



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
---	--	--

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6675

Date 5-11-13	Sec. 32	Twp. 9	Range 23	County Graham	State KS	On Location	Finish 4:30 P.M.
				Location 283 and Redline 2w, 3/4 S w n 2			

Lease Mitchell-Davignon	Well No. 2-32	Owner 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.
Contractor Discovery 1		
Type Job Surface		
Hole Size 12 1/4	T.D. 221	Charge To Dawning-Nelson
Csg. 8 5/8	Depth 221	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 20	Shoe Joint 20	Cement Amount Ordered 150 com 3%oc 2%gel

Meas Line	Displace 12 3/4 bbl	Common 150
EQUIPMENT		
Pumptrk 5	No. Cementer Helper Billy	Poz. Mix
Bulktrk 12	No. Driver Chad	Gel. 3
Bulktrk PU	No. Driver Travis	Calcium 5

JOB SERVICES & REMARKS	Hulls
Remarks: Cement did circulate	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling 158
	Mileage

	FLOAT EQUIPMENT
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge Surface	
Mileage 44	
	Tax
	Discount
	Total Charge

X Signature *Cliff Marshall*

JOB LOG

SWIFT Services, Inc.

DATE 5-17-13 PAGE NO. 7

CUSTOMER *Lawrence & Nelson* WELL NO. *232* LEASE *Mitchell-Davignon* JOB TYPE *Cement Lugs string* TICKET NO. *24589*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
<i>5/17</i>	<i>2100</i>					<i>147</i>	<i>5 1/2</i>	<i>TD 4062</i>	<i>On location / Floor Equip. Rig LDDC</i>
	<i>2220</i>								<i>Start 5 1/2 - 14 #1 of CS to 4061 1/2</i>
									<i>Insert Float Shoe (2) / F71-100</i>
									<i>55-18' L.V. Baffle @ 4043 1/2</i>
									<i>Ceet 1-3-5-7-9-11-13-48</i>
									<i>Cement Baskets - 24-49 - Pin End</i>
									<i>D.V. Tool #49 @ 2063.56</i>
									<i>Drop ferrule ball 5 fts and</i>
<i>5/17</i>	<i>2345</i>								<i>Fin recessing - Tag & Log St Down</i>
<i>5/17</i>	<i>2400</i>								<i>Start CRP / Rotate casing</i>
<i>5/18</i>	<i>0030</i>								<i>Fin CRP - Ready for 1st stage</i>
		<i>5</i>	<i>12</i>						<i>Pump 50 gal Merd Flush</i>
		<i>6</i>	<i>20</i>						<i>Pump 20 BBL KCL Flush</i>
		<i>4 1/2</i>							<i>Start 150 SK EA-2 ceet</i>
		<i>4 1/2</i>	<i>36</i>						<i>Fin ceet - Wash Pump Lines</i>
		<i>9</i>							<i>500 P.U.L.D Plug - Start Displ</i>
		<i>8</i>	<i>75</i>						<i>400 Caught ceet 1st @ 25881</i>
		<i>5 1/2</i>	<i>98 1/2</i>						<i>1000 Plug Down - Hold - Release & Hold</i>
									<i>Drop D.V. Opening Tool</i>
			<i>7 1/4</i>						<i>Plug RH 30 SKS SUD ceet 14H-15 SKS ceet</i>
		<i>0 1/2</i>							<i>1150 Open D.V. - Fin Flush</i>
		<i>5 1/4</i>							<i>200 Start SUD ceet</i>
		<i>6</i>							<i>Fin ceet - Drop D.V. Closing Plug</i>
		<i>5</i>							<i>200 Start Displ</i>
	<i>0215</i>								<i>500 Plug Down - 10 SKS ceet to Pet</i>
									<i>D.V. Closed - Release & Hold</i>
									<i>Job Complete</i>
	<i>0230</i>								<i>Wash up & Pack up TR</i>

Isaac
Isaac



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

32-9s-23w Graham,KS

Mitchell-Davignon #2-32

Start Date: 2013.05.15 @ 12:45:59

End Date: 2013.05.15 @ 19:05:23

Job Ticket #: 52575 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.22 @ 09:40:39

Downing-Nelson Oil Co Inc

Mitchell-Davignon #2-32

32-9s-23w Graham,KS

DST # 1

LKC-C-D

2013.05.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52575

DST#: 1

Test Start: 2013.05.15 @ 12:45:59

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:54

Time Test Ended: 19:05:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3805.00 ft (KB) To 3856.00 ft (KB) (TVD)

Reference Elevations: 2469.00 ft (KB)

Total Depth: 3856.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 488.52 psig @ 3821.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.15

End Date:

2013.05.15

Last Calib.: 2013.05.15

Start Time: 12:45:59

End Time:

19:05:23

Time On Btm: 2013.05.15 @ 14:03:39

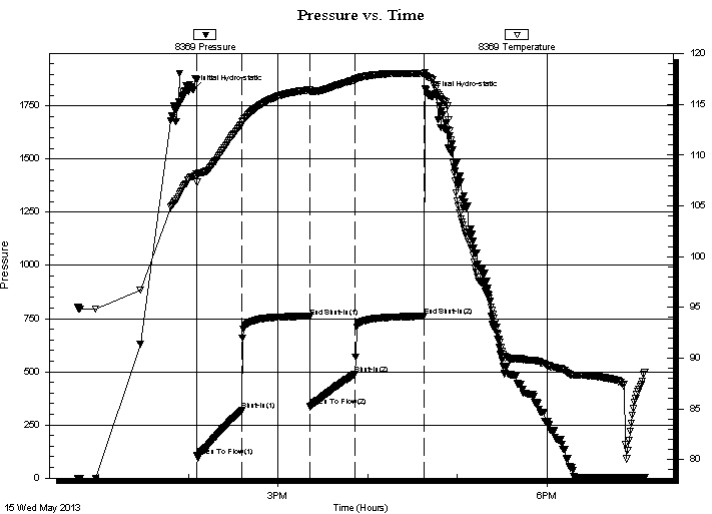
Time Off Btm: 2013.05.15 @ 16:41:39

TEST COMMENT: 30-IFP-w k to strg in 8 min

45-ISIP-no bl

30-FFP-w k to a gd bl 1/4" to 8" bl

45-FSIP-no bl



PRESSURE SUMMARY

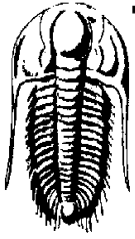
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.64	107.86	Initial Hydro-static
3	105.01	107.32	Open To Flow (1)
32	317.26	113.04	Shut-In(1)
78	759.31	116.43	End Shut-In(1)
78	336.75	116.29	Open To Flow (2)
108	488.52	117.44	Shut-In(2)
154	761.77	118.03	End Shut-In(2)
158	1797.14	117.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Water	8.14
120.00	SO&GCMW 5%G3%O20%M72%W	1.68
230.00	O&GCMW 10%G10%O35%M45%W	3.23
25.00	CO	0.35
0.00	300'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52575 **DST#: 1**

Test Start: 2013.05.15 @ 12:45:59

GENERAL INFORMATION:

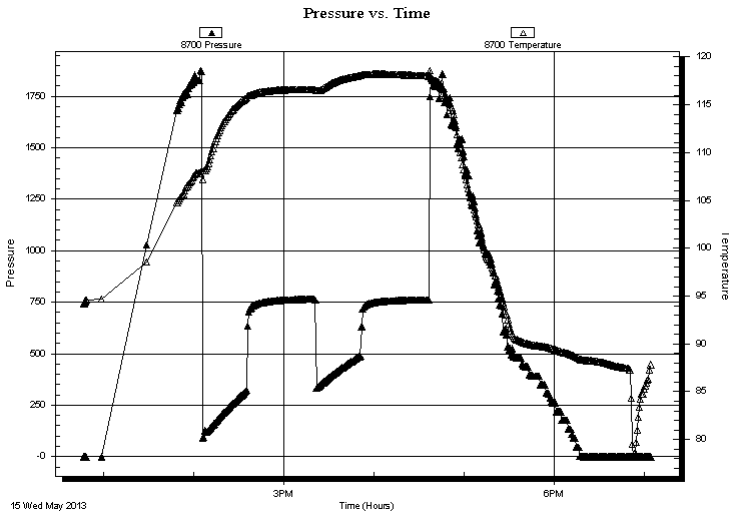
Formation: **LKC C-D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:05:54
 Tester: Ray Schwager
 Time Test Ended: 19:05:23
 Unit No: 42
Interval: 3805.00 ft (KB) To 3856.00 ft (KB) (TVD)
 Reference Elevations: 2469.00 ft (KB)
 Total Depth: 3856.00 ft (KB) (TVD)
 2461.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press @ RunDepth: psig @ 3821.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.15 End Date: 2013.05.15 Last Calib.: 2013.05.15
 Start Time: 12:46:29 End Time: 19:04:53 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 8 min
 45-ISIP-no bl
 30-FFP-w k to a gd bl 1/4" to 8" bl
 45-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Water	8.14
120.00	SO&GCMW 5%G3%O20%M72%W	1.68
230.00	O&GCMW 10%G10%O35%M45%W	3.23
25.00	CO	0.35
0.00	300'GIP	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

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52575

DST#: 1

Test Start: 2013.05.15 @ 12:45:59

Tool Information

Drill Pipe:	Length: 3764.00 ft	Diameter: 3.80 inches	Volume: 52.80 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 52.95 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3805.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: slid tool 10'to bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3785.00	
Shut In Tool	5.00			3790.00	
Hydraulic tool	5.00			3795.00	
Packer	5.00			3800.00	21.00 Bottom Of Top Packer
Packer	5.00			3805.00	
Stubb	1.00			3806.00	
Perforations	15.00			3821.00	
Recorder	0.00	8369	Inside	3821.00	
Recorder	0.00	8700	Outside	3821.00	
Blank Spacing	32.00			3853.00	
Bullnose	3.00			3856.00	51.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

Job Ticket: 52575 **DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.05.15 @ 12:45:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 101000 ppm
Viscosity: 70.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.55 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

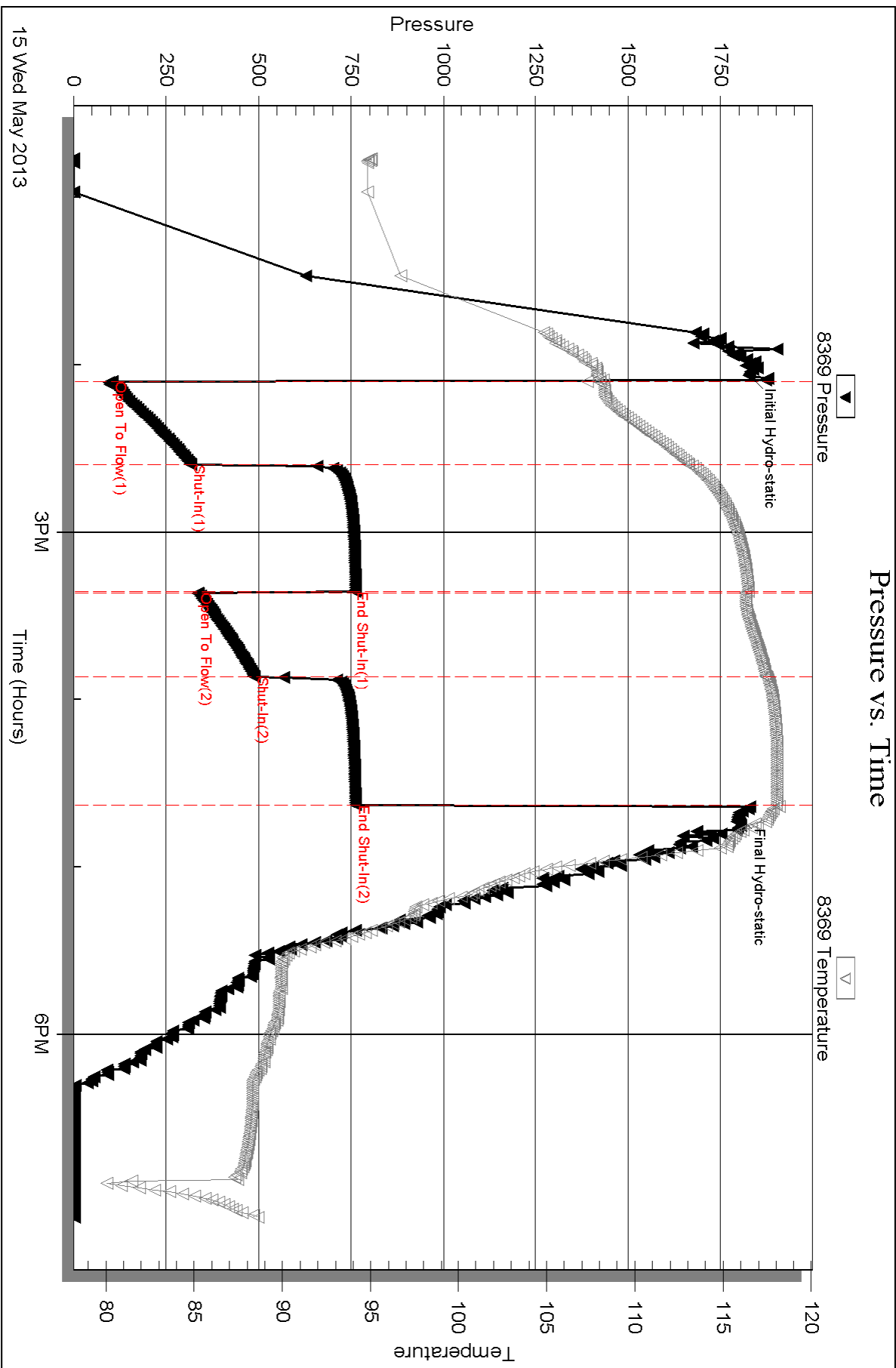
Length ft	Description	Volume bbl
600.00	Water	8.143
120.00	SO&GCMW 5%G3%O20%M72%W	1.683
230.00	O&GCMW 10%G10%O35%M45%W	3.226
25.00	CO	0.351
0.00	300'GIP	0.000

Total Length: 975.00 ft Total Volume: 13.403 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .07@75F

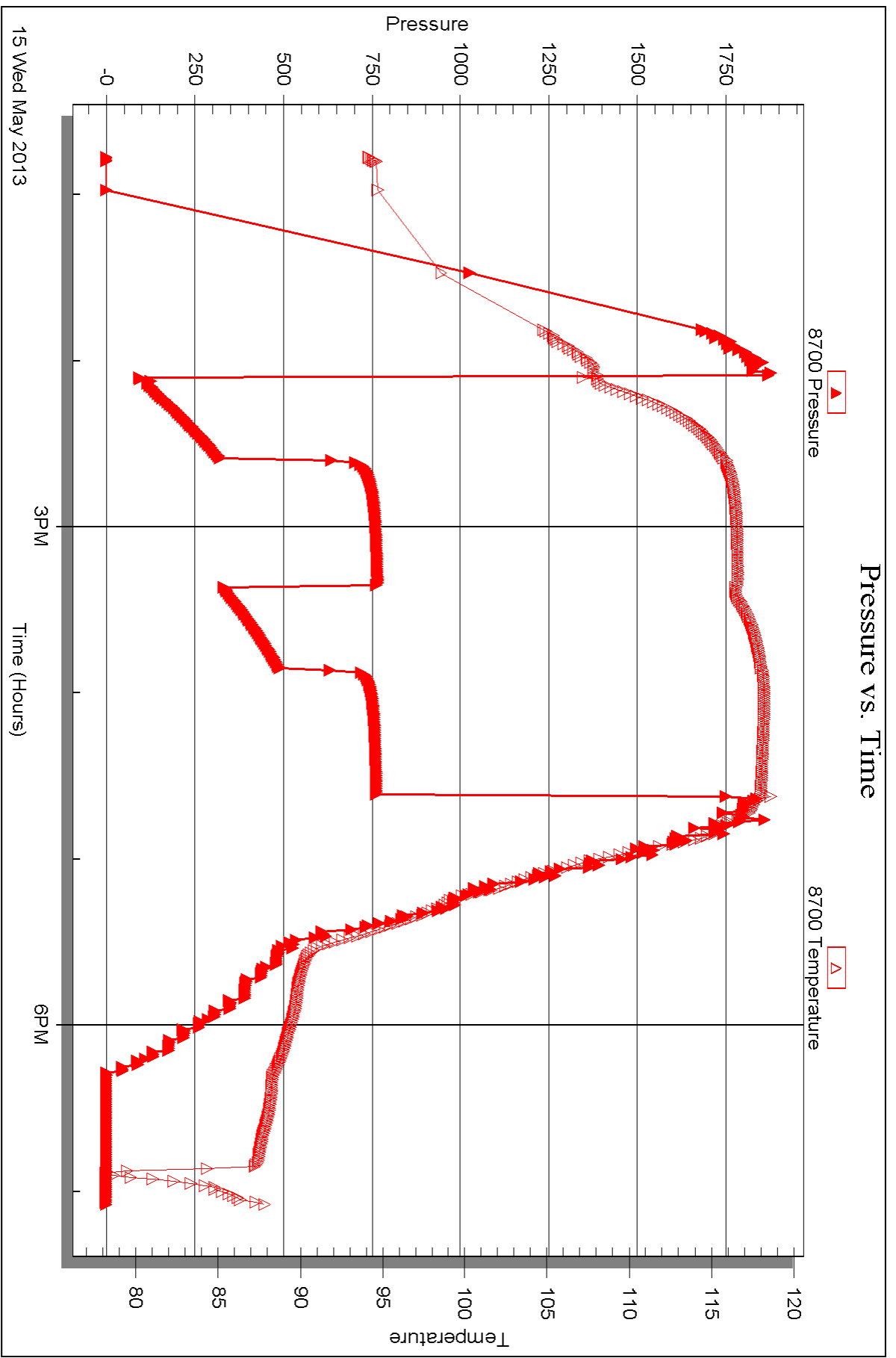


Serial #: 8700

Outside Dow nging-Nelson Oil Co Inc

32-95-23w Graham,KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52575

Printed: 2013.05.22 @ 09:40:43



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

32-9s-23w Graham,KS

Mitchell-Davignon #2-32

Start Date: 2013.05.16 @ 02:20:51

End Date: 2013.05.16 @ 07:38:15

Job Ticket #: 52076 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.22 @ 09:39:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52076

DST#: 2

Test Start: 2013.05.16 @ 02:20:51

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:46

Time Test Ended: 07:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3850.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2469.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 360.31 psig @ 3857.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date:

2013.05.16

Last Calib.:

2013.05.16

Start Time: 02:20:51

End Time:

07:38:15

Time On Btm:

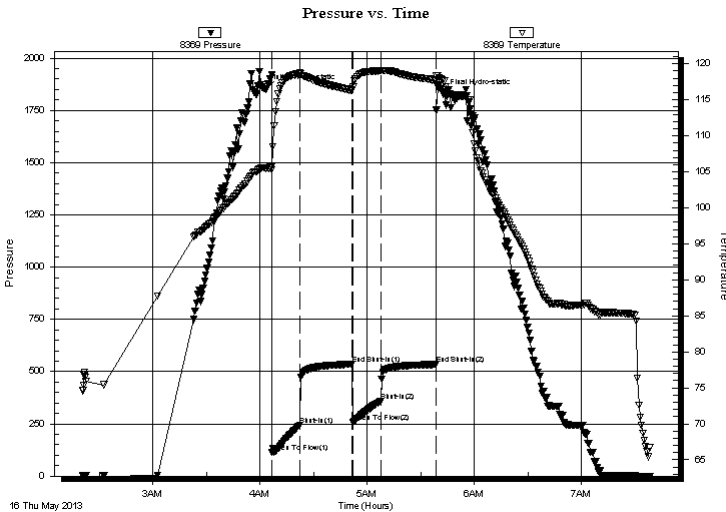
2013.05.16 @ 04:03:46

Time Off Btm:

2013.05.16 @ 05:42:31

TEST COMMENT: 15-IFP-w k to strg in 2 min
30-ISIP-no bl
15-FFP-w k to strg in 4 min
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.98	105.51	Initial Hydro-static
3	115.00	105.30	Open To Flow (1)
19	244.73	118.72	Shut-In(1)
48	535.87	116.30	End Shut-In(1)
49	259.37	116.79	Open To Flow (2)
64	360.31	119.04	Shut-In(2)
95	534.91	117.68	End Shut-In(2)
99	1828.60	117.70	Final Hydro-static

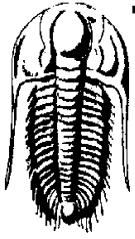
Recovery

Length (ft)	Description	Volume (bbl)
630.00	Water	8.56
60.00	MW 25%M75%W w/show of oil	0.84
0.00	60'GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52076

DST#: 2

Test Start: 2013.05.16 @ 02:20:51

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:46

Time Test Ended: 07:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3850.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2469.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press @ RunDepth: psig @ 3857.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date: 2013.05.16

Last Calib.: 2013.05.16

Start Time: 02:21:36

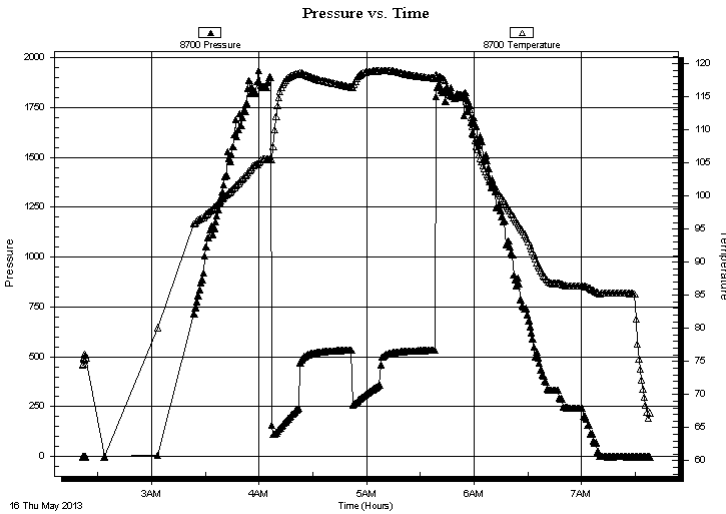
End Time: 07:38:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IFP-w k to strg in 2 min
30-ISIP-no bl
15-FFP-w k to strg in 4 min
30-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
630.00	Water	8.56
60.00	MW 25%M75%W w/show of oil	0.84
0.00	60'GIP	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

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52076

DST#: 2

Test Start: 2013.05.16 @ 02:20:51

Tool Information

Drill Pipe:	Length: 3820.00 ft	Diameter: 3.80 inches	Volume: 53.58 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 53.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3850.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	51.00 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			3830.00	
Shut In Tool	5.00			3835.00	
Hydraulic tool	5.00			3840.00	
Packer	5.00			3845.00	21.00 Bottom Of Top Packer
Packer	5.00			3850.00	
Stubb	1.00			3851.00	
Perforations	6.00			3857.00	
Recorder	0.00	8369	Inside	3857.00	
Recorder	0.00	8700	Outside	3857.00	
Perforations	20.00			3877.00	
Bullnose	3.00			3880.00	30.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

Job Ticket: 52076

DST#: 2

ATTN: Ron Nelson

Test Start: 2013.05.16 @ 02:20:51

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:

74000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	Water	8.564
60.00	MW 25%M75%W w/show of oil	0.842
0.00	60'GIP	0.000

Total Length: 690.00 ft Total Volume: 9.406 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

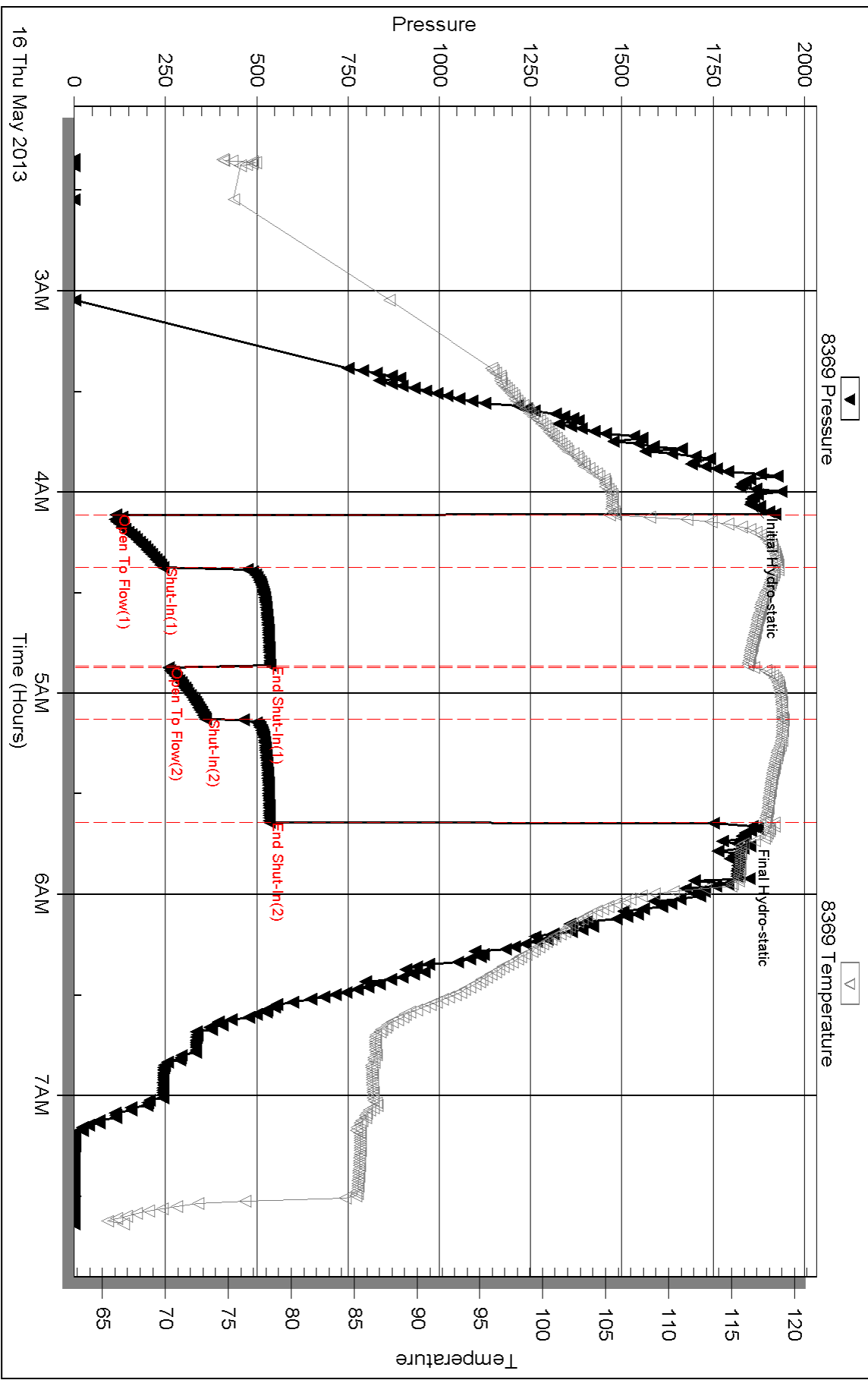
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11@73F

Pressure vs. Time



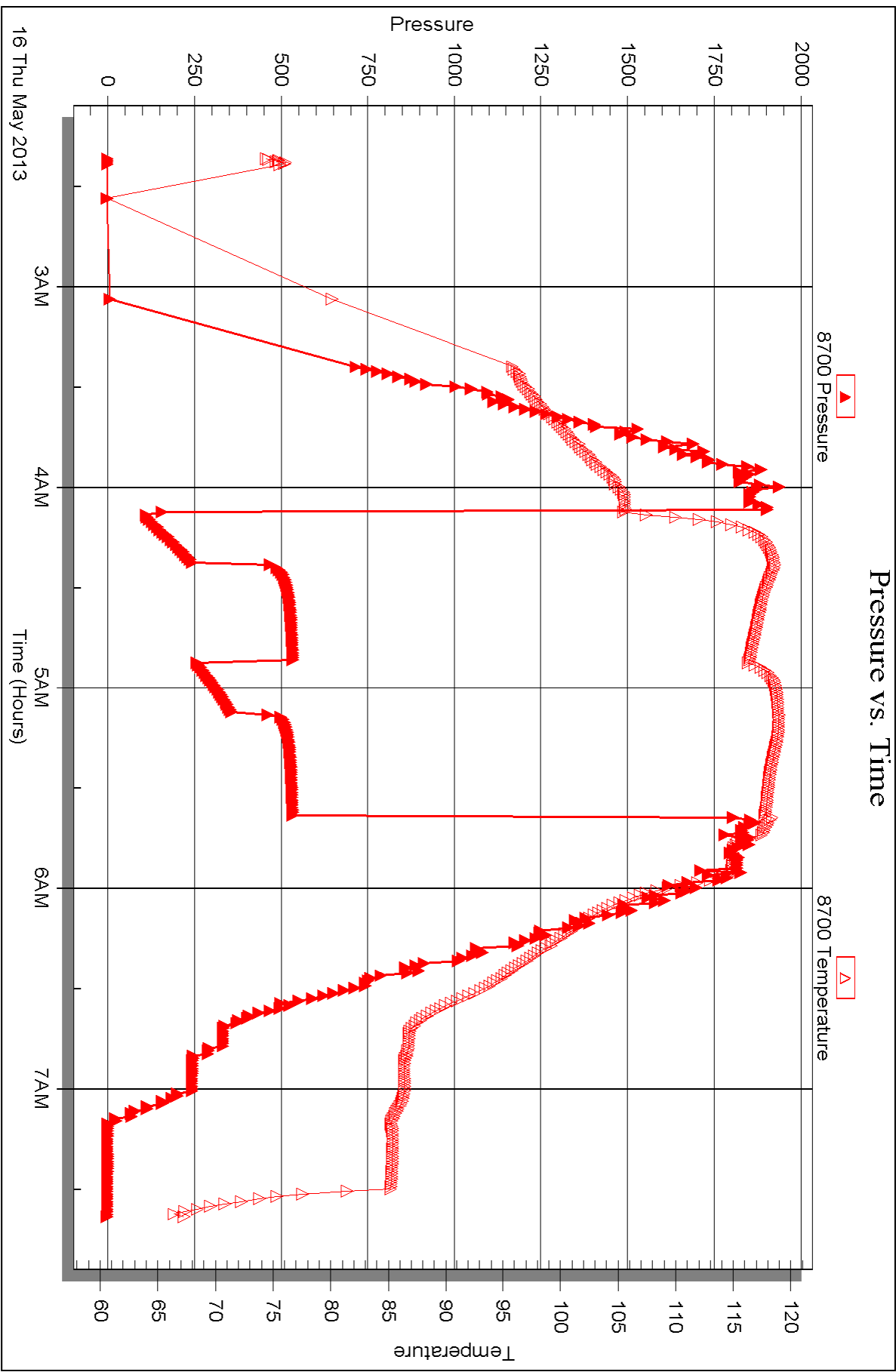
Serial #: 8700

Outside

Dow nting-Nelson Oil Co Inc

32-95-23w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

32-9s-23w Graham,KS

Mitchell-Davignon #2-32

Start Date: 2013.05.16 @ 17:15:07

End Date: 2013.05.16 @ 22:43:31

Job Ticket #: 52077 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.22 @ 09:39:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52077

DST#: 3

Test Start: 2013.05.16 @ 17:15:07

GENERAL INFORMATION:

Formation: **LKC- I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:51:02

Time Test Ended: 22:43:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 42

Interval: 3936.00 ft (KB) To 3954.00 ft (KB) (TVD)

Reference Elevations: 2469.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @RunDepth: 30.82 psig @ 3937.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date:

2013.05.16

Last Calib.:

2013.05.16

Start Time:

17:15:07

End Time:

22:43:31

Time On Btm:

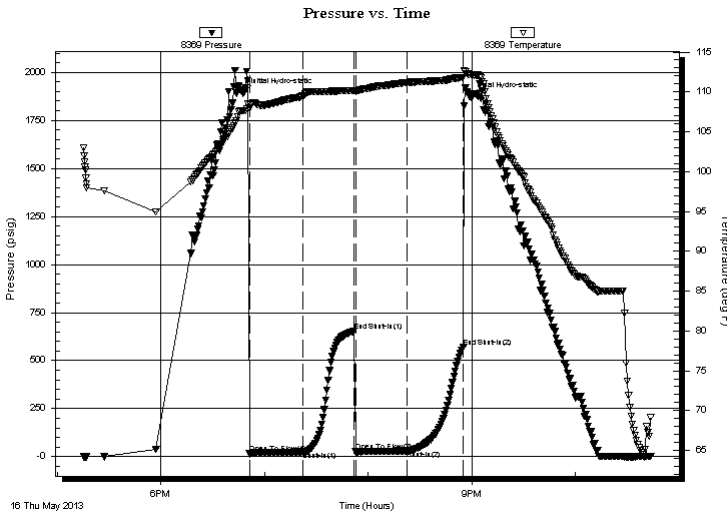
2013.05.16 @ 18:48:02

Time Off Btm:

2013.05.16 @ 20:58:47

TEST COMMENT: 30-IFP-w k bl thru-out surface to 1/4" bl
30-ISIP-no bl
30-FFP-w k bl thru-out surface to 1/4" bl
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.50	107.66	Initial Hydro-static
3	15.87	107.96	Open To Flow (1)
34	25.76	109.46	Shut-In(1)
64	653.84	110.17	End Shut-In(1)
65	26.33	110.08	Open To Flow (2)
95	30.82	111.16	Shut-In(2)
127	571.14	111.78	End Shut-In(2)
131	1873.60	112.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	HO&GCM 5%G20%O75%M	0.22
5.00	CO	0.07
0.00	60'GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52077

DST#: 3

Test Start: 2013.05.16 @ 17:15:07

GENERAL INFORMATION:

Formation: **LKC- I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:51:02

Time Test Ended: 22:43:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 42

Interval: 3936.00 ft (KB) To 3954.00 ft (KB) (TVD)

Reference Elevations: 2469.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press @RunDepth: psig @ 3937.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date: 2013.05.16

Last Calib.: 2013.05.16

Start Time: 17:15:37

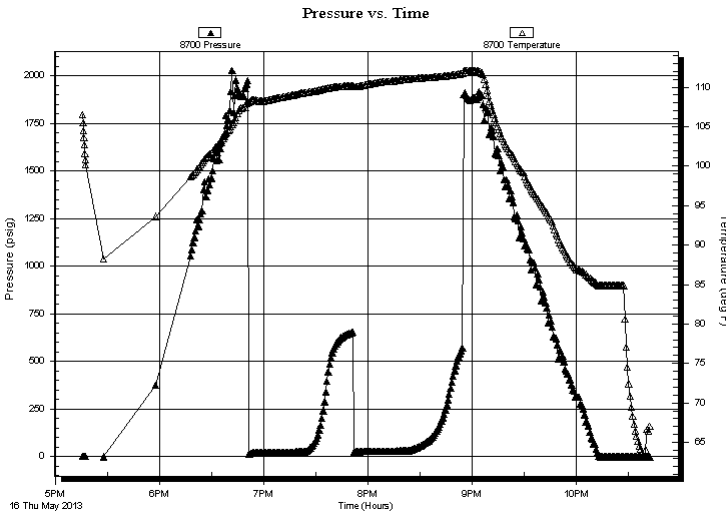
End Time: 22:43:01

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out surface to 1/4" bl
30-ISIP-no bl
30-FFP-w k bl thru-out surface to 1/4" bl
30-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	HO&GCM 5%G20%O75%M	0.22
5.00	CO	0.07
0.00	60'GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 52077

DST#: 3

Test Start: 2013.05.16 @ 17:15:07

Tool Information

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3936.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	39.00 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			3916.00	
Shut In Tool	5.00			3921.00	
Hydraulic tool	5.00			3926.00	
Packer	5.00			3931.00	21.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Stubb	1.00			3937.00	
Recorder	0.00	8369	Inside	3937.00	
Recorder	0.00	8700	Outside	3937.00	
Perforations	14.00			3951.00	
Bullnose	3.00			3954.00	18.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

Mitchell-Davignon #2-32

PO Box 1019
Hays KS 67601

32-9s-23w Graham,KS

Job Ticket: 52077

DST#: 3

ATTN: Ron Nelson

Test Start: 2013.05.16 @ 17:15:07

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	HO&GCM 5%G20%O75%M	0.218
5.00	CO	0.070
0.00	60'GIP	0.000

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

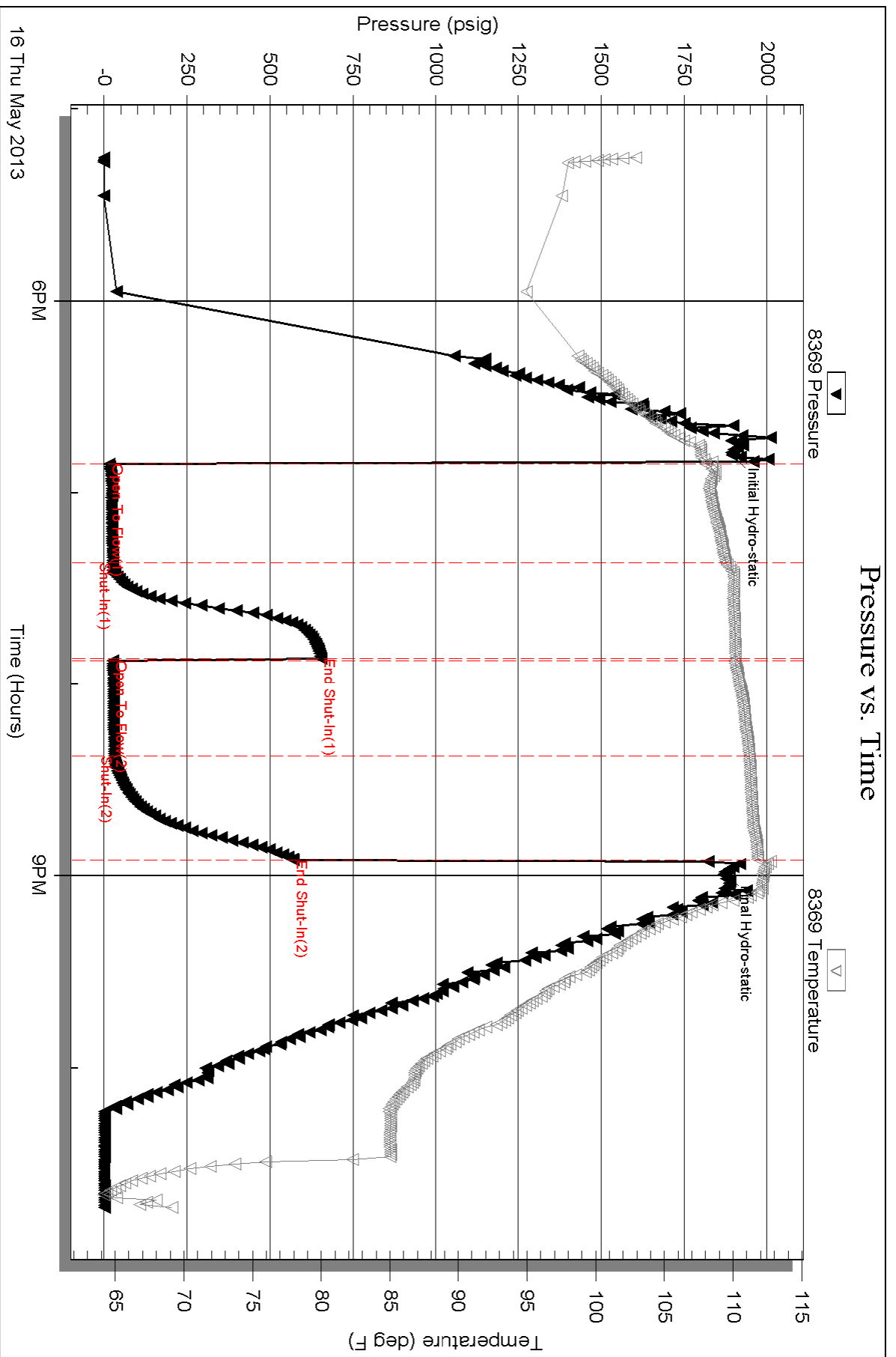
Serial #: 8369

Inside

Dow nting-Nelson Oil Co Inc

32-95-23w Graham,KS

DST Test Number: 3

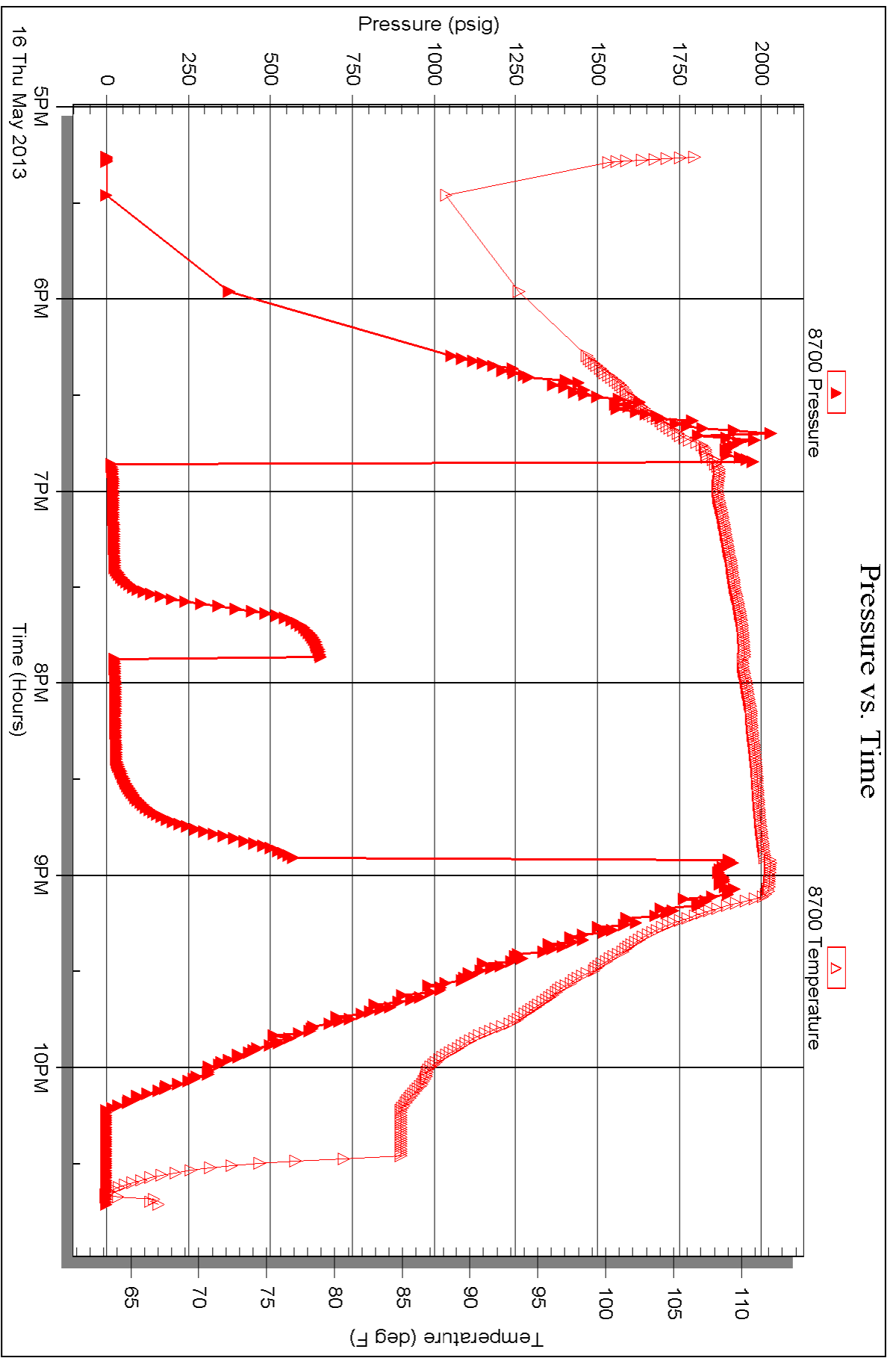


Serial #: 8700

Outside Dow nging-Nelson Oil Co Inc

32-95-23w Graham,KS

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52575

Well Name & No. Mitchell-Davignon #2-32 Test No. 1 Date 5-15-13
 Company Downing-Nelson Oil Co Inc Elevation 2469 KB 2461 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig DISCOVERY RIG 1
 Location: Sec. 32 Twp. 9^s Rge. 23^w Co. GRAHAM State Ks

Interval Tested 3805-3856 Zone Tested LKC C-D
 Anchor Length 51 Drill Pipe Run 3764 Mud Wt. 9
 Top Packer Depth 3800 Drill Collars Run 30 Vis 70
 Bottom Packer Depth 3805 Wt. Pipe Run - WL 7.6
 Total Depth 3856 Chlorides 800 ppm System LCM 1 1/2 #

Blow Description IFP - WEAK TO STRONG IN 8 MIN
ISIP - NO BLOW
FFP - WEAK TO A GOOD BLOW 1/4" TO 8" BLOW
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>GIP</u>				
<u>25</u>	<u>CO</u>				
<u>230</u>	<u>O+6 CMW</u>	<u>10%</u>	<u>10%</u>	<u>45%</u>	<u>35%</u>
<u>120</u>	<u>50+6 CMW</u>	<u>5%</u>	<u>3%</u>	<u>72%</u>	<u>20%</u>
<u>600</u>	<u>WATER</u>				

Rec Total 975 BHT 118 Gravity 40 API RW .07 @ 79 °F Chlorides 101000 ppm

(A) Initial Hydrostatic 1826 Test 1150 T-On Location 1210
 (B) First Initial Flow 105 Jars _____ T-Started 1245
 (C) First Final Flow 317 Safety Joint _____ T-Open 1405
 (D) Initial Shut-In 759 Circ Sub _____ T-Pulled 1635
 (E) Second Initial Flow 336 Hourly Standby _____ T-Out 1905
 (F) Second Final Flow 488 Mileage 102 RT 158.10
 (G) Final Shut-In 761 Sampler _____
 (H) Final Hydrostatic 1797 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1308.10
 MP/DST Disc't _____

Approved By _____ Our Representative RAY SCHWAGER *Thank you*

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52076

Well Name & No. Mitchell-Davignon #2-32 Test No. 2 Date 5-16-13
 Company Downing-Nelson Oil Co Inc Elevation 2469 KB 2461 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig Discovery 1191
 Location: Sec. 32 Twp. 9^s Rge. 23^w Co. GRAHAM State K

Interval Tested 3850-3880 Zone Tested LKC E-F
 Anchor Length 30 Drill Pipe Run 3820 Mud Wt. 9
 Top Packer Depth 3845 Drill Collars Run 30 Vis 70
 Bottom Packer Depth 3850 Wt. Pipe Run — WL 7.6
 Total Depth 3880 Chlorides 800 ppm System LCM 1 1/2#
 Blow Description IFF - WEAK TO STRONG IN 2 MIN
TSTIP - NO BLOW
FFP - WEAK TO STRONG IN 4 MIN
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>				
<u>60</u>	<u>MW w/show of oil</u>			<u>75</u>	<u>25</u>
<u>630</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 690 BHT 117 Gravity — API RW .11 @ 73 °F Chlorides 74000 ppm
 Test 1150 T-On Location 0140
 Jars _____ T-Started 0220
 Safety Joint _____ T-Open 0405
 Circ Sub _____ T-Pulled 0535
 Hourly Standby _____ T-Out 0738
 Mileage 158.10 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1308.10

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

Approved By _____ Our Representative Ray Schwager *thank you*
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52077

Well Name & No. Mitchell-Daivignon #2-32 Test No. 3 Date 5-16-13
 Company Downing-Nelson Oil Co Inc Elevation 2469 KB 2461 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig Discovery rig 1
 Location: Sec. 32 Twp. 9^s Rge. 23^w Co. GRAHAM State K

Interval Tested 3936-3954 Zone Tested LKC I
 Anchor Length 18 Drill Pipe Run 3890 Mud Wt. 9.3
 Top Packer Depth 3931 Drill Collars Run 30 Vis 65
 Bottom Packer Depth 3936 Wt. Pipe Run - WL 7.6
 Total Depth 3954 Chlorides 1000 ppm System LCM 1 1/2#

Blow Description IFP - WEAK Blow thru-out surface To 1/4" Blow
ISTP - NO Blow
FFP - WEAK Blow thru-out surface To 1/4" Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>				
<u>5</u>	<u>CO</u>				
<u>35</u>	<u>HO 46 CM</u>	<u>5</u>	<u>20</u>		<u>75</u>

Rec Total 40 BHT 111 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1894 Test 1150 T-On Location 1700
 (B) First Initial Flow 15 Jars T-Started 1715
 (C) First Final Flow 25 Safety Joint T-Open 1855
 (D) Initial Shut-In 653 Circ Sub T-Pulled 2055
 (E) Second Initial Flow 26 Hourly Standby T-Out 2243
 (F) Second Final Flow 30 Mileage 316.20 Comments
 (G) Final Shut-In 571 Sampler loaded tools 14:30 5/17
 (H) Final Hydrostatic 1873 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer

Initial Open 30 Extra Packer
 Initial Shut-In 30 Extra Recorder
 Final Flow 30 Day Standby
 Final Shut-In 30 Accessibility
 Sub Total 1466.20

Approved By _____ Our Representative RAY SCHWAGN **THANK YOU**
 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.

LOG

COMPANY Downing-Nelson Oil Co., Inc.

WELL Mitchell-Dawgman # 2-32

LOCATION 149th FSL + 45th FEL

S.E.C. 32 TWP. 9S RGE. 23W

COUNTY Grearman
STATE Kansas

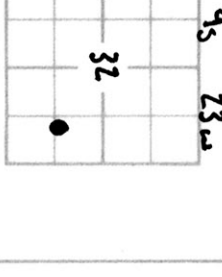
OPERATOR DINEKI
CONTRACTOR Dinekey Drilling Rig #1
COMM. 5-11-13 COMP. 5-11-13

SURF: 45' @ 221' PROD: 5 1/2' @ 4959'
TOTAL DEPTH DRILLERS: 4900'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DITUM	STRUCTURAL POSITION
Base Anhydrite	2024	2104	+305	+8
Tapska	3540	3540	-1281	+4
Hegner	3757	3756	-1281	+3
Tarama	3780	3779	-1316	+1
LKC	3793	3792	-1343	+0
BKC	4021	4020	-1551	+9

REFERENCE WELL FOR STRUCTURE Drilling Oil Inc.
Baker B#2 C-47E-NE-5E Sec. 32-9S-23W



DRILL STEM TESTS

No.	Interval	HF/Time	ISP/Time	FFP/Time	ESP/Time	HP/HP	RECOVERY

LEGEND

	Anhydrite
	Salt
	Sandstone
	Shale
	Carb sh
	Limestone
	Ool.Lime
	Chert
	Dolomite

