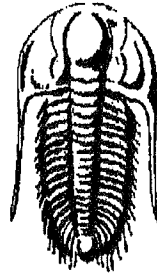


15-065-23575

27-9s-24w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing - Nelson Oil Co., Inc.**

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

27 9s 24w Graham KS

Herman Trust #1-27

Start Date: 2009.09.25 @ 02:15:00

End Date: 2009.09.25 @ 08:58:00

Job Ticket #: 35842 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION
DEC 21 2009
CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Downing - Nelson Oil Co., Inc.

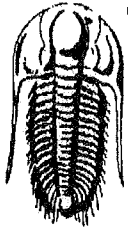
Herman Trust #1-27

27 9s 24w Graham KS

DST # 1

LKC "C - D"

2009.09.25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

ATTN: Marc Downing

Job Ticket: 35842

DST#: 1

Test Start: 2009.09.25 @ 02:15:00

GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:53:00

Time Test Ended: 08:58:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: **3880.00 ft (KB) To 3920.00 ft (KB) (TVD)**

Total Depth: 3920.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2525.00 ft (KB)

2517.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 276.82 psig @ 3881.00 ft (KB)

Start Date: 2009.09.25 End Date: 2009.09.25

Start Time: 02:15:05 End Time: 08:57:59

Capacity: 8000.00 psig

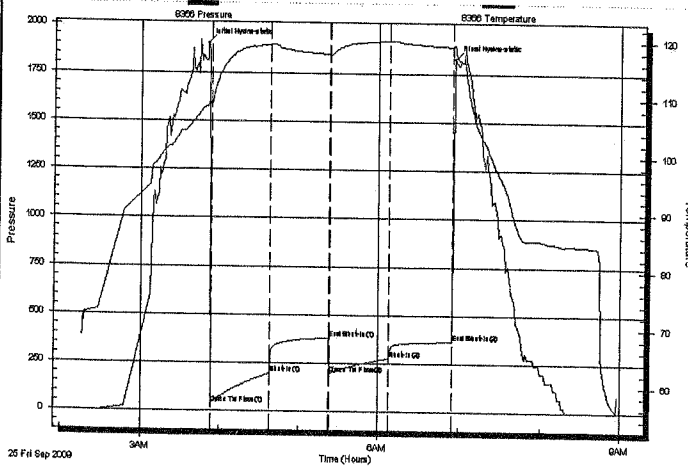
Last Calib.: 2009.09.25

Time On Btm: 2009.09.25 @ 03:50:30

Time Off Btm: 2009.09.25 @ 06:56:29

TEST COMMENT: IF: Blow built to BOB in 9 min.
IS: Bled off, Blow back built to 1/2" in 30 min.
FF: Blow built to BOB in 20 min.
FSI: Bled off, Blow back built to 1 1/2" in 20 min.

Pressure vs. Time



PRESSURE SUMMARY

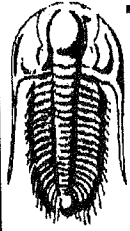
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.75	108.55	Initial Hydro-static
3	38.02	108.62	Open To Flow (1)
48	196.24	119.32	Shut-In (1)
93	380.36	117.71	End Shut-In (1)
93	198.34	117.60	Open To Flow (2)
138	276.82	119.99	Shut-In (2)
185	364.86	119.05	End Shut-In (2)
186	1827.30	119.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW 90%w, 10%m, trace oil	0.59
62.00	SGO/WCM 70%m, 20%w, 8%g, 2%o	0.87
255.00	SMCW 93%w, 7%m, trace oil	3.58
160.00	GOMCW 51%w, 35%m, 5%o, 9%g	2.24
36.00	CO 93%o, 5%m, 2%g	0.50
0.00	GIP = 110'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35842

DST#: 1

ATTN: Marc Downing

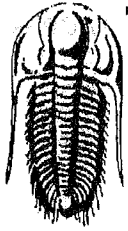
Test Start: 2009.09.25 @ 02:15:00

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 53.94 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3880.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3865.00	
HYD S.I. Tool	5.00			3870.00	
Packer	5.00			3875.00	20.00 Bottom Of Top Packer
Packer	5.00			3880.00	
Stubb	1.00			3881.00	
Recorder	0.00	8366	Inside	3881.00	
Recorder	0.00	8320	Inside	3881.00	
Perforations	36.00			3917.00	
Bullnose	3.00			3920.00	40.00 Bottom Packers & Anchor
Total Tool Length:	60.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35842

DST#: 1

ATTN: Marc Downing

Test Start: 2009.09.25 @ 02:15:00

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:

84000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCW 90%w, 10%m, trace oil	0.587
62.00	SGO/WCM 70%m, 20%w, 8%g, 2%o	0.870
255.00	SMCW 93%w, 7%m, trace oil	3.577
160.00	GOMCW 51%w, 35%m, 5%o, 9%g	2.244
36.00	CO 93%o, 5%m, 2%g	0.505
0.00	GIP = 110'	0.000

Total Length: 575.00 ft

Total Volume: 7.783 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 37.0 api @ 60 deg F

RW = .113 ohms @ 57.6 deg F

DST Test Number: 1

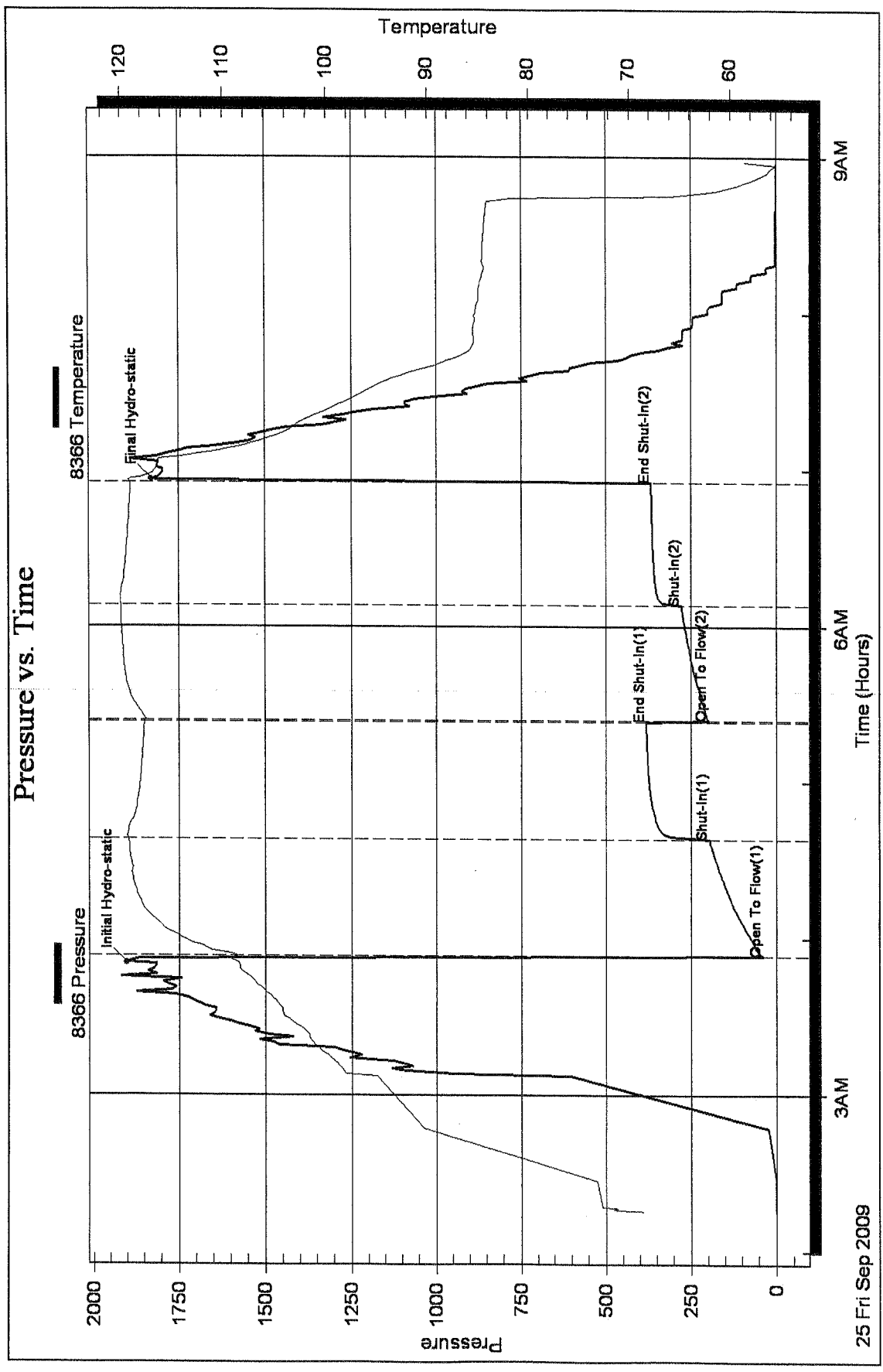
27 9s 24w Graham KS

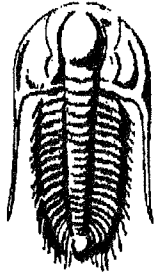
Downing - Nelson Oil Co., Inc.

Inside

Serial #: 8366

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing - Nelson Oil Co., Inc.**

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

27 9s 24w Graham KS

Herman Trust #1-27

Start Date: 2009.09.25 @ 16:27:00

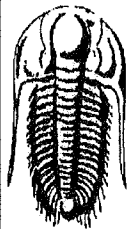
End Date: 2009.09.25 @ 21:58:00

Job Ticket #: 35843 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

ATTN: Marc Downing

Job Ticket: 35843

DST#: 2

Test Start: 2009.09.25 @ 16:27:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:33:00

Time Test Ended: 21:58:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: **3925.00 ft (KB) To 3944.00 ft (KB) (TVD)**

Total Depth: 3944.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2525.00 ft (KB)

2517.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8366 Inside

Press@RunDepth: 210.59 psig @ 3926.00 ft (KB)

Start Date: 2009.09.25

End Date: 2009.09.25

Start Time: 16:27:05

End Time: 21:57:59

Capacity: 8000.00 psig

Last Calib.: 2009.09.25

Time On Btm: 2009.09.25 @ 17:31:30

Time Off Btm: 2009.09.25 @ 20:34:30

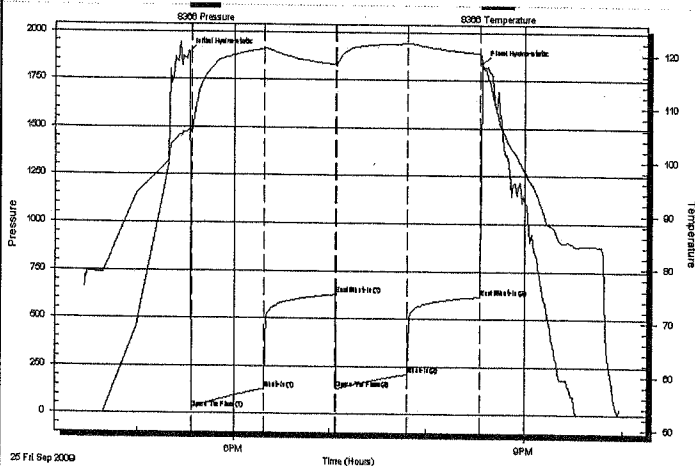
TEST COMMENT: IF: Blow built to BOB in 17 min.

IS: Bled off, No blow back

FF: Blow built to BOB in 26 min.

FSI: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

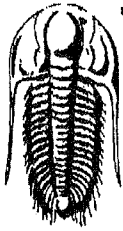
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.27	105.72	Initial Hydro-static
2	22.81	105.24	Open To Flow (1)
47	130.27	120.88	Shut-In(1)
92	624.74	118.07	End Shut-In(1)
93	131.06	117.81	Open To Flow(2)
137	210.59	122.01	Shut-In(2)
182	616.69	120.25	End Shut-In(2)
183	1837.64	118.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	Water 95%w, 5% m	5.02
42.00	MCW 70%w, 30% m	0.59
0.00	RW = .122 ohms @ 52 deg F	0.00
0.00	Chlorides = 90,000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35843

DST#: 2

ATTN: Marc Downing

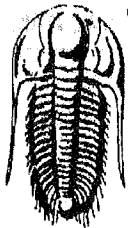
Test Start: 2009.09.25 @ 16:27:00

Tool Information

Drill Pipe:	Length: 3897.00 ft	Diameter: 3.80 inches	Volume: 54.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 54.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3925.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3910.00	
HYD S.I. Tool	5.00			3915.00	
Packer	5.00			3920.00	20.00 Bottom Of Top Packer
Packer	5.00			3925.00	
Stubb	1.00			3926.00	
Recorder	0.00	8366	Inside	3926.00	
Recorder	0.00	8320	Inside	3926.00	
Perforations	15.00			3941.00	
Bullnose	3.00			3944.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35843

DST#: 2

ATTN: Marc Downing

Test Start: 2009.09.25 @ 16:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.95 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 90000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
378.00	Water 95%w, 5%m	5.020
42.00	MCW 70%w, 30%m	0.589
0.00	RW = .122 ohms @ 52 deg F	0.000
0.00	Chlorides = 90,000 ppm	0.000

Total Length: 420.00 ft

Total Volume: 5.609 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

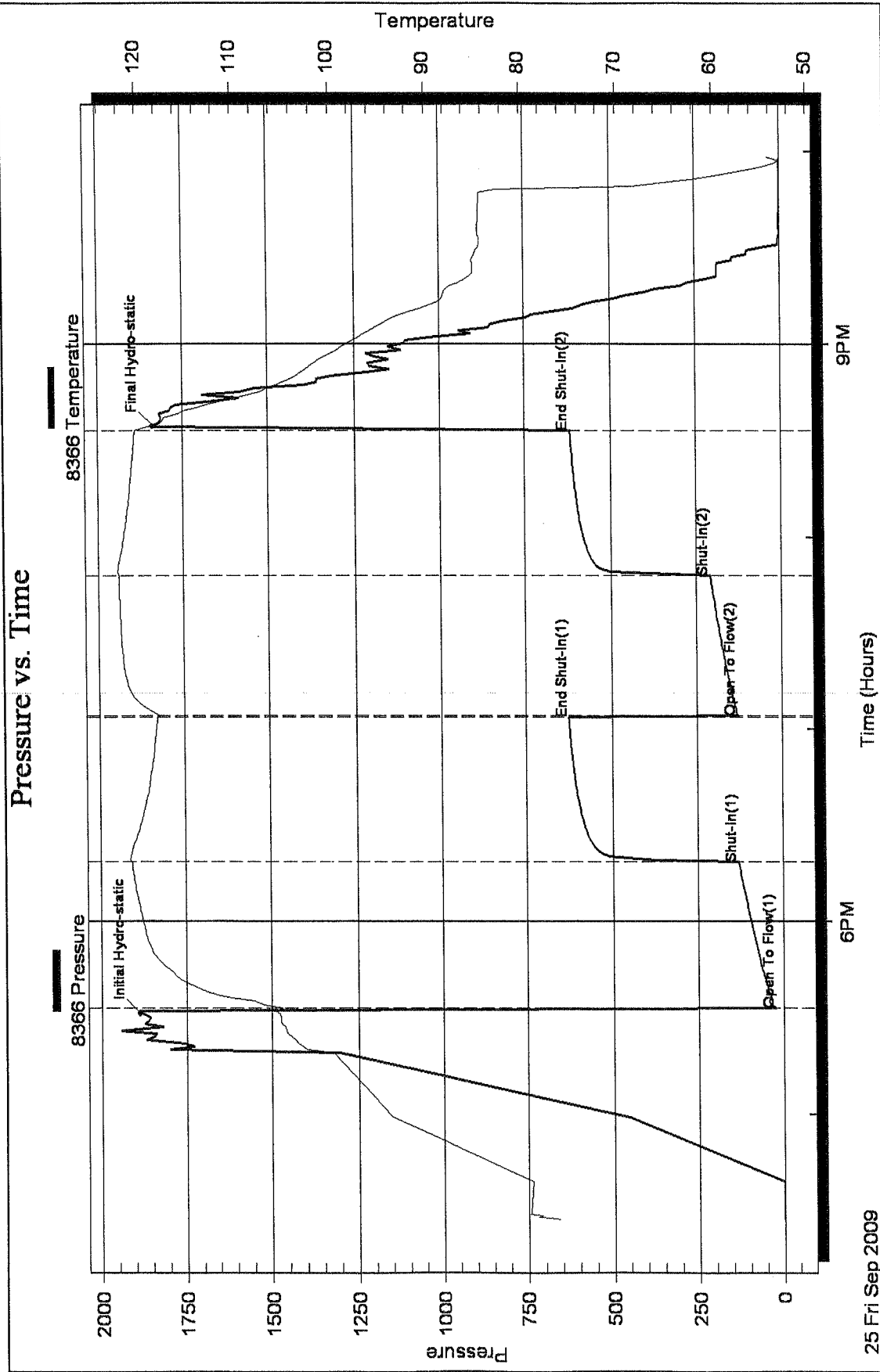
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

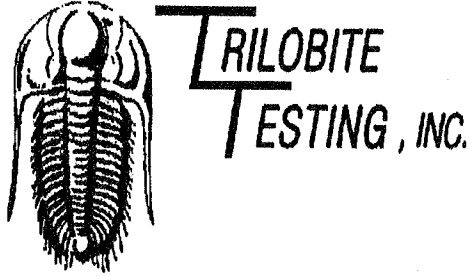
Pressure vs. Time



25 Fri Sep 2009

9PM

6PM



DRILL STEM TEST REPORT

Prepared For: **Downing - Nelson Oil Co., Inc.**

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

27 9s 24w Graham KS

Herman Trust #1-27

Start Date: 2009.09.26 @ 08:55:00

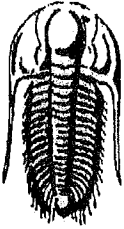
End Date: 2009.09.26 @ 14:59:30

Job Ticket #: 35844 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35844

DST#: 3

ATTN: Marc Downing

Test Start: 2009.09.26 @ 08:55:00

GENERAL INFORMATION:

Formation: **LKC "H - I"**

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

Time Tool Opened: 10:17:00

Time Test Ended: 14:59:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Interval: **3976.00 ft (KB) To 4030.00 ft (KB) (TVD)**

Total Depth: **4030.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2525.00 ft (KB)**

2517.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8366 Inside

Press@RunDepth: **66.25 psig @ 3977.00 ft (KB)**

Start Date: **2009.09.26**

End Date:

2009.09.26

Capacity: **8000.00 psig**

Start Time: **08:55:05**

End Time:

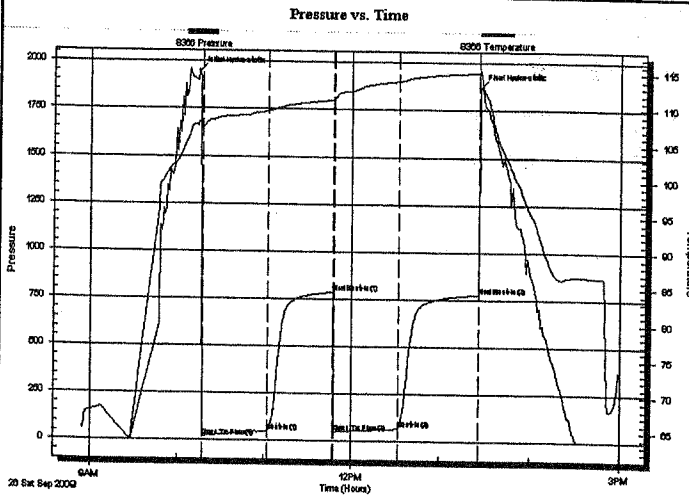
14:59:29

Last Calib.: **2009.09.26**

Time On Btm: **2009.09.26 @ 10:15:00**

Time Off Btm: **2009.09.26 @ 13:25:59**

TEST COMMENT: IF: Blow built to BOB in 41 min.
IS: Bled off, No blow back
FF: Blow built to BOB in 38 min.
FS: Bled off, No blow back



PRESSURE SUMMARY

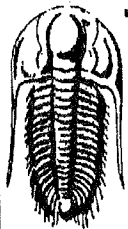
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.73	108.01	Initial Hydro-static
2	17.76	107.34	Open To Flow (1)
47	48.66	109.56	Shut-In(1)
92	786.27	111.19	End Shut-In(1)
93	47.21	111.35	Open To Flow (2)
137	66.25	113.82	Shut-In(2)
191	777.36	115.06	End Shut-In(2)
191	1869.17	115.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOWCM 59% <i>m</i> , 21% <i>w</i> , 13% <i>g</i> , 7% <i>o</i>	0.60
60.00	SW/ GOCM 60% <i>m</i> , 20% <i>g</i> , 17% <i>o</i> , 3% <i>w</i>	0.84
0.00	GIP = 190'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35844

DST#: 3

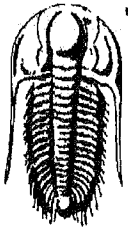
ATTN: Marc Downing

Test Start: 2009.09.26 @ 08:55:00

Tool Information

Drill Pipe:	Length: 3957.00 ft	Diameter: 3.80 inches	Volume: 55.51 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 55.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3976.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3961.00	
HYD S.I. Tool	5.00			3966.00	
Packer	5.00			3971.00	20.00 Bottom Of Top Packer
Packer	5.00			3976.00	
Stubb	1.00			3977.00	
Recorder	0.00	8366	Inside	3977.00	
Recorder	0.00	8320	Inside	3977.00	
Perforations	15.00			3992.00	
Blank Spacing	32.00			4024.00	
Perforations	3.00			4027.00	
Bullnose	3.00			4030.00	54.00 Bottom Packers & Anchor
Total Tool Length:		74.00			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35844

DST#: 3

ATTN: Marc Downing

Test Start: 2009.09.26 @ 08:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 8.77 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GOWCM 59% <i>m</i> , 21% <i>w</i> , 13% <i>g</i> , 7% <i>o</i>	0.601
60.00	SW/ GOCM 60% <i>m</i> , 20% <i>g</i> , 17% <i>o</i> , 3% <i>w</i>	0.842
0.00	GIP = 190'	0.000

Total Length: 123.00 ft

Total Volume: 1.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

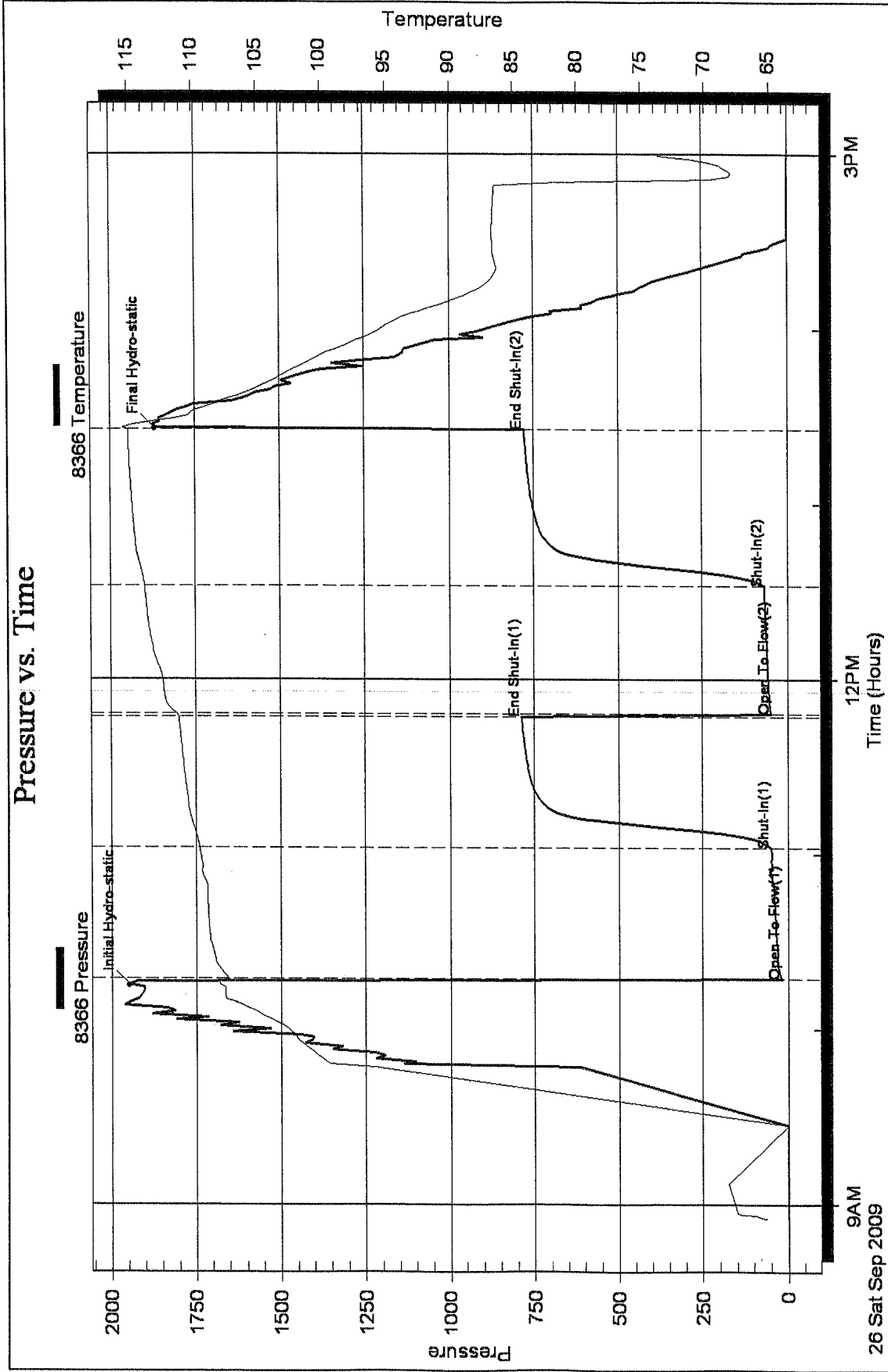
Serial #:

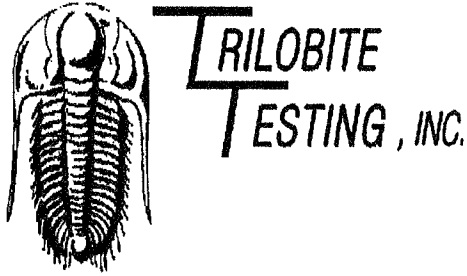
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Downing - Nelson Oil Co., Inc.**

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

27 9s 24w Graham KS

Herman Trust #1-27

Start Date: 2009.09.27 @ 08:15:00

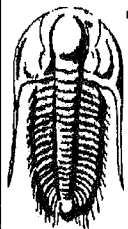
End Date: 2009.09.27 @ 14:50:00

Job Ticket #: 35845 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

ATTN: Marc Downing

Job Ticket: 35845

DST#: 4

Test Start: 2009.09.27 @ 08:15:00

GENERAL INFORMATION:

Formation: **LKC "I - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:44:00

Time Test Ended: 14:50:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: **4008.00 ft (KB) To 4064.00 ft (KB) (TVD)**

Total Depth: 4064.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2525.00 ft (KB)

2517.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8366 Inside

Press@RunDepth: 58.23 psig @ 4009.00 ft (KB)

Start Date: 2009.09.27

End Date: 2009.09.27

Start Time: 08:15:05

End Time: 14:49:59

Capacity: 8000.00 psig

Last Calib.: 2009.09.27

Time On Btm: 2009.09.27 @ 09:42:00

Time Off Btm: 2009.09.27 @ 12:46:59

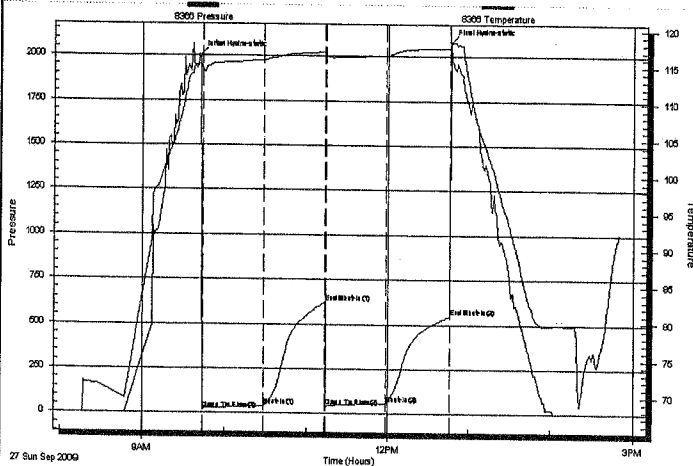
TEST COMMENT: IF: Blow built to BOB in 21 min.

IS: Bled off, No blow back

FF: Blow built to BOB in 12 1/2 min.

FSI: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

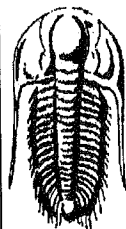
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.07	115.26	Initial Hydro-static
2	20.84	114.58	Open To Flow (1)
47	42.02	115.82	Shut-In(1)
92	623.38	116.91	End Shut-In(1)
93	39.73	116.54	Open To Flow (2)
137	58.23	116.42	Shut-In(2)
184	547.18	117.50	End Shut-In(2)
185	2077.31	118.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMCO 41%g, 39%o, 20%m	0.60
45.00	GOM 36%o, 36%m, 28%g	0.63
15.00	CO 97%o, 2%g, 1%m	0.21
0.00	Gravity = 36 api @ 92 deg F	0.00
0.00	Corrected Gravity = 32.8 api	0.00
0.00	GIP = 450'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

Job Ticket: 35845

DST#: 4

ATTN: Marc Downing

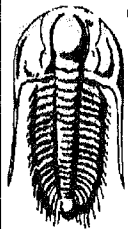
Test Start: 2009.09.27 @ 08:15:00

Tool Information

Drill Pipe:	Length: 3990.00 ft	Diameter: 3.80 inches	Volume: 55.97 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 56.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4008.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	4064.00 ft			
Interval between Packers:	56.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3993.00	
HYD S.I. Tool	5.00			3998.00	
Packer	5.00			4003.00	20.00 Bottom Of Top Packer
Packer	5.00			4008.00	
Stubb	1.00			4009.00	
Recorder	0.00	8366	Inside	4009.00	
Perforations	15.00			4024.00	
Blank Spacing	33.00			4057.00	
Perforations	2.00			4059.00	
Recorder	0.00	7457	Inside	4059.00	
Blank Off Sub	1.00			4060.00	
Blank Spacing	4.00			4064.00	56.00 Tool Interval
Packer	0.00			4064.00	
Stubb	1.00			4065.00	
Recorder	0.00	8320	Inside	4065.00	
Perforations	4.00			4069.00	
Blank Spacing	64.00			4133.00	
Bullnose	3.00			4136.00	72.00 Bottom Packers & Anchor
Total Tool Length:	148.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing - Nelson Oil Co., Inc.

Herman Trust #1-27

PO Box 372
Hays, KS 67601

27 9s 24w Graham KS

ATTN: Marc Downing

Job Ticket: 35845

DST#: 4

Test Start: 2009.09.27 @ 08:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GMCO 41%g, 39%o, 20%m	0.601
45.00	GOM 36%o, 36%m, 28%g	0.631
15.00	CO 97%o, 2%g, 1%m	0.210
0.00	Gravity = 36 api @ 92 deg F	0.000
0.00	Corrected Gravity = 32.8 api	0.000
0.00	GIP = 450'	0.000

Total Length: 123.00 ft

Total Volume: 1.442 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

Inside

Downing - Nelson Oil Co., Inc.

27 9s 24w Graham KS

DST Test Number: 4

