Mud Drop: NO
Mud Weight: 1095.00kg/m³ VIS: 90.00S/L
Amount of fill: 0.00m Filter Cake: 1.00mm
Amt of cushion: 0.00 Pump Time: 30min
Type of cushion: Reversed Out: YES

General Remarks:

Mechanically successful. *Test results suggest moderate permeability within the zone tested.

Maximum gas rates as reported by Alpine Closed Chamber are as follows:

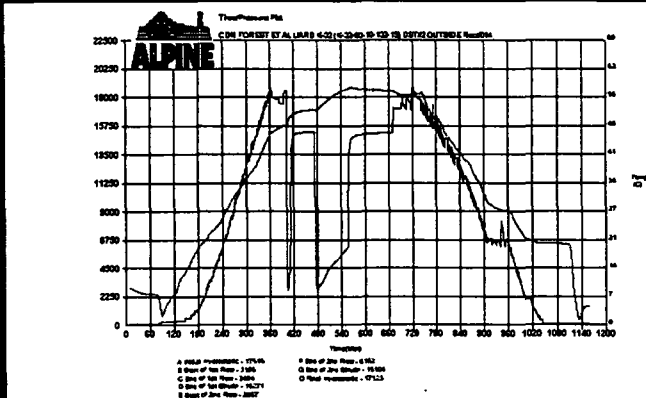
PREFLOW: 2314.49 m3/day.

FINAL FLOW: 3908.14 m3/day.

Went to conventional flow after 40 minutes of closed chamber.

*** See gas volume charts for gas rates.

NOTE - See Alpine Telemetry Report for real time data acquisition.



Recovery Description:

Total fluid recovery reversed out was 552 meters, consisting of 20 meters gasified mud, 200 meters muddy gasified salt water, 332 meters salt water.
Salinity = 37,500 PPM

Gas to surface.

Gas Bomb: 1 Sampler: 1
Fluid Sample: 11 Sent to: AGAT LAB



Drill Stem Testing - Tool Diagram / Description

Company: CANADIAN FOREST OIL LTD.
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Contact: DOUG SOLBERG

Location: K-32-60-10-132-15

Conventional Bottomhole

Drill Collar Stands:	6
Drill Collar Singles:	0
Drill Pipe Stands:	76
Drill Pipe Singles:	0
Heavy Wt. Pipe Stands:	3
Heavy Wt. Pipe Singles:	0

Total Drill Collars/Pipe and Tools: 1646.21m

Total Drill Pipe Above K.B.: 11.21m

Total Depth: 1695m

20.97m

Tool / Drill Stem Information:

Tool Weight:	6000.00 daN
Drill Collar Inside Diameter:	60.00 mm
Drill Collar Total Length:	111.48 m
Drill Pipe Inside Diameter:	97.00 mm
Drill Pipe Total Length:	1457.58 m
Heavy Weight Pipe Diameter:	73.00 mm
Heavy Weight Pipe Length:	56.18 m
Bottom Choke Diameter:	12.70 mm
Number of Packers: 2 Dia.:	196.00 mm

Depth:
1635.00m

Tool Remarks:

Well License #1860

60.26m

Total Depth: 1695.00m

Item	Length
P.O. Sub	0.62
C.O. Sub	0.31
REC#044	1.80
S.I.Tool	2.17
HMV Stroke	1.90
REC#039	1.80
Telemetry Tool	5.86
Jars	1.65
Safety Joint	0.72
Packer	2.24
Packer	1.90
Stub	0.34
ASE Carrier	2.25
REC#014	
REC#145	
Perf	1.52
C.O. Sub	0.31
Drill Collar	54.93
C.O. Sub	0.31
Bullnose	0.60

81.23



Drill Stem Testing - Gas Recovery Measurements

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Test Date: 03/19/1999 830hrs

Well Name: CDN FOREST ET AL LIARD K-32

Contact: DOUG SOLBERG

Location: K-32-60-10-132-15

Gas Measurements for Flow # 2

Gas Recovery Measured With: Willis Choke

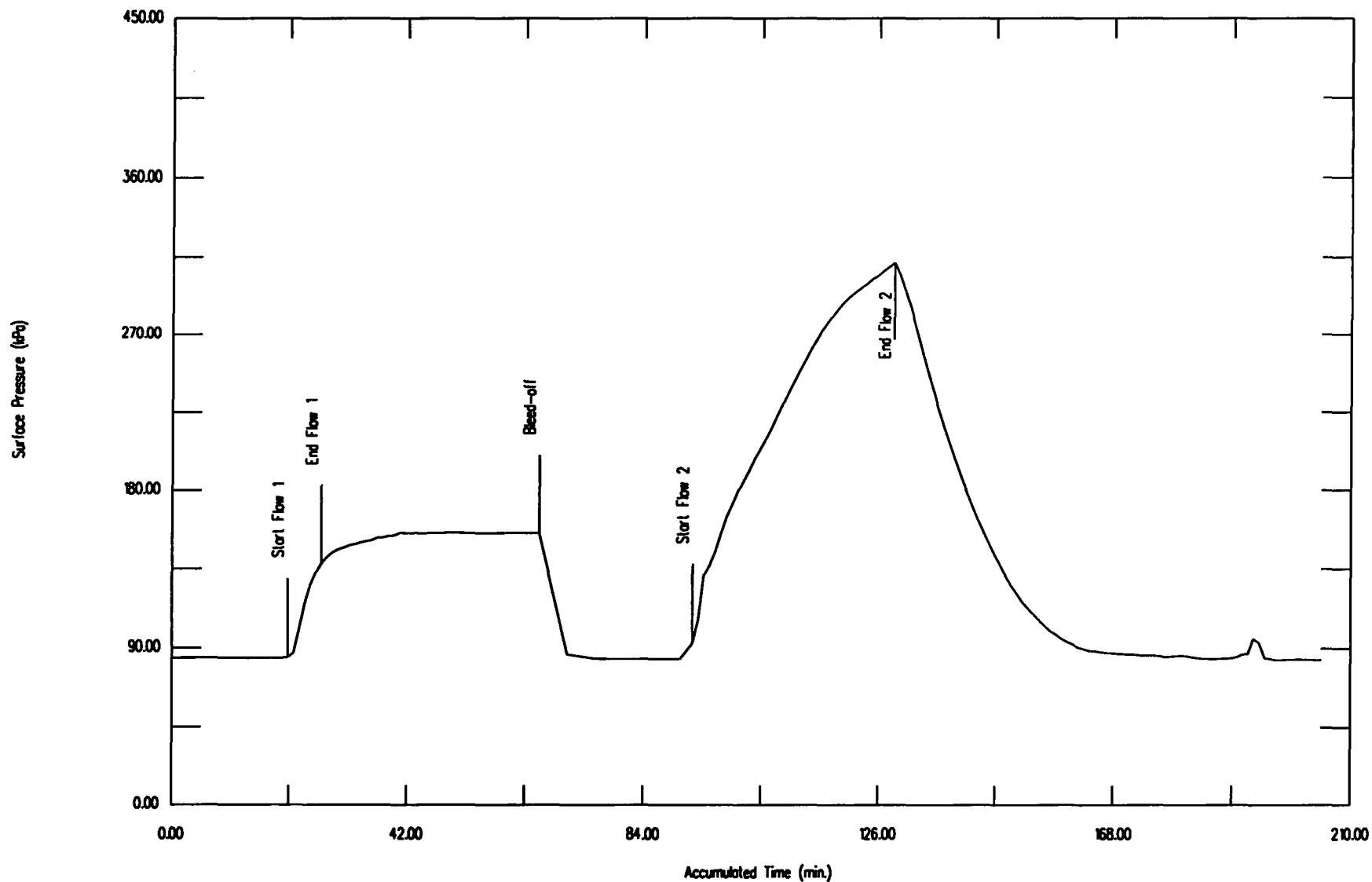
Time (min.)	Orifice (mm)	Pressure(kPa)	Rate (m ³ /d)
40	6.35	180	1711.00
45	6.35	140	1458.00
50	6.35	90	1164.00
55	6.35	0	0.00
60	6.35	0	0.00
65	6.35	0	0.00
70	6.35	0	0.00
75	6.35	0	0.00

SURFACE PRESSURE VS. TIME

Well Name: CDN FOREST LIARD

Location : K-32-60-10-132-15

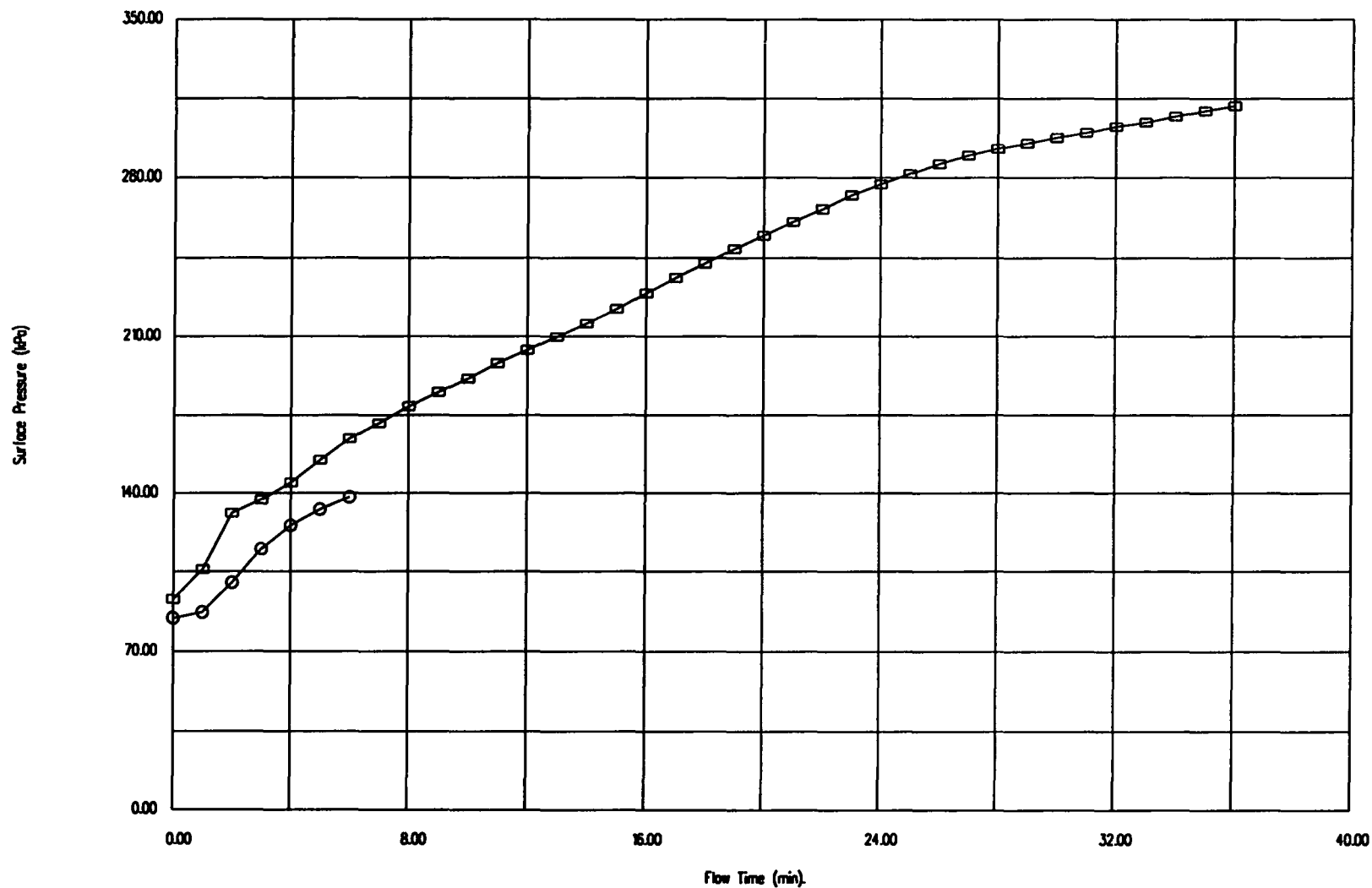
D.S.T. # 2



SURFACE PRESSURE VS. FLOW TIME

Well Name: CDN FOREST LIARD
Location : K-32-60-10-132-15
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SYMBOL LEGEND
○ Flow 1
□ Flow 2



WELL NAME:CDN FOREST LIARD

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FLOW CALCULATIONS FOR:

FLOW CALCULATION PARAMETERS

NET CHAMBER VOLUME(cu m) = 11.32
GAS GRAVITY = 0.65
AVERAGE CHAMBER TEMP(Kel) = 299.65

TIME (real)	ACCUM.TIME (min)	PRESSURE (kPa)	dP/dT (kPa/min)	Z-FACTOR (Real Gas)	GAS (cu m/d)
00:00:00	0.00	84.31	0.00		
00:00:15	0.25	84.17	-0.56		
00:00:30	0.50	84.39	0.88		
00:05:30	5.50	84.42	0.01		
00:10:30	10.50	84.43	0.00		
00:12:45	12.75	84.35	-0.04		
00:13:45	13.75	84.30	-0.05		
00:14:45	14.75	84.35	0.05		
00:15:45	15.75	84.30	-0.05		
00:16:45	16.75	84.26	-0.04		
00:17:45	17.75	84.43	0.17		
00:18:45	18.75	84.34	-0.09		
00:19:45	19.75	84.39	0.05		

FIRST FLOW: MINS

00:20:45	0.00	84.69	0.00	0.9979	0.00
00:21:45	1.00	87.24	2.55	0.9978	395.03
00:22:45	2.00	100.11	12.87	0.9975	1994.40
00:23:45	3.00	115.04	14.93	0.9972	2314.49
00:24:45	4.00	125.63	10.59	0.9969	1642.12
00:25:45	5.00	132.82	7.19	0.9967	1115.10
00:26:45	6.00	138.26	5.44	0.9966	843.81

FIRST SHUT-IN: MINS

00:26:45	0.00	138.26	0.00		
00:27:45	1.00	141.87	3.61		
00:28:45	2.00	144.59	2.72		
00:29:45	3.00	146.08	1.49		
00:30:45	4.00	147.23	1.15		
00:31:45	5.00	148.50	1.27		
00:32:45	6.00	149.21	0.71		
00:33:45	7.00	150.13	0.92		
00:34:45	8.00	150.88	0.75		

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-----	-----	-----	-----	-----	-----
00:35:45	9.00	151.49	0.61		
00:36:45	10.00	152.94	1.45		
00:37:45	11.00	153.07	0.13		
00:38:45	12.00	153.78	0.71		
00:39:45	13.00	154.31	0.53		
00:40:45	14.00	155.67	1.36		
00:41:45	15.00	155.58	-0.09		
00:42:45	16.00	155.54	-0.04		
00:43:45	17.00	155.63	0.09		
00:44:45	18.00	155.32	-0.31		
00:45:45	19.00	155.58	0.26		
00:46:45	20.00	155.76	0.18		
00:47:45	21.00	155.58	-0.18		
00:48:45	22.00	155.72	0.14		
00:49:45	23.00	155.89	0.17		
00:50:30	23.75	155.80	-0.12		
00:55:30	28.75	155.53	-0.05		
01:00:30	33.75	155.70	0.03		
01:05:30	38.75	155.56	-0.03		

BLEED OFF

01:05:30	0.00	155.56	0.00
01:10:30	5.00	86.49	-13.81
01:15:30	10.00	84.02	-0.49
01:20:30	15.00	83.88	-0.03
01:25:30	20.00	83.83	-0.01
01:30:30	25.00	83.86	0.01

SECOND FLOW: MINS

01:32:45	0.00	92.81	0.00	0.9977	0.00
01:33:45	1.00	106.04	13.23	0.9974	2050.49
01:34:45	2.00	131.24	25.20	0.9968	3908.14
01:35:45	3.00	137.16	5.92	0.9966	918.24

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TIME (real)	ACCUM.TIME (min)	PRESSURE (kPa)	dP/dT (kPa/min)	Z-FACTOR (Real Gas)	GAS (cu m/d)
-----	-----	-----	-----	-----	-----
01:36:45	4.00	144.76	7.60	0.9964	1179.04
01:37:45	5.00	155.01	10.25	0.9962	1590.56
01:38:45	6.00	164.53	9.52	0.9959	1477.63
01:39:45	7.00	171.38	6.85	0.9958	1063.39
01:40:45	8.00	178.94	7.56	0.9956	1173.83
01:41:45	9.00	185.27	6.33	0.9954	983.00
01:42:45	10.00	191.30	6.03	0.9953	936.55
01:43:45	11.00	198.09	6.79	0.9951	1054.77
01:44:45	12.00	203.83	5.74	0.9950	891.79
01:45:45	13.00	209.74	5.91	0.9948	918.34
01:46:45	14.00	215.87	6.13	0.9947	952.67
01:47:45	15.00	222.64	6.77	0.9945	1052.31
01:48:45	16.00	229.54	6.90	0.9943	1072.70
01:49:45	17.00	236.32	6.78	0.9942	1054.22
01:50:45	18.00	242.62	6.30	0.9940	979.74
01:51:45	19.00	248.97	6.35	0.9938	987.67
01:52:45	20.00	254.75	5.78	0.9937	899.14
01:53:45	21.00	260.76	6.01	0.9936	935.06
01:54:45	22.00	266.25	5.49	0.9934	854.27
01:55:45	23.00	272.27	6.02	0.9933	936.88
01:56:45	24.00	277.05	4.78	0.9932	743.99
01:57:45	25.00	281.70	4.65	0.9930	723.85
01:58:45	26.00	286.04	4.34	0.9929	675.66
01:59:45	27.00	289.76	3.72	0.9928	579.19
02:00:45	28.00	292.75	2.99	0.9928	465.57
02:01:45	29.00	295.02	2.27	0.9927	353.48
02:02:45	30.00	297.51	2.49	0.9926	387.76
02:03:45	31.00	299.73	2.22	0.9926	345.73
02:04:45	32.00	302.45	2.72	0.9925	423.63
02:05:45	33.00	304.36	1.91	0.9925	297.48
02:06:45	34.00	307.00	2.64	0.9924	411.22
02:07:45	35.00	309.49	2.49	0.9924	387.87
02:08:45	36.00	311.77	2.28	0.9923	355.18

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TIME (real)	ACCUM.TIME (min)	PRESSURE (kPa)	dP/dT (kPa/min)	Z-FACTOR (Real Gas)	GAS (cu m/d)
-----	-----	-----	-----	-----	-----

SECOND SHUT-IN: MINS

02:08:45	0.00	311.77	0.00
02:09:45	1.00	304.73	-7.04
02:10:45	2.00	295.21	-9.52
02:11:45	3.00	285.84	-9.37
02:12:45	4.00	273.14	-12.70
02:13:45	5.00	260.66	-12.48
02:14:45	6.00	249.09	-11.57
02:15:45	7.00	237.82	-11.27
02:16:45	8.00	226.96	-10.86
02:17:45	9.00	216.79	-10.17
02:18:45	10.00	207.09	-9.70
02:19:45	11.00	197.55	-9.54
02:20:45	12.00	188.55	-9.00
02:21:45	13.00	179.88	-8.67
02:22:45	14.00	171.70	-8.18
02:23:45	15.00	164.02	-7.68
02:24:45	16.00	157.06	-6.96
02:25:45	17.00	149.98	-7.08
02:26:45	18.00	143.48	-6.50
02:27:45	19.00	137.51	-5.97
02:28:45	20.00	131.73	-5.78
02:29:45	21.00	126.25	-5.48
02:30:45	22.00	121.58	-4.67
02:31:45	23.00	116.86	-4.72
02:32:45	24.00	113.02	-3.84
02:33:45	25.00	109.58	-3.44
02:34:45	26.00	106.23	-3.35
02:35:45	27.00	103.07	-3.16
02:36:45	28.00	99.95	-3.12
02:37:45	29.00	97.94	-2.01
02:38:45	30.00	95.52	-2.42
02:39:45	31.00	93.73	-1.79

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02:40:45	32.00	92.37	-1.36		
02:41:45	33.00	90.63	-1.74		
02:42:45	34.00	89.71	-0.92		
02:43:45	35.00	88.75	-0.96		
02:44:45	36.00	88.49	-0.26		
02:45:45	37.00	88.06	-0.43		
02:46:45	38.00	87.54	-0.52		
02:47:45	39.00	87.33	-0.21		
02:48:45	40.00	87.12	-0.21		
02:49:45	41.00	86.82	-0.30		
02:50:45	42.00	86.65	-0.17		
02:51:45	43.00	86.57	-0.08		
02:52:45	44.00	86.13	-0.44		
02:53:45	45.00	86.09	-0.04		
02:54:45	46.00	86.19	0.10		
02:55:45	47.00	85.93	-0.26		
02:56:45	48.00	85.59	-0.34		
02:57:45	49.00	85.55	-0.04		
02:58:45	50.00	85.73	0.18		
02:59:45	51.00	85.87	0.14		
03:00:45	52.00	85.83	-0.04		
03:01:45	53.00	85.22	-0.61		
03:02:45	54.00	84.69	-0.53		
03:03:45	55.00	84.26	-0.43		
03:04:45	56.00	84.26	0.00		
03:05:45	57.00	84.00	-0.26		
03:06:45	58.00	84.32	0.32		
03:07:45	59.00	84.32	0.00		
03:08:45	60.00	84.54	0.22		
03:09:45	61.00	85.16	0.62		
03:10:45	62.00	86.57	1.41		
03:11:45	63.00	86.97	0.40		
03:12:45	64.00	95.45	8.48		
03:13:45	65.00	93.17	-2.28		
03:14:45	66.00	84.58	-8.59		

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TIME (real)	ACCUM.TIME (min)	PRESSURE (kPa)	dP/dT (kPa/min)	Z-FACTOR (Real Gas)	GAS (cu m/d)
-----	-----	-----	-----	-----	-----
03:15:45	67.00	84.23	-0.35		
03:16:45	68.00	83.41	-0.82		
03:17:45	69.00	83.46	0.05		
03:18:45	70.00	83.78	0.32		
03:19:45	71.00	83.74	-0.04		
03:20:45	72.00	83.88	0.14		
03:21:45	73.00	83.80	-0.08		
03:22:45	74.00	83.76	-0.04		
03:23:45	75.00	83.51	-0.25		
03:24:45	76.00	83.51	0.00		



Drill Stem Testing - Time / Pressure Listing

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Contact: DOUG SOLBERG

Location: K-32-60-10-132-15

Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)	Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)
A	Initial Hydrostatic	0.00	0.00	17516.40		47.8			32.00	11819.60	15223.60	1.1250	51.6
B	Start of 1st Flow	0.00	0.00	3195.60		48.2			33.00	11823.00	15227.00	1.1212	51.6
		1.00	-412.00	2783.60		48.3			34.00	11825.30	15229.30	1.1176	51.6
		2.00	-311.30	2884.30		48.9			35.00	11827.70	15231.70	1.1143	51.6
		3.00	-190.90	3004.70		49.1			36.00	11830.00	15234.00	1.1111	51.6
C	End of 1st Flow	4.00	208.40	3404.00		49.4			37.00	11832.30	15236.30	1.1081	51.6
		1.00	417.80	3821.80	5.0000	49.6			38.00	11834.60	15238.60	1.1053	51.6
		2.00	1033.60	4437.60	3.0000	49.8			39.00	11835.80	15239.80	1.1026	51.6
		3.00	2340.30	5744.30	2.3333	50.0			40.00	11838.10	15242.10	1.1000	51.6
		4.00	3732.70	7136.70	2.0000	50.1			41.00	11840.40	15244.40	1.0976	51.7
		5.00	5268.60	8672.60	1.8000	50.2			42.00	11842.70	15246.70	1.0952	51.7
		6.00	6904.00	10308.00	1.6667	50.3			43.00	11843.90	15247.90	1.0930	51.7
		7.00	8492.00	11896.00	1.5714	50.4			44.00	11845.00	15249.00	1.0909	51.7
		8.00	9790.60	13194.60	1.5000	50.5			45.00	11846.20	15250.20	1.0889	51.7
		9.00	10661.00	14065.00	1.4444	50.6			46.00	11848.50	15252.50	1.0870	51.7
		10.00	11141.30	14545.30	1.4000	50.7			47.00	11849.70	15253.70	1.0851	51.7
		11.00	11376.30	14780.30	1.3636	50.8			48.00	11852.00	15256.00	1.0833	51.7
		12.00	11505.90	14909.90	1.3333	50.9			49.00	11853.10	15257.10	1.0816	51.7
		13.00	11586.90	14990.90	1.3077	51.0			50.00	11854.30	15258.30	1.0800	51.7
		14.00	11637.80	15041.80	1.2857	51.0			51.00	11856.60	15260.60	1.0784	51.8
		15.00	11672.60	15076.60	1.2667	51.0			52.00	11856.60	15260.60	1.0769	51.8
		16.00	11701.50	15105.50	1.2500	51.1			53.00	11857.80	15261.80	1.0755	51.8
		17.00	11718.90	15122.90	1.2353	51.2			54.00	11860.10	15264.10	1.0741	51.8
		18.00	11736.20	15140.20	1.2222	51.2			55.00	11860.10	15264.10	1.0727	51.8
		19.00	11750.10	15154.10	1.2105	51.2			56.00	11861.20	15265.20	1.0714	51.8
		20.00	11760.50	15164.50	1.2000	51.3			57.00	11863.50	15267.50	1.0702	51.8
		21.00	11769.80	15173.80	1.1905	51.3			58.00	11863.50	15267.50	1.0690	51.8
		22.00	11777.90	15181.90	1.1818	51.4			59.00	11863.50	15267.50	1.0678	51.8
		23.00	11783.70	15187.70	1.1739	51.4			60.00	11863.50	15267.50	1.0667	51.8
		24.00	11790.60	15194.60	1.1667	51.4			61.00	11863.50	15267.50	1.0656	51.8
		25.00	11795.30	15199.30	1.1600	51.4			62.00	11864.70	15268.70	1.0645	51.9
		26.00	11799.90	15203.90	1.1538	51.5			63.00	11864.70	15268.70	1.0635	51.8
		27.00	11803.40	15207.40	1.1481	51.5			64.00	11865.90	15269.90	1.0625	51.9
		28.00	11806.80	15210.80	1.1429	51.5			65.00	11865.90	15269.90	1.0615	51.9
		29.00	11810.30	15214.30	1.1379	51.5	D	End of 1st Shutin	66.00	11867.00	15271.00	1.0606	51.9
		30.00	11813.80	15217.80	1.1333	51.5	E	Start of 2nd Flow	0.00	0.00	2866.90		51.6
		31.00	11817.20	15221.20	1.1290	51.5			1.00	42.90	2909.80		51.6



Drill Stem Testing - Time / Pressure Listing

Company: CANADIAN FOREST OIL LTD.
600, 800 - 6th Ave. S.W.
CALGARY, AB

Job Ticket #: D2-6397 DST#: 2
Test Date: 03/19/1999 830hrs

Well Name: CDN FOREST ET AL LIARD K-32

Contact: DOUG SOLBERG

Location: K-32-60-10-132-15

Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)	Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)
		2.00	53.30	2920.20		51.7			39.00	1880.80	4747.70		54.9
		3.00	84.50	2951.40		51.7			40.00	1915.60	4782.50		55.0
		4.00	122.70	2989.60		51.8			41.00	1949.10	4816.00		55.0
		5.00	157.40	3024.30		51.9			42.00	1978.10	4845.00		55.1
		6.00	188.70	3055.60		52.0			43.00	2009.30	4876.20		55.2
		7.00	222.30	3089.20		52.2			44.00	2039.40	4906.30		55.3
		8.00	261.60	3128.50		52.3			45.00	2078.80	4945.70		55.3
		9.00	302.10	3169.00		52.4			46.00	2110.00	4976.90		55.4
		10.00	340.30	3207.20		52.5			47.00	2142.40	5009.30		55.4
		11.00	384.30	3251.20		52.6			48.00	2171.40	5038.30		55.5
		12.00	427.10	3294.00		52.7			49.00	2202.60	5069.50		55.6
		13.00	478.00	3344.90		52.8			50.00	2238.50	5105.40		55.6
		14.00	527.80	3394.70		52.9			51.00	2270.90	5137.80		55.6
		15.00	584.50	3451.40		53.0			52.00	2309.10	5176.00		55.7
		16.00	637.80	3504.70		53.1			53.00	2336.90	5203.80		55.8
		17.00	694.50	3561.40		53.1			54.00	2372.70	5239.60		55.9
		18.00	744.30	3611.20		53.3			55.00	2408.60	5275.50		55.9
		19.00	803.30	3670.20		53.4			56.00	2444.50	5311.40		56.0
		20.00	865.80	3732.70		53.4			57.00	2481.50	5348.40		56.0
		21.00	920.20	3787.10		53.5			58.00	2512.80	5379.70		56.1
		22.00	981.50	3848.40		53.6			59.00	2542.90	5409.80		56.1
		23.00	1051.00	3917.90		53.6			60.00	2584.60	5451.50		56.1
		24.00	1120.40	3987.30		53.7			61.00	2619.30	5486.20		56.2
		25.00	1188.70	4055.60		53.5			62.00	2654.00	5520.90		56.3
		26.00	1255.80	4122.70		54.0			63.00	2692.20	5559.10		56.3
		27.00	1319.50	4186.40		54.0			64.00	2724.60	5591.50		56.4
		28.00	1382.00	4248.90		54.1			65.00	2770.90	5637.80		56.4
		29.00	1442.20	4309.10		54.2			66.00	2806.80	5673.70		56.4
		30.00	1497.70	4364.60		54.3			67.00	2839.20	5706.10		56.5
		31.00	1547.50	4414.40		54.3			68.00	2882.00	5748.90		56.5
		32.00	1606.50	4473.40		54.4			69.00	2915.60	5782.50		56.5
		33.00	1660.90	4527.80		54.5			70.00	2954.90	5821.80		56.5
		34.00	1714.20	4581.10		54.6			71.00	2994.30	5861.20		56.6
		35.00	1753.50	4620.40		54.6			72.00	3033.60	5900.50		56.6
		36.00	1783.60	4650.50		54.7			73.00	3067.20	5934.10		56.6
		37.00	1819.50	4686.40		54.8			74.00	3106.60	5973.50		56.7
		38.00	1854.20	4721.10		54.9			75.00	3144.70	6011.60		56.7



Drill Stem Testing - Time / Pressure Listing

Company: CANADIAN FOREST OIL LTD.
600, 800 - 6th Ave. S.W.
CALGARY, AB

Job Ticket #: D2-6397 DST#: 2
Test Date: 03/19/1999 830hrs

Well Name: CDN FOREST ET AL LIARD K-32

Contact: DOUG SOLBERG

Location: K-32-60-10-132-15

Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)	Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)
		76.00	3178.30	6045.20		56.8			34.00	8904.00	15066.10	3.4412	56.8
		77.00	3217.70	6084.60		56.8			35.00	8907.50	15069.60	3.3714	56.8
		78.00	3254.70	6121.60		56.8			36.00	8912.20	15074.30	3.3056	56.8
F	End of 2nd Flow	79.00	3295.20	6162.10		56.8			37.00	8915.60	15077.70	3.2432	56.8
		1.00	562.50	6724.60	84.0000	56.9			38.00	8919.10	15081.20	3.1842	56.8
		2.00	3240.80	9402.90	42.5000	56.9			39.00	8922.60	15084.70	3.1282	56.8
		3.00	5755.90	11918.00	28.6667	57.0			40.00	8926.00	15088.10	3.0750	56.8
		4.00	7254.70	13416.80	21.7500	57.1			41.00	8929.50	15091.60	3.0244	56.8
		5.00	7909.80	14071.90	17.6000	57.1			42.00	8933.00	15095.10	2.9762	56.8
		6.00	8194.60	14356.70	14.8333	57.2			43.00	8935.30	15097.40	2.9302	56.8
		7.00	8354.30	14516.40	12.8571	57.2			44.00	8938.80	15100.90	2.8864	56.8
		8.00	8457.30	14619.40	11.3750	57.2			45.00	8941.10	15103.20	2.8444	56.8
		9.00	8532.50	14694.60	10.2222	57.2			46.00	8943.40	15105.50	2.8043	56.7
		10.00	8588.10	14750.20	9.3000	57.2			47.00	8945.70	15107.80	2.7660	56.7
		11.00	8633.20	14795.30	8.5455	57.2			48.00	8948.00	15110.10	2.7292	56.7
		12.00	8669.10	14831.20	7.9167	57.2			49.00	8950.30	15112.40	2.6939	56.7
		13.00	8698.00	14860.10	7.3846	57.1			50.00	8953.80	15115.90	2.6600	56.6
		14.00	8721.20	14883.30	6.9286	57.1			51.00	8955.00	15117.10	2.6275	56.6
		15.00	8742.00	14904.10	6.5333	57.1			52.00	8957.30	15119.40	2.5962	56.6
		16.00	8759.40	14921.50	6.1875	57.1			53.00	8959.60	15121.70	2.5660	56.6
		17.00	8775.60	14937.70	5.8824	57.1			54.00	8961.90	15124.00	2.5370	56.6
		18.00	8788.30	14950.40	5.6111	57.1			55.00	8964.20	15126.30	2.5091	56.6
		19.00	8801.00	14963.10	5.3684	57.1			56.00	8965.40	15127.50	2.4821	56.6
		20.00	8811.50	14973.60	5.1500	57.1			57.00	8967.70	15129.80	2.4561	56.6
		21.00	8821.90	14984.00	4.9524	57.0			58.00	8970.00	15132.10	2.4310	56.6
		22.00	8831.10	14993.20	4.7727	57.0			59.00	8971.20	15133.30	2.4068	56.5
		23.00	8839.20	15001.30	4.6087	57.0			60.00	8973.50	15135.60	2.3833	56.5
		24.00	8847.30	15009.40	4.4583	57.0			61.00	8974.70	15136.80	2.3607	56.5
		25.00	8855.40	15017.50	4.3200	57.0			62.00	8977.00	15139.10	2.3387	56.5
		26.00	8862.40	15024.50	4.1923	56.9			63.00	8978.10	15140.20	2.3175	56.5
		27.00	8868.20	15030.30	4.0741	56.9			64.00	8979.30	15141.40	2.2969	56.6
		28.00	8874.00	15036.10	3.9643	56.9			65.00	8981.60	15143.70	2.2769	56.5
		29.00	8879.70	15041.80	3.8621	56.9			66.00	8982.80	15144.90	2.2576	56.2
		30.00	8885.50	15047.60	3.7667	56.9			67.00	8985.10	15147.20	2.2388	56.7
		31.00	8890.20	15052.30	3.6774	56.9			68.00	8986.20	15148.30	2.2206	56.6
		32.00	8894.80	15056.90	3.5938	56.9			69.00	8987.40	15149.50	2.2029	56.6
		33.00	8899.40	15061.50	3.5152	56.8			70.00	8988.50	15150.60	2.1857	56.6



Drill Stem Testing - Time / Pressure Listing

Company: CANADIAN FOREST OIL LTD.
600, 800 - 6th Ave. S.W.
CALGARY, AB

Job Ticket #: D2-6397 DST#: 2
Test Date: 03/19/1999 830hrs

Well Name: CDN FOREST ET AL LIARD K-32

Contact: DOUG SOLBERG

Location: K-32-60-10-132-15

Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)	Chart Label	Comments	Time (Min.)	Delta P (KPa)	Pressure (KPa)	Abscissa (T+dt)/dt	Temp. (°C)
		71.00	8989.70	15151.80	2.1690	56.6			108.00	9026.70	15188.80	1.7685	56.3
		72.00	8992.00	15154.10	2.1528	56.5			109.00	9026.70	15188.80	1.7615	56.3
		73.00	8993.20	15155.30	2.1370	56.5			110.00	9027.90	15190.00	1.7545	56.3
		74.00	8994.30	15156.40	2.1216	56.5			111.00	9029.10	15191.20	1.7477	56.3
		75.00	8995.50	15157.60	2.1067	56.5			112.00	9029.10	15191.20	1.7411	56.3
		76.00	8996.60	15158.70	2.0921	56.5			113.00	9030.20	15192.30	1.7345	56.3
		77.00	8997.80	15159.90	2.0779	56.5			114.00	9031.40	15193.50	1.7281	56.3
		78.00	8999.00	15161.10	2.0641	56.5	G	End of 2nd Shutin	115.00	9031.40	15193.50	1.7217	56.3
		79.00	9000.10	15162.20	2.0506	56.5	Q	Final Hydrostatic	0.00	0.00	17122.90		55.5
		80.00	9001.30	15163.40	2.0375	56.5							
		81.00	9002.40	15164.50	2.0247	56.5							
		82.00	9003.60	15165.70	2.0122	56.5							
		83.00	9004.70	15166.80	2.0000	56.4							
		84.00	9005.90	15168.00	1.9881	56.5							
		85.00	9005.90	15168.00	1.9765	56.5							
		86.00	9008.20	15170.30	1.9651	56.5							
		87.00	9008.20	15170.30	1.9540	56.5							
		88.00	9009.40	15171.50	1.9432	56.4							
		89.00	9010.50	15172.60	1.9326	56.4							
		90.00	9011.70	15173.80	1.9222	56.4							
		91.00	9011.70	15173.80	1.9121	56.4							
		92.00	9014.00	15176.10	1.9022	56.4							
		93.00	9014.00	15176.10	1.8925	56.4							
		94.00	9015.20	15177.30	1.8830	56.4							
		95.00	9016.30	15178.40	1.8737	56.4							
		96.00	9017.50	15179.60	1.8646	56.4							
		97.00	9017.50	15179.60	1.8557	56.4							
		98.00	9018.60	15180.70	1.8469	56.4							
		99.00	9019.80	15181.90	1.8384	56.4							
		100.00	9020.90	15183.00	1.8300	56.4							
		101.00	9020.90	15183.00	1.8218	56.4							
		102.00	9020.90	15183.00	1.8137	56.4							
		103.00	9022.10	15184.20	1.8058	56.3							
		104.00	9023.30	15185.40	1.7981	56.3							
		105.00	9024.40	15186.50	1.7905	56.4							
		106.00	9025.60	15187.70	1.7830	56.4							
		107.00	9025.60	15187.70	1.7757	56.4							

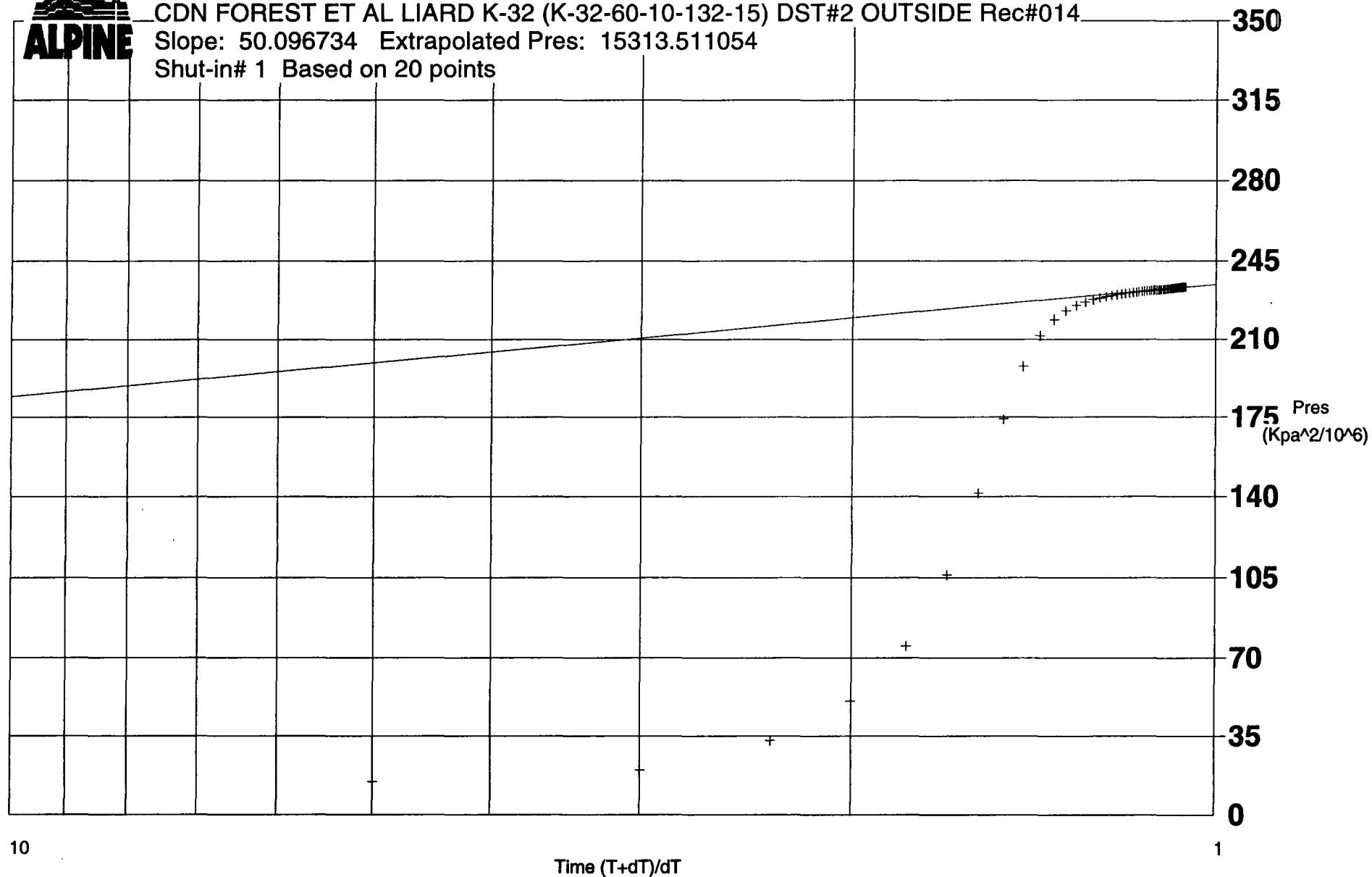


Horner Plot

CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 OUTSIDE Rec#014

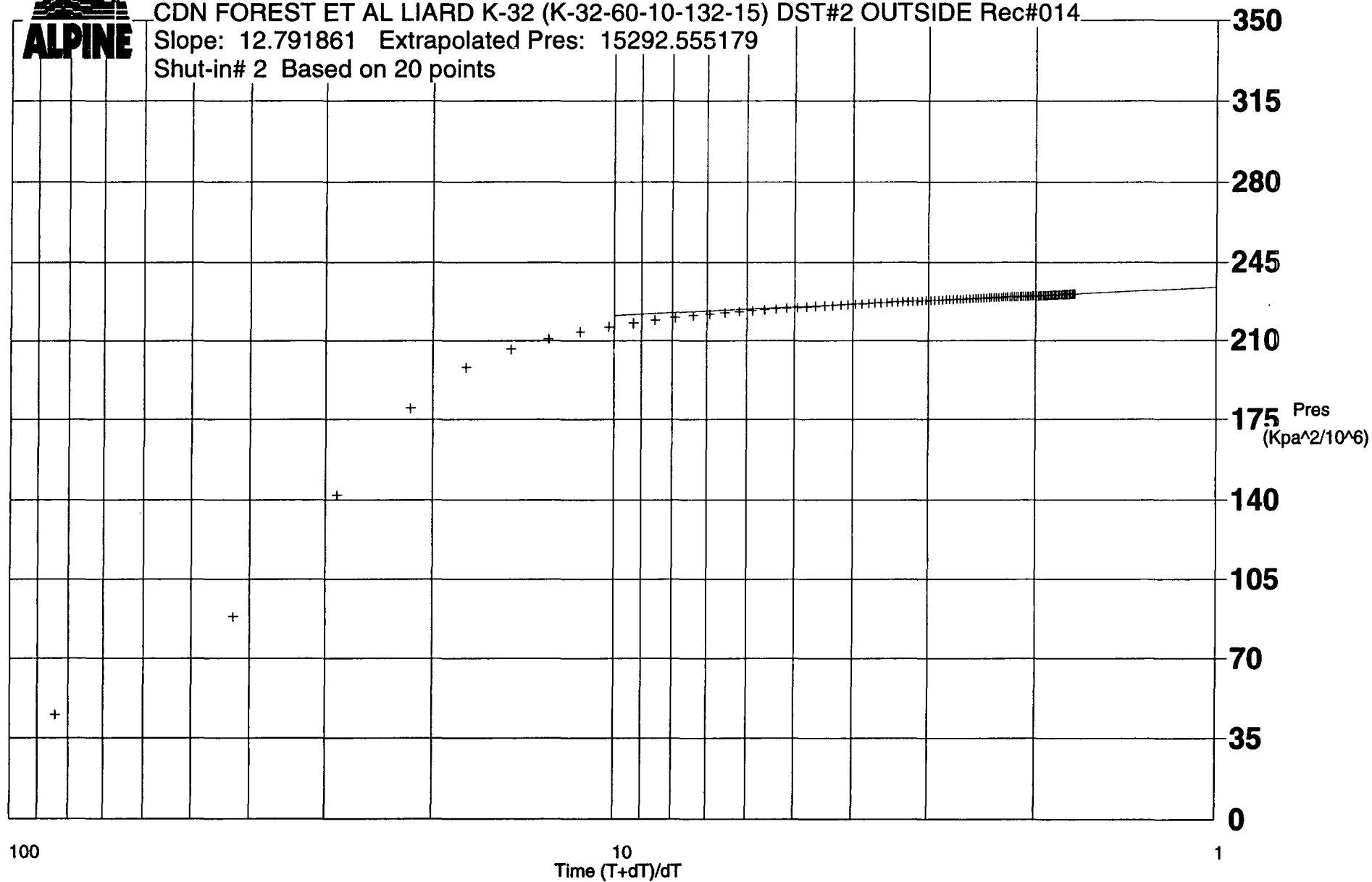
Slope: 50.096734 Extrapolated Pres: 15313.511054

Shut-in# 1 Based on 20 points





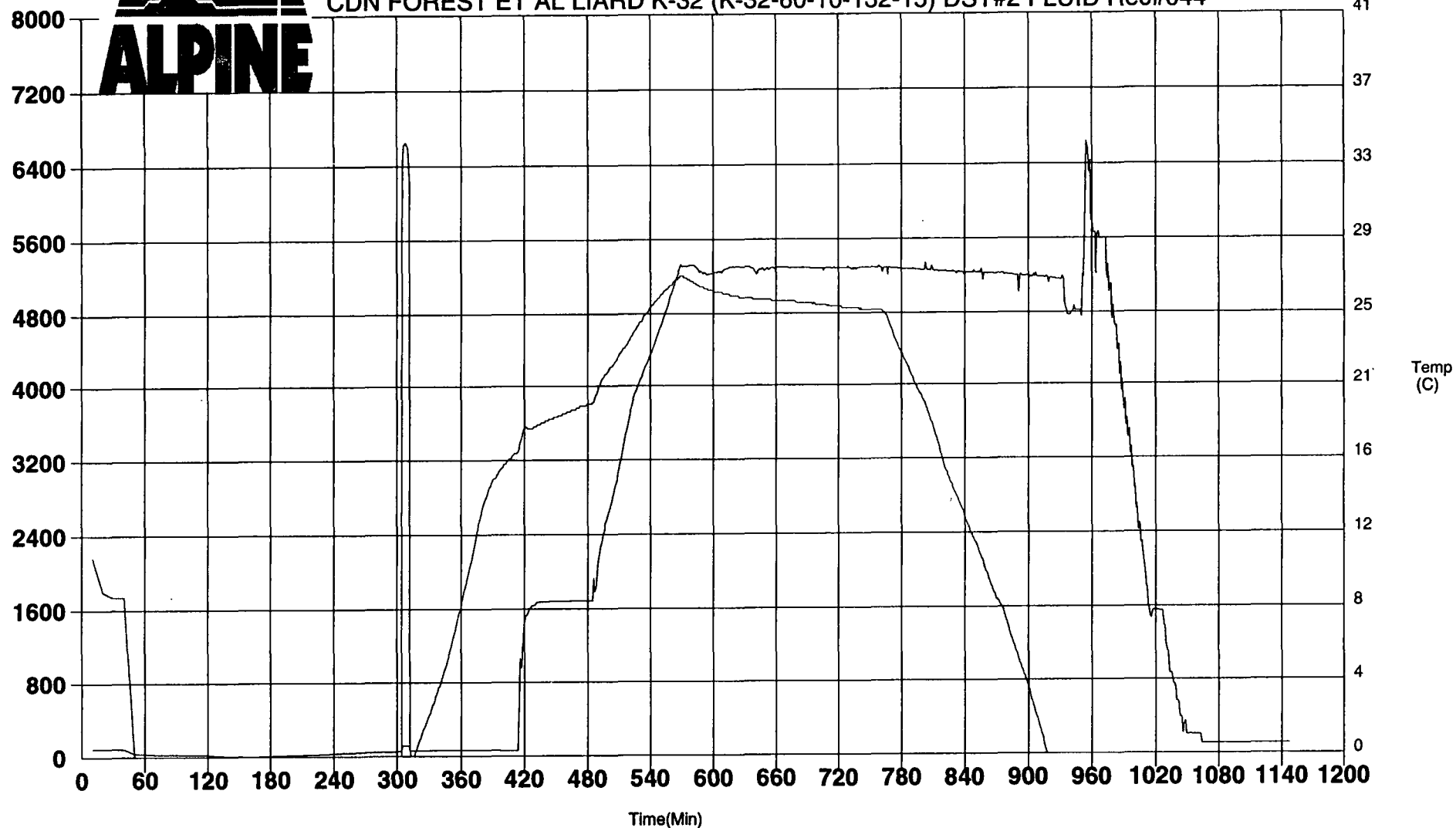
Horner Plot
CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 OUTSIDE Rec#014
Slope: 12.791861 Extrapolated Pres: 15292.555179
Shut-in# 2 Based on 20 points





Time/Pressure Plot

CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 FLUID Rec#044



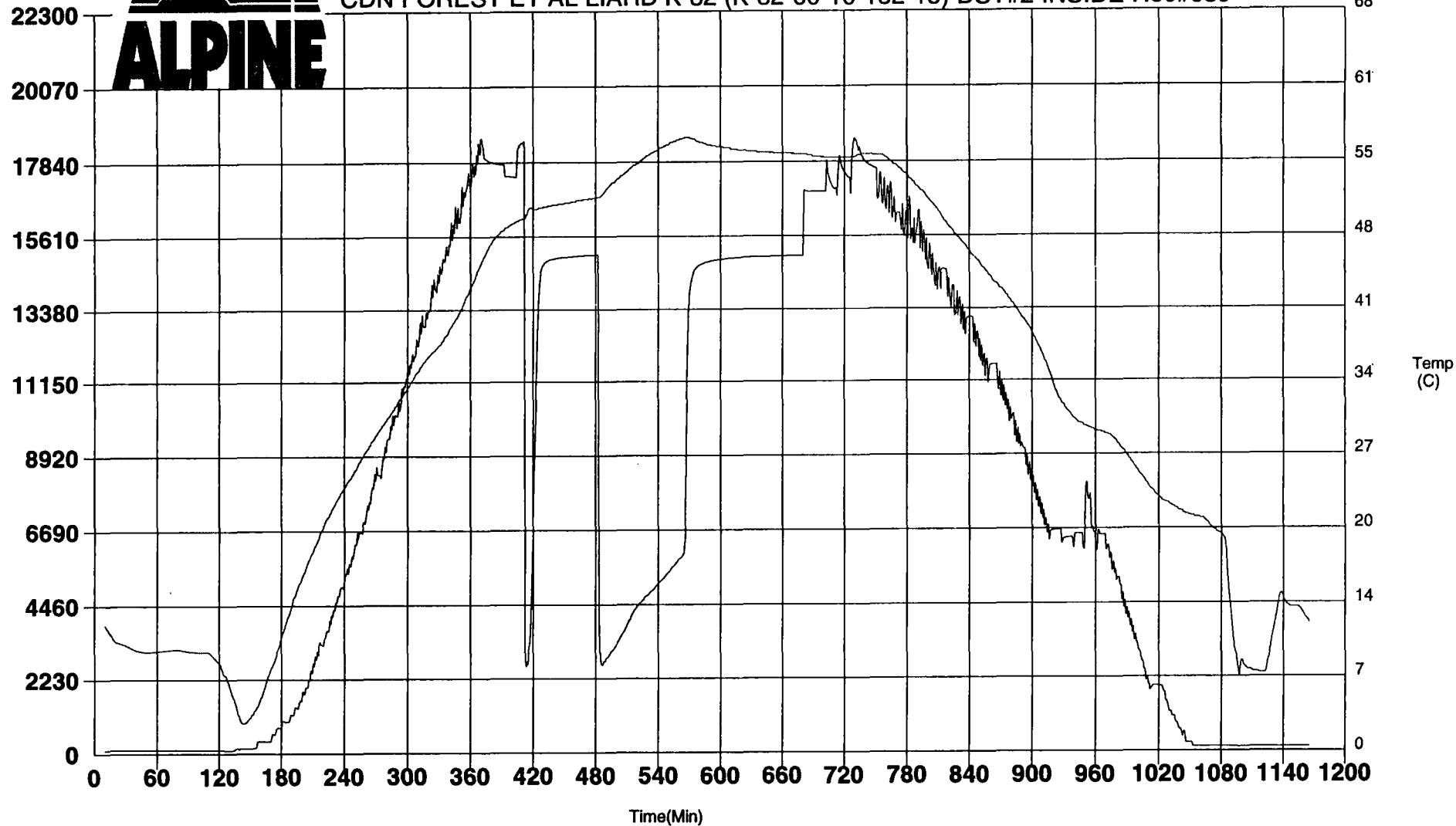
A Initial Hydrostatic - 57
B Start of 1st Flow - 954
C End of 1st Flow - 1527
D End of 1st Shutin - 1682
E Start of 2nd Flow - 1829

F End of 2nd Flow - 5331
G End of 2nd Shutin - 5291
Q Final Hydrostatic - 5275



Time/Pressure Plot

CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 INSIDE Rec#039



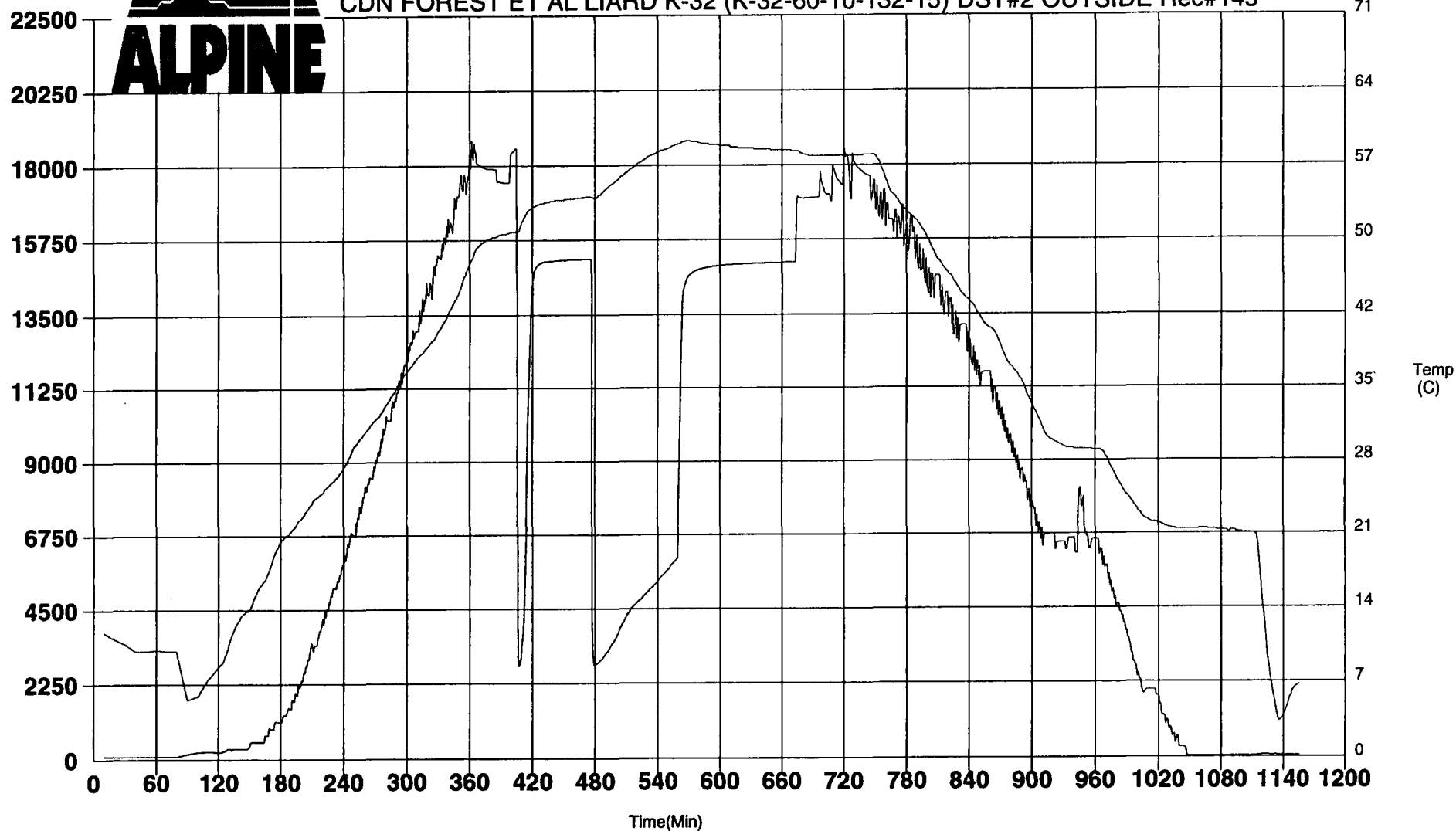
A Initial Hydrostatic - 17416
B Start of 1st Flow - 2815
C End of 1st Flow - 3026
D End of 1st Shutin - 15057
E Start of 2nd Flow - 2625

F End of 2nd Flow - 5983
G End of 2nd Shutin - 15025
Q Final Hydrostatic - 16966



Time/Pressure Plot

CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 OUTSIDE Rec#145



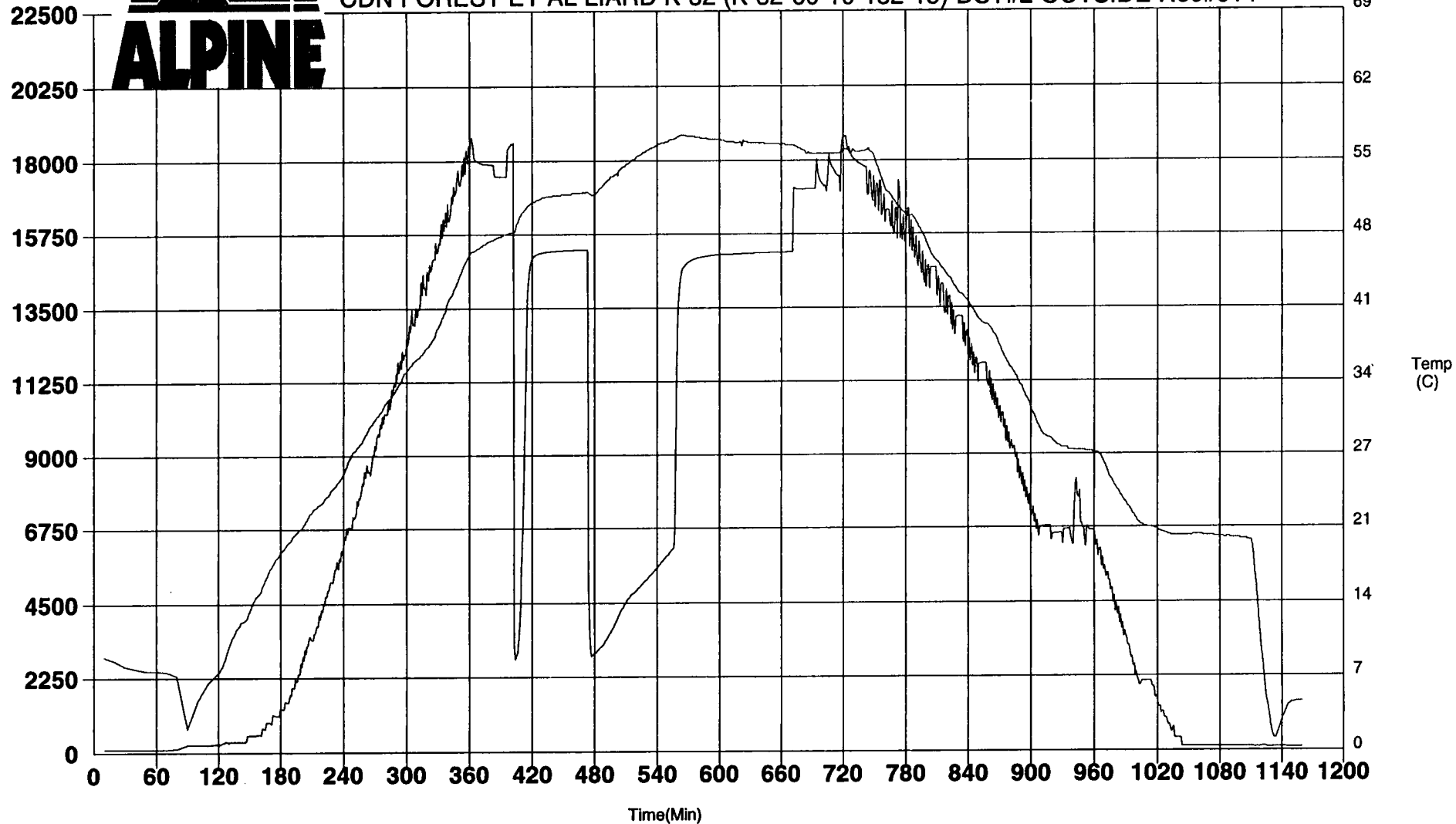
A Initial Hydrostatic - 17474
B Start of 1st Flow - 3024
C End of 1st Flow - 3882
D End of 1st Shutin - 15177
E Start of 2nd Flow - 2791

F End of 2nd Flow - 6043
G End of 2nd Shutin - 15066
Q Final Hydrostatic - 16991



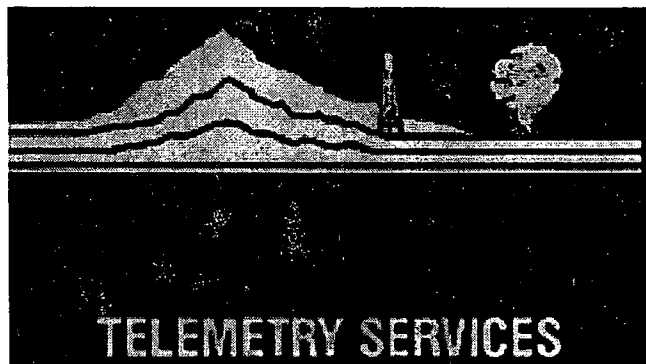
Time/Pressure Plot

CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 OUTSIDE Rec#014



A Initial Hydrostatic - 17516
B Start of 1st Flow - 3196
C End of 1st Flow - 3404
D End of 1st Shutin - 15271
E Start of 2nd Flow - 2867

F End of 2nd Flow - 6162
G End of 2nd Shutin - 15194
Q Final Hydrostatic - 17123



Real Time Test Report

Prepared for: **CANADIAN FOREST OIL**
600, 800 - 6th Ave. S.W.
CALGARY, AB

Well Name: CDN FOREST ET AL LIARD K-32
Location: K-32-60-10-132-15

Test Date: 03/19/1999

Job Ticket #: T3770-1 DST#: 2

Real Time Testing Report

TELEMETRY SERVICES

Company: CANADIAN FOREST OIL LTD.
600, 800 - 6th Ave. S.W.
CALGARY, AB

Job Ticket #: T3770-1 DST#: 2
Test Date: 03/19/1999 830hrs

Well Name: CDN FOREST ET AL LIARD K-32

Location: K-32-60-10-132-15

General Information:

Test Type: CONV. BOTTOM HOLE
Interval: 1635m -1695m
Formation: PERMIAN FANTASQUE
KB Elevation: 404.50m
Ground Elevation: 400.10m
Total Depth: 1695.00m
Test Mode: Gas

Tester: B. HOLLINGSHEAD
Truck No.: Unit 115
Contractor: NABORS
Rig No.: 6
Hole Diameter: 222mm
Hole Condition: GOOD
Bottom Hole Temperature: 56.60 C

Telemetry Recorder Information:

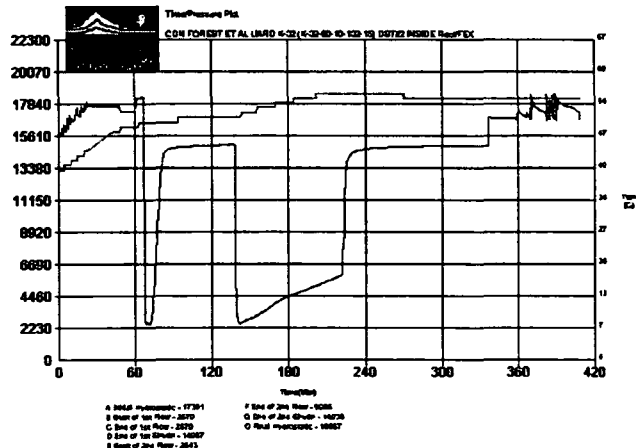
INSIDE

Recorder #: FEK Depth: 1628.49 m

Flag Points:	Time:	Pressure:
A Initial Hydrostatic	0.00	17301.3
B Start of 1st Flow	0.00	2578.9
C End of 1st Flow	4.08	2879.1
D End of 1st Shutin	65.10	14987.1
E Start of 2nd Flow	0.00	2543.2
F End of 2nd Flow	80.22	5906.0
G End of 2nd Shutin	114.54	14938.4
Q Final Hydrostatic	0.00	16857.2

Test Run Information:

Start Time: 830hrs
Reached Test Depth: 1200hrs
Pull Out Time: 1730hrs
Tool Out Of Hole: 2330hrs
Water Loss: 7.00cm³
Mud Drop: NO
VIS: 90.00S/L
Filter Cake: 1.00mm
Pump Time: 30min
Reversed Out: YES
Mud Type: GEL CHEMICAL
Mud Weight: 1095.00kg/m³
Amount of fill: 0.00m
Amount of cushion: 0.00
Type of cushion:



General Remarks:

Mechanically successful. *Test results suggest moderate permeability within the zone tested.

Maximum gas rates as reported by Alpine Closed Chamber are as follows:

PREFLOW: 2314.49 m3/day.

FINAL FLOW: 3908.14 m3/day.

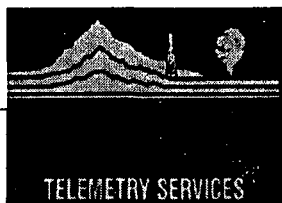
Went to conventional flow after 40 minutes of closed chamber.

*** See gas volume charts for gas rates.

Recovery Description:

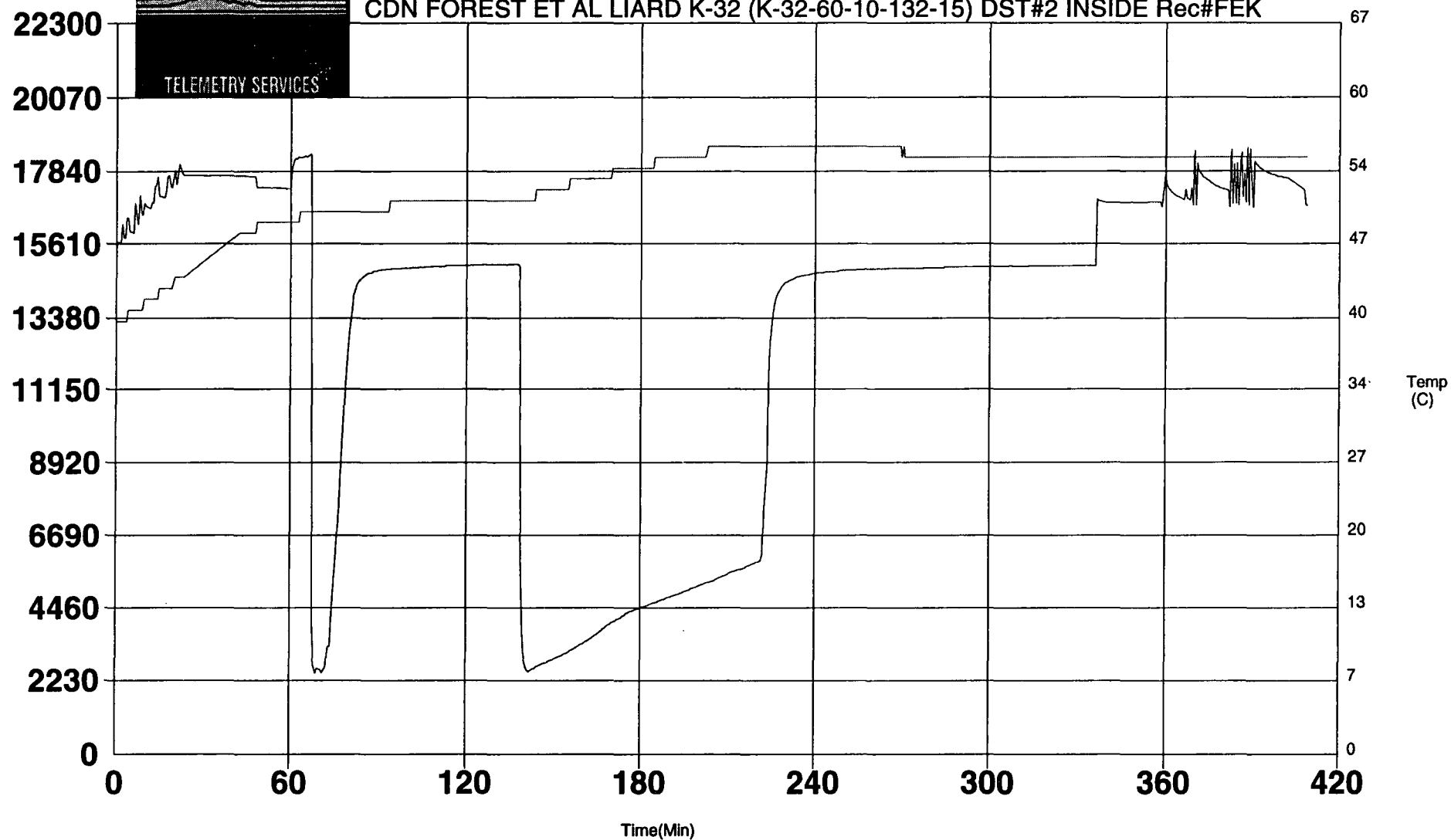
Total fluid recovery reversed out was 552 meters, consisting of 20 meters gasified mud, 200 meters muddy gasified salt water, 332 meters salt water.
Salinity = 37,500 PPM

Gas to surface.



Time/Pressure Plot

CDN FOREST ET AL LIARD K-32 (K-32-60-10-132-15) DST#2 INSIDE Rec#FEK



A Initial Hydrostatic - 17301
B Start of 1st Flow - 2579
C End of 1st Flow - 2879
D End of 1st Shutin - 14987
E Start of 2nd Flow - 2543

F End of 2nd Flow - 5906
G End of 2nd Shutin - 14938
Q Final Hydrostatic - 16857