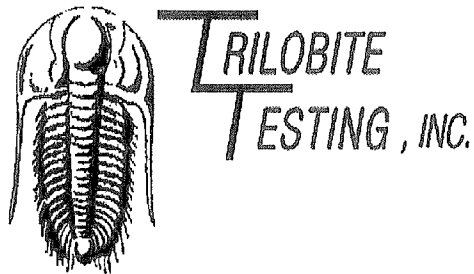


15-145-21604

17-20s-20w

IND



DRILL STEM TEST REPORT

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

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

17-20s-20wPawnee KS

Saxton-Miller Unit #1-17

Start Date: 2010.06.09 @ 01:48:33

End Date: 2010.06.09 @ 09:04:03

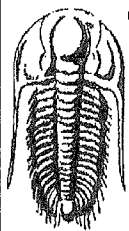
Job Ticket #: 38642 DST #: 1

RECEIVED

JUL 2 0 2010

KCC WICHITA

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.

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

Saxton-Miller Unit #1-17

17-20s-20wPawnee KS

Job Ticket: 38642

DST#: 1

Test Start: 2010.06.09 @ 01:48:33

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:03

Time Test Ended: 09:04:03

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4277.00 ft (KB) To 4333.00 ft (KB) (TVD)**

Reference Elevations: 2201.00 ft (KB)

Total Depth: 4333.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

2193.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 69.78 psig @ 4315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.06.09

End Date:

2010.06.09

Last Calib.:

2010.06.09

Start Time: 01:48:35

End Time:

09:04:03

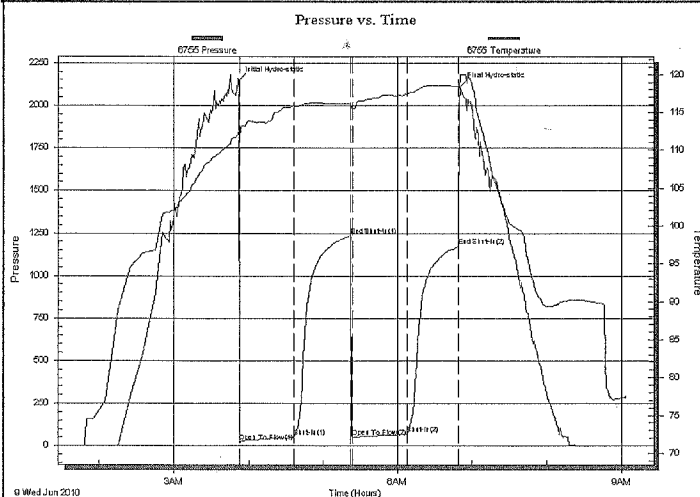
Time On Btm:

2010.06.09 @ 03:51:33

Time Off Btm:

2010.06.09 @ 06:50:33

TEST COMMENT: IFP-Fair Blow ,Built to 6"
ISI-Dead
FFP-Fair Blow ,Built 7-1/2"
FSI-Dead



PRESSURE SUMMARY

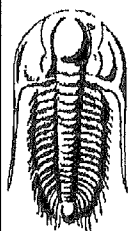
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.39	112.45	Initial Hydro-static
1	22.35	111.55	Open To Flow (1)
45	50.37	115.84	Shut-In(1)
91	1234.88	116.16	End Shut-In(1)
92	50.19	115.52	Open To Flow (2)
136	69.78	117.49	Shut-In(2)
178	1172.53	118.44	End Shut-In(2)
179	2112.77	119.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCO-55%O-45%M	1.47
0.00	60' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co., Inc.

Saxton-Miller Unit #1-17

PO Box 372
Hays, KS 67601

17-20s-20wPawnee KS

Job Ticket: 38642

DST#: 1

ATTN: Marc Dow ning

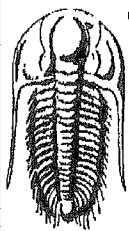
Test Start: 2010.06.09 @ 01:48:33

Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 58000.00 lb
		Total Volume: 59.44 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4277.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4250.00	
Shut In Tool	5.00			4255.00	
Hydraulic tool	5.00			4260.00	
Jars	5.00			4265.00	
Safety Joint	2.00			4267.00	
Packer	5.00			4272.00	28.00 Bottom Of Top Packer
Packer	5.00			4277.00	
Stubb	1.00			4278.00	
Perforations	3.00			4281.00	
Change Over Sub	1.00			4282.00	
Blank Spacing	32.00			4314.00	
Change Over Sub	1.00			4315.00	
Recorder	0.00	6755	Inside	4315.00	
Recorder	0.00	8360	Outside	4315.00	
Perforations	15.00			4330.00	
Bullnose	3.00			4333.00	56.00 Bottom Packers & Anchor
Total Tool Length:	84.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Saxton-Miller Unit #1-17

PO Box 372
Hays, KS 67601

17-20s-20wPawnee KS

Job Ticket: 38642

DST#: 1

ATTN: Marc Downing

Test Start: 2010.06.09 @ 01:48:33

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MCO-55%O-45%M	1.471
0.00	60' Gas In Pipe	0.000

Total Length: 125.00 ft

Total Volume: 1.471 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

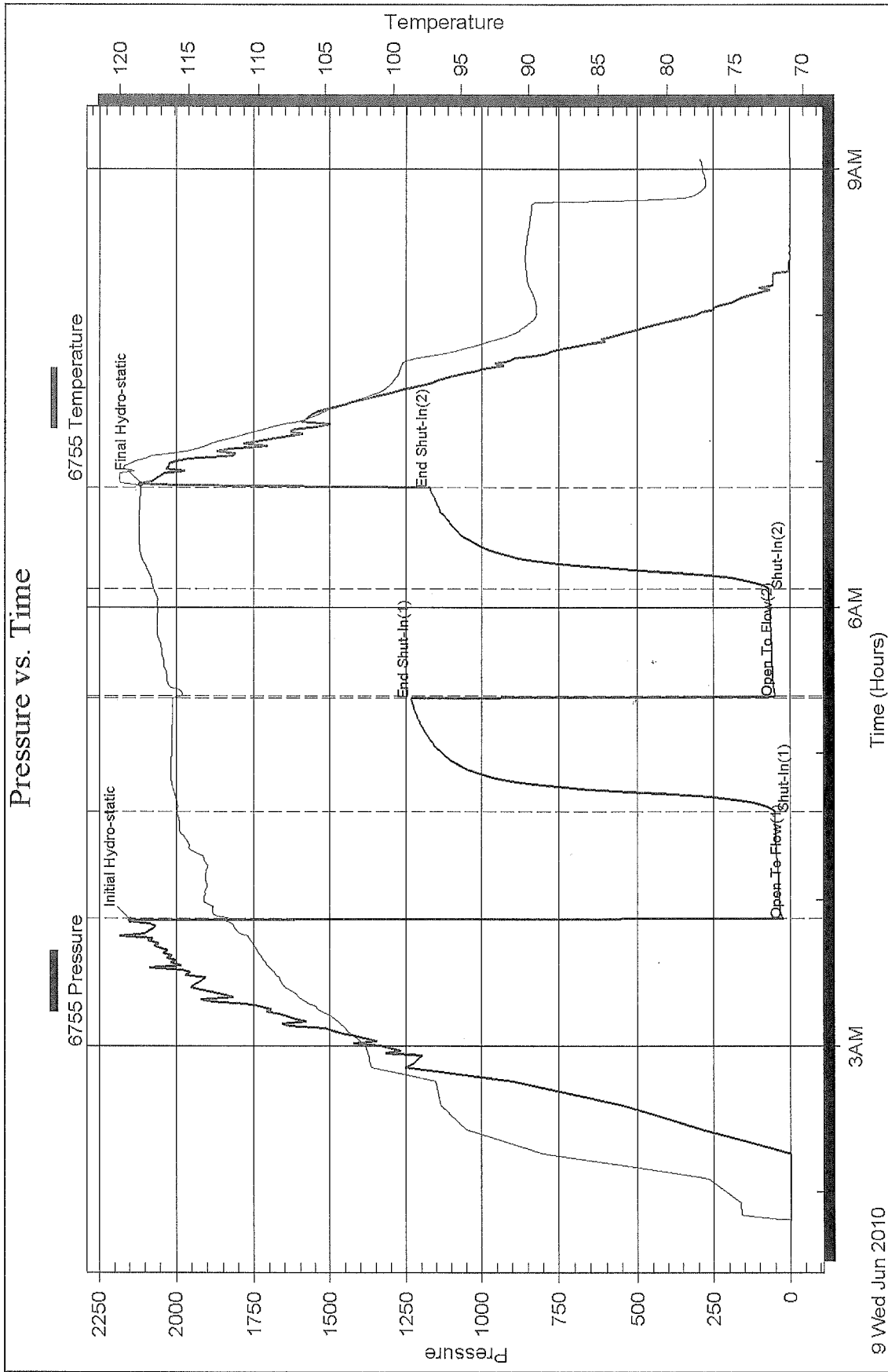
Serial #:

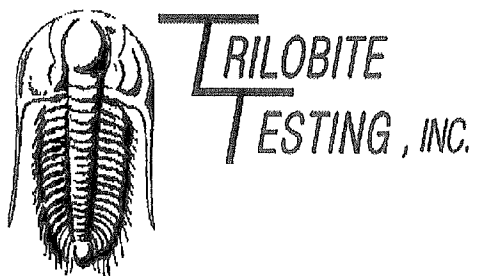
Laboratory Name:

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

17-20s-20wPawnee KS

Saxton-Miller Unit #1-17

Start Date: 2010.06.10 @ 04:15:14

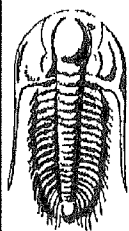
End Date: 2010.06.10 @ 11:39:44

Job Ticket #: 38643 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

Dow ning Nelson Oil Co., Inc.

PO Box 372
Hays, KS 67601

ATTN: Marc Dow ning

Saxton-Miller Unit #1-17

17-20s-20wPawnee KS

Job Ticket: 38643

DST#: 2

Test Start: 2010.06.10 @ 04:15:14

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:25:44

Time Test Ended: 11:39:44

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4277.00 ft (KB) To 4338.00 ft (KB) (TVD)**

Total Depth: 4338.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2201.00 ft (KB)

2193.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 106.47 psig @ 4315.00 ft (KB)

Start Date: 2010.06.10 End Date: 2010.06.10

Start Time: 04:15:16 End Time: 11:39:44

Capacity: 8000.00 psig

Last Calib.: 2010.06.10

Time On Btm: 2010.06.10 @ 06:24:44

Time Off Btm: 2010.06.10 @ 09:32:14

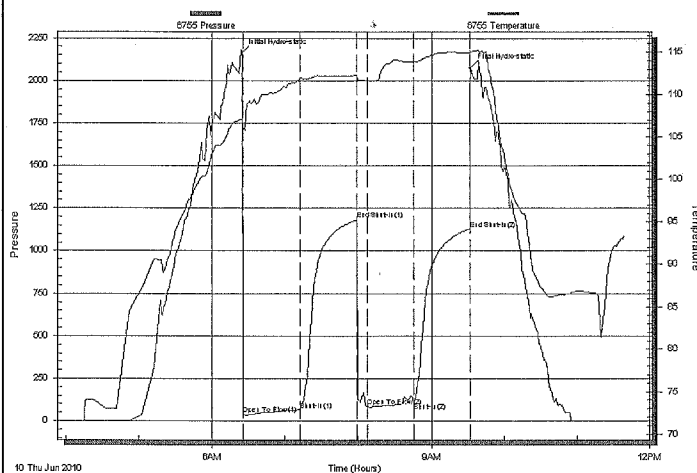
TEST COMMENT: IFP-Good Blow ,BOB in 43 Min.

ISI-Dead

FFP-Good Blow ,BOB in 36 Min.

FSI-1/4" Blow back

Pressure vs. Time



PRESSURE SUMMARY

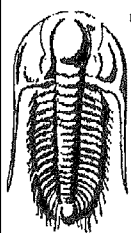
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.39	107.21	Initial Hydro-static
1	41.68	106.31	Open To Flow (1)
48	66.28	111.91	Shut-In(1)
94	1183.18	112.25	End Shut-In(1)
103	84.81	111.63	Open To Flow (2)
141	106.47	113.92	Shut-In(2)
187	1129.29	114.94	End Shut-In(2)
188	2075.01	115.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free Oil	0.05
185.00	GMCO-10%G-55%O-35%M	2.40
0.00	60' Gas In Pipe	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc.

Saxton-Miller Unit #1-17

PO Box 372
Hays, KS 67601

17-20s-20wPawnee KS

Job Ticket: 38643

DST#: 2

ATTN: Marc Downing

Test Start: 2010.06.10 @ 04:15:14

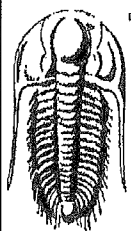
Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 60000.00 lb
			<u>Total Volume: 59.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4277.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4250.00	
Shut In Tool	5.00			4255.00	
Hydraulic tool	5.00			4260.00	
Jars	5.00			4265.00	
Safety Joint	2.00			4267.00	
Packer	5.00			4272.00	28.00 Bottom Of Top Packer
Packer	5.00			4277.00	
Stubb	1.00			4278.00	
Perforations	3.00			4281.00	
Change Over Sub	1.00			4282.00	
Blank Spacing	32.00			4314.00	
Change Over Sub	1.00			4315.00	
Recorder	0.00	6755	Inside	4315.00	
Recorder	0.00	8360	Outside	4315.00	
Perforations	20.00			4335.00	
Bullnose	3.00			4338.00	61.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Saxton-Miller Unit #1-17

PO Box 372
Hays, KS 67601

17-20s-20wPawnee KS

Job Ticket: 38643

DST#: 2

ATTN: Marc Downing

Test Start: 2010.06.10 @ 04:15:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Free Oil	0.049
185.00	GMCO-10%G-55%O-35%M	2.404
0.00	60' Gas In Pipe	0.000

Total Length: 195.00 ft

Total Volume: 2.453 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

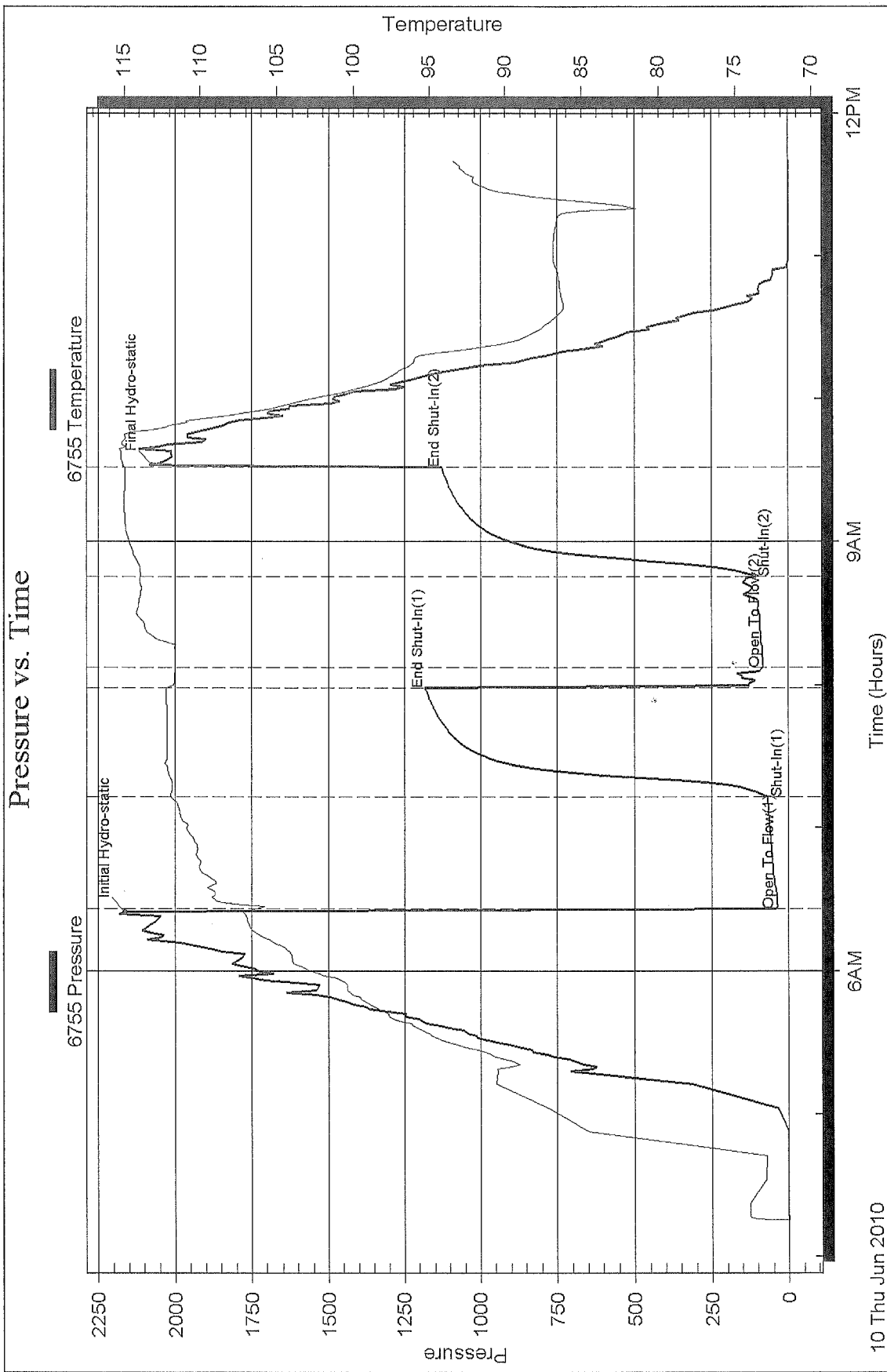
Serial #:

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

17-20s-20wPawnee KS

Saxton-Miller Unit #1-17

Start Date: 2010.06.10 @ 18:57:37

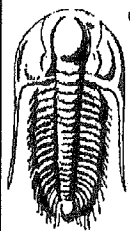
End Date: 2010.06.11 @ 02:43:07

Job Ticket #: 38644 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.

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

Saxton-Miller Unit #1-17

17-20s-20wPawnee KS

Job Ticket: 38644

DST#: 3

Test Start: 2010.06.10 @ 18:57:37

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:22:07

Time Test Ended: 02:43:07

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4335.00 ft (KB) To 4343.00 ft (KB) (TVD)**

Total Depth: 4343.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2201.00 ft (KB)

2193.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 43.24 psig @ 4340.00 ft (KB)

Start Date: 2010.06.10 End Date: 2010.06.11

Start Time: 18:57:39 End Time: 02:43:07

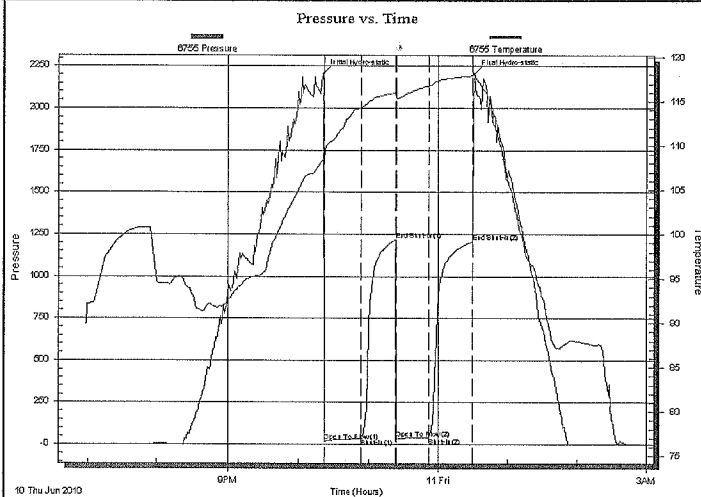
Capacity: 8000.00 psig

Last Calib.: 2010.06.10

Time On Btm: 2010.06.10 @ 22:21:37

Time Off Btm: 2010.06.11 @ 00:31:07

TEST COMMENT: IFP-Weak Blow ,Built to 3"
ISI-Dead
FFP-Weak Blow ,Built to 3-1/2"
FSI-Dead



PRESSURE SUMMARY

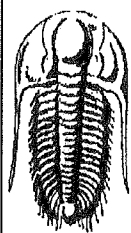
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.13	108.55	Initial Hydro-static
1	18.23	108.21	Open To Flow (1)
32	34.09	114.27	Shut-In(1)
62	1217.33	115.96	End Shut-In(1)
63	35.95	115.39	Open To Flow (2)
90	43.24	116.78	Shut-In(2)
128	1206.76	117.91	End Shut-In(2)
130	2203.91	118.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCWM-10%O-10%VW-80%M	0.49
20.00	Free Oil	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc.

Saxton-Miller Unit #1-17

PO Box 372
Hays, KS 67601

17-20s-20wPawnee KS

Job Ticket: 38644

DST#: 3

ATTN: Marc Downing

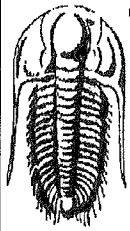
Test Start: 2010.06.10 @ 18:57:37

Tool Information

Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 58000.00 lb
			<u>Total Volume: 60.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4335.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4308.00	
Shut In Tool	5.00			4313.00	
Hydraulic tool	5.00			4318.00	
Jars	5.00			4323.00	
Safety Joint	2.00			4325.00	
Packer	5.00			4330.00	28.00 Bottom Of Top Packer
Packer	5.00			4335.00	
Stubb	1.00			4336.00	
Perforations	4.00			4340.00	
Recorder	0.00	6755	Inside	4340.00	
Recorder	0.00	8360	Outside	4340.00	
Bullnose	3.00			4343.00	8.00 Bottom Packers & Anchor

Total Tool Length: 36.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Saxton-Miller Unit #1-17

PO Box 372
Hays, KS 67601

17-20s-20wPawnee KS

Job Ticket: 38644

DST#: 3

ATTN: Marc Downing

Test Start: 2010.06.10 @ 18:57:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCWM-10%O-10%W-80%M	0.489
20.00	Free Oil	0.281

Total Length: 75.00 ft

Total Volume: 0.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

