



DRILL STEM TEST REPORT

Prepared For: **Downing/Nelson Oil C**

P.O. Box 372
Hays, KS 67601

ATTN: Ron Nelson

12-13-21 Trego KS

Newcomer-Kinzey #1-1

Start Date: 2001.04.06 @ 00:00:00

End Date: 2001.04.07 @ 21:15:00

Job Ticket #: 14692 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14692

DST#: 1

ATTN: Ron Nelson

Test Start: 2001.04.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **Toronto/A LKC**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 18:19:30

Time Test Ended: 21:15:00

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3443.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Total Depth: **3510.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2195.00 ft (KB)**

2187.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **3030** Inside

Press@RunDepth: **69.97 psig @ 3455.01 ft (KB)**

Start Date: **2001.04.06**

End Date:

2001.04.06

Capacity: **7000.00 psig**

Last Calib.:

2001.04.05

Start Time: **16:22:02**

End Time:

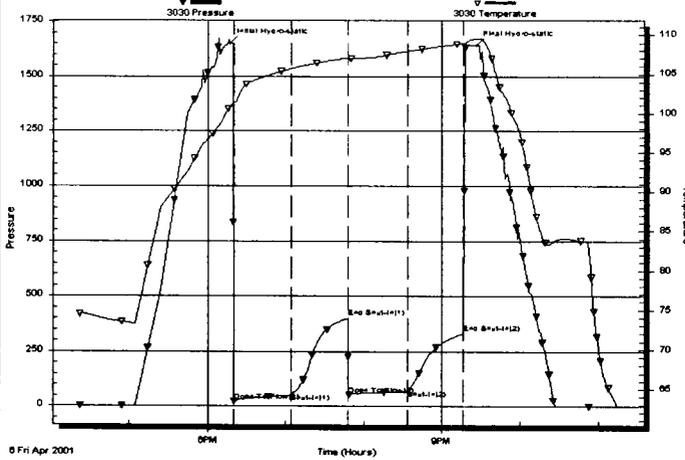
23:14:30

Time On Btm: **2001.04.06 @ 18:17:00**

Time Off Btm: **2001.04.06 @ 21:27:00**

TEST COMMENT: **608' GIP F-Strong BOB in 12 min
FF-Strong BOB in 15 min**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
115	1650.40	100.94	Initial Hydro-static
118	20.29	101.38	Open To Flow (1)
163	52.69	105.72	Shut-in(1)
206	400.04	107.05	End Shut-in(1)
206	51.21	107.06	Open To Flow (2)
252	69.97	107.90	Shut-in(2)
295	332.39	108.92	End Shut-in(2)
305	1641.95	109.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	HOCGSYM 10%g 70%o 205m	1.82

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14692

DST#: 1

ATTN: Ron Nelson

Test Start: 2001.04.06 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight: 1200.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
Drill Pipe Above KB:	17.02 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3443.00 ft			String Weight: Initial 42000.00 lb
Depth to Bottom Packer:	ft			Final 43000.00 lb
Interval betw een Packers:	ft			
Tool Length:	88.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

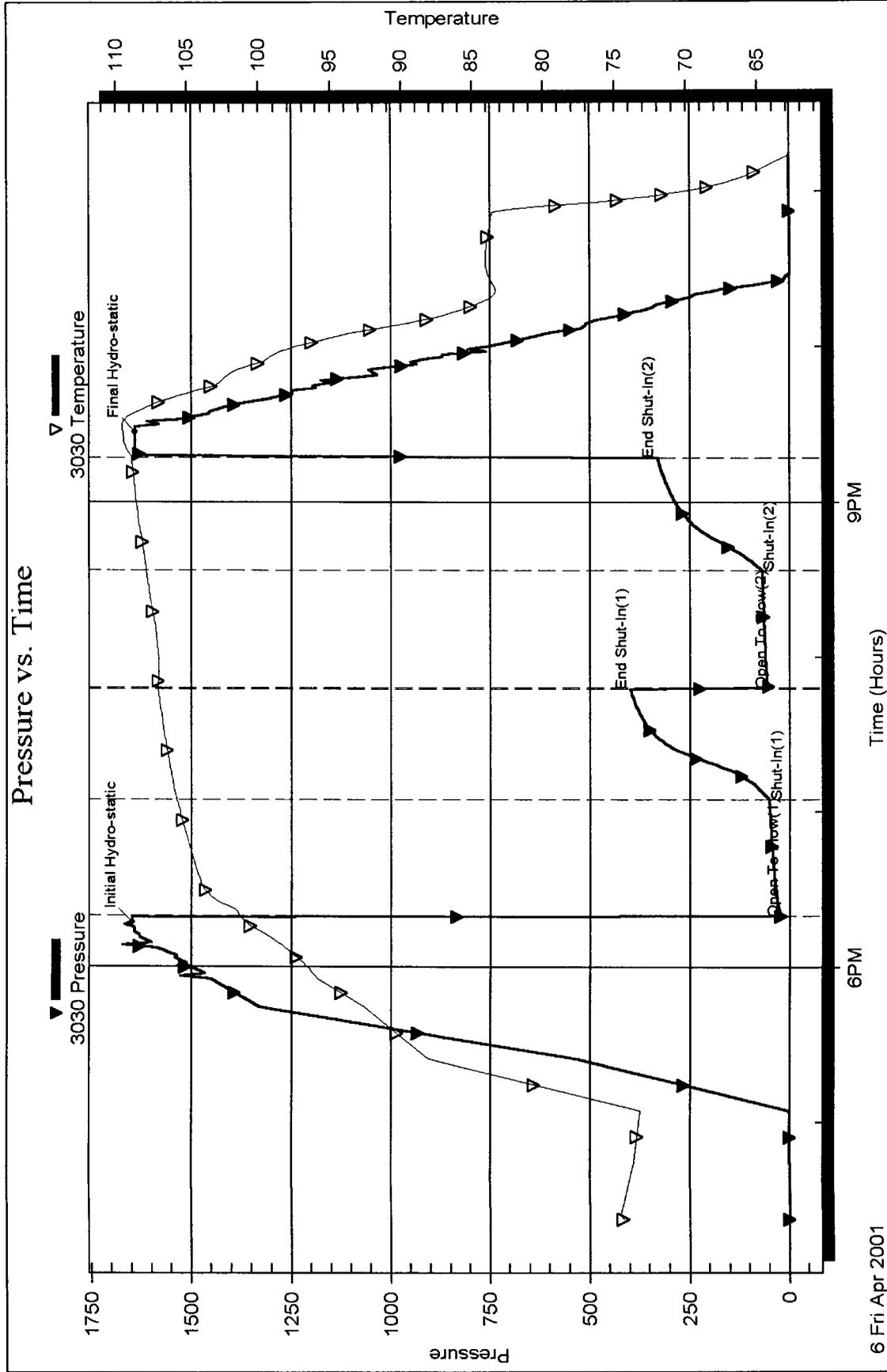
Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			3428.00	
S.I. Tool	5.00			3433.00	
HYD S.I. Tool	5.00			3438.00	
Packer	5.00			3443.00	16.00 Bottom Of Top Packer
Packer	5.00			3448.00	
Stubb	1.00			3449.00	
Perforations	5.00			3454.00	
C.O. Sub	1.00			3455.00	
Recorder	0.01	3030	Inside	3455.01	
Blank Spacing	31.00			3486.01	
C.O. Sub	1.00			3487.01	
Recorder	0.01	13254	Outside	3487.02	
Perforations	23.00			3510.02	
Bullnose	5.00			3515.02	72.02 Bottom Packers & Anchor

Total Tool Length: 88.02

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Downing/Nelson Oil C**

P.O. Box 372
Hays, KS 67601

ATTN: Ron Nelson

12-13-21 Trego KS

Newcomer-Kinzey #1-1

Start Date: 2001.04.07 @ 10:07:00

End Date: 2001.04.07 @ 14:15:00

Job Ticket #: 14693 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14693

DST#: 2

ATTN: Ron Nelson

Test Start: 2001.04.07 @ 10:07:00

GENERAL INFORMATION:

Formation: **"C-D-E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:30

Time Test Ended: 14:15:00

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3508.00 ft (KB) To 3564.00 ft (KB) (TVD)**

Reference Elevations: 2195.00 ft (KB)

Total Depth: 3564.00 ft (KB)

2187.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 3030 Inside

Press@RunDepth: 197.79 psig @ 3520.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.04.07

End Date:

2001.04.07

Last Calib.: 2001.04.05

Start Time: 10:07:02

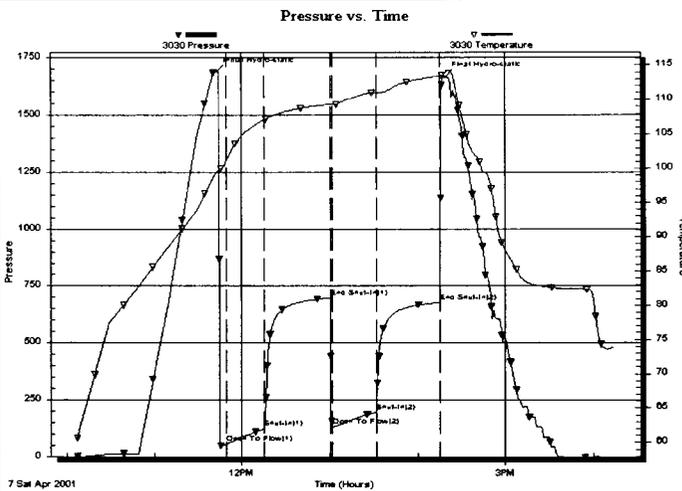
End Time:

16:14:00

Time On Btm: 2001.04.07 @ 11:43:00

Time Off Btm: 2001.04.07 @ 14:19:00

TEST COMMENT: 2728' GIP IF-Strong BOB in 2 min
FF Strong BOB in 5 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
96	1689.62	99.55	Initial Hydro-static
103	56.41	101.22	Open To Flow (1)
128	122.99	107.04	Shut-In(1)
174	698.11	109.35	End Shut-In(1)
175	132.86	109.35	Open To Flow (2)
205	197.79	111.02	Shut-In(2)
249	677.84	113.45	End Shut-In(2)
252	1665.52	114.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Slitly mc gsy oil 60%g 35%o 5%w	3.48
248.00	C Gsy O 50%g 50%o	3.48

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14693

DST#: 2

ATTN: Ron Nelson

Test Start: 2001.04.07 @ 10:07:00

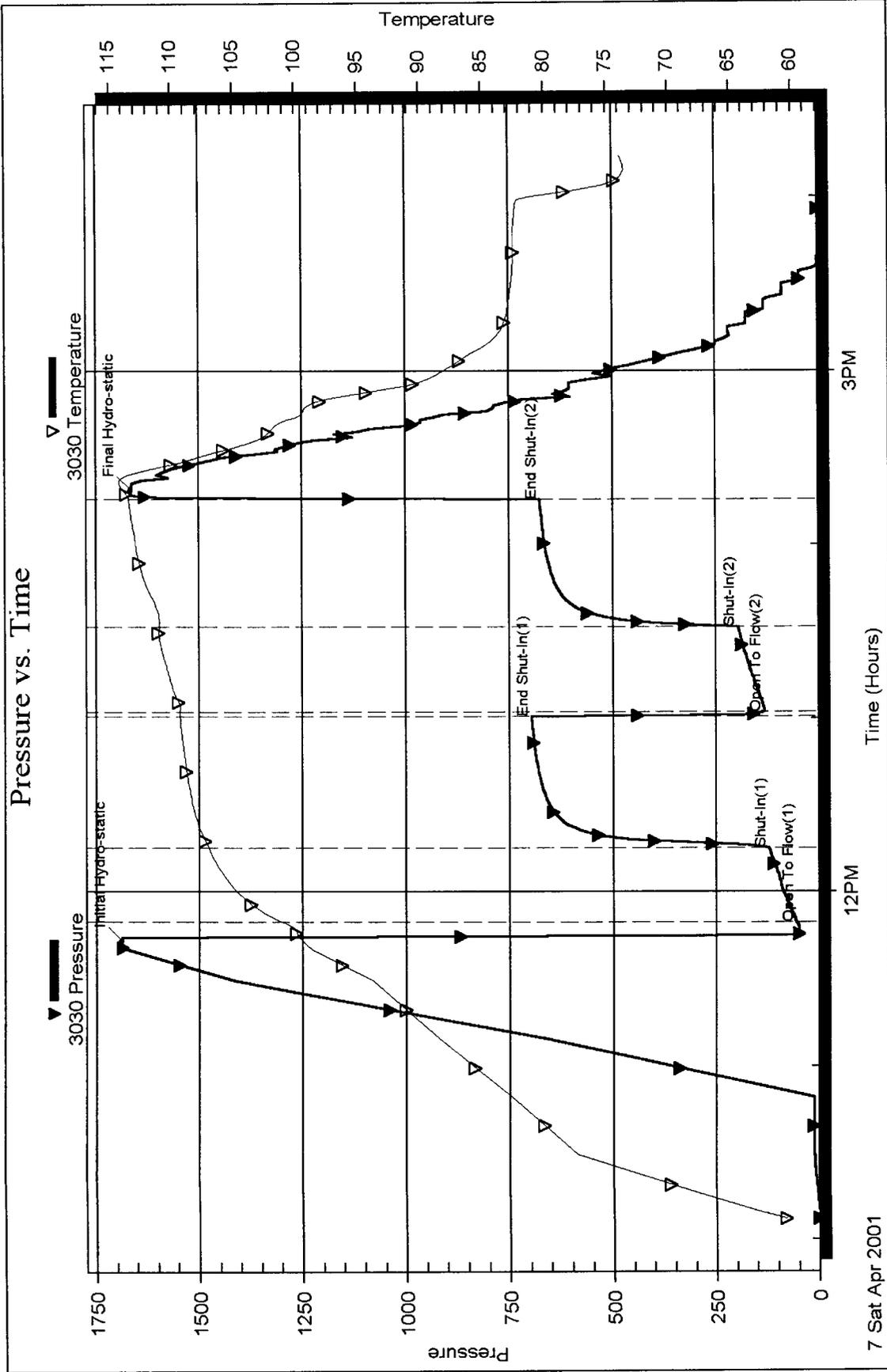
Tool Information

Drill Pipe:	Length: 3508.00 ft	Diameter: 3.80 inches	Volume: 49.21 bbl	Tool Weight: 1200.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
Drill Pipe Above KB:	16.02 ft			Tool Chased 5.00 ft
Depth to Top Packer:	3508.00 ft			String Weight: Initial 42000.00 lb
Depth to Bottom Packer:	ft			Final lb
Interval between Packers:	ft			
Tool Length:	77.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3493.00	
S.I. Tool	5.00			3498.00	
HYD S.I. Tool	5.00			3503.00	
Packer	5.00			3508.00	16.00 Bottom Of Top Packer
Packer	5.00			3513.00	
Stubb	1.00			3514.00	
Perforations	5.00			3519.00	
C.O. Sub	1.00			3520.00	
Recorder	0.01	3030	Inside	3520.01	
Blank Spacing	32.00			3552.01	
C.O. Sub	1.00			3553.01	
Recorder	0.01	13254	Outside	3553.02	
Perforations	11.00			3564.02	
Bullnose	5.00			3569.02	61.02 Bottom Packers & Anchor

Total Tool Length: 77.02





DRILL STEM TEST REPORT

Prepared For: **Downing/Nelson Oil C**

P.O. Box 372
Hays, KS 67601

ATTN: Ron Nelson

12-13-21 Trego KS

Newcomer-Kinzey #1-1

Start Date: 2001.04.08 @ 05:52:00

End Date: 2001.04.08 @ 10:10:00

Job Ticket #: 14694 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14694 **DST#: 3**

ATTN: Ron Nelson

Test Start: 2001.04.08 @ 05:52:00

GENERAL INFORMATION:

Formation: 'H-I-J'
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:38:30
Time Test Ended: 10:10:00

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

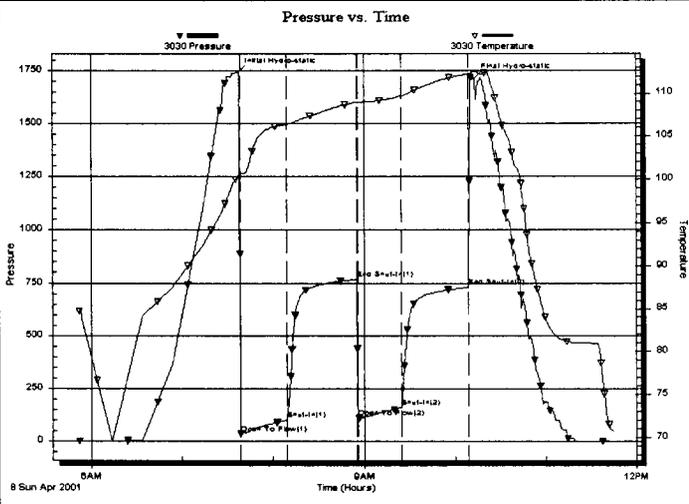
Interval: 3599.00 ft (KB) To 3675.00 ft (KB) (TVD)
Total Depth: 3675.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2195.00 ft (KB)
2187.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3030 Inside
Press@RunDepth: 160.00 psig @ 3602.01 ft (KB)
Start Date: 2001.04.08 End Date: 2001.04.08
Start Time: 05:52:02 End Time: 11:45:30

Capacity: 7000.00 psig
Last Calib.: 2001.04.05
Time On Btm: 2001.04.08 @ 07:37:00
Time Off Btm: 2001.04.08 @ 10:13:00

TEST COMMENT: 2356' GIP IF-Strong BOB in 3.5 min
FF-Strong BOB in 5 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
105	1740.79	100.34	Initial Hydro-static
107	33.62	100.58	Open To Flow (1)
137	102.04	106.37	Shut-In(1)
183	766.90	108.97	End Shut-In(1)
184	108.95	108.98	Open To Flow (2)
213	160.00	109.69	Shut-In(2)
257	729.93	112.26	End Shut-In(2)
261	1711.47	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
206.00	Silty MCGsy O 50%g 40%o 10%rn	2.89
186.00	C Gsy O 50%g 50%o	2.61
62.00	MCGsyO 30%g 50%o 20%rn	0.87

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14694

DST#: 3

ATTN: Ron Nelson

Test Start: 2001.04.08 @ 05:52:00

Tool Information

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.80 inches	Volume: 50.48 bbl	Tool Weight: 1200.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
Drill Pipe Above KB:	21.02 ft			Tool Chased 5.00 ft
Depth to Top Packer:	3594.00 ft			String Weight: Initial 42000.00 lb
Depth to Bottom Packer:	ft			Final 44000.00 lb
Interval betw een Packers:	ft			
Tool Length:	97.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3579.00	
S.I. Tool	5.00			3584.00	
HYD S.I. Tool	5.00			3589.00	
Packer	5.00			3594.00	16.00 Bottom Of Top Packer
Packer	5.00			3599.00	
Stubb	1.00			3600.00	
Perforations	2.00			3602.00	
Recorder	0.01	3030	Inside	3602.01	
C.O. Sub	1.00			3603.01	
Blank Spacing	62.00			3665.01	
C.O. Sub	1.00			3666.01	
Recorder	0.01	13254	Outside	3666.02	
Perforations	4.00			3670.02	
Bullnose	5.00			3675.02	81.02 Bottom Packers & Anchor

Total Tool Length: 97.02

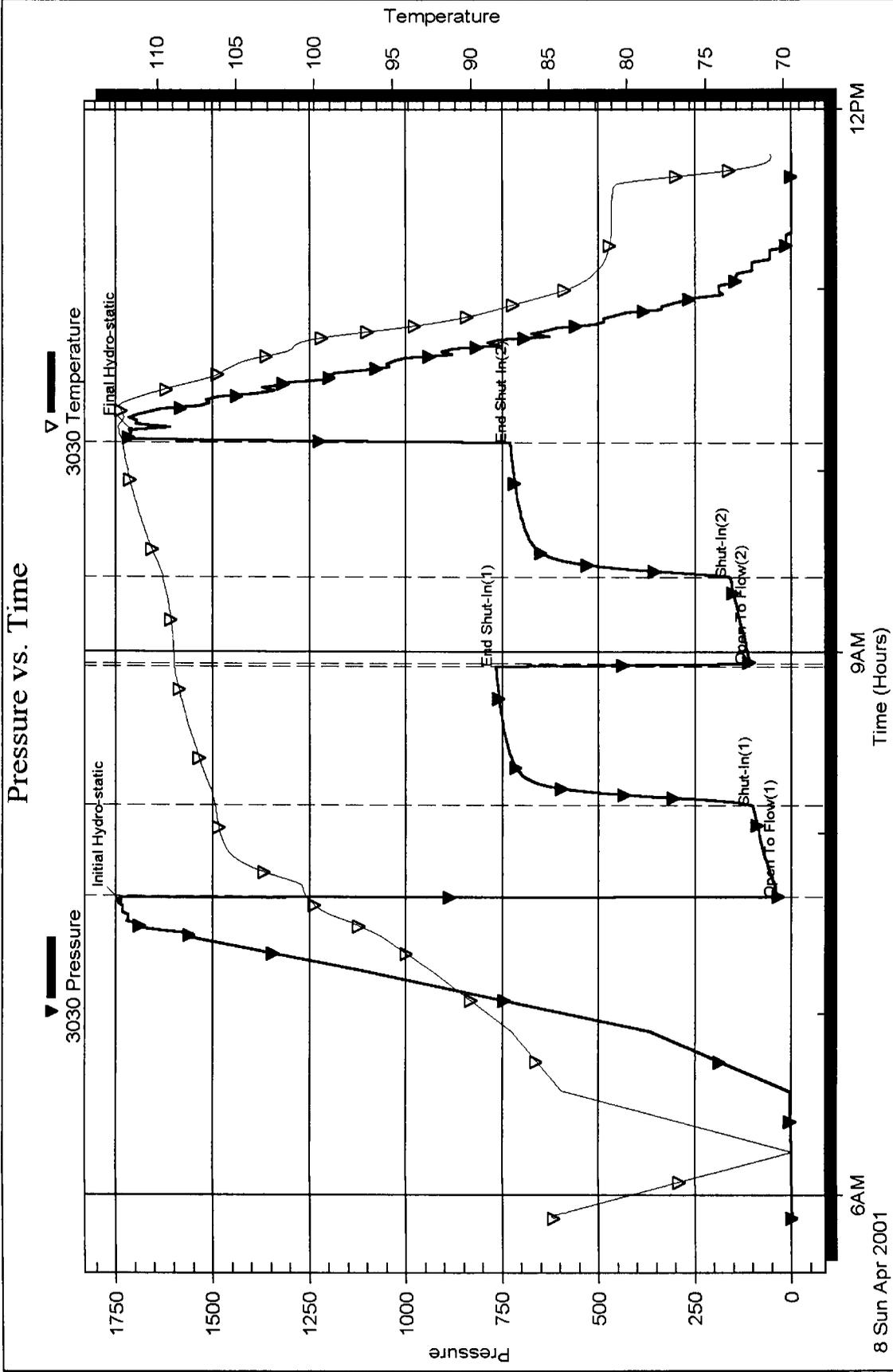
Serial #: 3030

Inside

Downing/Neilson Oil C

12-13-21 Trego KS

Pressure vs. Time



TRILOBITE TESTING L.L.C.

OPERATOR : Downing-Nelson Oil Co. DATE 4-8-01
 WELL NAME: Newcomer-Kinzey #1-12 KB 2195.00 ft TICKET NO: 14695 DST #4
 LOCATION : 12-13-21 Trego co KS GR 2187.00 ft FORMATION: K LKC
 INTERVAL : 3668.00 To 3695.00 ft TD 3695.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	13254	13254				PF Fr. 1940 to 2025 hr
SI 45	Range(Psi)	4550.0	4550.0	0.0	0.0	0.0	IS Fr. 2025 to 2110 hr
SF 45	Clock(hrs)	12	12				SF Fr. 2110 to 2155 hr
FS 45	Depth(ft)	3695.0	3695.0	0.0	0.0	0.0	FS Fr. 2155 to 2240 hr

	Field	1	2	3	4	
A. Init Hydro	1729.0	1702.0	0.0	0.0	0.0	T STARTED 1803 hr
B. First Flow	59.0	52.0	0.0	0.0	0.0	T ON BOTM 1935 hr
B1. Final Flow	59.0	52.0	0.0	0.0	0.0	T OPEN 1940 hr
C. In Shut-in	533.0	541.0	0.0	0.0	0.0	T PULLED 2240 hr
D. Init Flow	82.0	79.0	0.0	0.0	0.0	T OUT 0040 hr
E. Final Flow	82.0	73.0	0.0	0.0	0.0	
F. Fl Shut-in	426.0	421.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1647.0	1628.0	0.0	0.0	0.0	Tool Wt. 1100.00 lbs
Inside/Outside	I	I				Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 42000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3661.00 ft

RECOVERY

Tot Fluid 122.00 ft of 0.00 ft in DC and 122.00 ft in DP
 120.00 ft of Gas in pipe
 5.00 ft of Slightly oil cut mud
 0.00 ft of 3% oil 97% mud
 50.00 ft of Mud
 62.00 ft of Muddy water
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 86000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to 5" fair blow
 Final Flow:
 Weak building to 2"

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 49.00 S/L
 W.L. 8.00 in3
 F.C. 0.00 in
 Mud Drop

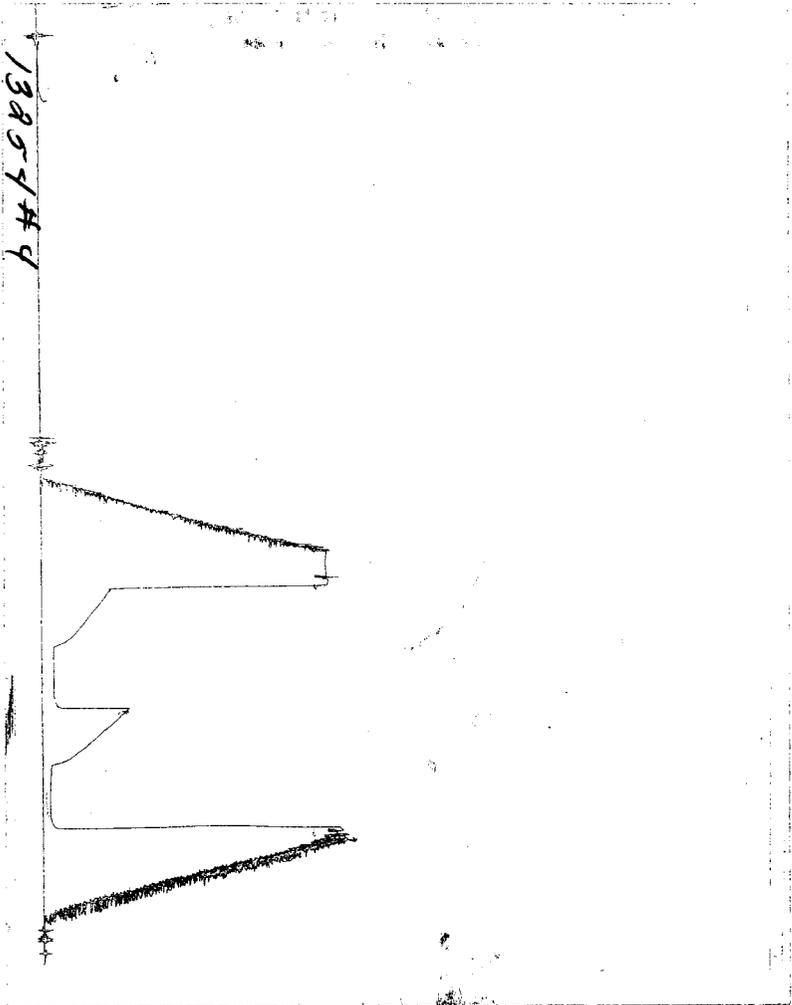
Amt. of fill 0.00 ft
 Btm. H. Temp. 0.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Dan Bangle
 Co. Rep. Ron Nelson
 Contr. Discovery
 Rig # 1
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





DRILL STEM TEST REPORT

Prepared For: **Downing/Nelson Oil C**

P.O. Box 372
Hays, KS 67601

ATTN: Ron Nelson

12-13-21 Trego KS

Newcomer-Kinzey #1-1

Start Date: 2001.04.09 @ 14:01:00

End Date: 2001.04.09 @ 18:15:00

Job Ticket #: 14696 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14696

DST#: 5

ATTN: Ron Nelson

Test Start: 2001.04.09 @ 14:01:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:45:54

Time Test Ended: 18:15:00

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3795.00 ft (KB) To 3828.00 ft (KB) (TVD)**

Reference Elevations: **2195.00 ft (KB)**

Total Depth: **3828.00 ft (KB)**

2187.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **8.00 ft**

Serial #: **2357** Inside

Press@RunDepth: **39.94 psig @ 3798.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2001.04.09**

End Date:

2001.04.09

Last Calib.: **2001.04.09**

Start Time: **13:04:25**

End Time:

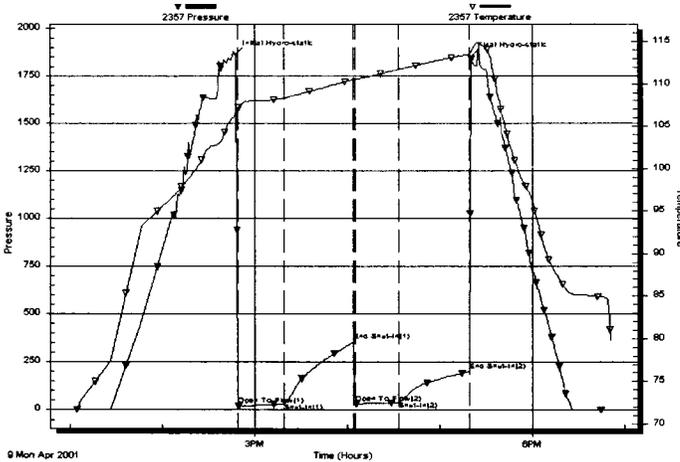
18:51:24

Time On Btm: **2001.04.09 @ 14:47:24**

Time Off Btm: **2001.04.09 @ 17:19:54**

TEST COMMENT: **165 GIP IF-Weak-building to BOB in 23 min
FFWeak building to 2.5"**

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning/Nelson Oil C

Newcomer-Kinzey #1-1

P.O. Box 372
Hays, KS 67601

12-13-21 Trego KS

Job Ticket: 14696

DST#: 5

ATTN: Ron Nelson

Test Start: 2001.04.09 @ 14:01:00

Tool Information

Drill Pipe:	Length: 3787.00 ft	Diameter: 3.80 inches	Volume: 53.12 bbl	Tool Weight: 1200.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
Drill Pipe Above KB:	13.02 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3790.00 ft			String Weight: Initial 44000.00 lb
Depth to Bottom Packer:	ft			Final 44000.00 lb
Interval betw een Packers:	ft			
Tool Length:	54.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

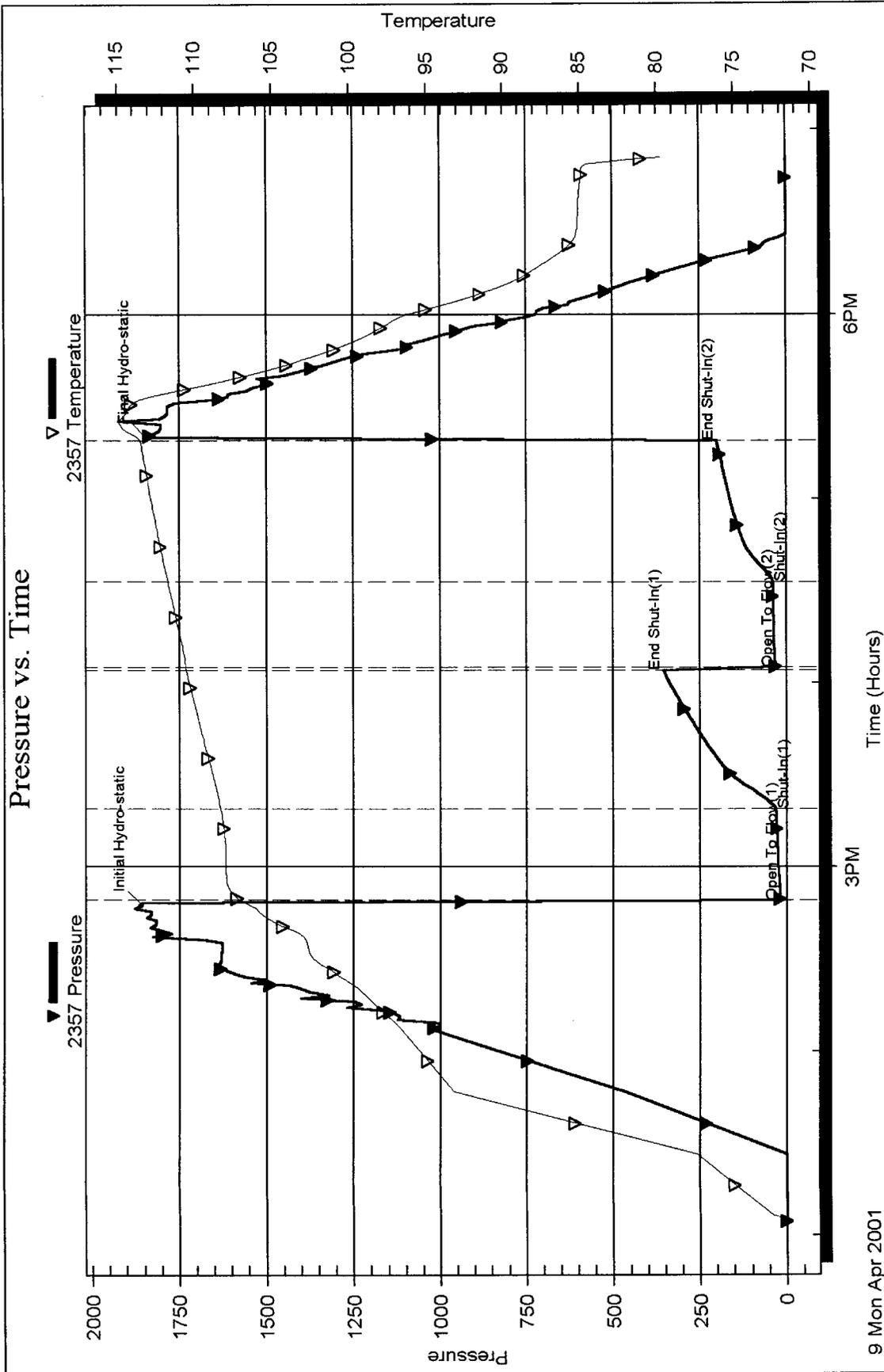
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3775.00	
S.I. Tool	5.00			3780.00	
HYD S.I. Tool	5.00			3785.00	
Packer	5.00			3790.00	16.00 Bottom Of Top Packer
Packer	5.00			3795.00	
Stubb	1.00			3796.00	
Perforations	2.00			3798.00	
Recorder	0.01	2357	Inside	3798.01	
Perforations	25.00			3823.01	
Recorder	0.01	13254	Outside	3823.02	
Bullnose	5.00			3828.02	38.02 Bottom Packers & Anchor

Total Tool Length: 54.02

Serial #: 2357

Inside Dowling/Nelson Oil C

12-13-21 Trego KS



9 Mon Apr 2001

Ref. No: 14696

Printed: 2001.04.11 @ 10:39:12 Page 3