



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Al Downing

**23-9s-24w Graham,KS**

**Nickelson Farms 'C' #1-23**

Start Date: 2012.01.30 @ 13:37:38

End Date: 2012.01.30 @ 18:42:08

Job Ticket #: 46416                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.03 @ 13:03:16

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

23-9s-24w Graham,KS

DST # 1

LKC "C-D"

2012.01.30



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

ATTN: Al Downing

Job Ticket: 46416

**DST#: 1**

Test Start: 2012.01.30 @ 13:37:38

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:24:38

Time Test Ended: 18:42:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

**Interval: 3791.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Reference Elevations: 2438.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 20.23 psig @ 3794.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.30

End Date:

2012.01.30

Last Calib.:

2012.01.30

Start Time: 13:37:39

End Time:

18:42:08

Time On Btm:

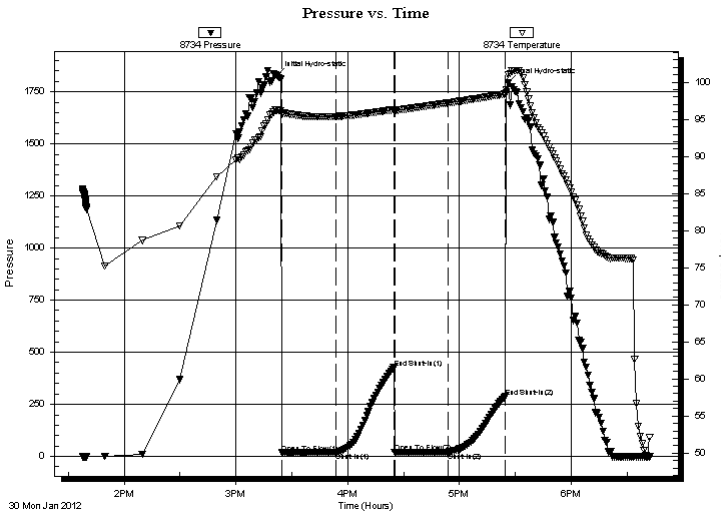
2012.01.30 @ 15:22:08

Time Off Btm:

2012.01.30 @ 17:26:08

**TEST COMMENT:** IFP - 1/4" blow throughout  
ISI - no blow back  
FFP - no blow  
FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.69	96.23	Initial Hydro-static
3	16.68	95.71	Open To Flow (1)
32	18.87	95.38	Shut-In(1)
63	426.07	96.31	End Shut-In(1)
63	19.18	96.21	Open To Flow (2)
92	20.23	97.20	Shut-In(2)
123	286.75	98.42	End Shut-In(2)
124	1791.92	101.01	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 3%O, 97%M	0.02

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

ATTN: Al Downing

Job Ticket: 46416

**DST#: 1**

Test Start: 2012.01.30 @ 13:37:38

## Tool Information

Drill Pipe:	Length: 3737.00 ft	Diameter: 3.80 inches	Volume: 52.42 bbl	Tool Weight: 2500.00 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: 60000.00 lb
			<u>Total Volume: 52.57 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3791.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 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
Shut In Tool	5.00			3769.00	
Hydraulic tool	5.00			3774.00	
Jars	5.00			3779.00	
Safety Joint	2.00			3781.00	
Packer	5.00			3786.00	27.00 Bottom Of Top Packer
Packer	5.00			3791.00	
Stubb	1.00			3792.00	
Perforations	1.00			3793.00	
Change Over Sub	1.00			3794.00	
Recorder	0.00	6669	Inside	3794.00	
Recorder	0.00	8734	Outside	3794.00	
Blank Spacing	31.00			3825.00	
Change Over Sub	1.00			3826.00	
Perforations	1.00			3827.00	
Bullnose	3.00			3830.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

Job Ticket: 46416 **DST#: 1**

ATTN: Al Downing

Test Start: 2012.01.30 @ 13:37:38

**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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM3%O, 97%M	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:

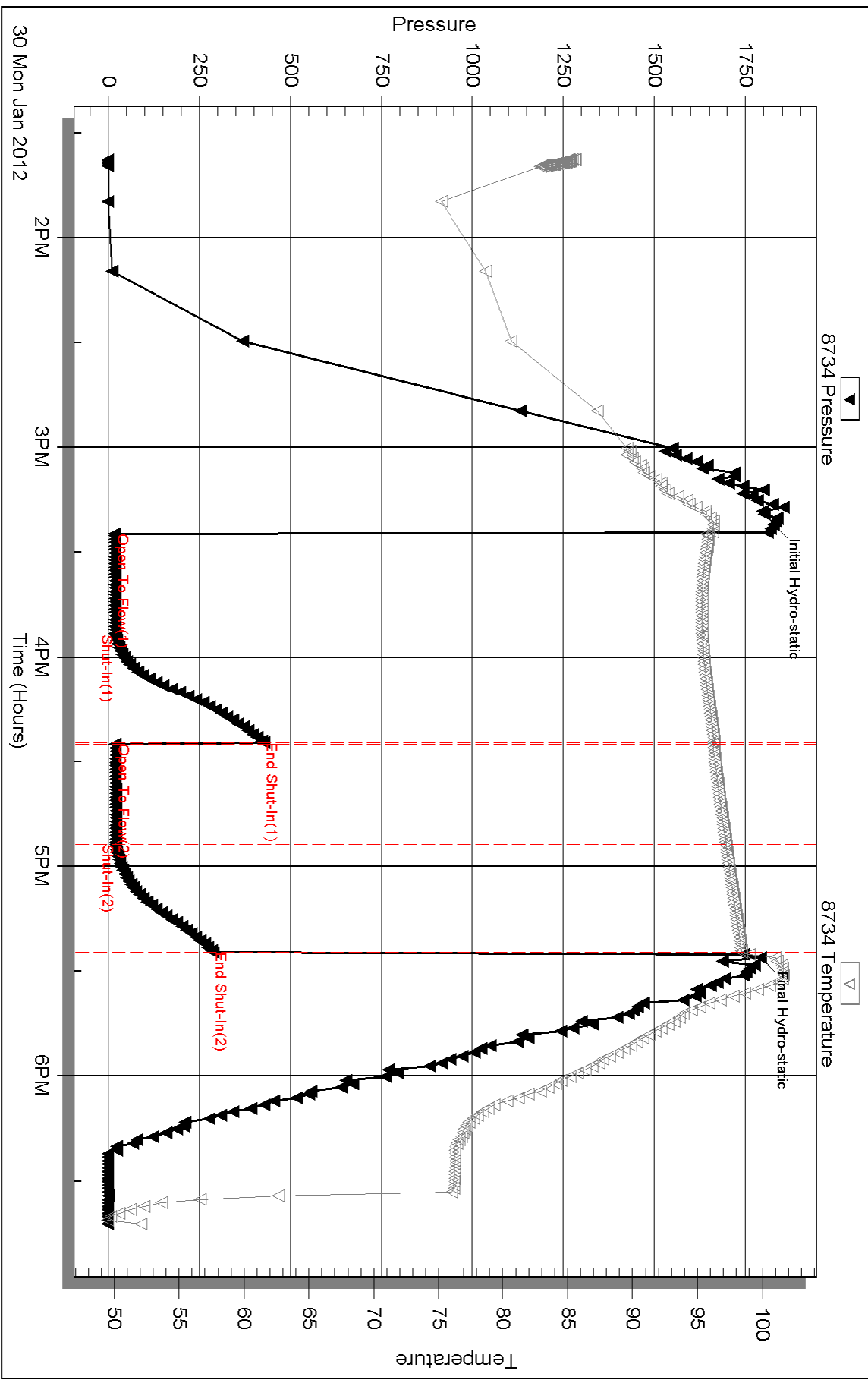
Serial #: 8734

Outside Downing Nelson Oil Co Inc

23-95-24w Graham,KS

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46416

Printed: 2012.02.03 @ 13:03:18

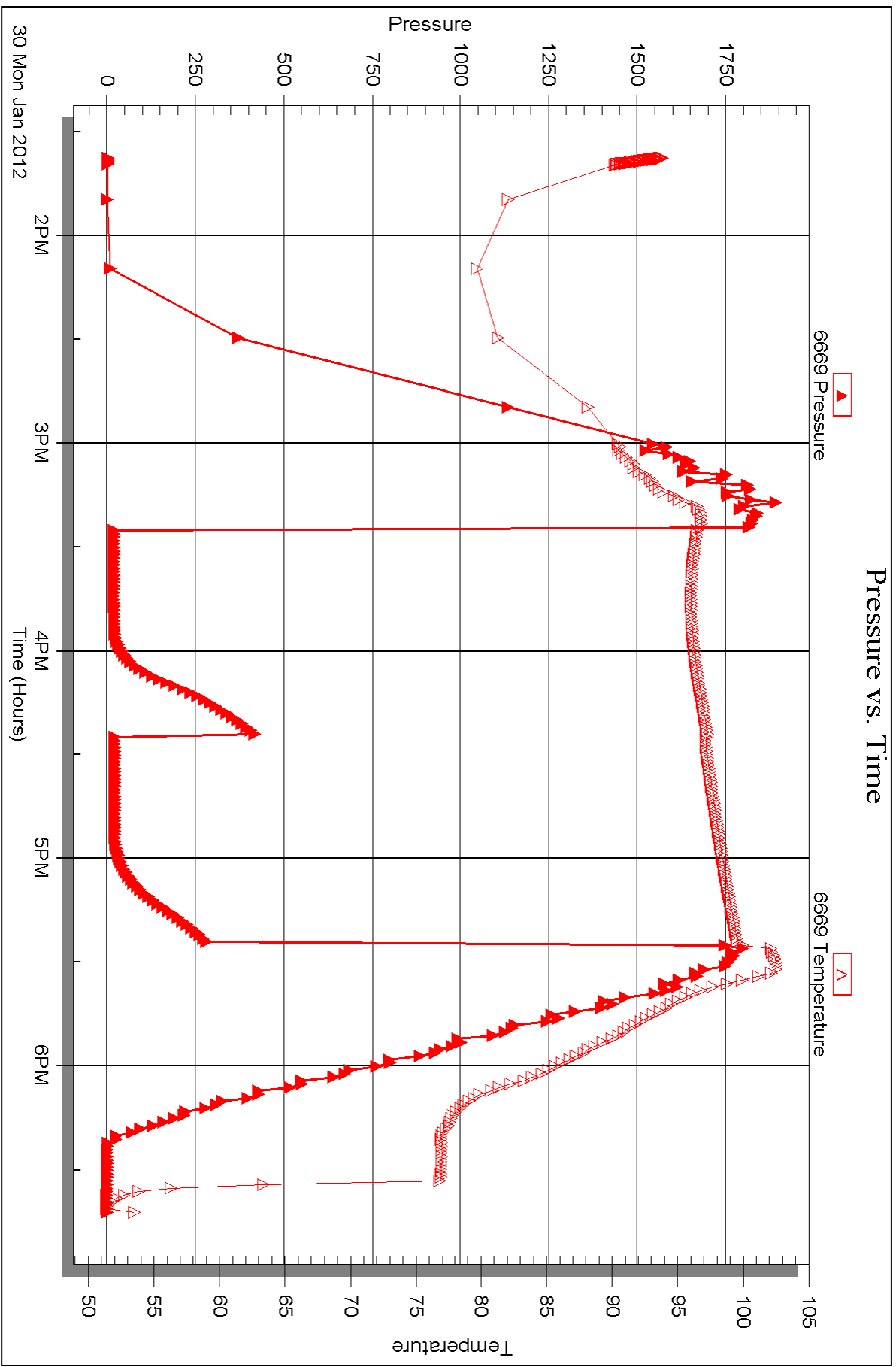
Serial #: 6669

Inside

Downing Nelson Oil Co Inc

23-9s-24w Graham,KS

DST Test Number: 1





## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Al Downing

**23-9s-24w Graham,KS**

**Nickelson Farms 'C' #1-23**

Start Date: 2012.01.31 @ 06:34:00

End Date: 2012.01.31 @ 13:35:30

Job Ticket #: 46276                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.03 @ 13:01:49

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

23-9s-24w Graham,KS

DST # 2

KC "H&I"

2012.01.31





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

PO Box 1019  
Hays, KS 67601

ATTN: Al Downing

**Nickelson Farms 'C' #1-23**

**23-9s-24w Graham,KS**

Job Ticket: 46276

**DST#: 2**

Test Start: 2012.01.31 @ 06:34:00

## GENERAL INFORMATION:

Formation: **KC "H&I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:30

Time Test Ended: 13:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 41

**Interval: 3880.00 ft (KB) To 3933.00 ft (KB) (TVD)**

Reference Elevations: 2438.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 216.20 psig @ 3883.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.:

2012.01.31

Start Time: 06:34:01

End Time:

13:35:30

Time On Btm:

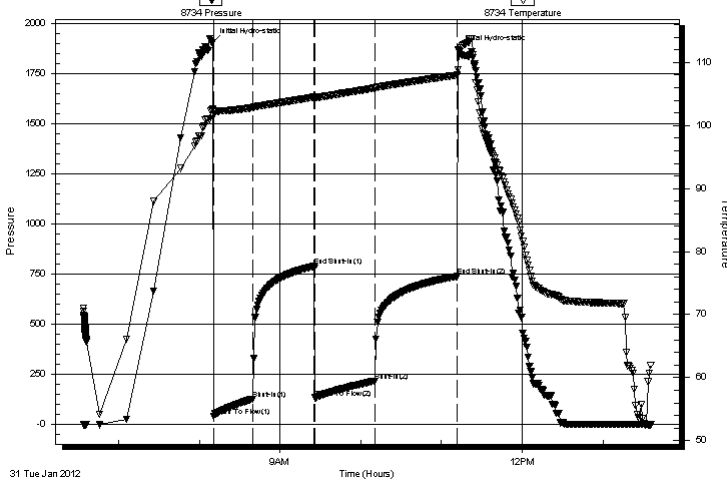
2012.01.31 @ 08:10:00

Time Off Btm:

2012.01.31 @ 11:12:30

**TEST COMMENT:** 30 - IF- B.O.B. in 13 Min.  
45 - IS- Weak surface blow, died in 10 Min.  
45 - FF- B.O.B. in 21 Min.  
60 - FS- No blow back.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.21	102.58	Initial Hydro-static
1	41.25	101.61	Open To Flow (1)
30	126.02	102.82	Shut-In(1)
75	788.27	104.50	End Shut-In(1)
76	131.40	104.39	Open To Flow (2)
121	216.20	105.94	Shut-In(2)
182	738.39	108.00	End Shut-In(2)
183	1869.68	108.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MV, Oil scum, 40%M, 60%W	1.46
310.00	MV, Oil scum, 5%M, 95%W	4.35

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham, KS**

Job Ticket: 46276

**DST#: 2**

ATTN: Al Downing

Test Start: 2012.01.31 @ 06:34:00

## GENERAL INFORMATION:

Formation: **KC "H&I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:30

Time Test Ended: 13:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 41

**Interval: 3880.00 ft (KB) To 3933.00 ft (KB) (TVD)**

Total Depth: 3880.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2438.00 ft (KB)

2431.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 6669 Inside**

Press @ Run Depth: psig @ 3883.00 ft (KB)

Start Date: 2012.01.31

End Date: 2012.01.31

Start Time: 06:34:01

End Time: 13:35:30

Capacity: 8000.00 psig

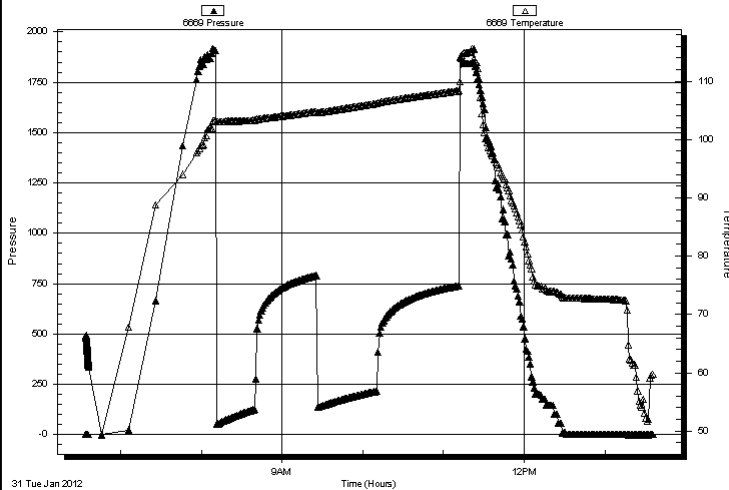
Last Calib.: 2012.01.31

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF- B.O.B. in 13 Min.  
45 - IS- Weak surface blow, died in 10 Min.  
45 - FF- B.O.B. in 21 Min.  
60 - FS- No blow back.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MV, Oil scum, 40%M, 60%W	1.46
310.00	MV, Oil scum, 5%M, 95%W	4.35

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

Job Ticket: 46276

**DST#: 2**

ATTN: Al Downing

Test Start: 2012.01.31 @ 06:34:00

## Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 bbl	Tool Weight: 2500.00 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: 60000.00 lb
			<u>Total Volume: 53.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3880.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 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			3853.00	
Shut In Tool	5.00			3858.00	
Hydraulic tool	5.00			3863.00	
Jars	5.00			3868.00	
Safety Joint	2.00			3870.00	
Packer	5.00			3875.00	28.00 Bottom Of Top Packer
Packer	5.00			3880.00	
Stubb	1.00			3881.00	
Perforations	1.00			3882.00	
Change Over Sub	1.00			3883.00	
Recorder	0.00	6669	Inside	3883.00	
Recorder	0.00	8734	Outside	3883.00	
Blank Spacing	31.00			3914.00	
Change Over Sub	1.00			3915.00	
Perforations	15.00			3930.00	
Bullnose	3.00			3933.00	53.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>81.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

Job Ticket: 46276 **DST#: 2**

ATTN: Al Downing

Test Start: 2012.01.31 @ 06:34:00

## 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:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

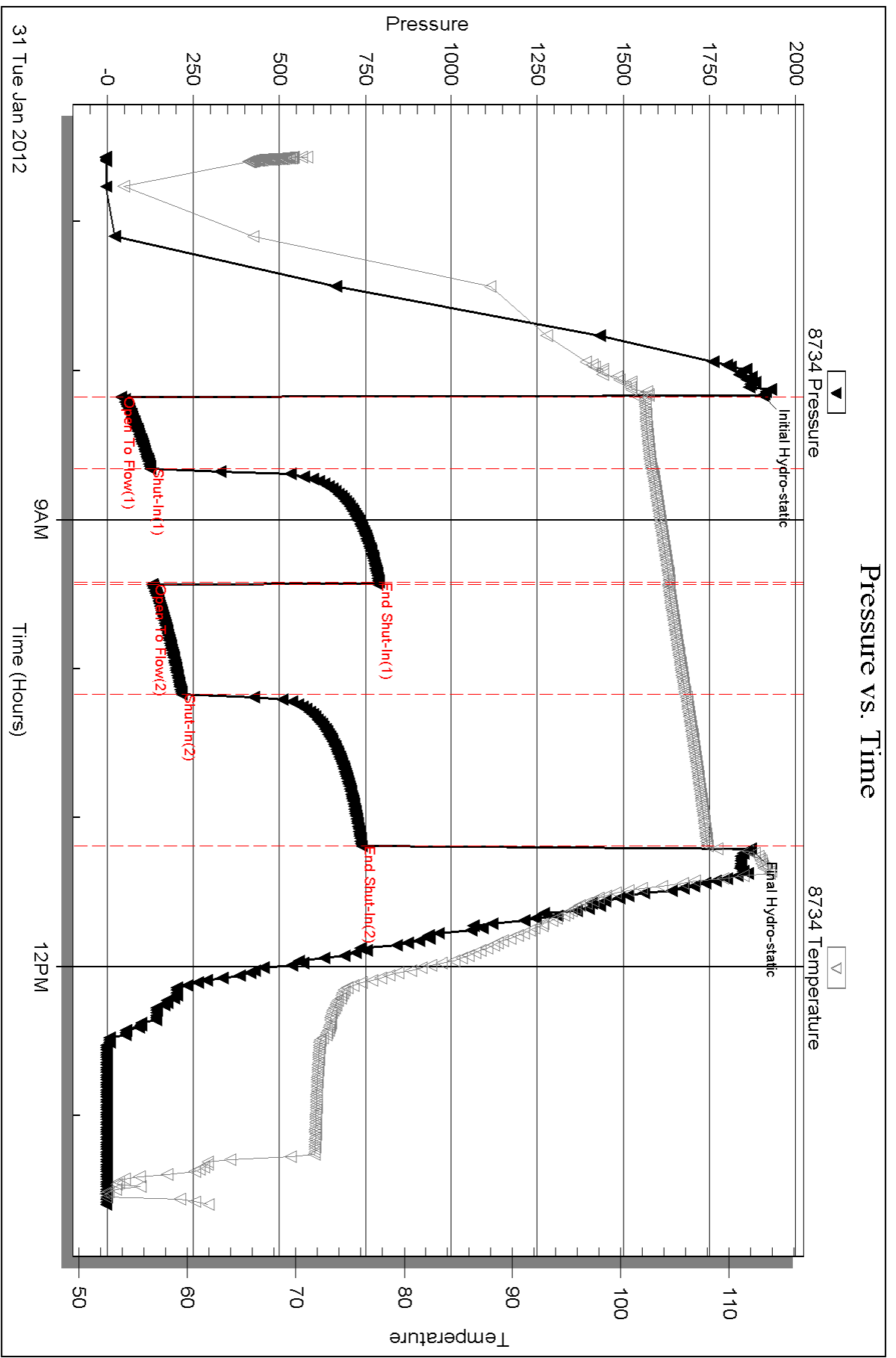
Length ft	Description	Volume bbl
124.00	MW, Oil scum, 40%M, 60%W	1.457
310.00	MW, Oil scum, 5%M, 95%W	4.348

Total Length: 434.00 ft      Total Volume: 5.805 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



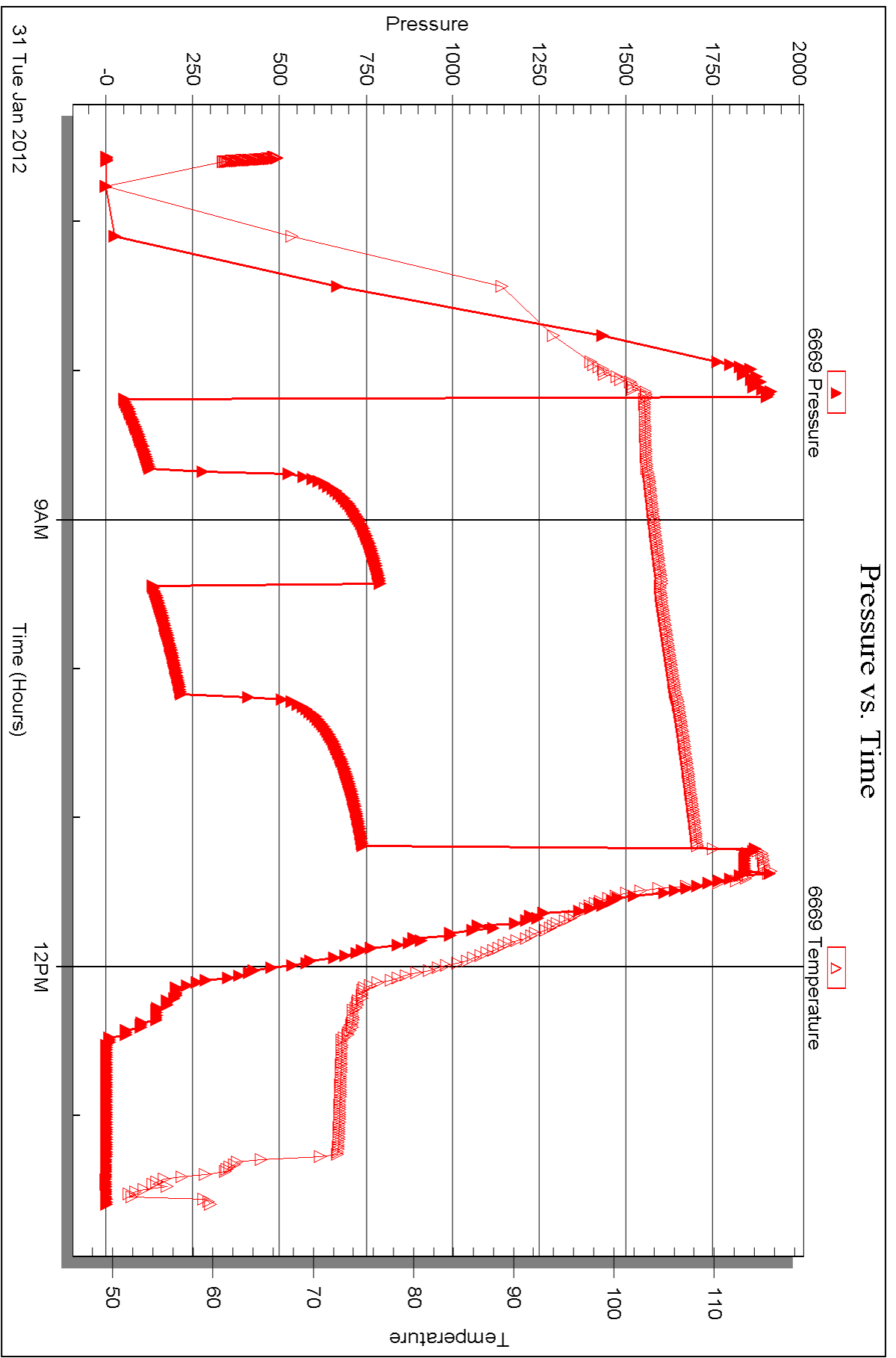
Serial #: 6669

Inside

Downing Nelson Oil Co Inc

23-95-24w Graham,KS

DST Test Number: 2





## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Al Downing

**23-9s-24w Graham,KS**

**Nickelson Farms 'C' #1-23**

Start Date: 2012.01.31 @ 21:44:00

End Date: 2012.02.01 @ 04:31:30

Job Ticket #: 46277                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.03 @ 13:01:04

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

23-9s-24w Graham,KS

DST # 3

KC "JK"

2012.01.31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

PO Box 1019  
Hays, KS 67601

ATTN: Al Downing

**Nickelson Farms 'C' #1-23**

**23-9s-24w Graham,KS**

Job Ticket: 46277

**DST#: 3**

Test Start: 2012.01.31 @ 21:44:00

## GENERAL INFORMATION:

Formation: **KC "J,K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:26:30

Time Test Ended: 04:31:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 41

**Interval: 3929.00 ft (KB) To 3975.00 ft (KB) (TVD)**

Reference Elevations: 2438.00 ft (KB)

Total Depth: 3929.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 56.71 psig @ 3964.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.02.01

Last Calib.:

2012.02.01

Start Time: 21:44:01

End Time:

04:31:30

Time On Btm:

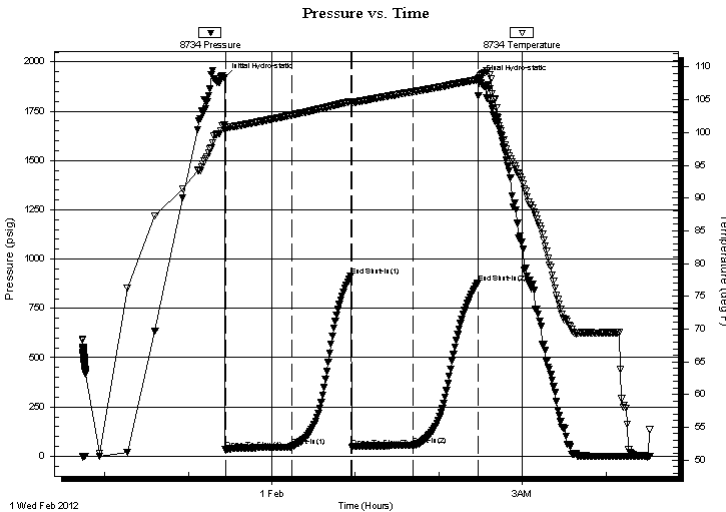
2012.01.31 @ 23:26:00

Time Off Btm:

2012.02.01 @ 02:29:00

**TEST COMMENT:** 45 - IF- 6" Blow  
45 - IS- No blow back  
45 - FF- 5" Blow  
45 - FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.98	101.18	Initial Hydro-static
1	33.03	100.38	Open To Flow (1)
48	49.43	102.65	Shut-In(1)
91	914.05	104.72	End Shut-In(1)
92	44.26	104.56	Open To Flow (2)
136	56.71	106.21	Shut-In(2)
182	879.79	108.05	End Shut-In(2)
183	1909.99	108.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO, 5%G, 5%M, 90%O	0.59
0.00	62' of G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

Downing Nelson Oil Co Inc  
PO Box 1019  
Hays, KS 67601  
ATTN: Al Downing

**Nickelson Farms 'C' #1-23**  
**23-9s-24w Graham,KS**  
Job Ticket: 46277 **DST#: 3**  
Test Start: 2012.01.31 @ 21:44:00

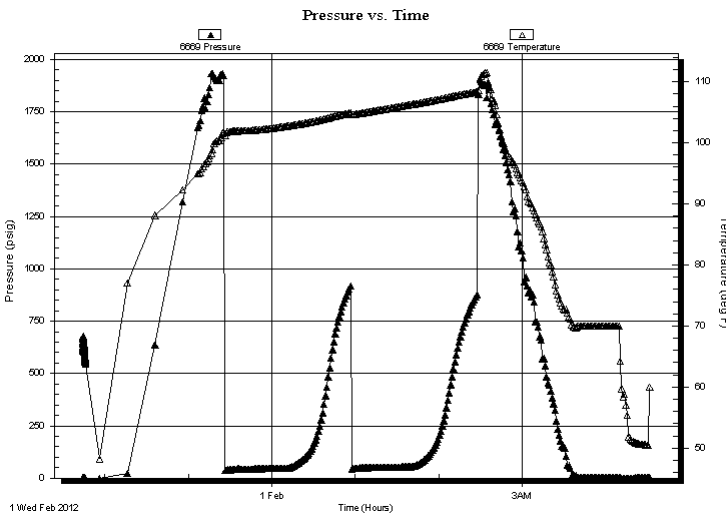
**GENERAL INFORMATION:**

Formation: **KC "J,K"**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 23:26:30 Tester: Cody Bloedorn  
Time Test Ended: 04:31:30 Unit No: 41  
Interval: **3929.00 ft (KB) To 3975.00 ft (KB) (TVD)** Reference Elevations: 2438.00 ft (KB)  
Total Depth: 3929.00 ft (KB) (TVD) 2431.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 6669 Inside**  
Press @ Run Depth: psig @ 3964.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.01.31 End Date: 2012.02.01 Last Calib.: 2012.02.01  
Start Time: 21:44:01 End Time: 04:31:30 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 45 - IF- 6" Blow  
45 - IS- No blow back  
45 - FF- 5" Blow  
45 - FS- No blow back

**PRESSURE SUMMARY**



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
62.00	GMO, 5%G, 5%M, 90%O	0.59
0.00	62' of G.I.P.	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

Job Ticket: 46277

**DST#: 3**

ATTN: Al Downing

Test Start: 2012.01.31 @ 21:44:00

## Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight: 2500.00 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: 61000.00 lb
			<u>Total Volume: 54.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3929.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			3902.00	
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Jars	5.00			3917.00	
Safety Joint	2.00			3919.00	
Packer	5.00			3924.00	28.00 Bottom Of Top Packer
Packer	5.00			3929.00	
Stubb	1.00			3930.00	
Perforations	1.00			3931.00	
Change Over Sub	1.00			3932.00	
Blank Spacing	31.00			3963.00	
Change Over Sub	1.00			3964.00	
Recorder	0.00	6669	Inside	3964.00	
Recorder	0.00	8734	Outside	3964.00	
Perforations	8.00			3972.00	
Bullnose	3.00			3975.00	46.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>74.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co Inc

**Nickelson Farms 'C' #1-23**

PO Box 1019  
Hays, KS 67601

**23-9s-24w Graham,KS**

Job Ticket: 46277

**DST#: 3**

ATTN: Al Downing

Test Start: 2012.01.31 @ 21:44:00

## 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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GMO, 5%G, 5%M, 90%O	0.587
0.00	62' of G.I.P.	0.000

Total Length: 62.00 ft      Total Volume: 0.587 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

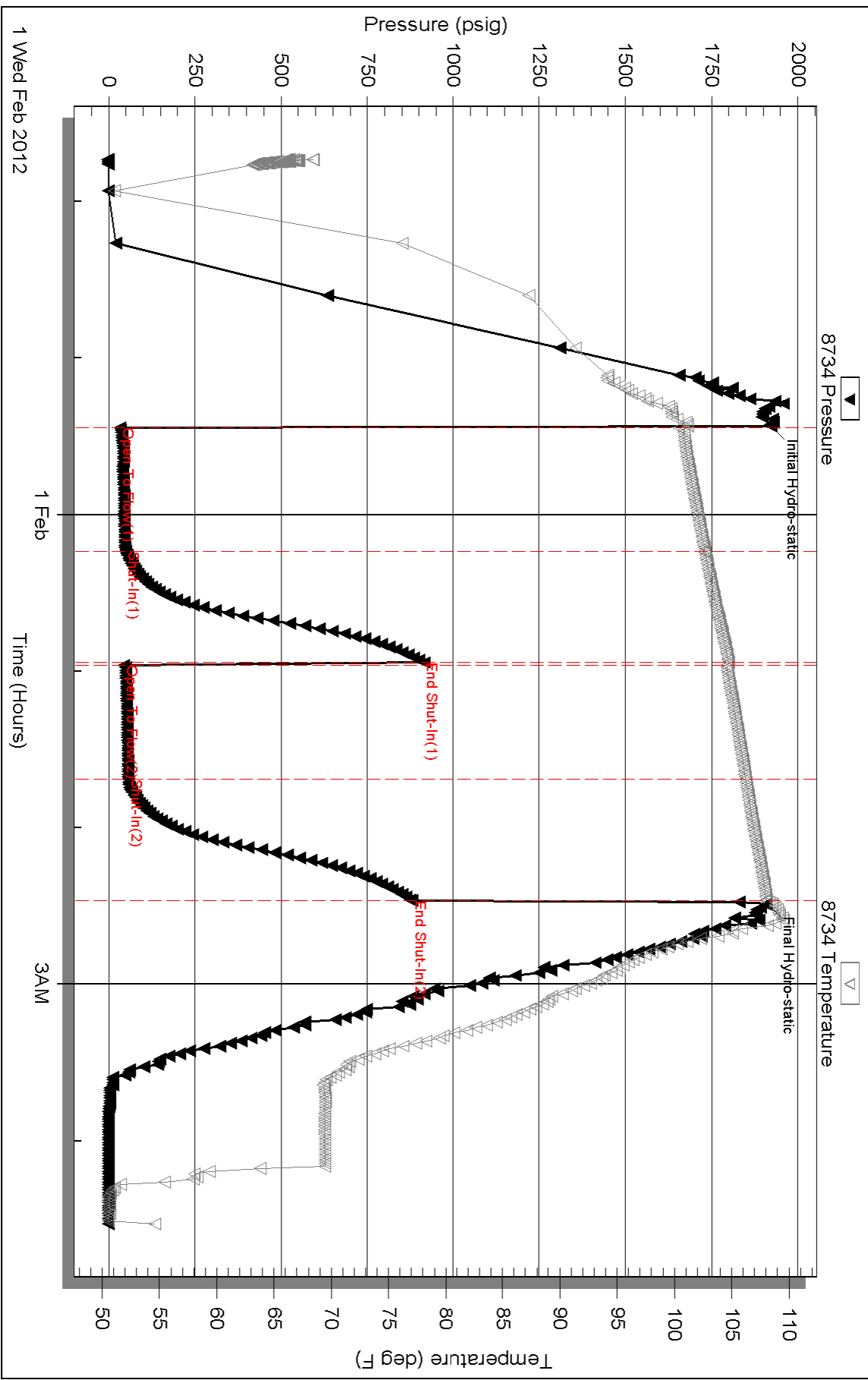
Serial #: 8734

Outside Downing Nelson Oil Co Inc

23-9s-24w Graham,KS

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46277

Printed: 2012.02.03 @ 13:01:06

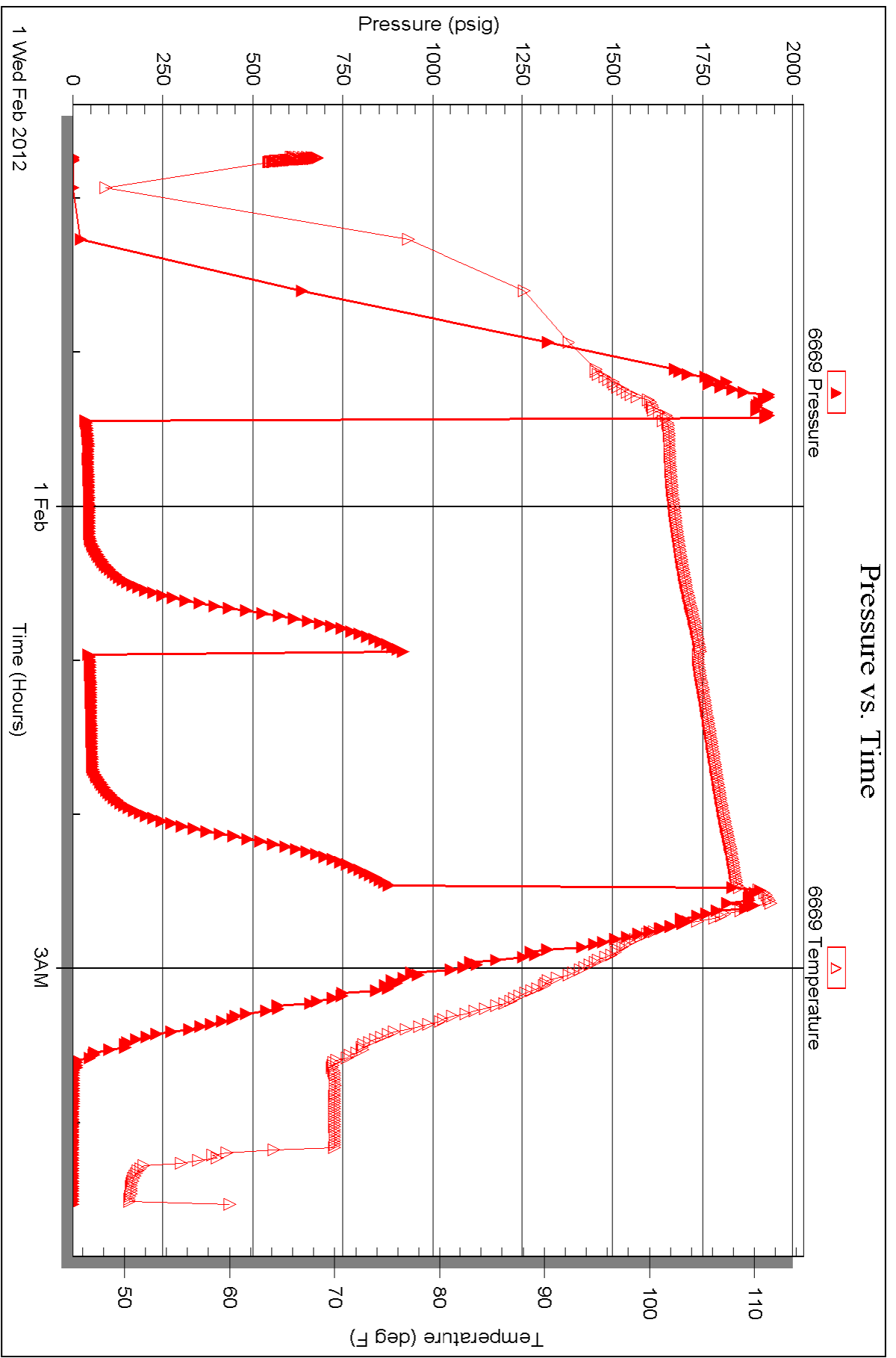
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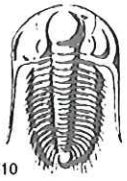
Inside

Downing Nelson Oil Co Inc

23-9s-24w Graham,KS

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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JAN 31 2012

## Test Ticket

NO. 46416

Well Name & No. Nickelson Ferns 'C' 1-23 BY: \_\_\_\_\_ Test No. 1 Date 1-30-12  
 Company ONOC Elevation 2438 KB 2431 GL \_\_\_\_\_  
 Address PO Box 1019 Hays, KS 67601  
 Co. Rep / Geo. Al Downing Rig Discovery 1  
 Location: Sec. 23 Twp. 9 Rge. 24 Co. Graham State Ks

Interval Tested 3791-3830 Zone Tested LHC 'C-D'  
 Anchor Length 39 Drill Pipe Run 3737 Mud Wt. 8.9  
 Top Packer Depth 3786 Drill Collars Run 31 Vis 60  
 Bottom Packer Depth 3791 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3830 Chlorides 1000 ppm System \_\_\_\_\_ LCM \_\_\_\_\_  
 Blow Description FFP - 1/4" blow throughout  
ISD - no blow back  
FFP - no blow  
FST - no blow back

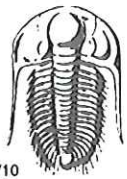
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>USOCM</u>	<u>3</u>		<u>97</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 98 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1827</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>1249</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1337</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1524</u>
(D) Initial Shut-In <u>426</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1724</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1841</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 1102.40</u>	Comments <u>2' fill on bottom</u>
(G) Final Shut-In <u>287</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1792</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total _____
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1102.40</u>	

Approved By \_\_\_\_\_ Our Representative Brian Fabrik

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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## Test Ticket

NO. 46276

Well Name & No. Nickleson Farms "C" 1-23 BY: BY: 1-23 Test No. 2 Date 1-31-12  
 Company DNOC Elevation 2438 KB 2431 GL  
 Address Po Box 1019, Hays, KS, 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery #1  
 Location: Sec. 23 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3880-3933 Zone Tested "H&I"  
 Anchor Length 53' Drill Pipe Run 3829 Mud Wt. 8.9  
 Top Packer Depth 3875 Drill Collars Run 31 Vis 60  
 Bottom Packer Depth 3880 Wt. Pipe Run - WL 8.0  
 Total Depth 3933 Chlorides 1000 ppm System LCM -

Blow Description IF - B.O.B. in 13 Min.  
ISI - Weak surface blow, died in 10 Min.  
FF - B.O.B. in 21 Min  
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>MW, oil scum</u>		<u>95</u>	<u>5</u>	
<u>124</u>	<u>MW, oil scum</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

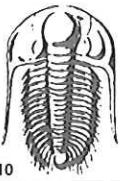
Rec Total 434 BHT 108° Gravity - API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1905  Test 1125' T-On Location 6:10am  
 (B) First Initial Flow 41  Jars 250' T-Started 6:34am  
 (C) First Final Flow 126  Safety Joint 75' T-Open 8:11am  
 (D) Initial Shut-In 788  Circ Sub \_\_\_\_\_ T-Pulled 11:11am  
 (E) Second Initial Flow 131  Hourly Standby \_\_\_\_\_ T-Out 1:35pm  
 (F) Second Final Flow 216  Mileage 116 RT 162.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 738  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1869  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1612.40  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1612.40

Approved By \_\_\_\_\_ Our Representative Cody Bledorn

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BY: \_\_\_\_\_

## Test Ticket

NO. 46277

Well Name & No. Nickelson Farms "C" 1-23 Test No. 3 Date 1-31-12  
 Company Po Box 1019, Hays KS, 67601 1/2 Elevation 2438 KB 2431 GL  
 Address DNOC  
 Co. Rep / Geo. Marc Downing Rig Discovery #1  
 Location: Sec. 23 Twp. 9 Rge. 24 Co. Graham State K5

Interval Tested 3929-3975 Zone Tested KC "J,k"  
 Anchor Length 46' Drill Pipe Run 3892 Mud Wt. 8.8  
 Top Packer Depth 3924 Drill Collars Run 31 Vis 58  
 Bottom Packer Depth 3929 Wt. Pipe Run — WL 7.6  
 Total Depth 3975 Chlorides 1,000 ppm System LCM —  
 Blow Description IF - 6" blow  
ISI - No blow back  
FF - 5" blow  
FSE - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>6MO</u>	<u>5</u>	<u>90</u>	<u>5</u>	<u>—</u>
<u>—</u>	<u>62' of G.I.P.</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 62 BHT 108° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1921</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>9:20 pm</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:44 pm</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:27 pm</u>
(D) Initial Shut-In <u>914</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2:27 am</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:33 am</u>
(F) Second Final Flow <u>56</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 1162.40</u>	Comments <u>116 RT - Picked up tool. Had to go back to get it.</u>
(G) Final Shut-In <u>879</u>	<input type="checkbox"/> Sampler <u>x2 324.80</u>	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1909</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Total <u>1774.80</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1774.80</u>	

Approved By \_\_\_\_\_ Our Representative Cody Bledorn

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