



KANSAS CORPORATION COMMISSION 1080967
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2:
City: HAYS State: KS Zip: 67601
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Marc Downing
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 #:
05/04/2012 05/10/2012 05/11/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-051-26300-00-00
Spot Description:
SE SW SE NE Sec. 18 Twp. 13 S. R. 18 East West
2600 Feet from North / South Line of Section
680 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: Rita Well #: 1-18
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 2133 Kelly Bushing: 2141
Total Depth: 3850 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 221 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
(Date must be collected from the Reserve Pit)
Chloride content: 17000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
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: Deanna Ganser Date: 06/25/2012



1080967

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Rita Well #: 1-18
 Sec. 18 Twp. 13 S. R. 18 East West County: Ellis

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Attached	Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

List All E. Logs Run:
 Micro
 Dual Induction
 Compensated Density / Neutron

CASING RECORD New 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
Surface pipe	12.25	8.625	23	221.39	Common	150	2% Gel & 3% CC

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

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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Rita 1-18
Doc ID	1080967

Tops

Top Anhydrite	1450'	+690
Base Anhydrite	1490'	+650
Topeka	3190'	-1050
Heebner	3430'	-1290
Toronto	3447'	-1307
LKC	3476'	-1336
BKC	3700'	-1560
Arbuckle	3759'	-1619

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 384

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-4-12	18	13	18	ELLIS	KANSAS		3:00 PM
Lease <u>RETA</u>	Well No. <u>1-18</u>		Location <u>HAYS BYPASS 1/2 N - W - INTD</u>				
Contractor <u>DISCOVERY DRILLING #3</u>				Owner <u>DOWNING & NELSON</u>			
Type Job <u>SURFACE</u>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>12 1/4</u>	T.D. <u>222'</u>			Charge To <u>DOWNING & NELSON</u>			
Csg. <u>8 3/8'</u>	Depth <u>221</u>			Street <u>PO Box 1019</u>			
Tbg. Size	Depth			City <u>HAYS</u> State <u>KANSAS, 67601</u>			
Tool	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	Shoe Joint <u>15'</u>			Cement Amount Ordered <u>150 com. 3% gel - 2% gel</u>			
Meas Line	Displace <u>13 BLS</u>						
EQUIPMENT							
Pumptrk #15 No.	Cementer	<u>PAUL</u>		Common <u>150</u>			
Bulktrk #10 No.	Driver	<u>BETAN</u>		Poz. Mix			
Bulktrk #14 No.	Driver	<u>CISCO</u>		Gel. <u>3</u>			
JOB SERVICES & REMARKS							
Remarks:				Calcium <u>5</u>			
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
				CFL-117 or CD110 CAF 38			
				Sand			
				Handling <u>158</u>			
				Mileage			
FLOAT EQUIPMENT							
<u>CEMENT DID NOT CIRCULATE!</u>				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <u>SURFACE</u>			
				Mileage <u>3 (25 min)</u>			
X Signature <u>Don Holl</u>				Discount			
				Total Charge			

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 414

Date	5-11-12	Sec.	18	Twp.	13	Range	18	County	Ellis	State	Ks	On Location	Finish	6:15 PM		
Lease	Rita	Well No.	1-18		Location Hays, Ks - Exit 157 + I-70, 3/4 N, W15											
Contractor	Discovery #3					Owner										
Type Job	Plug					To Quality Oilwell Cementing, Inc.										
Hole Size	7 7/8"					T.D.	3850'					You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.				
Csg.						Depth						Charge To Downing - Nelson				
Tbg. Size	4 1/2" D.P.					Depth	3738'					Street				
Tool						Depth						City State				
Cement Left in Csg.						Shoe Joint						The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line						Displace	H2O/mud					Cement Amount Ordered 245 5x 60/40 4% Gel 4#FS				

EQUIPMENT

Pumptrk	9	No.	Cementer	Matt	Common	147
			Helper			
Bulktrk	10	No.	Driver	Lonnie	Poz. Mix	98
			Driver			
Bulktrk	pin.	No.	Driver	Rick	Gel.	9
			Driver			

JOB SERVICES & REMARKS

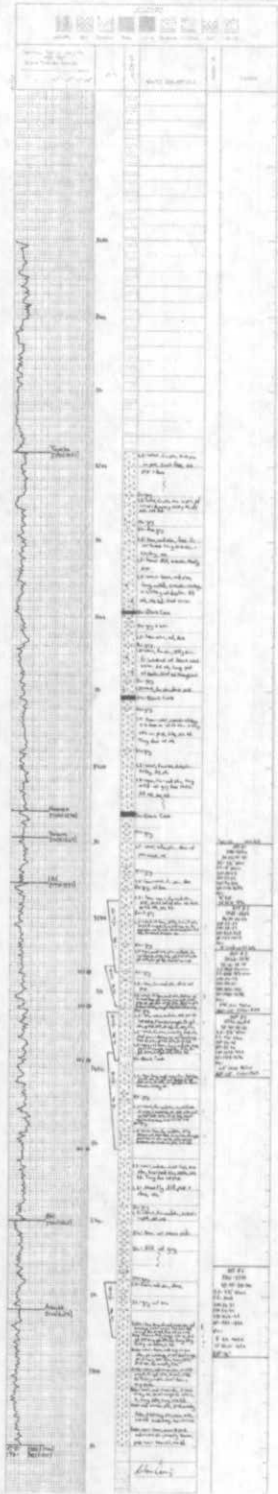
Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 60#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
3738' - 255x	CFL-117 or CD110 CAF 38
1475' - 255x	Sand
760' - 1005x	Handling 25#
270' - 405x	Mileage
40' - 105x w/ plug	FLOAT EQUIPMENT
Rathole - 30 5x	Guide Shoe
Mousehole - 155x	Centralizer
Cement did Circulate.	Baskets
	AFL Inserts
	Float Shoe
	Latch Down
	1 - Day hole plug
	Pumptrk Charge plug
	Mileage 25 miles
	Tax
	Discount
	Total Charge

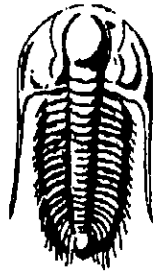
Signature: [Handwritten Signature]

DATE	NO.	DESCRIPTION	AMOUNT
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1912	2
1913	3
1914	4
1915	5
1916	6
1917	7
1918	8
1919	9
1920	10
1921	11
1922	12
1923	13
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1926	16
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1960	50





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Rita #1-18

18-13s-18w Ellis,KS

Start Date: 2012.05.08 @ 10:58:30

End Date: 2012.05.08 @ 16:33:30

Job Ticket #: 47227 DST #: 1

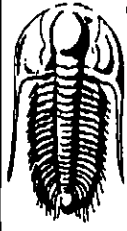
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.15 @ 08:59:01

Downing-Nelson Oil Co., Inc. 18-13s-18w Ellis,KS Rita #1-18 DST # 1 LKC "CAD" 2012.05.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47227

DST#: 1

ATTN: Marc Downing

Test Start: 2012.05.08 @ 10:58:30

GENERAL INFORMATION:

Formation: **LKC "C&D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:35:20

Time Test Ended: 16:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3488.00 ft (KB) To 3536.00 ft (KB) (TVD)**

Total Depth: 3536.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 32.04 psig @ 3527.00 ft (KB)

Start Date: 2012.05.08

End Date:

2012.05.08

Start Time: 11:08:30

End Time:

16:33:30

Capacity: 8000.00 psig

Last Calib.: 2012.05.08

Time On Btm: 2012.05.08 @ 12:35:00

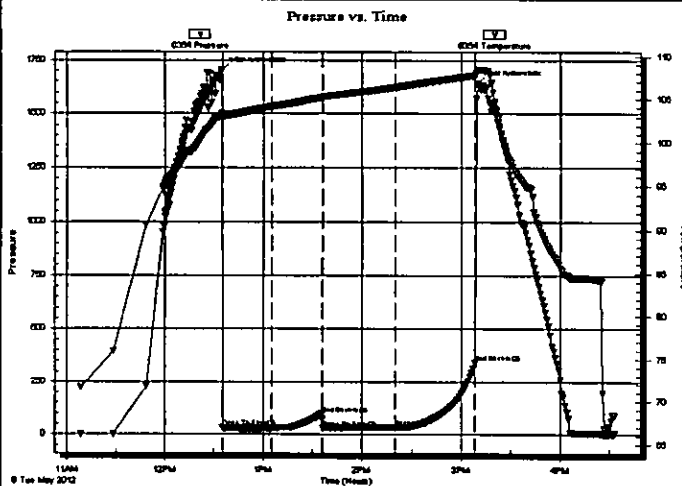
Time Off Btm: 2012.05.08 @ 15:09:30

TEST COMMENT: IF-Weak surface blow @ 18 minutes. Built to 1&1/2 inches.

ISI-No Return

FF-Weak building blow . Built to 8 inches.

FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.70	103.32	Initial Hydro-static
1	33.59	102.91	Open To Flow (1)
31	29.22	104.15	Shut-In(1)
61	96.40	105.24	End Shut-In(1)
62	29.34	105.27	Open To Flow (2)
105	32.04	106.38	Shut-In(2)
153	340.39	107.72	End Shut-In(2)
155	1638.52	108.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	15% Oil/85% Mud	0.42
0.00	93' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47227

DST#: 1

ATTN: Marc Downing

Test Start: 2012.05.08 @ 10:58:30

GENERAL INFORMATION:

Formation: **LKC "C&D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:35:20

Time Test Ended: 16:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3488.00 ft (KB) To 3536.00 ft (KB) (TVD)**

Total Depth: 3536.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3527.00 ft (KB)

Start Date: 2012.05.08

End Date:

2012.05.08

Capacity: 8000.00 psig

Last Calib.: 2012.05.08

Start Time: 11:08:45

End Time:

16:32:45

Time On Btrm

Time Off Btrm

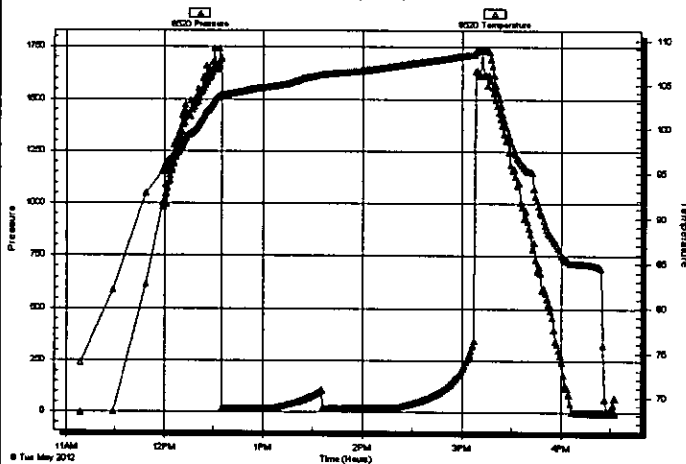
TEST COMMENT: IF-Weak surface blow @ 18 minutes. Built to 1&1/2 inches.

IS-No Return

FF-Weak building blow. Built to 8 inches.

FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

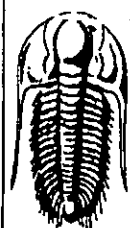
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
30.00	15% Oil/85% Mud	0.42
0.00	93' G.I.P.	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.

18-13s-18w Ellis, KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47227

DST#: 1

ATTN: Marc Downing

Test Start: 2012.05.08 @ 10:58:30

Tool Information

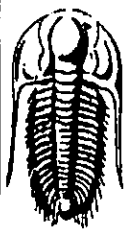
Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 48.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3488.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 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			3469.00	
Shut In Tool	5.00			3474.00	
Hydraulic tool	5.00			3479.00	
Packer	5.00			3484.00	20.00 Bottom Of Top Packer
Packer	4.00			3488.00	
Stubb	1.00			3489.00	
Perforations	5.00			3494.00	
Change Over Sub	1.00			3495.00	
Drill Pipe	31.00			3526.00	
Change Over Sub	1.00			3527.00	
Recorder	0.00	8354	Inside	3527.00	
Recorder	0.00	8520	Outside	3527.00	
Perforations	6.00			3533.00	
Bullnose	3.00			3536.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis, KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47227

DST#: 1

ATTN: Marc Downing

Test Start: 2012.05.08 @ 10:58:30

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	15%Oil/85%Mud	0.421
0.00	93' G.I.P.	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

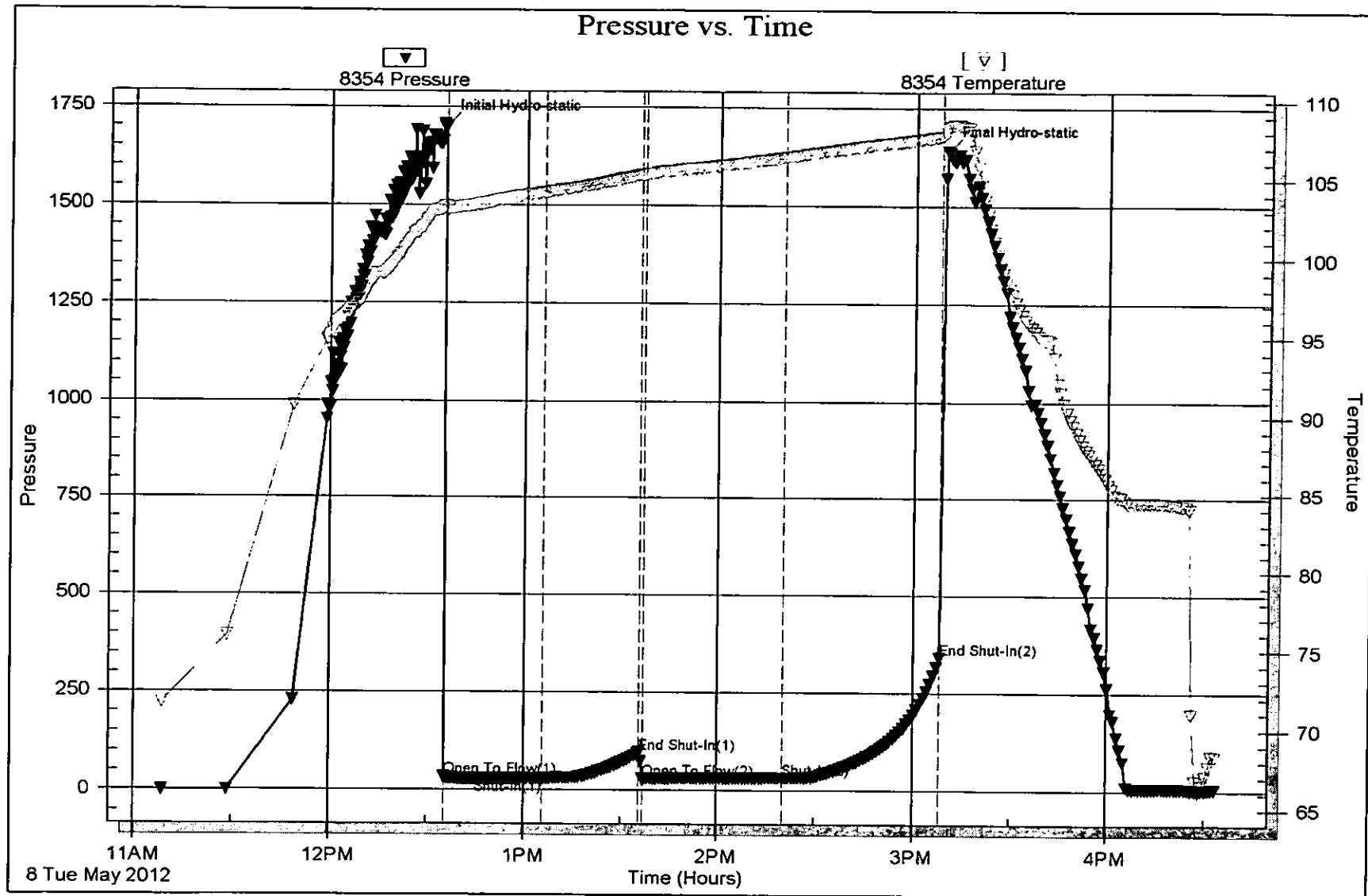
Num Gas Bombs: 0

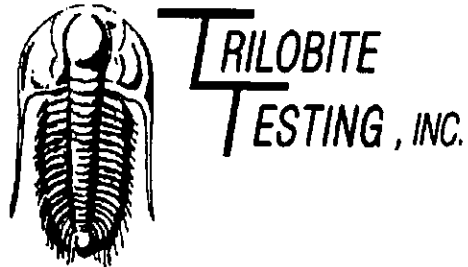
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Rita #1-18

18-13s-18w Ellis,KS

Start Date: 2012.05.08 @ 23:06:30

End Date: 2012.05.09 @ 04:07:30

Job Ticket #: 47228 DST #: 2

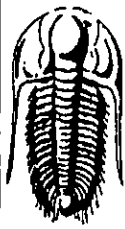
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.15 @ 08:58:19

Downing-Nelson Oil Co., Inc. 18-13s-18w Ellis,KS Rita #1-18 DST # 2 LKC "E&F" 2012.05.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47228

DST#: 2

ATTN: Marc Dow ning

Test Start: 2012.05.08 @ 23:06:30

GENERAL INFORMATION:

Formation: LKC "E&F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:28:50

Time Test Ended: 04:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3532.00 ft (KB) To 3559.00 ft (KB) (TVD)

Total Depth: 3559.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 27.43 psig @ 3534.00 ft (KB)

Start Date: 2012.05.08

End Date:

2012.05.09

Capacity: 8000.00 psig

Last Calib.: 2012.05.09

Start Time: 23:16:30

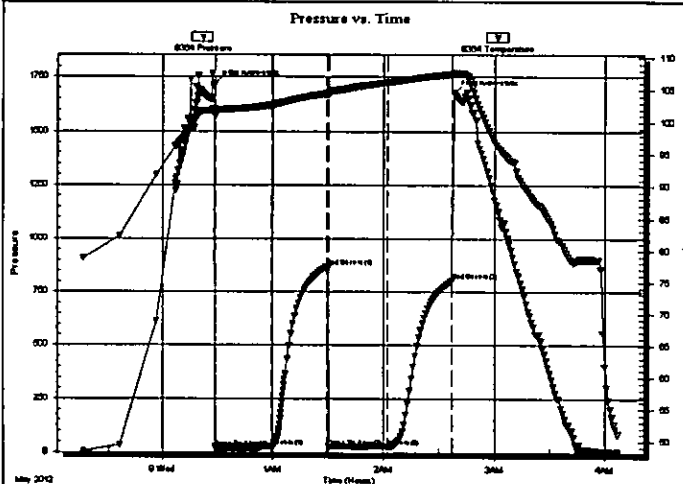
End Time:

04:07:30

Time On Btm: 2012.05.09 @ 00:28:30

Time Off Btm: 2012.05.09 @ 02:38:00

TEST COMMENT: IF-Weak surface blow . Died @ 14 minutes.
IS-No Return.
FF-Weak surface blow . Died @ 4 minutes.
FSI-No Return.



PRESSURE SUMMARY

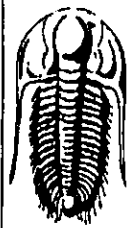
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.37	102.10	Initial Hydro-static
1	21.84	101.64	Open To Flow (1)
32	24.23	102.67	Shut-In(1)
61	868.61	104.37	End Shut-In(1)
62	25.11	104.33	Open To Flow (2)
94	27.43	106.12	Shut-In(2)
129	802.52	107.38	End Shut-In(2)
130	1674.84	107.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%Mud w/few oil specs	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dowling-Nelson Oil Co., Inc.

18-13s-18w Ellis, KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47228

DST#: 2

ATTN: Marc Dowling

Test Start: 2012.05.08 @ 23:06:30

GENERAL INFORMATION:

Formation: LKC "E&F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:28:50

Time Test Ended: 04:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3532.00 ft (KB) To 3559.00 ft (KB) (TVD)

Total Depth: 3559.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3534.00 ft (KB)

Start Date: 2012.05.08

End Date:

2012.05.09

Capacity: 8000.00 psig

Last Calib.: 2012.05.09

Start Time: 23:16:45

End Time:

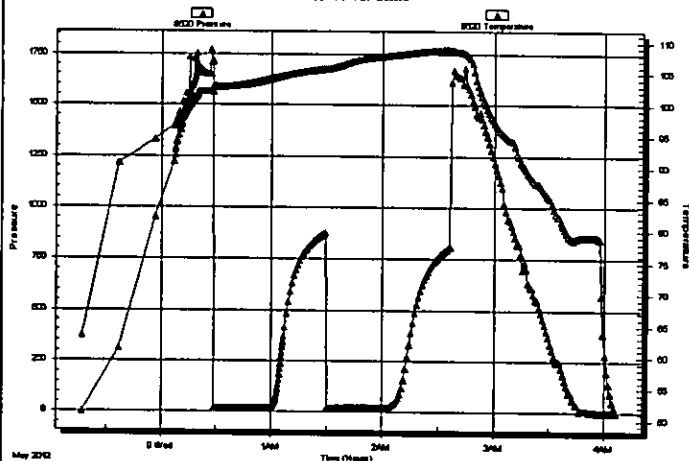
04:06:45

Time On Btm

Time Off Btm

TEST COMMENT: IF-Weak surface blow . Died @ 14 minutes.
IS-No Return.
FF-Weak surface blow . Died @ 4 minutes.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

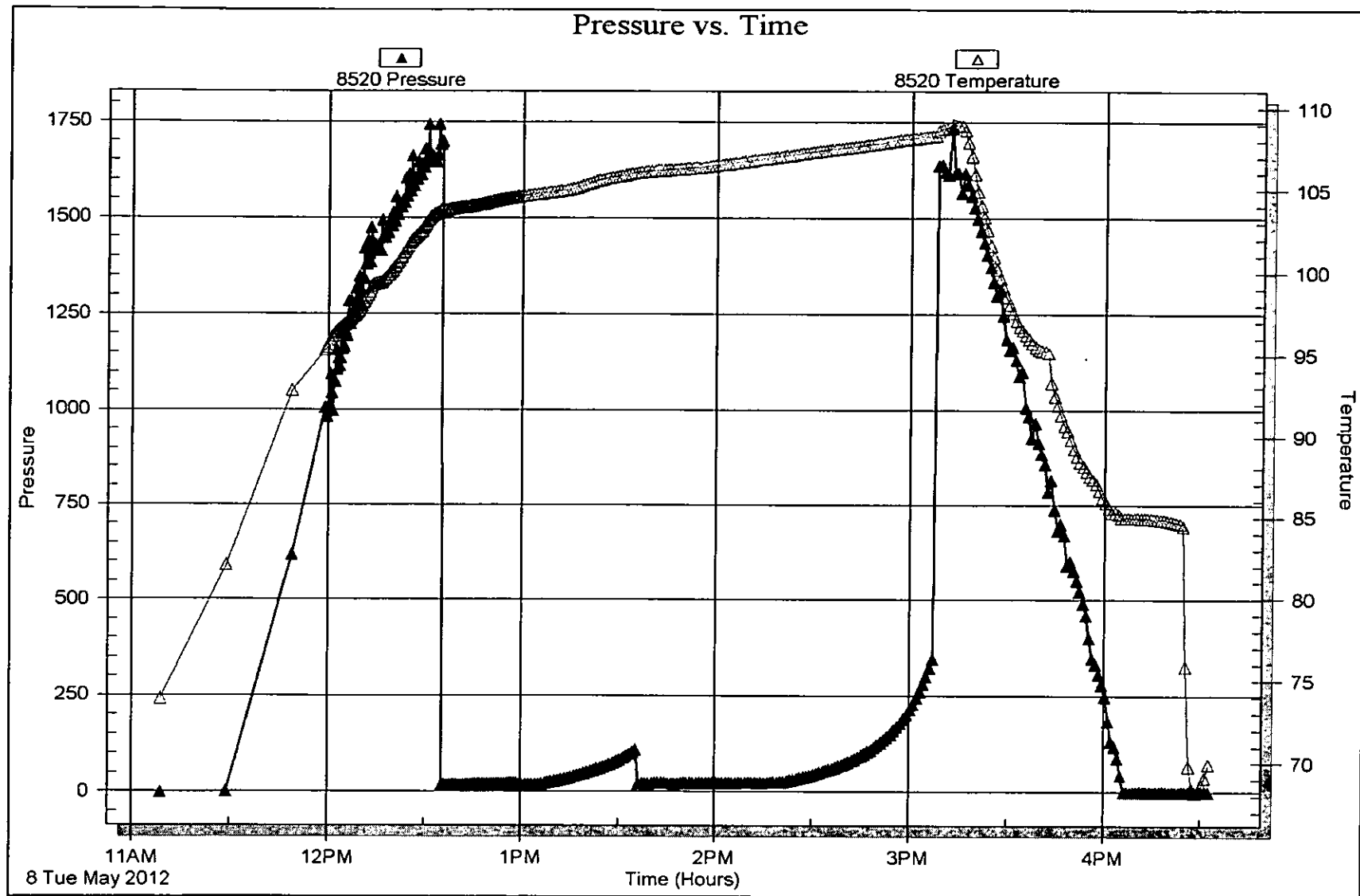
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

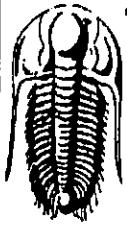
Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%Mud w/few oil specs	0.21

Gas Rates

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





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47228

DST#: 2

ATTN: Marc Downing

Test Start: 2012.05.08 @ 23:06:30

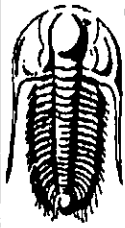
Tool Information

Drill Pipe:	Length: 3519.00 ft	Diameter: 3.80 inches	Volume: 49.36 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			Total Volume: 49.36 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3532.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 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			3513.00	
Shut In Tool	5.00			3518.00	
Hydraulic tool	5.00			3523.00	
Packer	5.00			3528.00	20.00 Bottom Of Top Packer
Packer	4.00			3532.00	
Stubb	1.00			3533.00	
Perforations	1.00			3534.00	
Recorder	0.00	8354	Inside	3534.00	
Recorder	0.00	8520	Outside	3534.00	
Perforations	22.00			3556.00	
Bullnose	3.00			3559.00	27.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47228

DST#: 2

ATTN: Marc Dow ning

Test Start: 2012.05.08 @ 23:06:30

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	100%Mud w /few oil specs	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

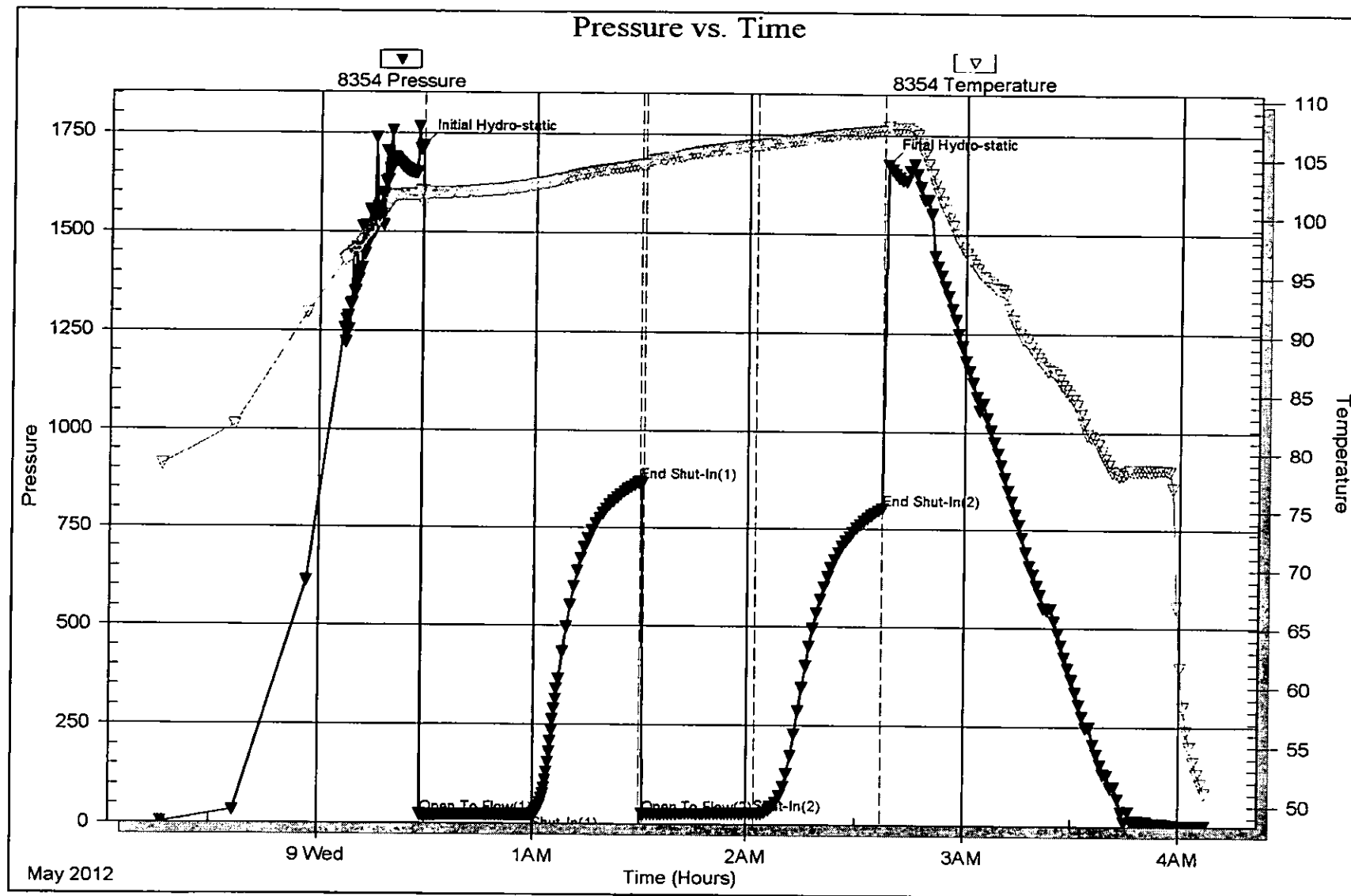
Num Gas Bombs: 0

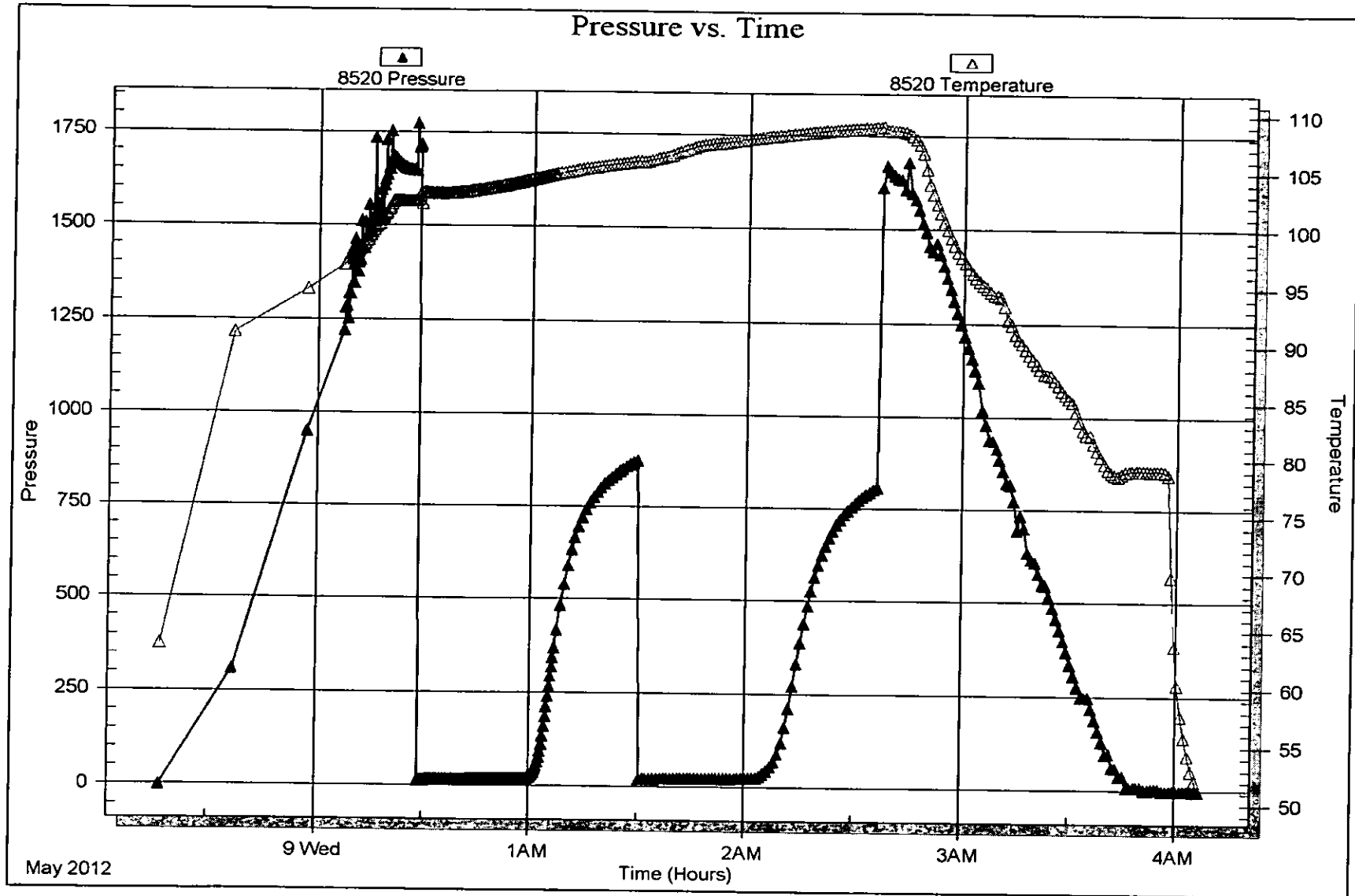
Serial #:

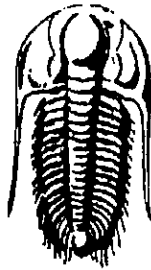
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Rita #1-18

18-13s-18w Ellis,KS

Start Date: 2012.05.09 @ 11:17:15

End Date: 2012.05.09 @ 17:50:15

Job Ticket #: 47229 DST #: 3

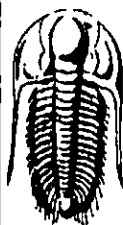
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.15 @ 08:57:11

Downing-Nelson Oil Co., Inc. 18-13s-18w Ellis,KS Rita #1-18 DST # 3 LKC "G" 2012.05.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47229

DST#: 3

ATTN: Marc Dow ning

Test Start: 2012.05.09 @ 11:17:15

GENERAL INFORMATION:

Formation: LKC "G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:11:45

Time Test Ended: 17:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3563.00 ft (KB) To 3595.00 ft (KB) (TVD)

Total Depth: 3595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 120.86 psig @ 3565.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.09

End Date: 2012.05.09

Last Calib.: 2012.05.09

Start Time: 11:27:15

End Time: 17:50:15

Time On Btm: 2012.05.09 @ 13:11:35

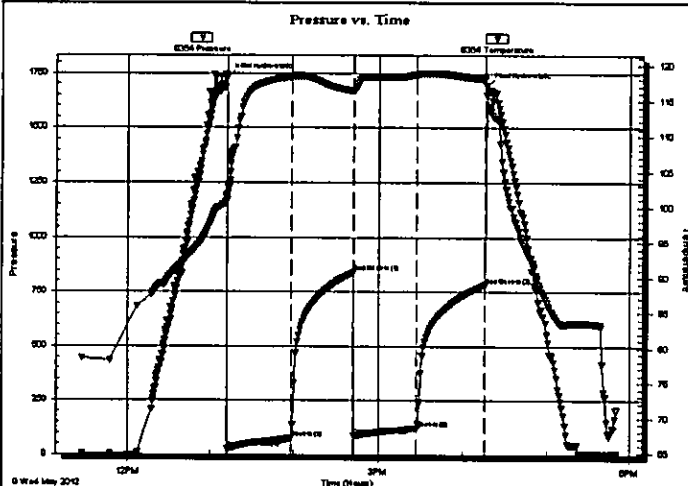
Time Off Btm: 2012.05.09 @ 16:16:45

TEST COMMENT: IF-Weak building blow . BOB in 26 minutes.

IS-No Return.

FF-Very weak building blow . BOB in 43 minutes 30 seconds.

FSI-No Return.



PRESSURE SUMMARY

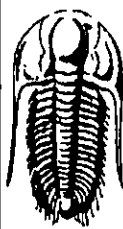
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.04	101.74	Initial Hydro-static
1	24.08	100.98	Open To Flow (1)
47	73.19	118.34	Shut-in(1)
91	839.34	116.26	End Shut-in(1)
92	83.67	116.35	Open To Flow (2)
136	120.86	118.68	Shut-in(2)
185	782.61	118.03	End Shut-in(2)
186	1692.46	115.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	90%Water/10%Mud	4.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47229

DST#: 3

ATTN: Marc Dow ning

Test Start: 2012.05.09 @ 11:17:15

GENERAL INFORMATION:

Formation: LKC "G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:11:45

Time Test Ended: 17:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3563.00 ft (KB) To 3595.00 ft (KB) (TVD)

Total Depth: 3595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3565.00 ft (KB)

Start Date: 2012.05.09 End Date: 2012.05.09

Start Time: 11:27:30 End Time: 17:50:00

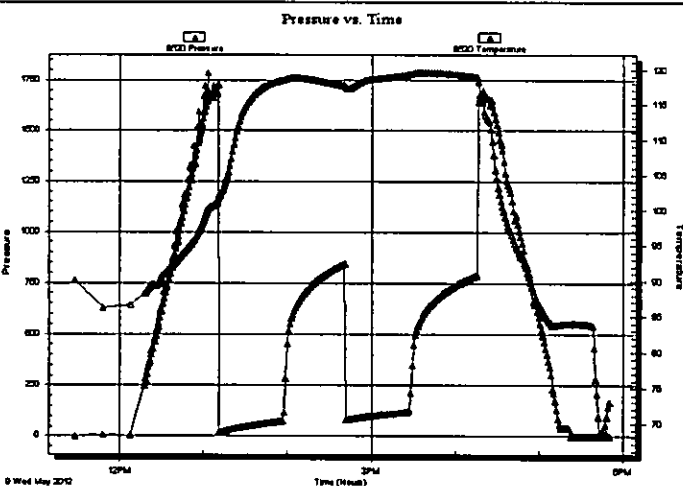
Capacity: 8000.00 psig

Last Calib.: 2012.05.09

Time On Btrm:

Time Off Btrm:

TEST COMMENT: IF-Weak building blow . BOB in 26 minutes.
IS-No Return.
FF-Very weak building blow . BOB in 43 minutes 30 seconds.
FS-No Return.



PRESSURE SUMMARY

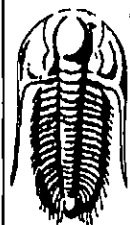
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
290.00	90%Water/10%Mud	4.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis, KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47229

DST#: 3

ATTN: Marc Downing

Test Start: 2012.05.09 @ 11:17:15

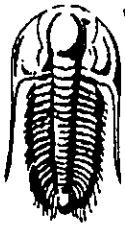
Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 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: 27000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			Total Volume: 49.80 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3563.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			3544.00	
Shut In Tool	5.00			3549.00	
Hydraulic tool	5.00			3554.00	
Packer	5.00			3559.00	20.00 Bottom Of Top Packer
Packer	4.00			3563.00	
Stubb	1.00			3564.00	
Perforations	1.00			3565.00	
Recorder	0.00	8354	Inside	3565.00	
Recorder	0.00	8520	Outside	3565.00	
Perforations	27.00			3592.00	
Bullnose	3.00			3595.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47229

DST#: 3

ATTN: Marc Downing

Test Start: 2012.05.09 @ 11:17:15

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: 52000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.11 ohm.m

Gas Cushion Pressure: psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

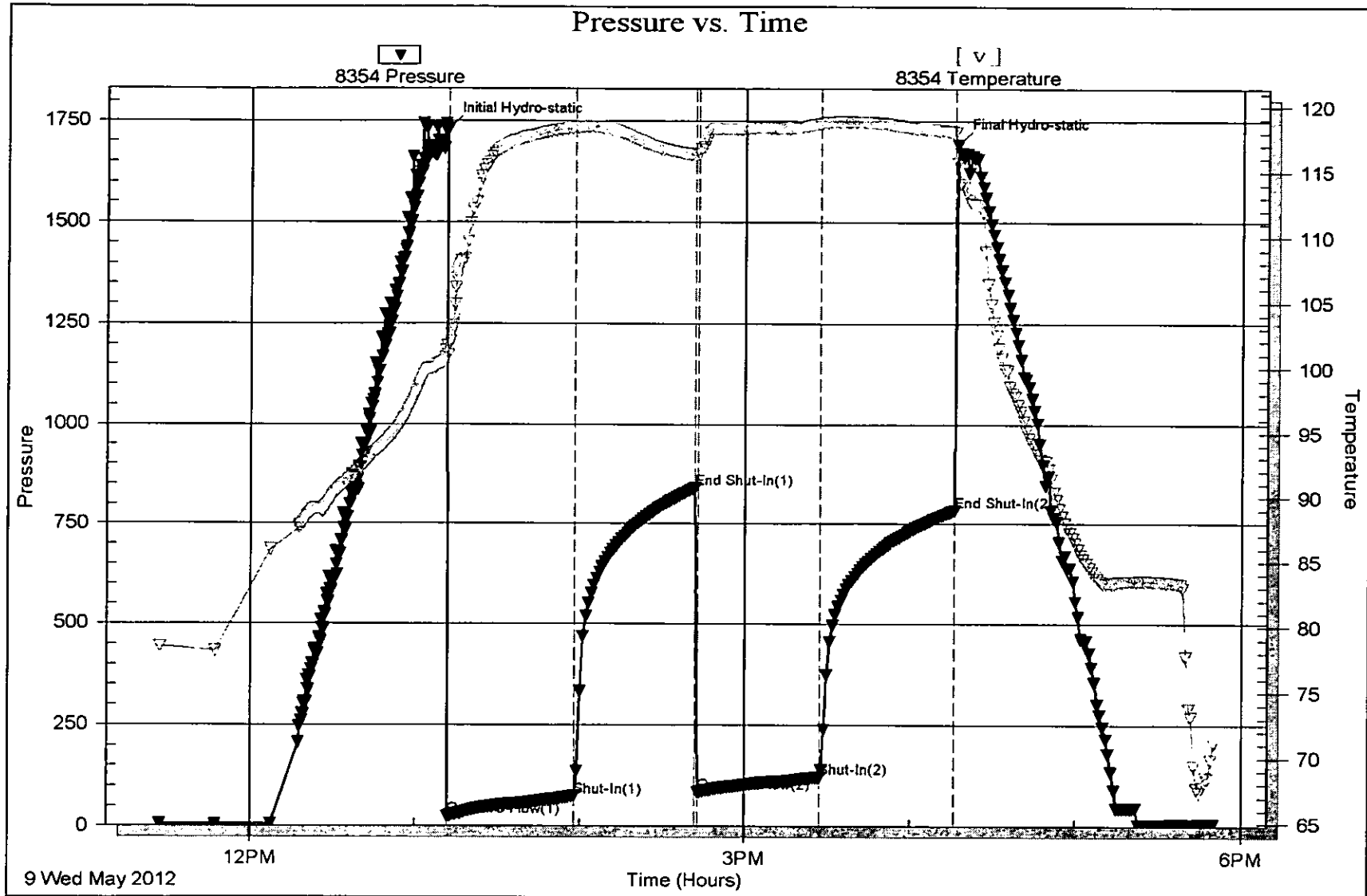
Length ft	Description	Volume bbl
290.00	90%Water/10%Mud	4.068

Total Length: 290.00 ft Total Volume: 4.068 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



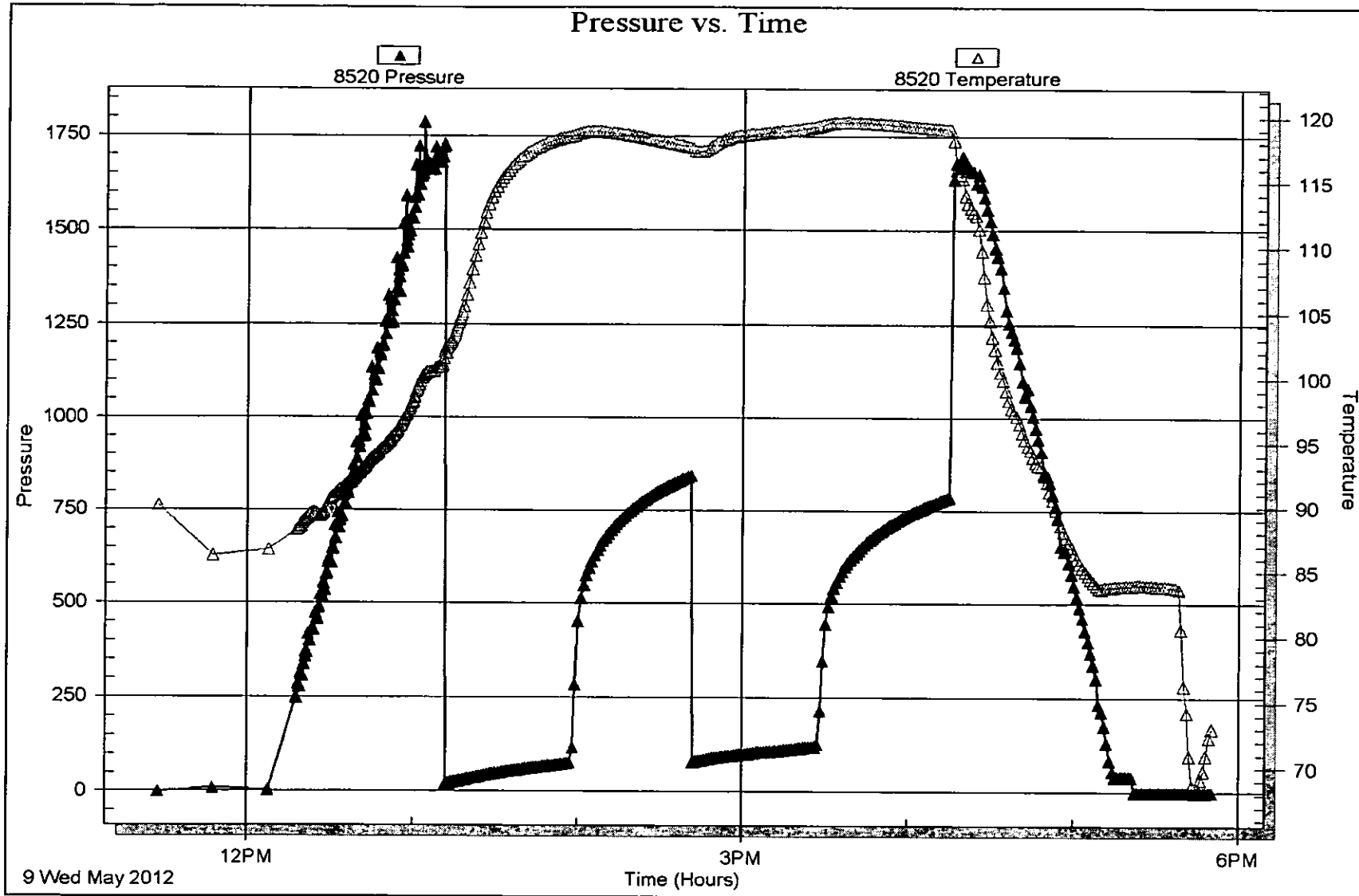
9 Wed May 2012

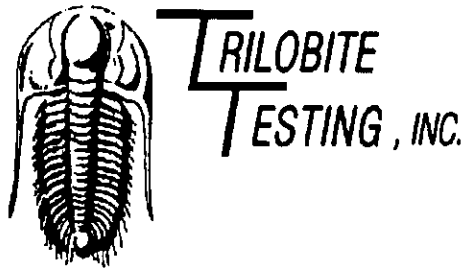
Serial #: 8520

Outside Downing-Nelson Oil Co., Inc.

Rta #1-18

DST Test Number: 3





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Rita #1-18

18-13s-18w Ellis,KS

Start Date: 2012.05.10 @ 03:05:15

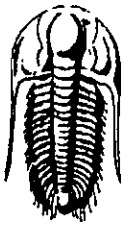
End Date: 2012.05.10 @ 09:33:15

Job Ticket #: 47230 DST #: 4

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

Printed: 2012.05.15 @ 08:56:34

Downing-Nelson Oil Co., Inc. 18-13s-18w Ellis,KS Rita #1-18 DST # 4 LKC "H-J" 2012.05.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47230

DST#: 4

ATTN: Marc Dow ning

Test Start: 2012.05.10 @ 03:05:15

GENERAL INFORMATION:

Formation: LKC "H-J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:48:45

Time Test Ended: 09:33:15

Test Type: Conventional Bottom Hole (initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3590.00 ft (KB) To 3654.00 ft (KB) (TVD)

Total Depth: 3654.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 69.98 psig @ 3630.00 ft (KB)

Start Date: 2012.05.10

End Date:

2012.05.10

Capacity: 8000.00 psig

Last Calib.: 2012.05.10

Start Time: 03:15:15

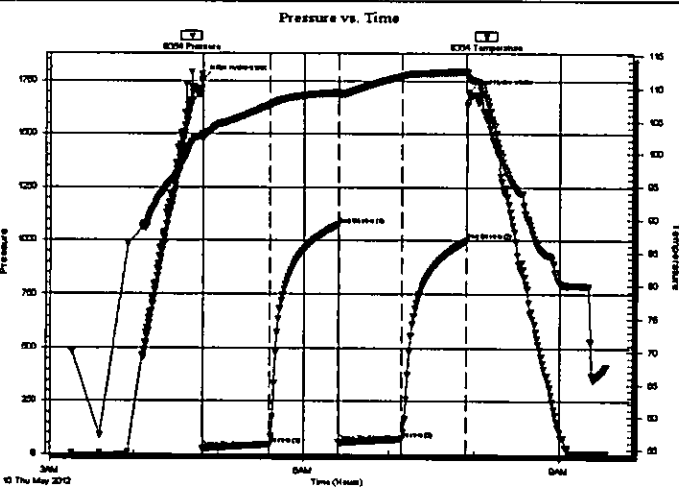
End Time:

09:33:15

Time On Btm: 2012.05.10 @ 04:48:35

Time Off Btm: 2012.05.10 @ 07:55:15

TEST COMMENT: IF-Very weak building blow . Built to 5&1/2 inches.
IS-No Return.
FF-Very weak building blow . Built to 4&1/4 inches.
FSI-No Return.



PRESSURE SUMMARY

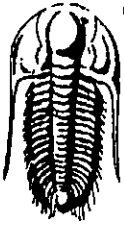
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.51	103.13	Initial Hydro-static
1	26.18	102.35	Open To Flow (1)
48	43.75	107.51	Shut-in(1)
96	1073.23	109.35	End Shut-in(1)
96	55.16	109.03	Open To Flow (2)
140	69.98	111.82	Shut-in(2)
186	999.03	112.59	End Shut-in(2)
187	1696.05	111.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	80%Water/20%Mud	1.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47230 DST#: 4

ATTN: Marc Dow ning

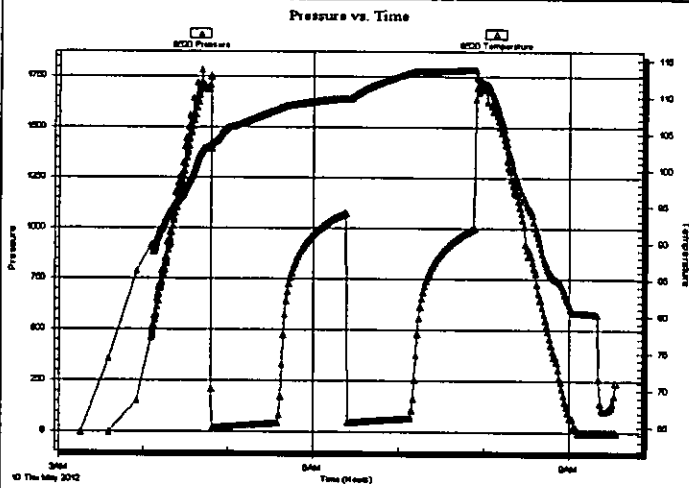
Test Start: 2012.05.10 @ 03:05:15

GENERAL INFORMATION:

Formation: LKC "H-J"		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Dustin Rash
Time Tool Opened: 04:48:45		Unit No: 38
Time Test Ended: 09:33:15		Reference Elevations: 2139.00 ft (KB)
Interval: 3590.00 ft (KB) To 3654.00 ft (KB) (TVD)		2131.00 ft (CF)
Total Depth: 3654.00 ft (KB) (TVD)		KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair		

Serial #: 8520 Outside		Capacity: 8000.00 psig
Press@RunDepth: psig @ 3630.00 ft (KB)		Last Calib.: 2012.05.10
Start Date: 2012.05.10 End Date: 2012.05.10		Time On Btrr:
Start Time: 03:15:30 End Time: 09:33:00		Time Off Btrr:

TEST COMMENT: IF-Very weak building blow . Built to 5&1/2 inches.
IS-No Return.
FF-Very weak building blow . Built to 4&1/4 inches.
FSI-No Return.



PRESSURE SUMMARY

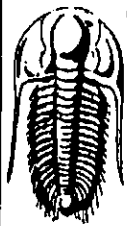
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
115.00	80%Water/20%Mud	1.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis, KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47230

DST#: 4

ATTN: Marc Downing

Test Start: 2012.05.10 @ 03:05:15

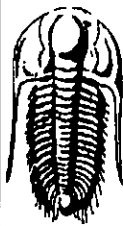
Tool Information

Drill Pipe:	Length: 3581.00 ft	Diameter: 3.80 inches	Volume: 50.23 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: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 50.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3590.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 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			3571.00	
Shut In Tool	5.00			3576.00	
Hydraulic tool	5.00			3581.00	
Packer	5.00			3586.00	20.00 Bottom Of Top Packer
Packer	4.00			3590.00	
Stubb	1.00			3591.00	
Perforations	5.00			3596.00	
Change Over Sub	1.00			3597.00	
Drill Pipe	32.00			3629.00	
Change Over Sub	1.00			3630.00	
Recorder	0.00	8354	Inside	3630.00	
Recorder	0.00	8520	Outside	3630.00	
Perforations	21.00			3651.00	
Bullnose	3.00			3654.00	64.00 Bottom Packers & Anchor
Total Tool Length:	84.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47230

DST#: 4

ATTN: Marc Dow ning

Test Start: 2012.05.10 @ 03:05:15

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:

36000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.18 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	80%Water/20%Mud	1.613

Total Length: 115.00 ft

Total Volume: 1.613 bbl

Num Fluid Samples: 0

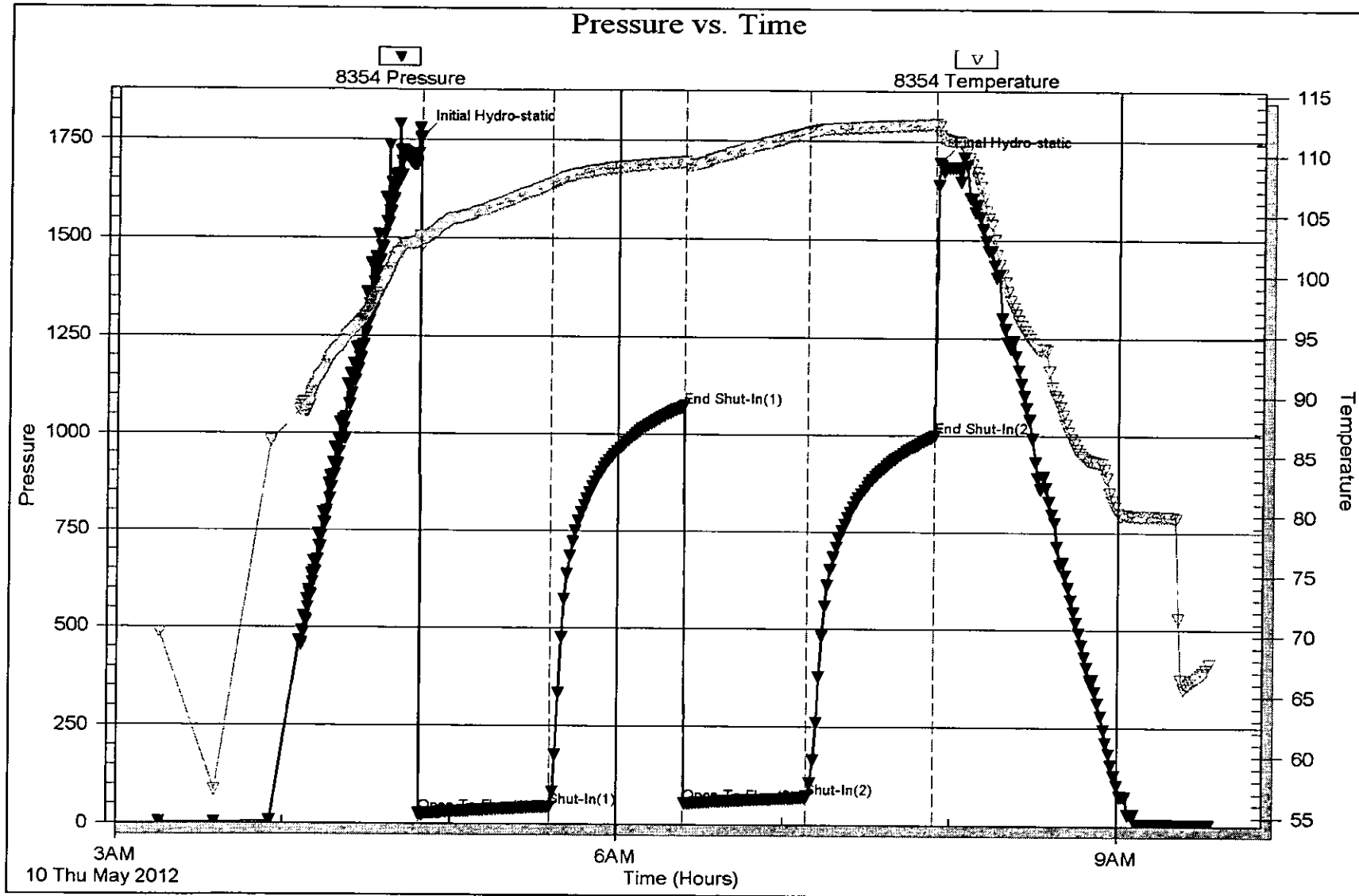
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

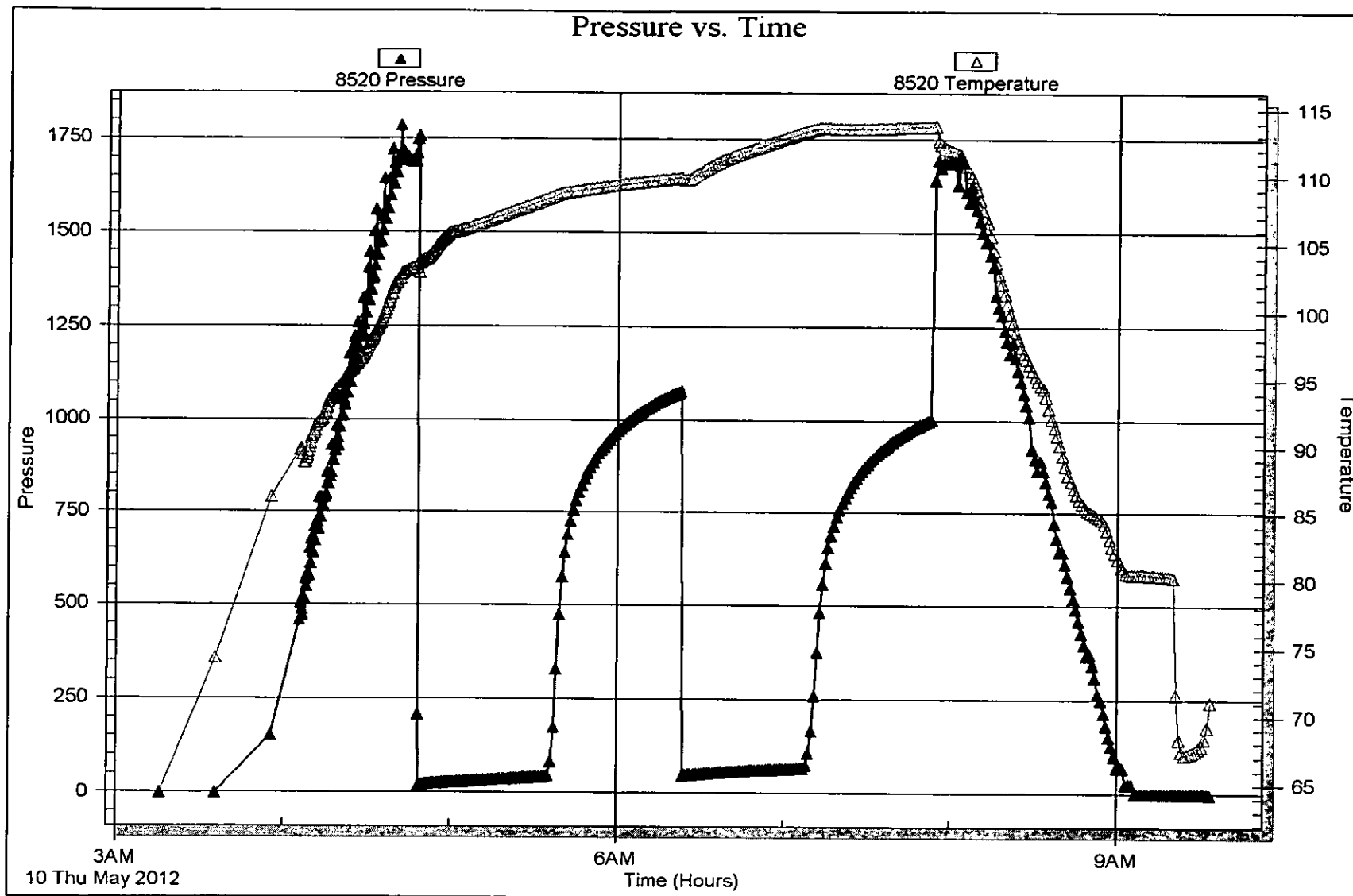


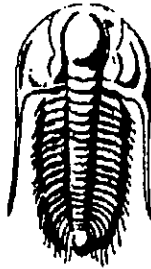
Serial #: 8520

Outside Downing-Nelson Oil Co., Inc.

Rita #1-18

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Rita #1-18

18-13s-18w Ellis,KS

Start Date: 2012.05.11 @ 06:22:15

End Date: 2012.05.11 @ 12:10:45

Job Ticket #: 47231 DST #: 5

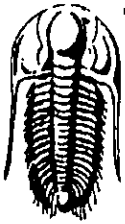
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.15 @ 08:55:47

Downing-Nelson Oil Co., Inc. 18-13s-18w Ellis,KS Rita #1-18 DST # 5 Arbuckle 2012.05.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47231

DST#: 5

ATTN: Marc Dow ning

Test Start: 2012.05.11 @ 06:22:15

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 07:46:05

Time Test Ended: 12:10:45

Test Type: **Conventional Straddle (Initial)**

Tester: **Dustin Rash**

Unit No: **38**

Interval: **3741.00 ft (KB) To 3778.00 ft (KB) (TVD)**

Total Depth: **3850.00 ft (KB) (TVD)**

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

Reference Elevations: **2139.00 ft (KB)**

2131.00 ft (CF)

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

Serial #: **8354**

Inside

Press@RunDepth: **23.84 psig @ 3742.00 ft (KB)**

Start Date: **2012.05.11**

End Date:

2012.05.11

Capacity: **8000.00 psig**

Last Calib.: **2012.05.11**

Start Time: **06:32:15**

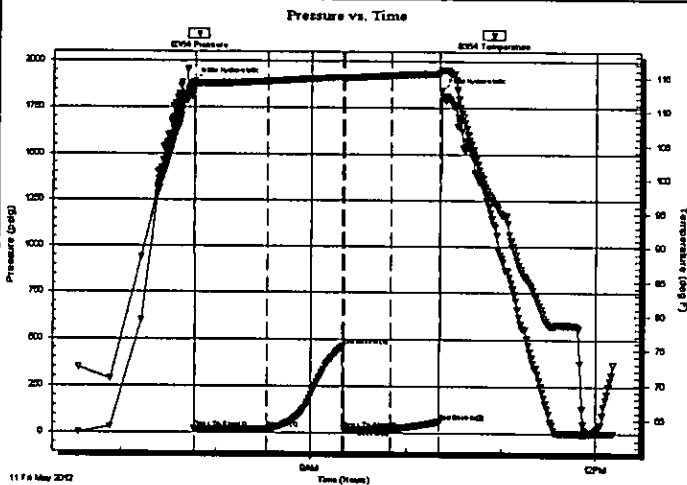
End Time:

12:10:45

Time On Btm: **2012.05.11 @ 07:45:45**

Time Off Btm: **2012.05.11 @ 10:21:45**

TEST COMMENT: IF-Very weak but building blow . Built to 2&1/2 inches . Died to 1&1/2 inches.
ISI-No Return.
FF-No Blow .
FSI-No Return.



PRESSURE SUMMARY

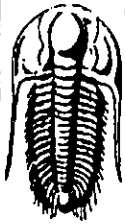
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.19	114.24	Initial Hydro-static
1	19.56	113.79	Open To Flow (1)
47	21.36	114.38	Shut-In(1)
94	463.17	115.05	End Shut-In(1)
95	23.95	114.98	Open To Flow (2)
125	23.84	115.27	Shut-In(2)
155	63.25	115.61	End Shut-In(2)
156	1839.68	116.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	10%Oil/90%Mud	0.17
8.00	10%Gas/90%Oil	0.11

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co., Inc.

18-13s-18w Ellis, KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47231

DST#: 5

ATTN: Marc Downing

Test Start: 2012.05.11 @ 06:22:15

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:46:05

Time Test Ended: 12:10:45

Test Type: Conventional Straddle (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3741.00 ft (KB) To 3778.00 ft (KB) (TVD)**

Total Depth: 3850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2139.00 ft (KB)

2131.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3742.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.11 End Date: 2012.05.11

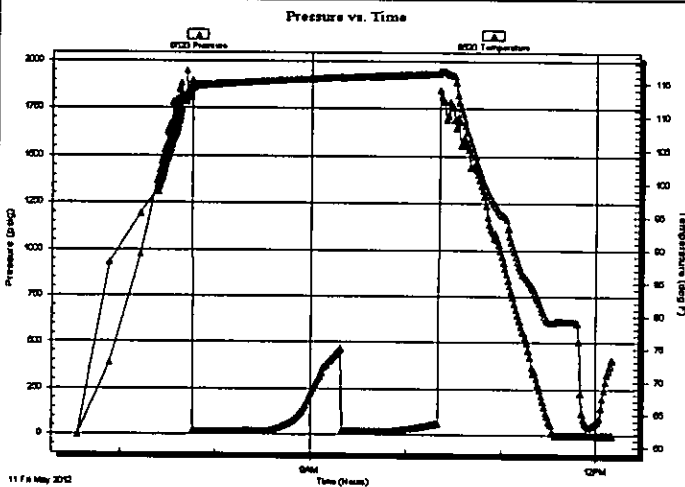
Last Calib.: 2012.05.11

Start Time: 06:32:30 End Time: 12:10:00

Time On Btrr:

Time Off Btrr:

TEST COMMENT: IF-Very weak but building blow. Built to 2&1/2 inches. Died to 1&1/2 inches.
IS-No Return.
FF-No Blow.
FSI-No Return.



PRESSURE SUMMARY

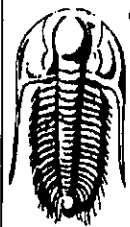
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
12.00	10%Oil/90%Mud	0.17
8.00	10%Gas/90%Oil	0.11

Gas Rates

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



TRIBOLITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47231

DST#: 5

ATTN: Marc Dow ning

Test Start: 2012.05.11 @ 06:22:15

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 07:46:05

Time Test Ended: 12:10:45

Test Type: **Conventional Straddle (Initial)**

Tester: **Dustin Rash**

Unit No: **38**

Interval: **3741.00 ft (KB) To 3778.00 ft (KB) (TVD)**

Total Depth: **3850.00 ft (KB) (TVD)**

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

Reference Elevations: **2139.00 ft (KB)**

2131.00 ft (CF)

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

Serial #: **8653** Below (Straddle)

Press@RunDepth: **psig @ 3783.00 ft (KB)**

Start Date: **2012.05.11**

End Date: **2012.05.11**

Capacity: **8000.00 psig**

Last Calib.: **2012.05.11**

Start Time: **06:22:46**

End Time: **12:09:15**

Time On Btm:

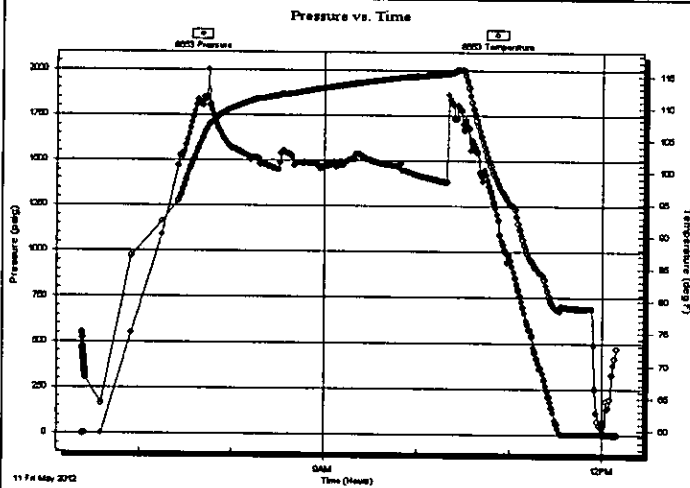
Time Off Btm:

TEST COMMENT: IF-Very weak but building blow . Built to 2&1/2 inches. Died to 1&1/2 inches.

ISI-No Return.

FF-No Blow .

FSI-No Return.



PRESSURE SUMMARY

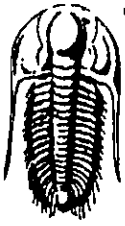
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
12.00	10%Oil/90%Mud	0.17
8.00	10%Gas/90%Oil	0.11

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.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47231

DST#: 5

ATTN: Marc Dow ning

Test Start: 2012.05.11 @ 06:22:15

Tool Information

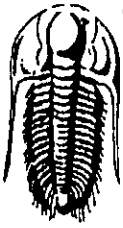
Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb
			Total Volume: 52.48 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: initial	58000.00 lb
Depth to Top Packer:	3741.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	3778.00 ft				
Interval between Packers:	37.00 ft				
Tool Length:	131.00 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			3722.00	
Shut In Tool	5.00			3727.00	
Hydraulic tool	5.00			3732.00	
Packer	5.00			3737.00	20.00 Bottom Of Top Packer
Packer	4.00			3741.00	
Stubb	1.00			3742.00	
Recorder	0.00	8354	Inside	3742.00	
Recorder	0.00	8520	Outside	3742.00	
Perforations	32.00			3774.00	
Blank Off Sub	1.00			3775.00	
Blank Spacing	3.00			3778.00	37.00 Tool Interval
Packer	2.00			3780.00	
Stubb	1.00			3781.00	
Perforations	1.00			3782.00	
Change Over Sub	1.00			3783.00	
Recorder	0.00	8653	Below	3783.00	
Drill Pipe	63.00			3846.00	
Change Over Sub	1.00			3847.00	
Perforations	2.00			3849.00	
Bullnose	3.00			3852.00	74.00 Bottom Packers & Anchor

Total Tool Length: 131.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

18-13s-18w Ellis,KS

PO Box 1019
Hays, KS 67601

Rita #1-18

Job Ticket: 47231

DST#: 5

ATTN: Marc Dow ning

Test Start: 2012.05.11 @ 06:22:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 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
12.00	10%Oil/90%Mud	0.168
8.00	10%Gas/90%Oil	0.112

Total Length: 20.00 ft

Total Volume: 0.280 bbl

Num Fluid Samples: 0

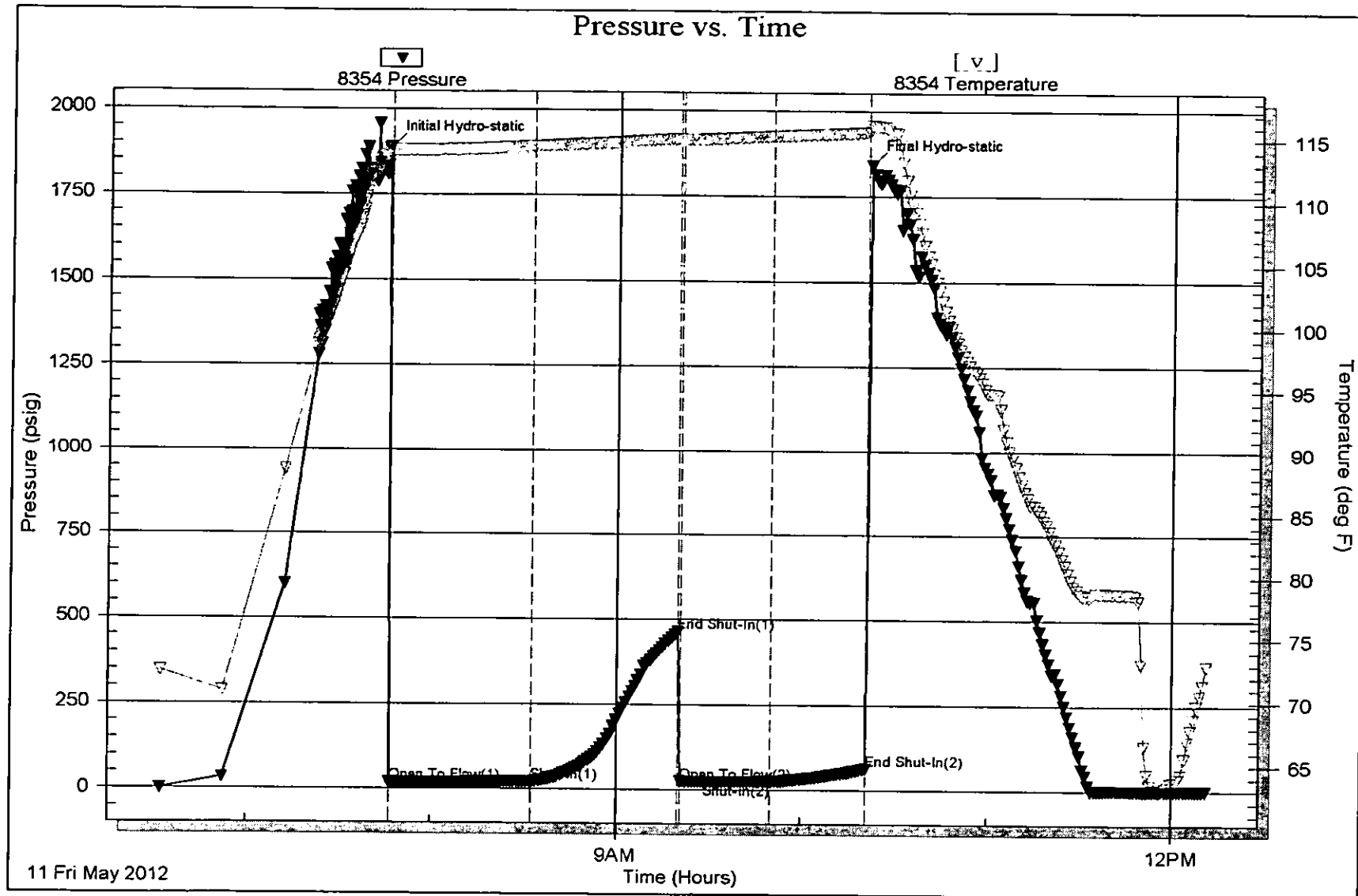
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

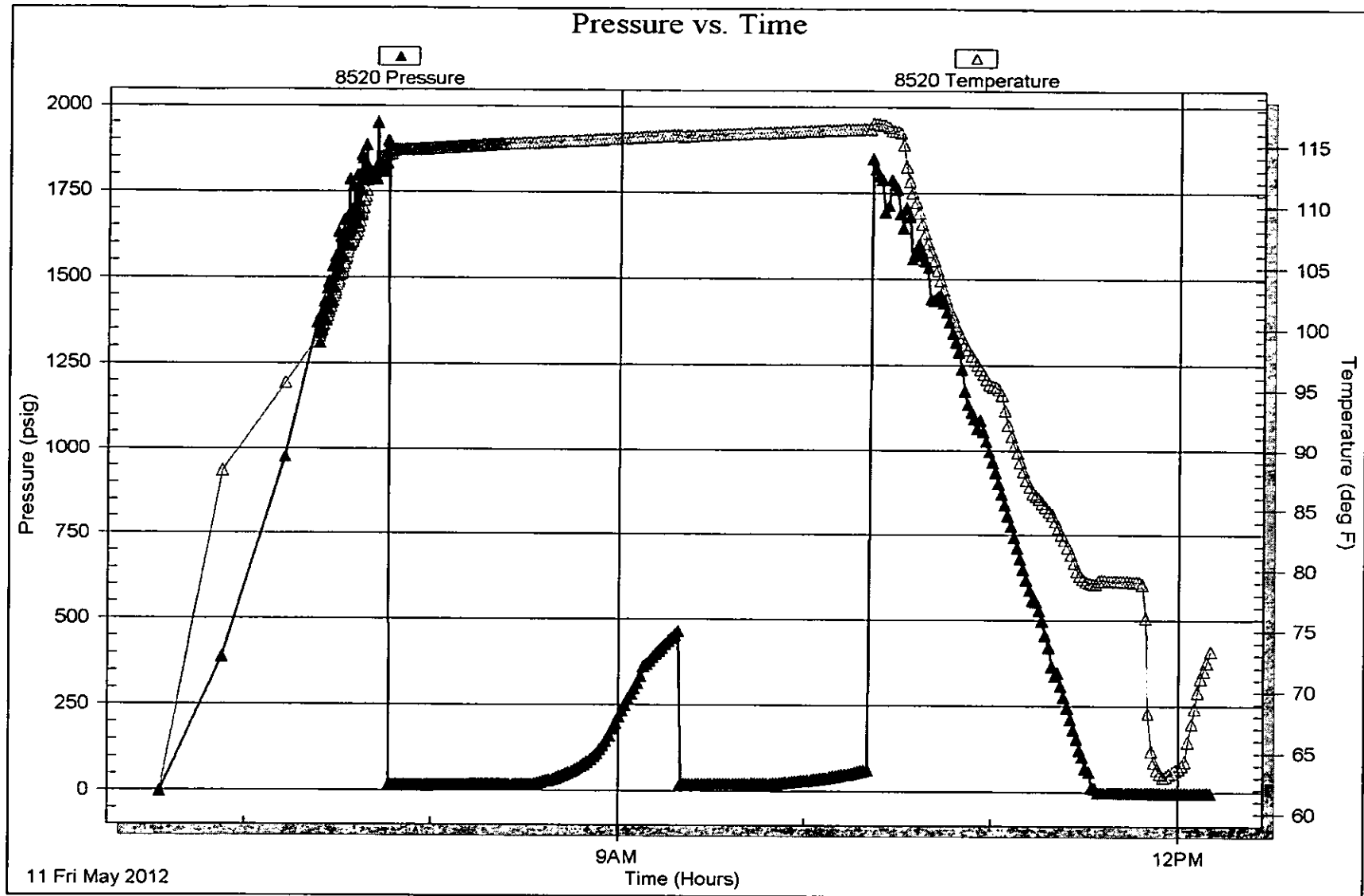


Serial #: 8520

Outside Downing-Nelson Oil Co., Inc.

Rita #1-18

DST Test Number: 5

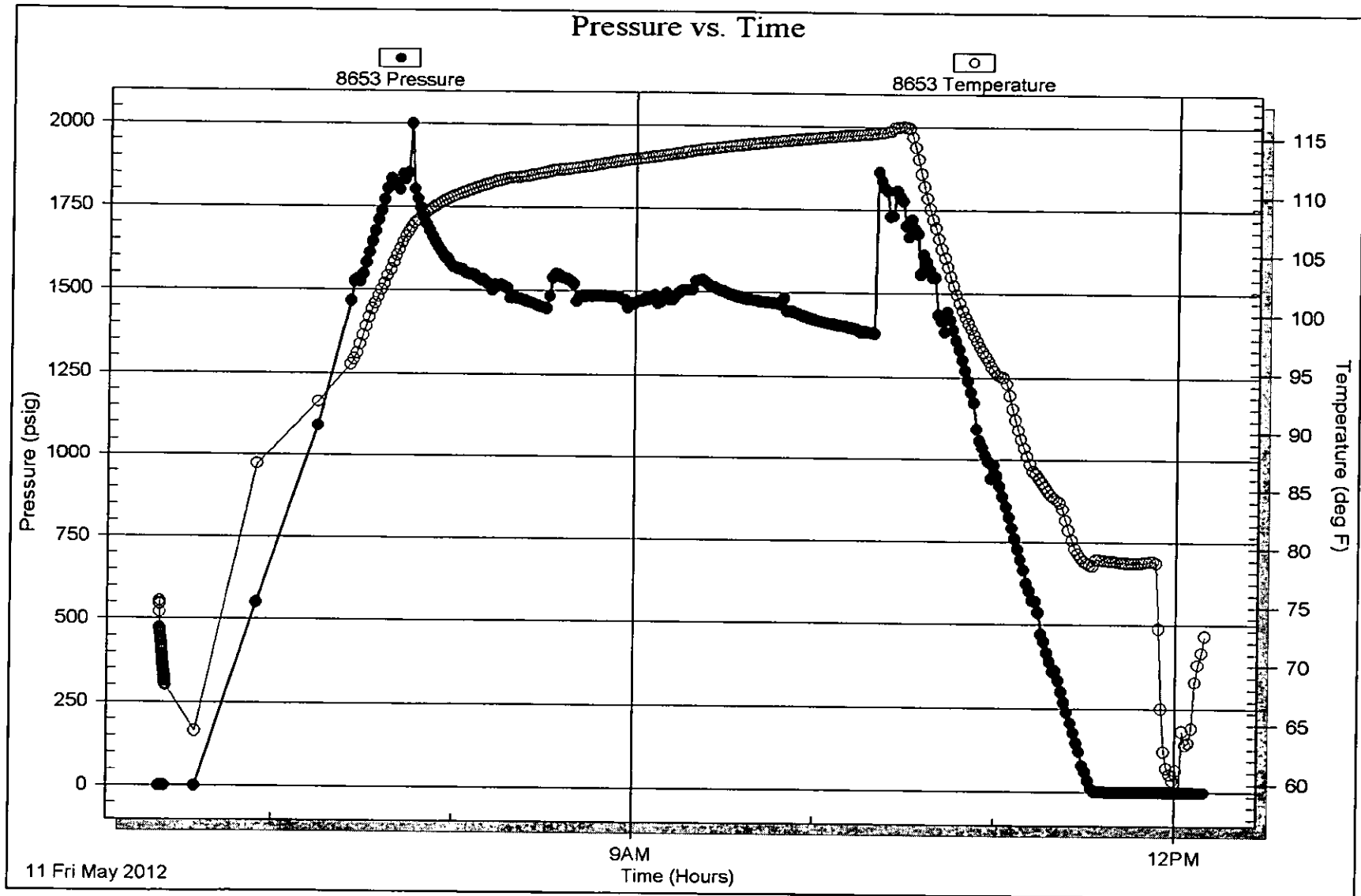


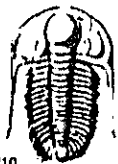
Serial #: 8653

Below (Stratling-Nelson Oil Co., Inc.)

Rita #1-18

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47221

Well Name & No. Rita #1-18 Test No. 7 Date 5-8-12
 Company Downing-Nelson Oil Co., Inc. Elevation 2139 KB 2131 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Maac Downing Rig Discovery 3
 Location: Sec. 18 Twp. 13S Rge. 18W Co. Ellis State KS

Interval Tested 3488-3536 Zone Tested LKC "C40"
 Anchor Length 48' Drill Pipe Run 3486 Mud Wt. 8.8
 Top Packer Depth 3483 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3488 Wt. Pipe Run 0 WL 8.8
 Total Depth 3536 Chlorides 2000 ppm System LCM 2#

Blow Description IF - Weak surface blow @ 18 minutes Built to 1 1/2 inches.
EST - No Return.
FF - Weak building blow. Built to 8 inches.
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>	<u>15</u>		<u>85</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	Feet of	%gas	%oil	%water	%mud

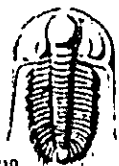
Rec Total 30 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1700 Test T-On Location 1015
 (B) First Initial Flow 34 Jars T-Started 1100
 (C) First Final Flow 29 Safety Joint T-Open 1235
 (D) Initial Shut-In 96 Circ Sub T-Pulled 1505
 (E) Second Initial Flow 29 Hourly Standby T-Out 1630
 (F) Second Final Flow 32 Mileage 5X2 15.50 Comments BATT-1058
 (G) Final Shut-In 340 Sampler
 (H) Final Hydrostatic 1639 Straddle

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 30 Ruined Packer
 Final Flow 45 Extra Packer
 Final Shut-In 45 Extra Recorder
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1165.50 MP-DST Disc't

Approved By _____ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged or 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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47228

Well Name & No	Rita #1-18	Test No	2	Date	5-8-12
Company	Downing-Nelson Oil Co., Inc.	Elevation	2139	KB	2131 GL
Address	P.O. Box 1019 Hays, KS 67601				
Co. Rep / Geo.	Maac Downing	Rig	Discovery-3		
Location: Sec.	18	Twp.	13S	Rge.	18W
		Co.	Ellis	State	KS

Interval Tested	3532-3559	Zone Tested	LKC "E+H"
Anchor Length	27	Drill Pipe Run	3519
Top Packer Depth	3527	Drill Collars Run	0
Bottom Packer Depth	3532	Wt. Pipe Run	0
Total Depth	3532 3559	Chlorides	2000 ppm System LCM 2#

Blow Description IF-Weak surface blow. Dried @ 14 minutes.
 FSI- No Return.
 FF-Weak surface blow. Dried @ 4 minutes.
 FSI- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
15	Mud w/Few oil specks				100%
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	15	BHT	108	Gravity	API RW	@	F Chlorides	ppm
(A) Initial Hydrostatic	1717	<input checked="" type="checkbox"/> Test		T-On Location	2230			
(B) First Initial Flow	22	<input type="checkbox"/> Jars		T-Started	2315			
(C) First Final Flow	24	<input type="checkbox"/> Safety Joint		T-Open	0029			
(D) Initial Shut-In	869	<input type="checkbox"/> Circ Sub		T-Pulled	0235			
(E) Second Initial Flow	25	<input type="checkbox"/> Hourly Standby		T-Out	0400			
(F) Second Final Flow	27	<input checked="" type="checkbox"/> Mileage	5X2 15.50	Comments	Bar 2306			
(G) Final Shut-In	803	<input type="checkbox"/> Sampler						
(H) Final Hydrostatic	1625	<input type="checkbox"/> Straddle						

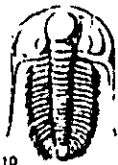
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

<input type="checkbox"/> Ruined Shale Packer
<input type="checkbox"/> Ruined Packer
<input type="checkbox"/> Extra Copies
Sub Total 0
Total 1165.50
MP/DST Disc't

Approved By _____

Our Representative

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, too's lost or damaged in the hole shall be paid for at cost by the party for whom the test is made



TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47229

Well Name & No.	Rita # 1-18	Test No.	3	Date	5-9-12
Company	Downing-Nelson Oil Co., Inc.	Elevation	2139	KB	2131 GL
Address	P.O. Box 1019 Hays, KS 67601	Rig	Discovery 3		
Co. Rep / Geo.	Malc Downing	Location: Sec.	18	Twp.	13S
		Rge.	18W	Co.	ELLIS
				State	KS

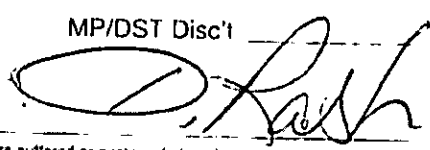
Interval Tested	3563-3595	Zone Tested	LKC "6"
Anchor Length	32'	Drill Pipe Run	3550
Top Packer Depth	3558	Drill Collars Run	0
Bottom Packer Depth	3563	Wt. Pipe Run	0
Total Depth	3595	Chlorides	3500 ppm System LCM 2#

Blow Description: IF - Weak building blow, BOB in 26 minutes, IST - No Return, FF - Very weak building blow, BOB in 43 minutes 30 seconds, FST - No Return.

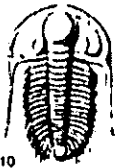
Rec	Feet of	%gas	%oil	%water	%mud
290	Muddy water			90	10
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total	290	BHT	119	Gravity	API RW 114 @ 88° F Chlorides 52000 ppm
(A) Initial Hydrostatic	1730	<input checked="" type="checkbox"/> Test	1150	T-On Location	1045
(B) First Initial Flow	24	<input type="checkbox"/> Jars		T-Started	1130
(C) First Final Flow	73	<input type="checkbox"/> Safety Joint		T-Open	1312
(D) Initial Shut-In	839	<input type="checkbox"/> Circ Sub		T-Pulled	1615
(E) Second Initial Flow	84	<input type="checkbox"/> Hourly Standby		T Out	1750
(F) Second Final Flow	121	<input checked="" type="checkbox"/> Mileage	5X2 15.50	Comments	BHT-1117
(G) Final Shut-In	783	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	1692	<input type="checkbox"/> Straddle			

Initial Open	45	<input type="checkbox"/> Ruined Shale Packer	
Initial Shut-In	45	<input type="checkbox"/> Ruined Packer	
Final Flow	45	<input type="checkbox"/> Extra Copies	
Final Shut-In	45	Sub Total	0
		Total	1165.50
		MP/DST Disc't	

Approved By _____ Our Representative 

Triobite 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47230

Well Name & No.	Rita # 1-18	Test No.	4	Date	5-10-12
Company	Downing-Nelson Oil Co., Inc.	Elevation	2139	KB	2131 GL
Address	P.O. Box 1019 Hays, KS 67601	Rig	Discovery 3		
Co. Rep / Geo	Marc Downing	Co.	Ellis	State	KS
Location: Sec.	18	Twp.	13S	Rge.	18W

Interval Tested	3590-3654	Zone Tested	LKC "H-J"
Anchor Length	64'	Drill Pipe Run	3581
Top Packer Depth	3585	Drill Collars Run	0
Bottom Packer Depth	3590	Wt. Pipe Run	0
Total Depth	3654	Chlorides	3500 ppm System
		Mud Wt.	9.0
		Vis	56
		WL	8.0
		LCM	2#

Blow Description
 IF - Very weak building blow. Built to 5 1/2 inches.
 IS - No Return.
 FI - Very weak building blow. Built to 4 1/4 inches.
 FS - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
115	Muddy water			80%	20%

Rec Total	115	BHT	113	Gravity	API RW : 180 @ 77 °F	Chlorides	36,000 ppm
(A) Initial Hydrostatic	1758	<input checked="" type="checkbox"/>	Test	T-On Location	0215		
(B) First Initial Flow	26	<input type="checkbox"/>	Jars	T-Started	0315		
(C) First Final Flow	44	<input type="checkbox"/>	Safety Joint	T-Open	0450		
(D) Initial Shut-In	1073	<input type="checkbox"/>	Circ Sub	T-Pulled	0750		
(E) Second Initial Flow	55	<input type="checkbox"/>	Hourly Standby	T-Out	0930		
(F) Second Final Flow	70	<input checked="" type="checkbox"/>	Mileage	5X2	15.50		Comments: BHT-0305
(G) Final Shut-In	999	<input type="checkbox"/>	Sampler				
(H) Final Hydrostatic	1696	<input type="checkbox"/>	Straddle				
Initial Open	45	<input type="checkbox"/>	Shale Packer				<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	45	<input type="checkbox"/>	Extra Packer				<input type="checkbox"/> Ruined Packer
Final Flow	45	<input type="checkbox"/>	Extra Recorder				<input type="checkbox"/> Extra Copies
Final Shut-In	45	<input type="checkbox"/>	Day Standby				Sub Total 0
		<input type="checkbox"/>	Accessibility				Total 1165.50
Approved By		Sub Total	1165.50	MP/DST Disc 1			

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, too's lost or damaged in the hole shall be paid for at cost by the party for whom the test is made



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47231

Well Name & No.	Rita # 1-18	Test No.	5	Date	5-11-12
Company	Downing-Nelson Oil Co, Inc.	Elevation	2139	KB	2131 GL
Address	P.O. Box 1019 Hays, KS 67601				
Co. Rep / Geo.	Maie Downing	Rig	Discovery 3		
Location: Sec.	18	Twp.	13S	Rge.	18W
		Co.	Ellis	State	KS

Interval Tested	3741-3778	Zone Tested	Ambuchile
Anchor Length	37' 22" TP	Drill Pipe Run	3741
Top Packer Depth	3736	Drill Collars Run	0
Bottom Packer Depth	3741	Wt. Pipe Run	0
Total Depth	3850	Chlorides	4000 ppm System
			LCM 1 1/2 #

Blow Description IF - Very weak but building blow. Built to 2 1/2 inches. Died to 1 1/2 inches.
 ISE - No Return.
 FF - No Blow.
 FSE - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
8	Gassy Oil	10	90		
12	OCM		10		90

Rec Total	20	BHT	Gravity	28	API RW	@	F Chlorides	ppm
(A) Initial Hydrostatic	1887		<input checked="" type="checkbox"/> Test				T-On Location	0445
(B) First Initial Flow	20		<input type="checkbox"/> Jars				T-Started	0630
(C) First Final Flow	21		<input type="checkbox"/> Safety Joint				T-Open	0746
(D) Initial Shut-In	463		<input type="checkbox"/> Circ Sub				T-Pulled	1020
(E) Second Initial Flow	24		<input type="checkbox"/> Hourly Standby				T-Out	1215
(F) Second Final Flow	24		<input checked="" type="checkbox"/> Mileage	5X2	15.50		Comments	Boat-0622
(G) Final Shut-In	63		<input type="checkbox"/> Sampler					
(H) Final Hydrostatic	1840		<input checked="" type="checkbox"/> Straddle	600			<input type="checkbox"/> Ruined Shale Packer	

Initial Open	45
Initial Shut-In	45
Final Flow	30
Final Shut-In	30

<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer	
<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies	
<input type="checkbox"/> Extra Recorder	Sub Total	0
<input type="checkbox"/> Day Standby	Total	1765.50
<input type="checkbox"/> Accessibility	MP/DST Disc't	
Sub Total		1765.50

Approved By _____ Our Representative *D. Rosh*

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