



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1060050

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	FHSU 1-7
Doc ID	1060050

All Electric Logs Run

Sonic
Micro
Density/Neutron
Dual Induction

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	FHSU 1-7
Doc ID	1060050

Tops

Name	Top	Datum
Top Anhydrite	1322	+747
Base	1366	+703
Topeka	3074	-1005
Heebner	3322	-1253
Toronto	3342	-1273
LKC	3370	-1301
BKC	3598	-1529
Conglomerate	3656	-1587
Arbuckle	3724	-1655

ALLIED CEMENTING CO., LLC. 035825

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>5/31/21</u>	SEC. <u>7</u>	TWP. <u>14</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30p</u>	JOB FINISH <u>7:00p</u>
LEASE <u>FHSU</u>	WELL# <u>1-7</u>	LOCATION <u>Hays + Golf Course Rd</u>			COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)		<u>15 1/2 W Sinto</u>					

CONTRACTOR Discovery Drilling Rig #4
 TYPE OF JOB Surface Sub.
 HOLE SIZE 12 1/4 T.D. 222
 CASING SIZE 8 5/8 DEPTH 222.76
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13.23661

OWNER
 CEMENT
 AMOUNT ORDERED 150 Corn
39.00 22.61

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>111.56/mile</u>			<u>477.12</u>
TOTAL				<u>3564.87</u>

EQUIPMENT
 PUMP TRUCK CEMENTER Shane
 # 409 HELPER Todd
 BULK TRUCK
 # 378 DRIVER Mark
 BULK TRUCK
 # DRIVER

REMARKS:
Run 5 hrs. + Loading 5H.
Est Circulation
Mixed 150 sfs
Cement + Circulated.

CHARGE TO: Downing Nelson
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>48</u>	@	<u>7.00</u> <u>336.00</u>
MANIFOLD		@	
<u>LUM</u>	<u>48</u>	@	<u>4.00</u> <u>192.00</u>
		@	
TOTAL <u>1653.00</u>			

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment

JOB LOG

SWIFT Services, Inc.

DATE 06/24/11 PAGE NO. 7

CUSTOMER DOWNING NELSON WELL NO. 1-7 LEASE FHSU JOB TYPE CMT: PORT COLLAR TICKET NO. 20204

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							ONLOCATION CMT: 150 SMD 1/4" ID 2 3/4" x 5 1/2" RPT 2750 PORT COLLAR 1280
	1030		60		-			LOAD CSM
	1035				-	1000		PSI TEST OPEN P.C.
	1040				-			ZMS RATE
	1045	4.0	0		-	300		START CMT @ 11.2
			20		-			CIRC MUD
			450		-			CIRC CMT MIX 20 @ 14" 80 @ 11.2
			50.0		-			END 20 @ 14
	1100		40		-			DISP TOTAL 100 SIS
					-			CLOSE PC 15 SIS TO PIT!
	1105				-	1100		PSZ TEST RUN IN 8 JOINTS
	1120	3.0	0		-	150		REV. OUT
			5.0		-			1ST FLG
			12.0		-			2ND FLG
	1128		20		-			CLEAN
	1145							JOB COMPLETE THANK YOU! DAVE, JESSIE, BOB

109-1703

1400

2900

50

3000

50

v. dk gray ss

LS thin w. fine spherul. mass. ductile
NS

LS thin - gray spherul. mass

gray ss

gray ss w/ cmky in pt

gray ss

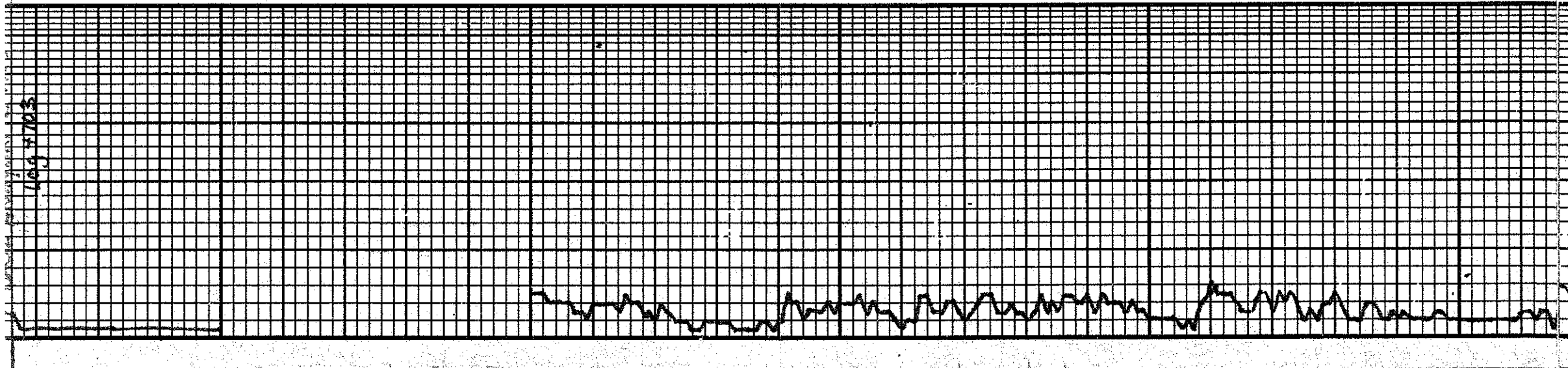
ductile ss

all ss dk gray. gray

v clayey

gray - dk gray ss

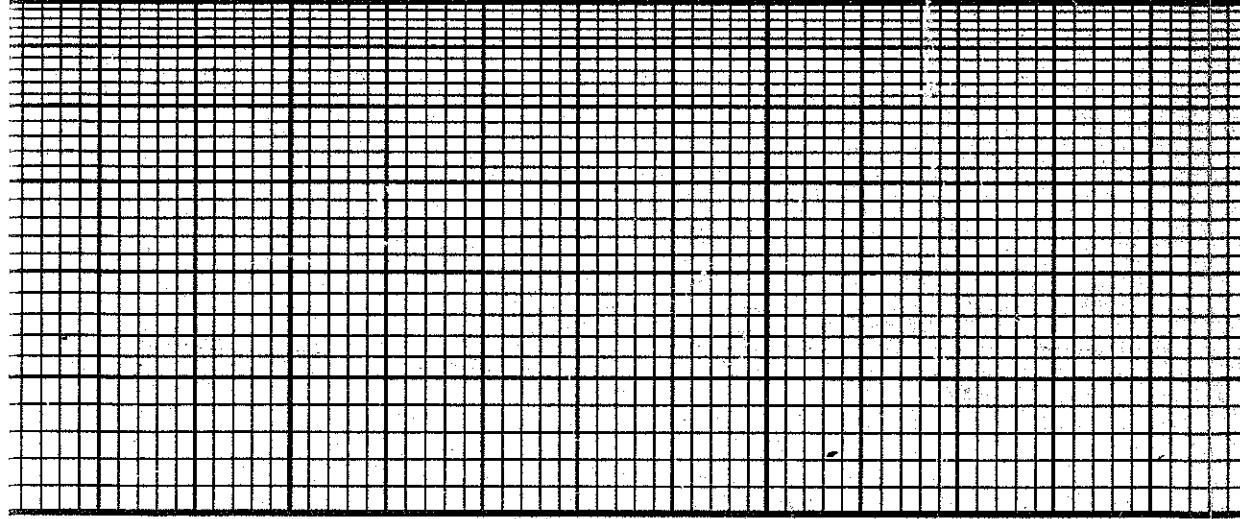
Cherty - dk gray
v. dk gray thin bedded



Ron Nelson

50

3900



DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

LITHOLOGY

OIL SHOWS

REMARKS

DEPTH

OPERATOR Downing-Nelson Oil Co. Inc.
 LEASE EHSL #1-7 IP 44G
 ELEVATION 2069' KB RTD 3793'

LOCATION BSS ENK #1845 FEE
 SEC 7 TWP 14S RNG 18W
 COUNTY ELLIS STATE KANSAS



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 w est 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34332

DST#: 1

Test Start: 2011.06.04 @ 09:10:33

GENERAL INFORMATION:

Formation: **KC"D,E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:12:03

Time Test Ended: 15:48:03

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3403.00 ft (KB) To 3458.00 ft (KB) (TVD)

Reference Elevations: 2071.00 ft (KB)

Total Depth: 3458.00 ft (KB) (TVD)

2063.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ RunDepth: 156.45 psig @ 3404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.04

End Date: 2011.06.04

Last Calib.: 2011.06.04

Start Time: 09:10:38

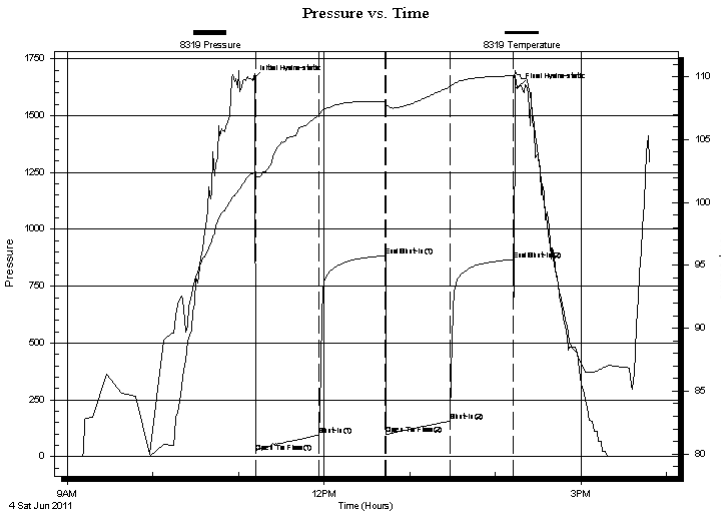
End Time: 15:48:02

Time On Btm: 2011.06.04 @ 11:10:03

Time Off Btm: 2011.06.04 @ 14:15:33

TEST COMMENT: IF-5.25in blow
ISI-No blow
FF-6in blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.80	102.29	Initial Hydro-static
2	20.47	102.01	Open To Flow (1)
46	94.65	106.92	Shut-In(1)
93	884.25	107.99	End Shut-In(1)
94	97.07	107.74	Open To Flow (2)
138	156.45	109.20	Shut-In(2)
183	866.98	110.07	End Shut-In(2)
186	1621.48	110.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	water	1.41
160.00	MCW 70%W 30%M	2.24

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 west 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34332

DST#: 1

Test Start: 2011.06.04 @ 09:10:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 90000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	water	1.410
160.00	MCW 70%W 30%M	2.244

Total Length: 280.00 ft Total Volume: 3.654 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

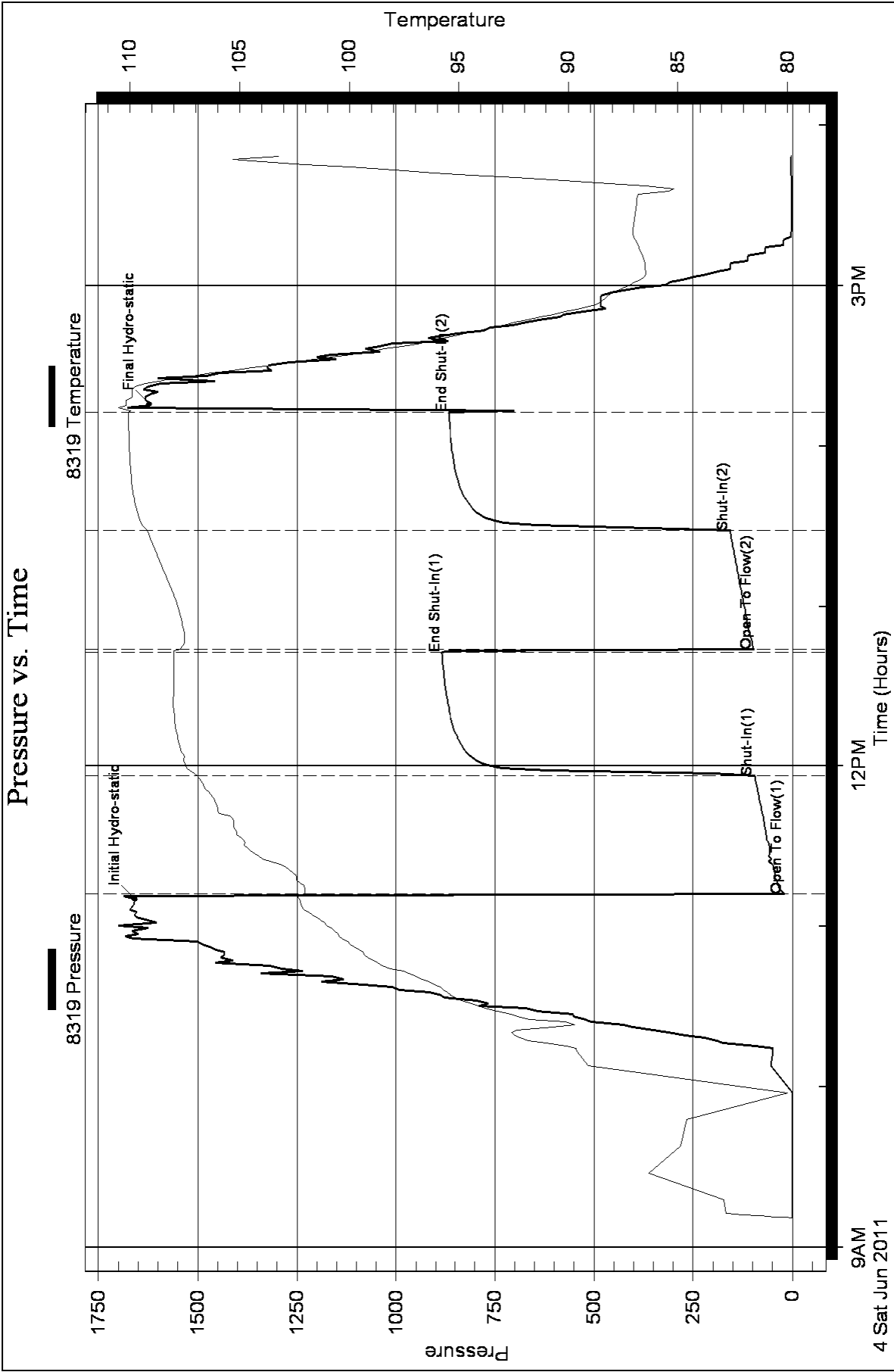
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 w est 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34333

DST#: 2

Test Start: 2011.06.05 @ 02:50:30

GENERAL INFORMATION:

Formation: **KC "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:30

Time Test Ended: 09:09:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3487.00 ft (KB) To 3555.00 ft (KB) (TVD)

Reference Elevations: 2071.00 ft (KB)

Total Depth: 3555.00 ft (KB) (TVD)

2063.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 130.96 psig @ 3488.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.05

End Date: 2011.06.05

Last Calib.: 2011.06.05

Start Time: 02:50:35

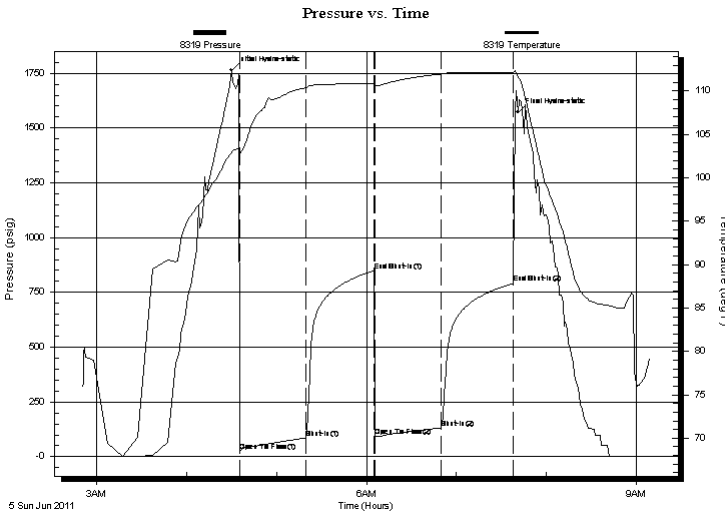
End Time: 09:09:29

Time On Btm: 2011.06.05 @ 04:30:00

Time Off Btm: 2011.06.05 @ 07:41:00

TEST COMMENT: IF-BOB in 35min
ISI-3in blow
FF-BOB in 31min
FSI- 2.5in blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.89	102.85	Initial Hydro-static
6	22.43	102.88	Open To Flow (1)
50	85.47	110.41	Shut-In(1)
95	848.32	110.87	End Shut-In(1)
96	92.93	110.66	Open To Flow (2)
140	130.96	111.95	Shut-In(2)
188	792.03	112.20	End Shut-In(2)
191	1571.40	111.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSMCW 95%W 5%M	0.57
60.00	VSOMCW 2%O 58%W 40%M	0.84
100.00	VSWGOCM 10%G 10%O 5%W 75%M	1.40
20.00	SGO	0.28
0.00	360ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 west 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34333

DST#: 2

Test Start: 2011.06.05 @ 02:50:30

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 9.18 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 33 deg API
Water Salinity: 100000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSMCW 95%W 5%M	0.568
60.00	VSOMCW 2%O 58%W 40%M	0.842
100.00	VSWGOCM 10%G 10%O 5%W 75%M	1.403
20.00	SGO	0.281
0.00	360ft GIP	0.000

Total Length: 240.00 ft Total Volume: 3.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

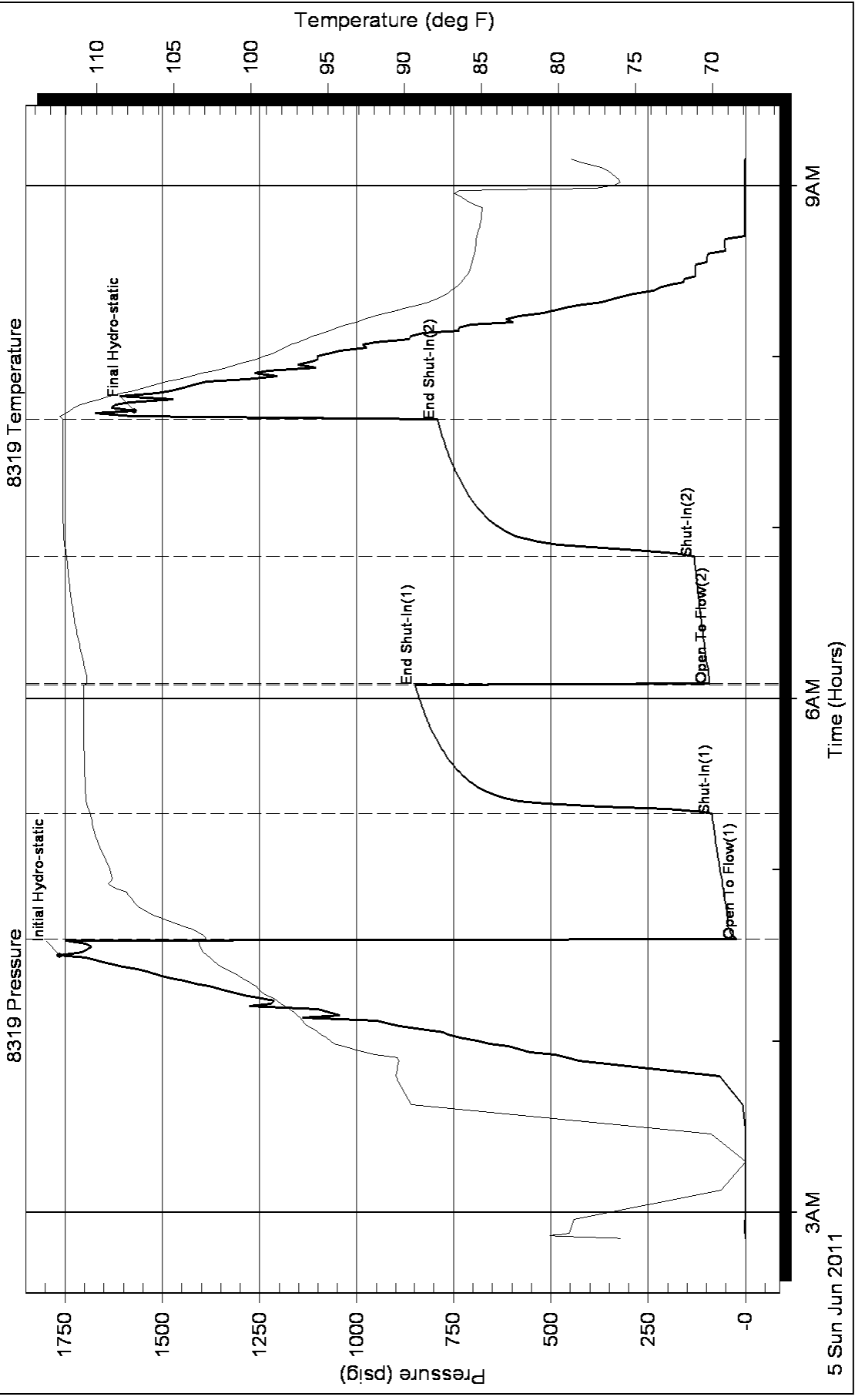
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 w est 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34334

DST#: 3

Test Start: 2011.06.05 @ 14:15:45

GENERAL INFORMATION:

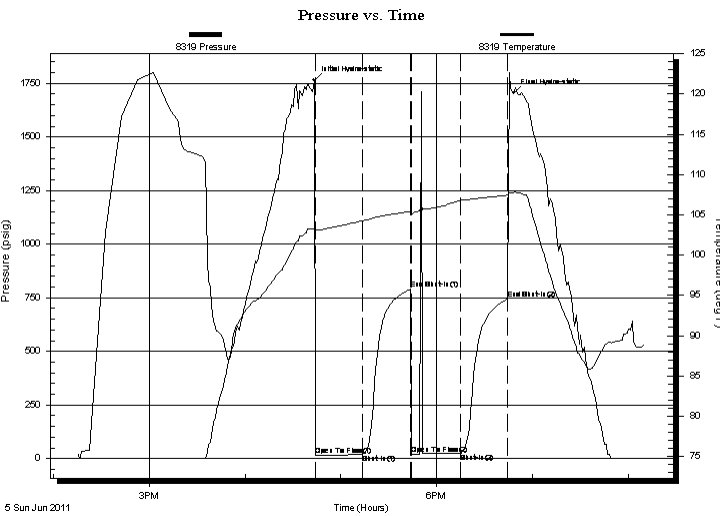
Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:44:15
 Time Test Ended: 20:10:15
 Interval: **3553.00 ft (KB) To 3580.00 ft (KB) (TVD)**
 Total Depth: 3580.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Brett Dickinson
 Unit No: 47
 Reference Elevations: 2071.00 ft (KB)
 2063.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8319

Outside

Press @ Run Depth: 25.19 psig @ 3554.00 ft (KB)
 Start Date: 2011.06.05 End Date: 2011.06.05
 Start Time: 14:15:50 End Time: 20:10:14
 Capacity: 8000.00 psig
 Last Calib.: 2011.06.05
 Time On Btm: 2011.06.05 @ 16:43:15
 Time Off Btm: 2011.06.05 @ 18:48:15

TEST COMMENT: IF-w eak surface blow died in 19min
 IS- No blow
 FF- No blow
 FSI- No blow



PRESSURE SUMMARY

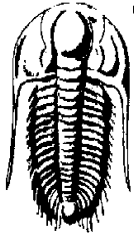
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.95	103.31	Initial Hydro-static
1	14.98	102.99	Open To Flow (1)
31	20.19	104.26	Shut-In(1)
61	789.30	105.43	End Shut-In(1)
61	20.21	105.03	Open To Flow (2)
92	25.19	106.79	Shut-In(2)
121	743.22	107.43	End Shut-In(2)
125	1703.20	107.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oilspotted mud	0.07

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 west 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34334

DST#: 3

Test Start: 2011.06.05 @ 14:15:45

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	oilspotted mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

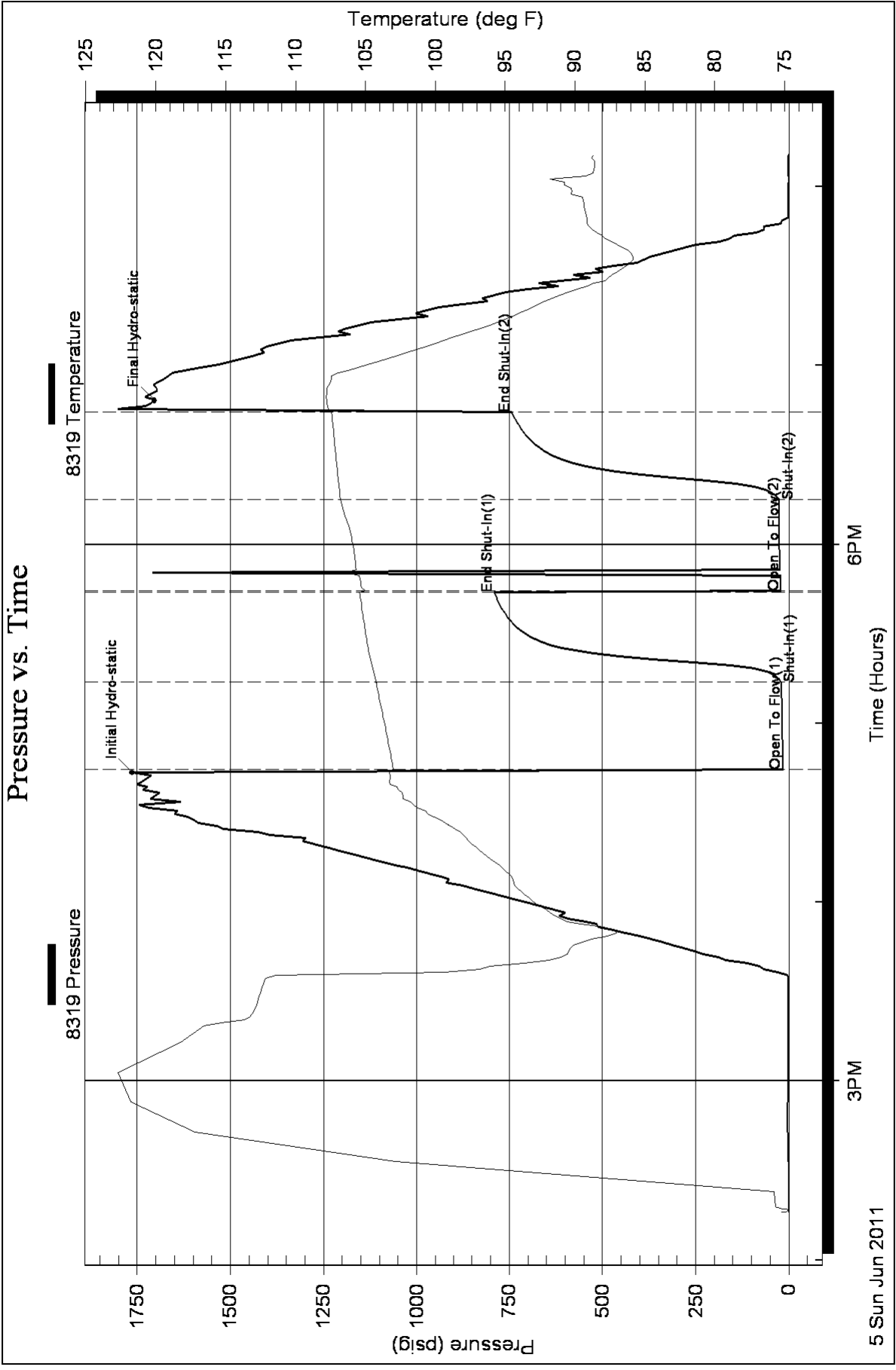
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 w est 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34335

DST#: 4

Test Start: 2011.06.06 @ 16:35:50

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:24:20

Time Test Ended: 21:29:20

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: 3650.00 ft (KB) To 3690.00 ft (KB) (TVD)

Reference Elevations: 2071.00 ft (KB)

Total Depth: 3793.00 ft (KB) (TVD)

2063.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 21.02 psig @ 3651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.06

End Date: 2011.06.06

Last Calib.: 2011.06.06

Start Time: 16:35:55

End Time: 21:29:19

Time On Btm: 2011.06.06 @ 18:23:50

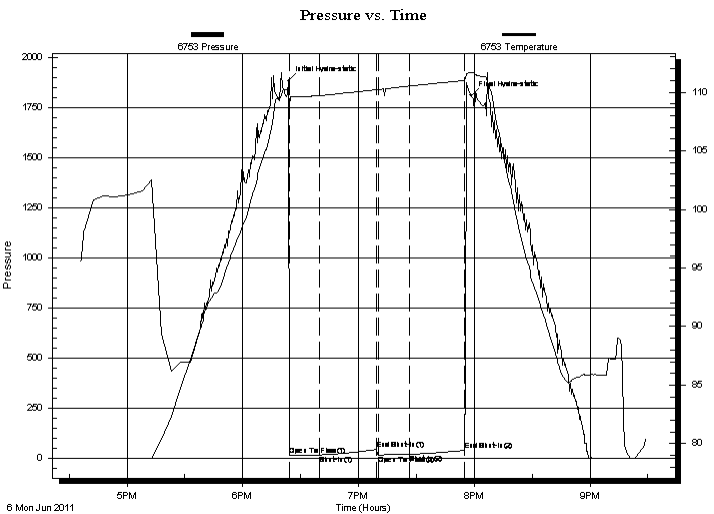
Time Off Btm: 2011.06.06 @ 19:58:20

TEST COMMENT: IF-w eak surface blow died in 11min

ISI-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.75	110.19	Initial Hydro-static
1	16.48	108.81	Open To Flow (1)
16	18.60	109.71	Shut-In(1)
46	45.90	110.23	End Shut-In(1)
47	19.09	110.24	Open To Flow (2)
63	21.02	110.53	Shut-In(2)
91	41.02	110.99	End Shut-In(2)
95	1810.84	111.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oilspotted mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 west 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34335

DST#: 4

Test Start: 2011.06.06 @ 16:35:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Oilspotted mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

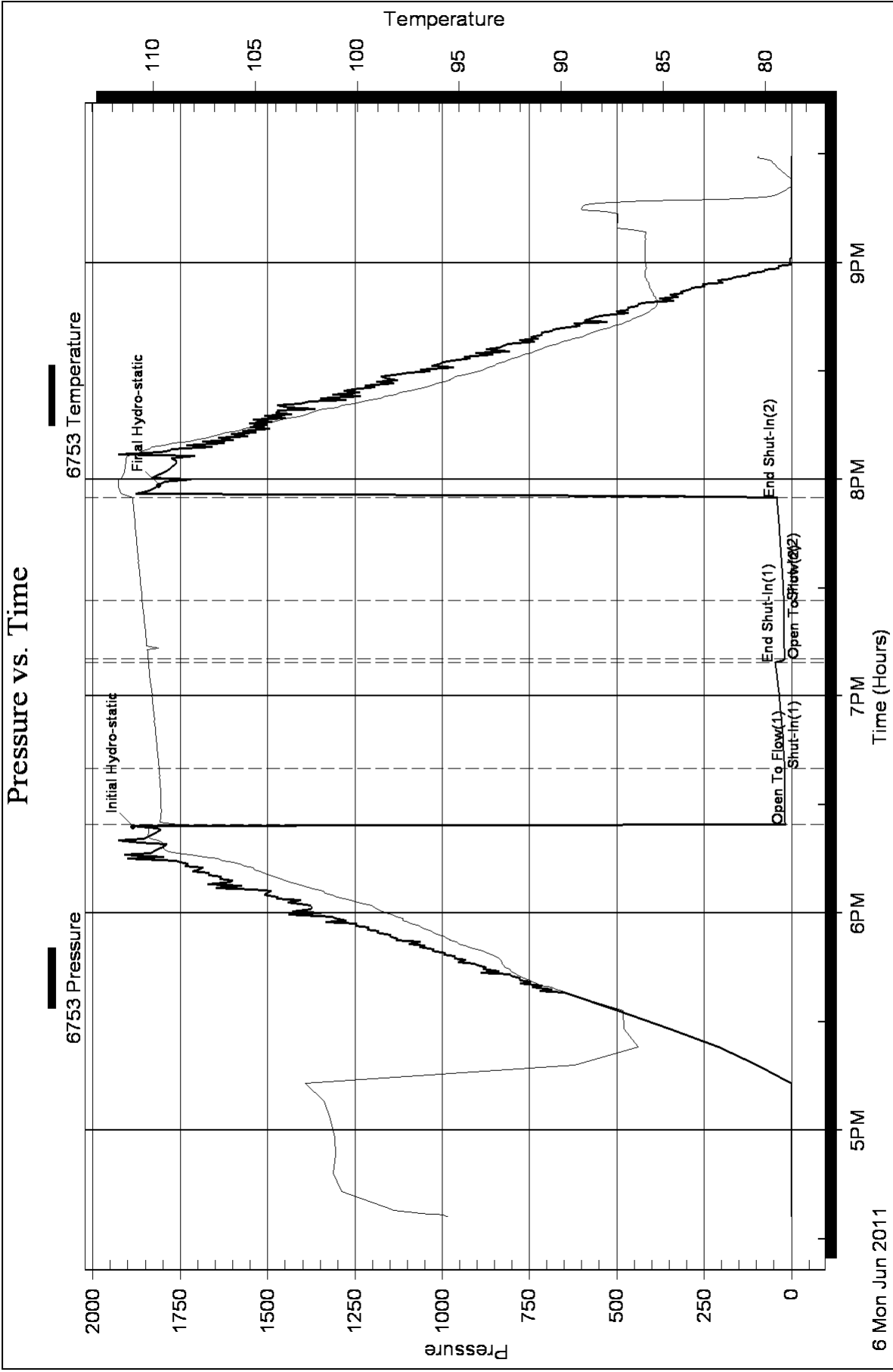
Num Gas Bombs: 0

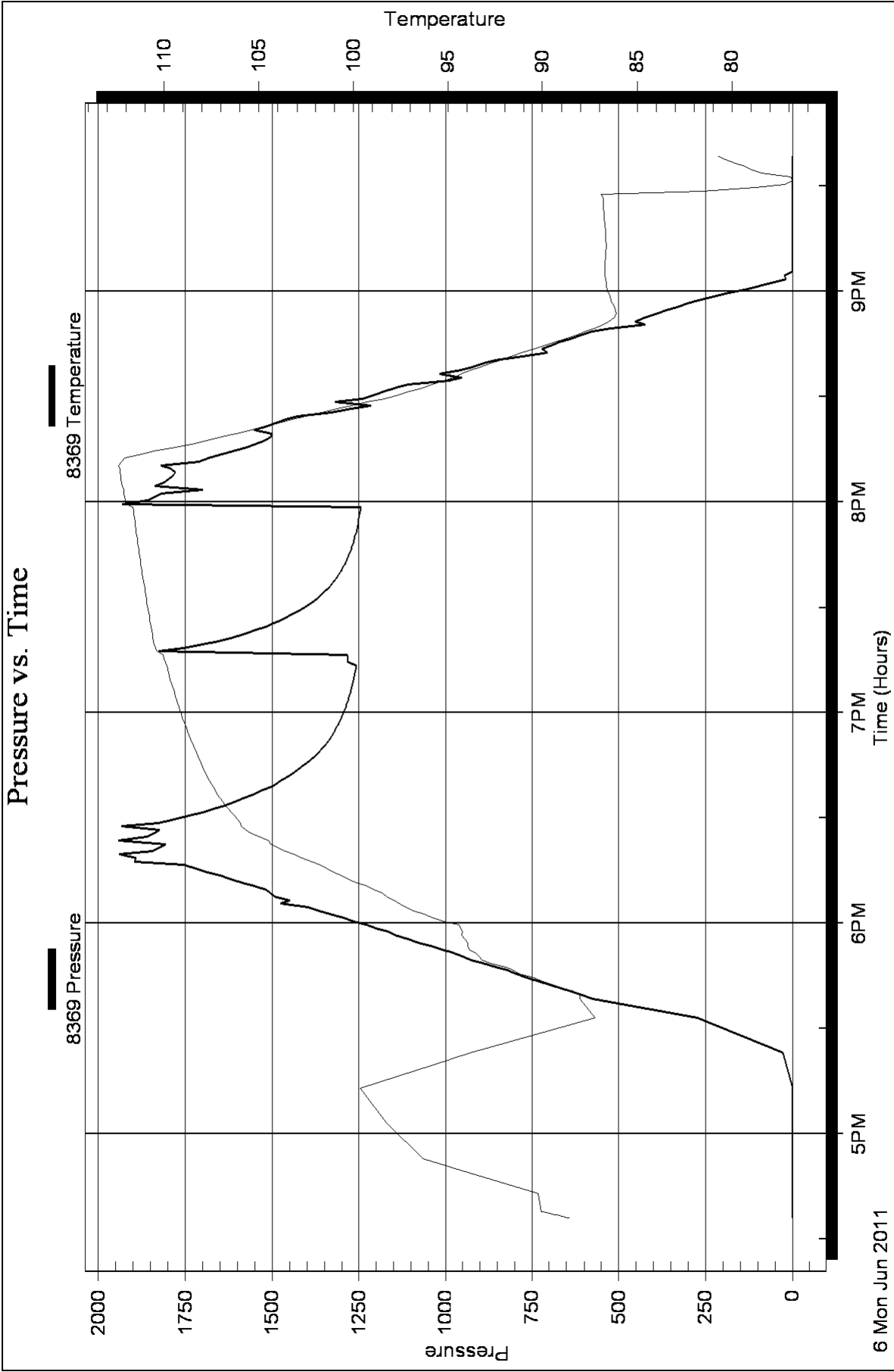
Serial #:

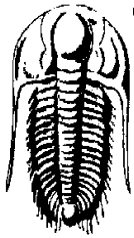
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 w est 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34336

DST#: 5

Test Start: 2011.06.06 @ 22:05:07

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:35:37
 Time Test Ended: 04:45:07
 Interval: **3346.00 ft (KB) To 3406.00 ft (KB) (TVD)**
 Total Depth: 3793.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle
 Tester: Brett Dickinson
 Unit No: 47
 Reference Elevations: 2071.00 ft (KB)
 2063.00 ft (CF)
 KB to GR/CF: 8.00 ft

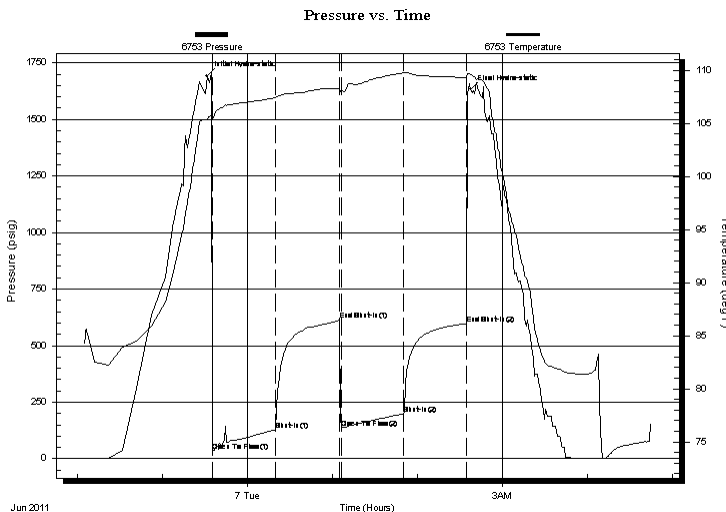
Serial #: 6753

Outside

Press @ Run Depth: 197.11 psig @ 3382.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.06.06 End Date: 2011.06.07 Last Calib.: 2011.06.07
 Start Time: 22:05:12 End Time: 04:45:06 Time On Btm: 2011.06.06 @ 23:31:37
 Time Off Btm: 2011.06.07 @ 02:37:37

TEST COMMENT: IF-7in blow
 IS-1/2in blow
 FF-BOB in 29min
 FS-1 1/4in blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.12	105.39	Initial Hydro-static
4	32.85	105.32	Open To Flow (1)
48	126.73	107.43	Shut-In(1)
94	614.35	108.26	End Shut-In(1)
95	133.38	108.09	Open To Flow (2)
139	197.11	109.74	Shut-In(2)
183	597.50	109.32	End Shut-In(2)
186	1631.96	109.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSMCW 95%W 5%M	1.41
120.00	VSOWCM 2%O 15%W 83%M	1.68
120.00	SOCM 10%O 90%M	1.68
20.00	MCO 5%G 80%O 15%M	0.28
0.00	240ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 west 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34336

DST#: 5

Test Start: 2011.06.06 @ 22:05:07

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	VSMCW 95%W 5%M	1.410
120.00	VSOWCM 2%O 15%W 83%M	1.683
120.00	SOCM 10%O 90%M	1.683
20.00	MCO 5%G 80%O 15%M	0.281
0.00	240ft GIP	0.000

Total Length: 380.00 ft

Total Volume: 5.057 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

