



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1215604
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

1215604

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Seitz-Barnhardt C-5
Doc ID	1215604

Tops

Name	Top	Datum
Top Anhydrite	1570'	+632
Base Anhydrite	1611'	+591
Topeka	3221'	-1019
Heebner	3445'	-1243
Toronto	3467'	-1265
LKC	3479'	-1277
BKC	3719'	-1517
Marmaton	3782'	-1580
Arbuckle	3853'	-1651

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 507

Cell 785-324-1041

Date	7-2-14	Sec.	34	Twp.	12	Range	21	County	Trego	State	KS	On Location		Finish	6:15 PM
Location Right 1/2 N to L Rd 3/4 E Sink															

Lease	Seitz-Barnhardt	Well No.	C-5	Owner	
-------	-----------------	----------	-----	-------	--

Contractor	Discovery #3			To Quality Oilwell Cementing, Inc.
Type Job	Surface			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	12 1/4	T.D.	221'	Charge To	Downing-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		Cement Amount Ordered	150 cam 3% cc 2% gel
---------------------	-----	------------	--	-----------------------	----------------------

Meas Line		Displace	12 3/4 bbl		
-----------	--	----------	------------	--	--

EQUIPMENT

Pumptrk	5	No.		Cementer		Common	150
---------	---	-----	--	----------	--	--------	-----

				Helper	David	Poz. Mix	
--	--	--	--	--------	-------	----------	--

Bulktrk	13	No.		Driver	Chad	Gel.	3
---------	----	-----	--	--------	------	------	---

				Driver	Taylor	Calcium	5
--	--	--	--	--------	--------	---------	---

Bulktrk	pu	No.		Driver	Brett	Hulls	
---------	----	-----	--	--------	-------	-------	--

JOB SERVICES & REMARKS

Remarks:		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	23
--	--	---------	----

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X Signature *John Gaskin*

Tax
Discount
Total Charge

Cement

Circulated

Quality Oilwell Cementing

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. 261

Date	7-9-14	Sec.	34	Twp.	12	Range	21	County	Trego	State	KS	On Location		Finish	10:15AM
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Location *Riga and I-70, 1/2 N to L Rd, 3/4 E, Sn 2*

Lease	<i>Seitz-Barhardt</i>	Well No.	<i>C-5</i>	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	<i>Discovery #3</i>			Charge To	<i>Downing - Nelson</i>
Type Job	<i>Plug</i>	T.D.	<i>3959</i>	Street	
Hole Size	<i>7 7/8</i>	Depth		City	State
Csg.		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered <i>305 sx 60/40, 4% gel, 1/4# Flow</i>	
Tool		Depth			
Cement Left in Csg.		Shoe Joint			
Meas Line		Displace			

EQUIPMENT

Pumptrk	<i>17</i>	No.	Cementer		Common	<i>183</i>
			Helper	<i>Lannie W.</i>	Poz. Mix	<i>122</i>
Bulktrk	<i>13</i>	No.	Driver		Gel.	<i>11</i>
			Driver	<i>Claton</i>	Calcium	
Bulktrk	<i>P4</i>	No.	Driver			
			Driver	<i>Travis</i>		

JOB SERVICES & REMARKS

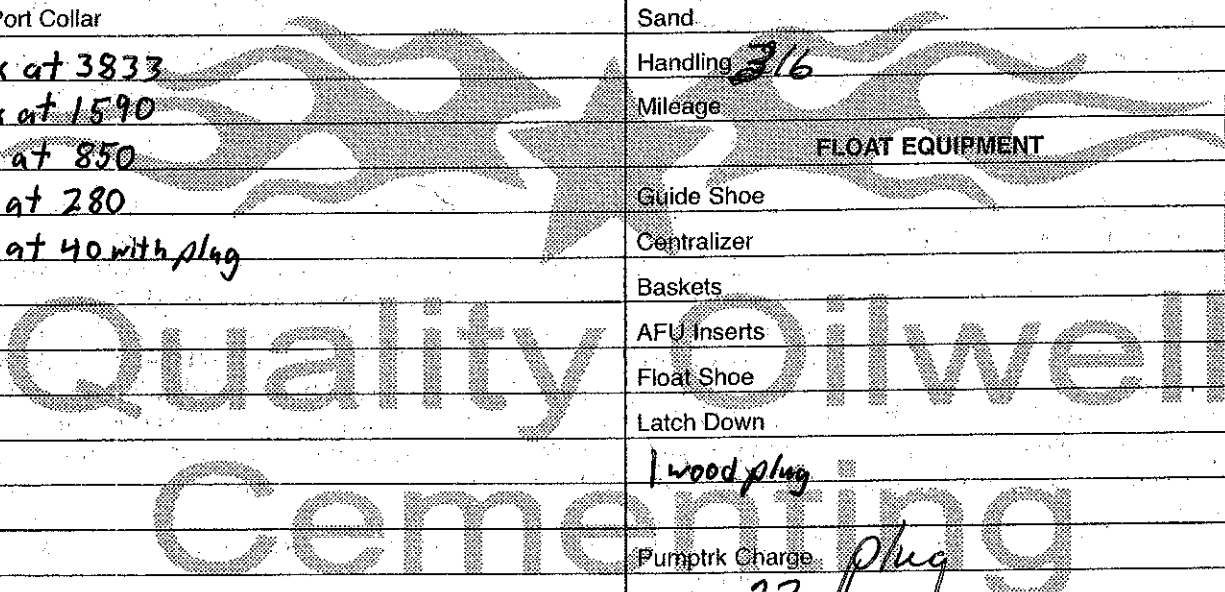
Remarks:	Salt
Rat Hole <i>30 sx</i>	Flowseal <i>76#</i>
Mouse Hole <i>15 sx</i>	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
<i>50 sx at 3833</i>	Handling <i>216</i>
<i>50 sx at 1590</i>	Mileage

FLOAT EQUIPMENT

<i>100 sx at 850</i>	Guide Shoe
<i>50 sx at 280</i>	Centralizer
<i>10 sx at 40 with plug</i>	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<i>1 wood plug</i>
	Pumptrk Charge <i>plug</i>
	Mileage <i>23</i>

X Signature *Jen Amber*

Tax	
Discount	
Total Charge	





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Seitz-Bamhardt #C-5

34-12s-21w Trego KS

Start Date: 2014.07.07 @ 03:48:00

End Date: 2014.07.07 @ 10:32:30

Job Ticket #: 54064 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.10 @ 10:35:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

ATTN: Marc Dow ning

Job Ticket: 54064

DST#: 1

Test Start: 2014.07.07 @ 03:48:00

GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:15

Time Test Ended: 10:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3807.00 ft (KB) To 3853.00 ft (KB) (TVD)

Reference Elevations: 2201.00 ft (KB)

Total Depth: 3853.00 ft (KB) (TVD)

2193.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 36.79 psig @ 3845.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.07

End Date:

2014.07.07

Last Calib.:

2014.07.07

Start Time:

03:48:05

End Time:

10:32:29

Time On Btm:

2014.07.07 @ 06:45:00

Time Off Btm:

2014.07.07 @ 08:47:00

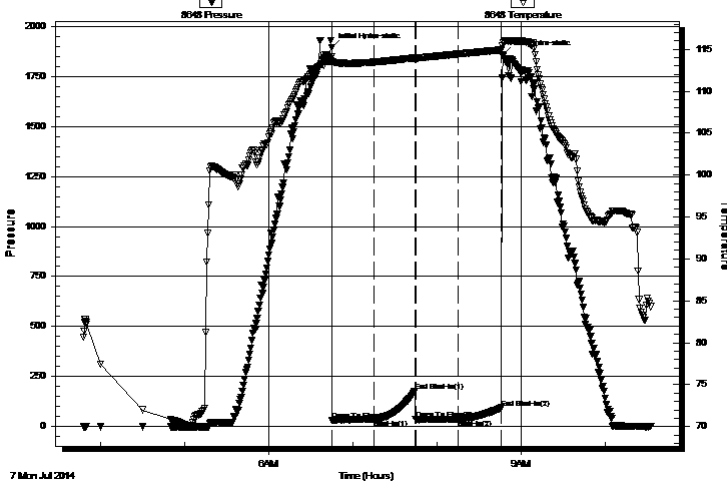
TEST COMMENT: 30 - IF- 1/4" blow , died back to surface blow

30 - IS- No return

30 - FF- No blow

30 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.96	114.15	Initial Hydro-static
1	31.87	113.48	Open To Flow (1)
30	35.82	113.47	Shut-In(1)
59	175.78	113.97	End Shut-In(1)
60	34.90	113.94	Open To Flow (2)
90	36.79	114.44	Shut-In(2)
121	93.87	114.93	End Shut-In(2)
122	1856.33	115.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	VSOCM, 2%O,98%M	0.01
0.00	1" of free oil on top	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

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

ATTN: Marc Dow ning

Job Ticket: 54064

DST#: 1

Test Start: 2014.07.07 @ 03:48:00

GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:15

Time Test Ended: 10:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3807.00 ft (KB) To 3853.00 ft (KB) (TVD)

Reference Elevations: 2201.00 ft (KB)

Total Depth: 3853.00 ft (KB) (TVD)

2193.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8940 Outside

Press@RunDepth: psig @ 3845.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.07 End Date: 2014.07.07

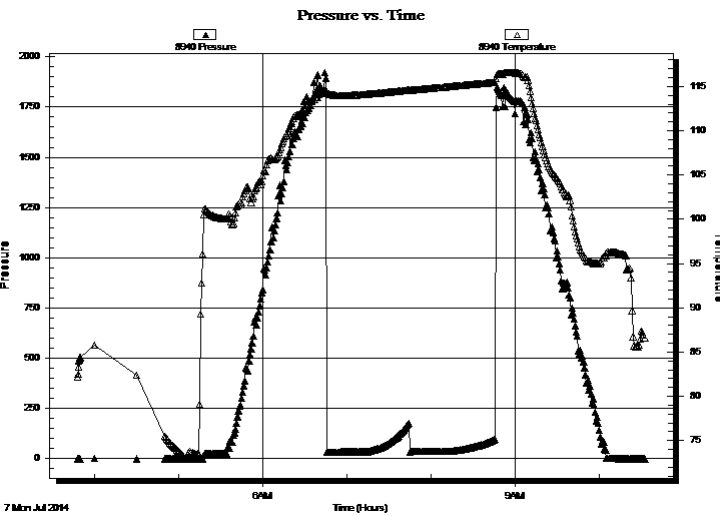
Last Calib.: 2014.07.07

Start Time: 03:48:05 End Time: 10:32:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" blow , died back to surface blow
30 - IS- No return
30 - FF- No blow
30 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	VSOCM, 2%O,98%M	0.01
0.00	1" of free oil on top	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

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54064

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.07.07 @ 03:48:00

Tool Information

Drill Pipe:	Length: 3772.00 ft	Diameter: 3.80 inches	Volume: 52.91 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 53.06 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3807.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	46.00 ft				
Tool Length:	67.00 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			3787.00	
Shut In Tool	5.00			3792.00	
Hydraulic tool	5.00			3797.00	
Packer	5.00			3802.00	21.00 Bottom Of Top Packer
Packer	5.00			3807.00	
Perforations	4.00			3811.00	
Stubb	1.00			3812.00	
Change Over Sub	1.00			3813.00	
Drill Pipe	31.00			3844.00	
Change Over Sub	1.00			3845.00	
Recorder	0.00	8648	Inside	3845.00	
Recorder	0.00	8940	Outside	3845.00	
Perforations	5.00			3850.00	
Bullnose	3.00			3853.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54064

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.07.07 @ 03:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 20000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	VSOCM, 2%O,98%M	0.015
0.00	1" of free oil on top	0.000

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

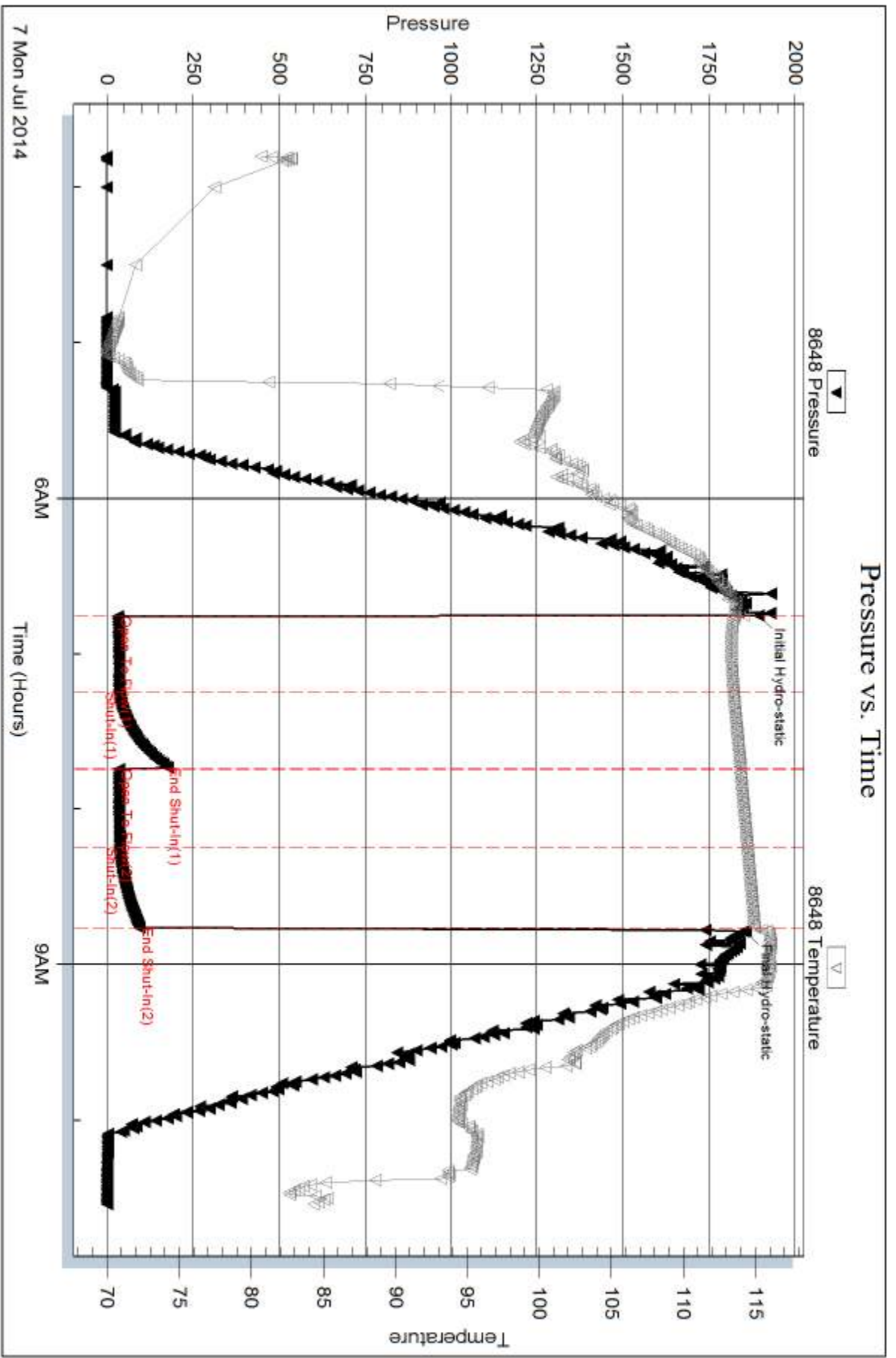
Serial #: 8648

Inside

Dow nng-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54064

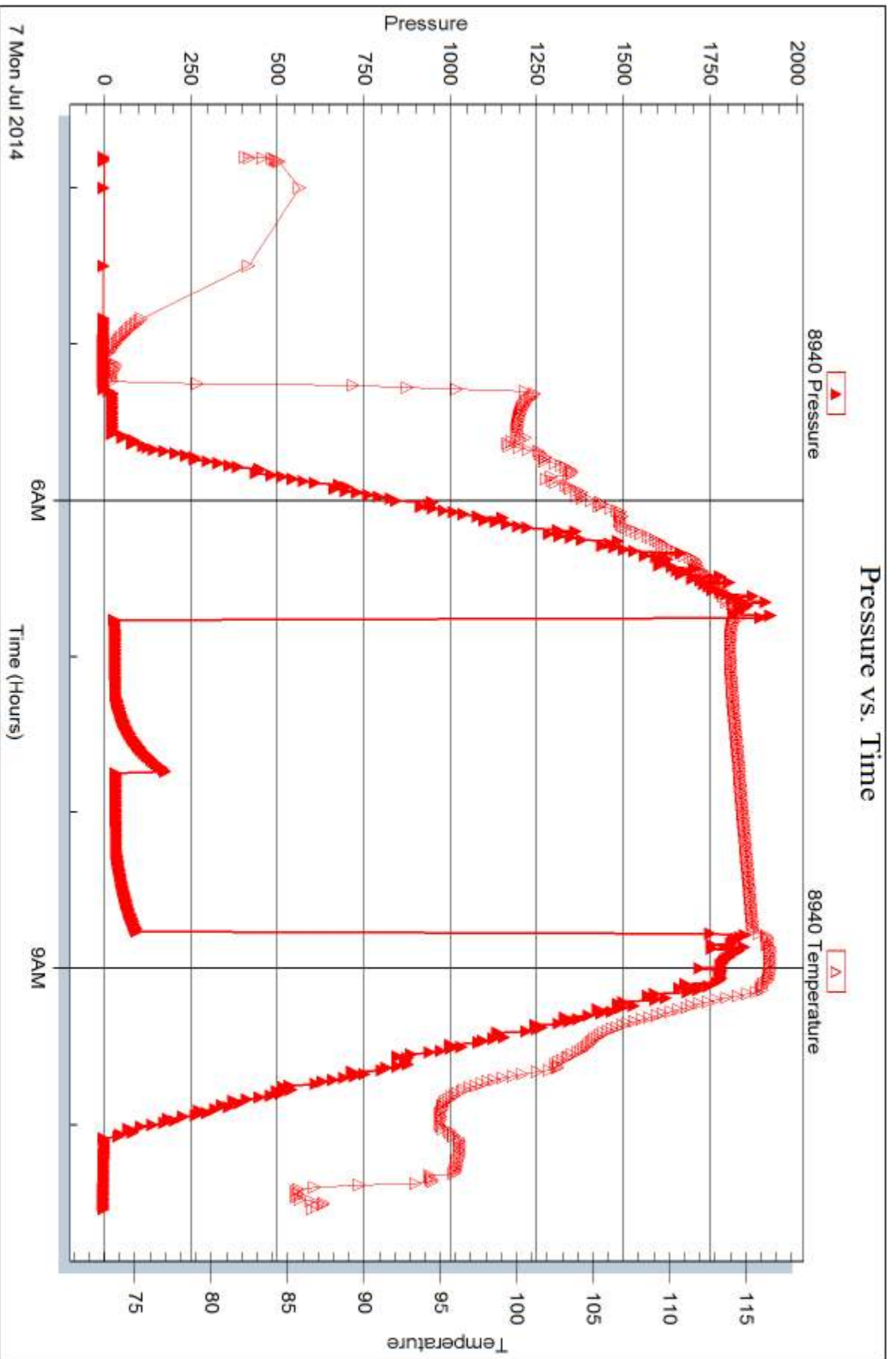
Printed: 2014.07.10 @ 10:35:09

Serial #: 8940

Outside Dow nung-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54064

Printed: 2014.07.10 @ 10:35:09



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Seitz-Bamhardt #C-5

34-12s-21w Trego KS

Start Date: 2014.07.07 @ 16:23:00

End Date: 2014.07.07 @ 23:46:00

Job Ticket #: 54065 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.10 @ 10:34:44



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

ATTN: Marc Dow ning

Job Ticket: 54065

DST#: 2

Test Start: 2014.07.07 @ 16:23:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:00

Time Test Ended: 23:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3806.00 ft (KB) To 3869.00 ft (KB) (TVD)

Reference Elevations: 2201.00 ft (KB)

Total Depth: 3869.00 ft (KB) (TVD)

2193.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 74.46 psig @ 3844.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.07

End Date:

2014.07.07

Last Calib.:

2014.07.07

Start Time: 16:23:05

End Time:

23:45:59

Time On Btm:

2014.07.07 @ 18:46:45

Time Off Btm:

2014.07.07 @ 21:47:45

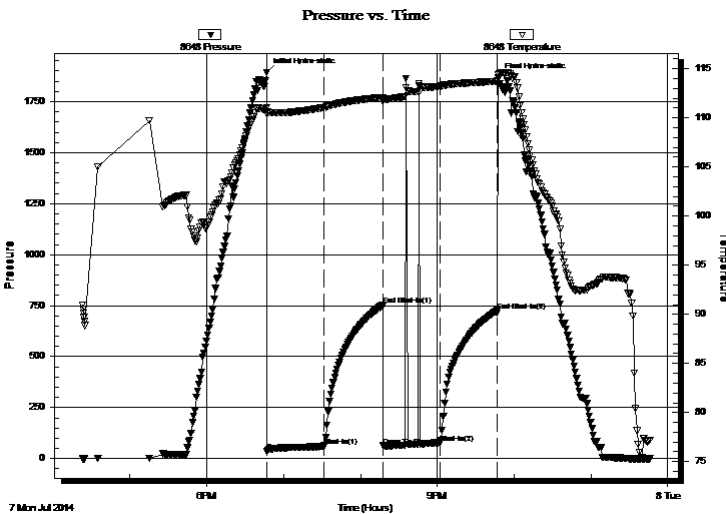
TEST COMMENT: 45 - IF- 2 1/4" blow @ 20 minutes, died off to 1 3/4" blow

45 - IS- No return

45 - FF- No blow , flushed tool @ 15 minutes, surged and died, flushed tool again, weak surface blow

45 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.33	111.05	Initial Hydro-static
1	36.71	110.38	Open To Flow (1)
45	59.72	111.07	Shut-In(1)
91	751.33	112.09	End Shut-In(1)
91	62.17	111.68	Open To Flow (2)
136	74.46	113.22	Shut-In(2)
180	725.35	113.73	End Shut-In(2)
181	1866.60	114.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	VSOCM, 2%O, 98%M	0.60
30.00	VSOCM, 5%O, 95%M	0.42

* 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

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54065

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.07.07 @ 16:23:00

Tool Information

Drill Pipe:	Length: 3772.00 ft	Diameter: 3.80 inches	Volume: 52.91 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	59000.00 lb
			<u>Total Volume: 53.06 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3806.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	63.00 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			3786.00	
Shut In Tool	5.00			3791.00	
Hydraulic tool	5.00			3796.00	
Packer	5.00			3801.00	21.00 Bottom Of Top Packer
Packer	5.00			3806.00	
Perforations	4.00			3810.00	
Stubb	1.00			3811.00	
Change Over Sub	1.00			3812.00	
Drill Pipe	31.00			3843.00	
Change Over Sub	1.00			3844.00	
Recorder	0.00	8648	Inside	3844.00	
Recorder	0.00	8940	Outside	3844.00	
Perforations	22.00			3866.00	
Bullnose	3.00			3869.00	63.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54065

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.07.07 @ 16:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 59.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	VSOCM, 2%O, 98%M	0.596
30.00	VSOCM, 5%O, 95%M	0.421

Total Length: 92.00 ft Total Volume: 1.017 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

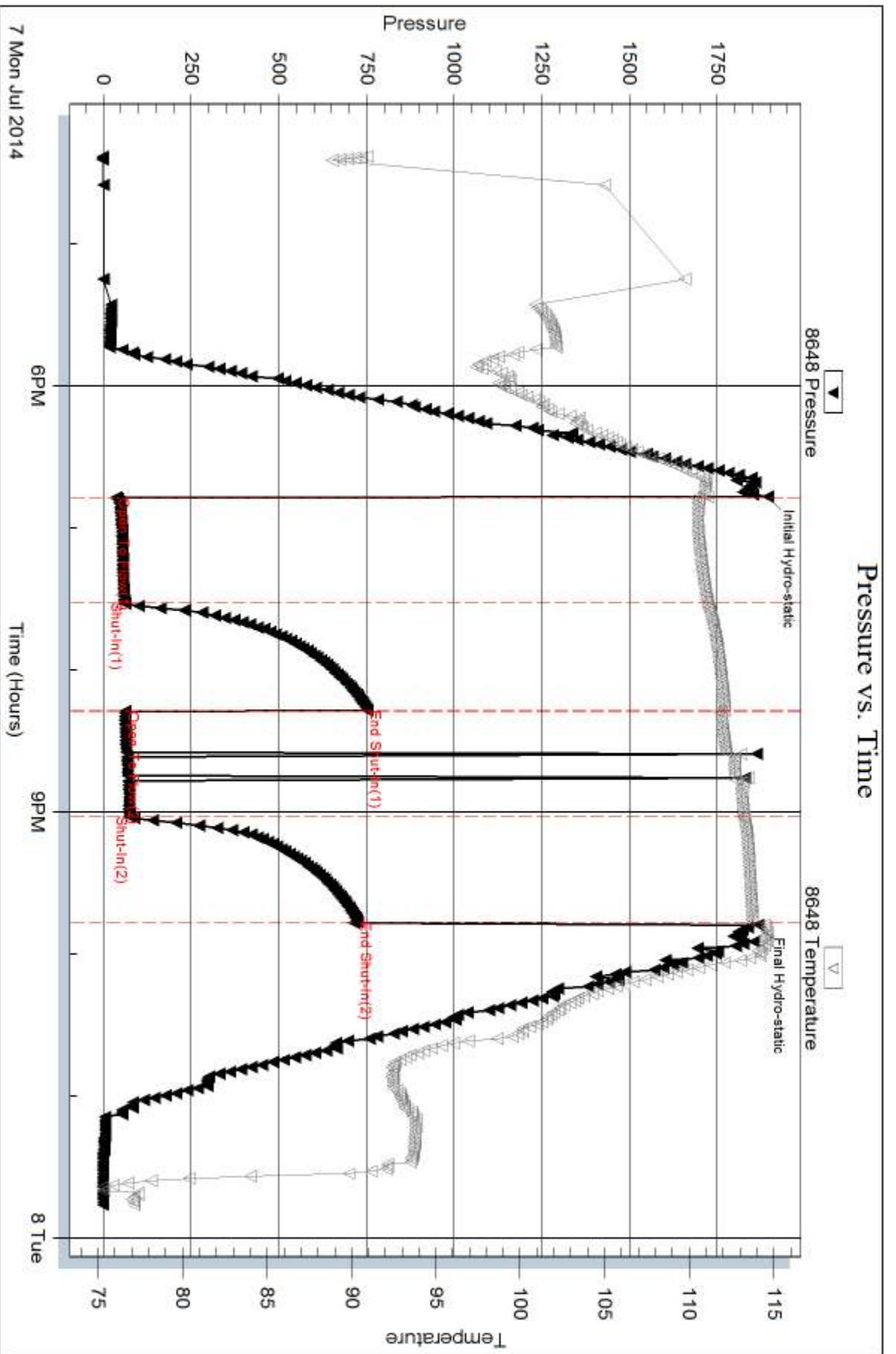
Serial #: 8648

Inside

Dow nting-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54065

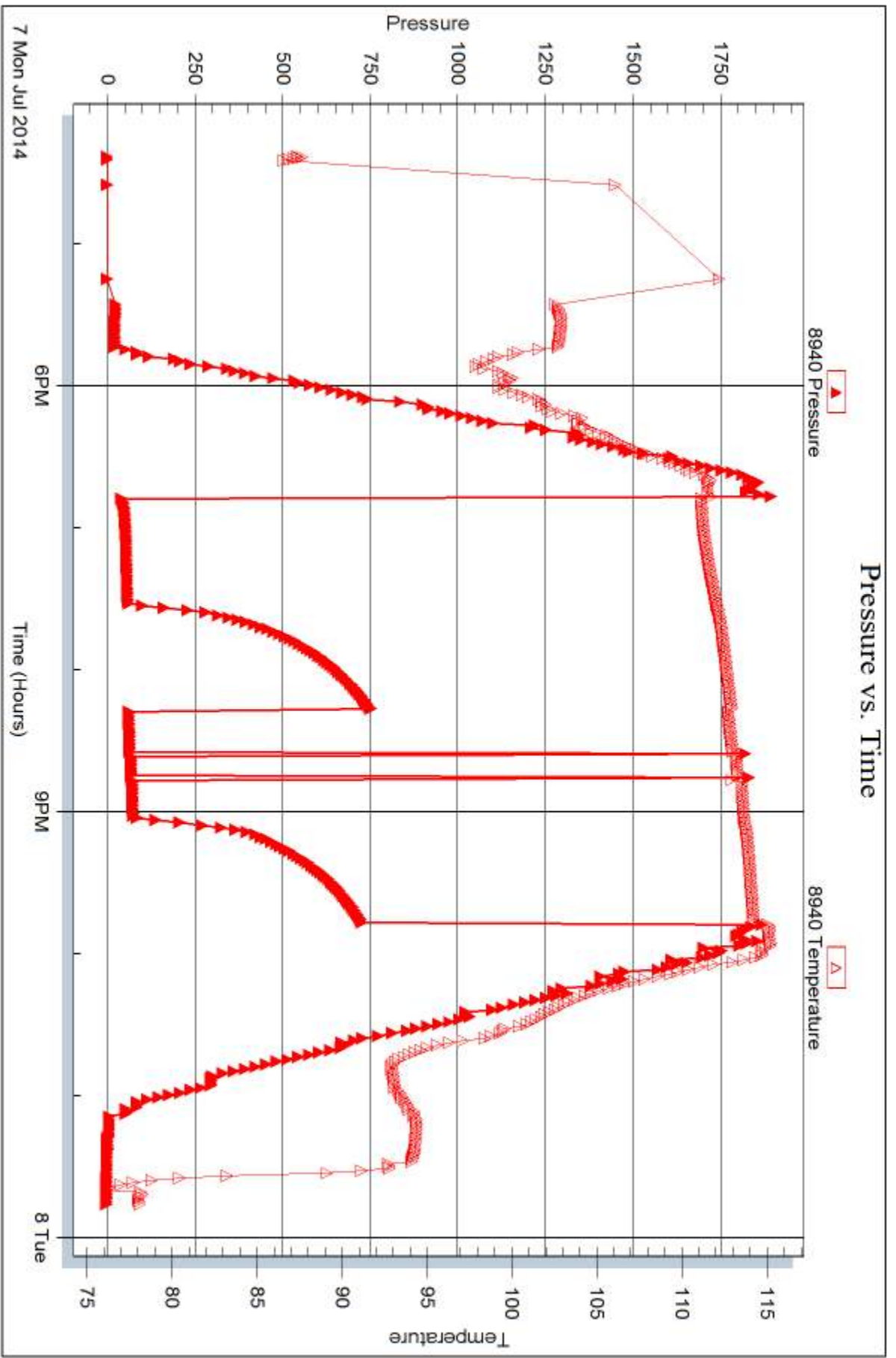
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Serial #: 8940

Outside Dow n/mg-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54065

Printed: 2014.07.10 @ 10:34:45



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Seitz-Bamhardt #C-5

34-12s-21w Trego KS

Start Date: 2014.07.08 @ 12:52:00

End Date: 2014.07.08 @ 20:18:15

Job Ticket #: 54066 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.10 @ 10:28:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

ATTN: Marc Dow ning

Job Ticket: 54066

DST#: 3

Test Start: 2014.07.08 @ 12:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:30

Time Test Ended: 20:18:15

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3860.00 ft (KB) To 3878.00 ft (KB) (TVD)

Reference Elevations: 2201.00 ft (KB)

Total Depth: 3961.00 ft (KB) (TVD)

2193.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 250.29 psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.08

End Date:

2014.07.08

Last Calib.:

2014.07.08

Start Time: 12:52:05

End Time:

20:18:14

Time On Btm:

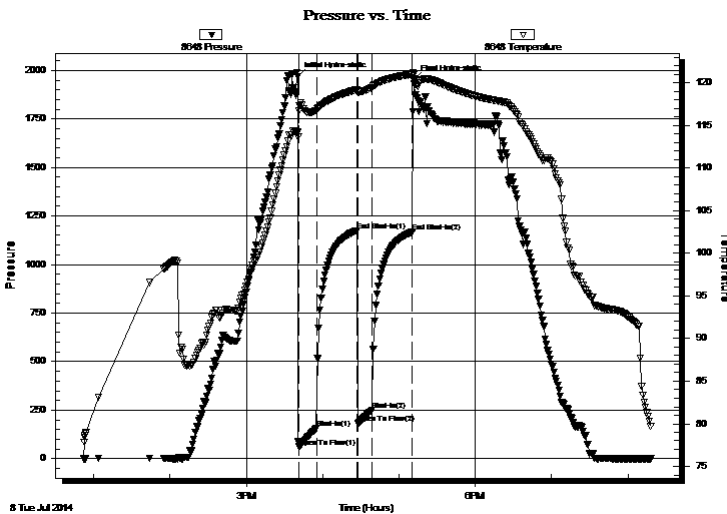
2014.07.08 @ 15:40:30

Time Off Btm:

2014.07.08 @ 17:11:30

TEST COMMENT: 15 - IF- B.O.B. in 3 minutes
30 - IS- Surface return, died in 9 minutes
15 - FF- B.O.B. in 3 minutes
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.33	114.20	Initial Hydro-static
1	60.77	116.72	Open To Flow (1)
15	155.42	116.78	Shut-In(1)
47	1173.82	119.17	End Shut-In(1)
48	180.09	118.91	Open To Flow (2)
59	250.29	119.45	Shut-In(2)
90	1166.43	120.97	End Shut-In(2)
91	1950.87	121.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	MW - Oil spots, 20%M, 80%W	5.81
77.00	VSOCWM, 5%O, 15%W, 80%M	1.08
1.00	Free Oil, 100%O	0.01

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

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54066

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.07.08 @ 12:52:00

Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 53.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3860.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	3878.00 ft			
Interval betw een Packers:	18.00 ft			
Tool Length:	126.00 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			3840.00	
Shut In Tool	5.00			3845.00	
Hydraulic tool	5.00			3850.00	
Packer	5.00			3855.00	21.00 Bottom Of Top Packer
Packer	5.00			3860.00	
Stubb	1.00			3861.00	
Recorder	0.00	8648	Inside	3861.00	
Recorder	0.00	8940	Outside	3861.00	
Perforations	16.00			3877.00	
Blank Off Sub	1.00			3878.00	18.00 Tool Interval
Packer	5.00			3883.00	
Change Over Sub	1.00			3884.00	
Recorder	0.00	8958	Below	3884.00	
Drill Pipe	62.00			3946.00	
Perforations	16.00			3962.00	
Bullnose	3.00			3965.00	87.00 Bottom Packers & Anchor
Total Tool Length:	126.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54066

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.07.08 @ 12:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
434.00	MW - Oil spots, 20%M, 80%W	5.815
77.00	VSOCWM, 5%O, 15%W, 80%M	1.080
1.00	Free Oil, 100%O	0.014

Total Length: 512.00 ft Total Volume: 6.909 bbf

Num Fluid Samples: 0

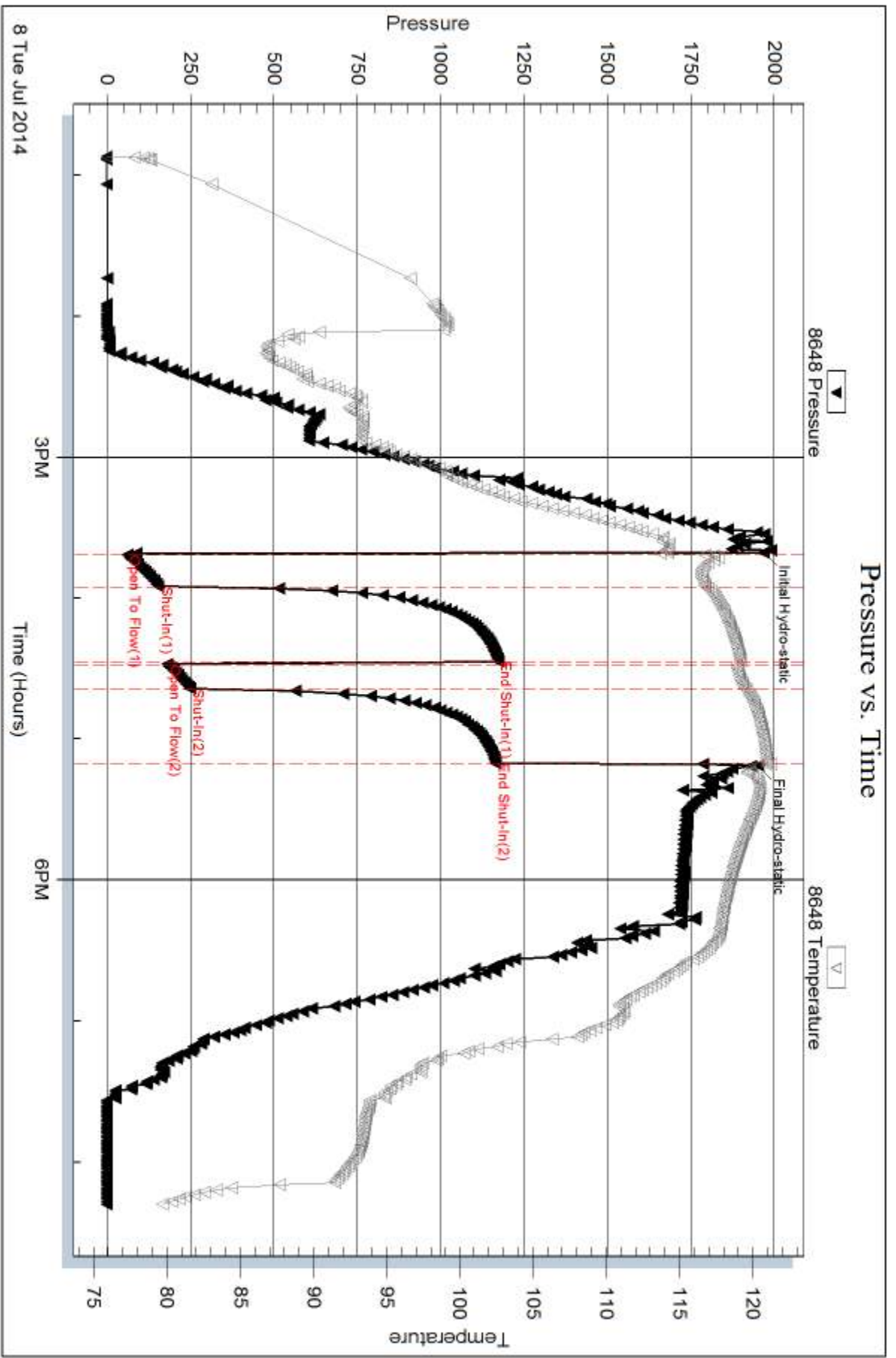
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

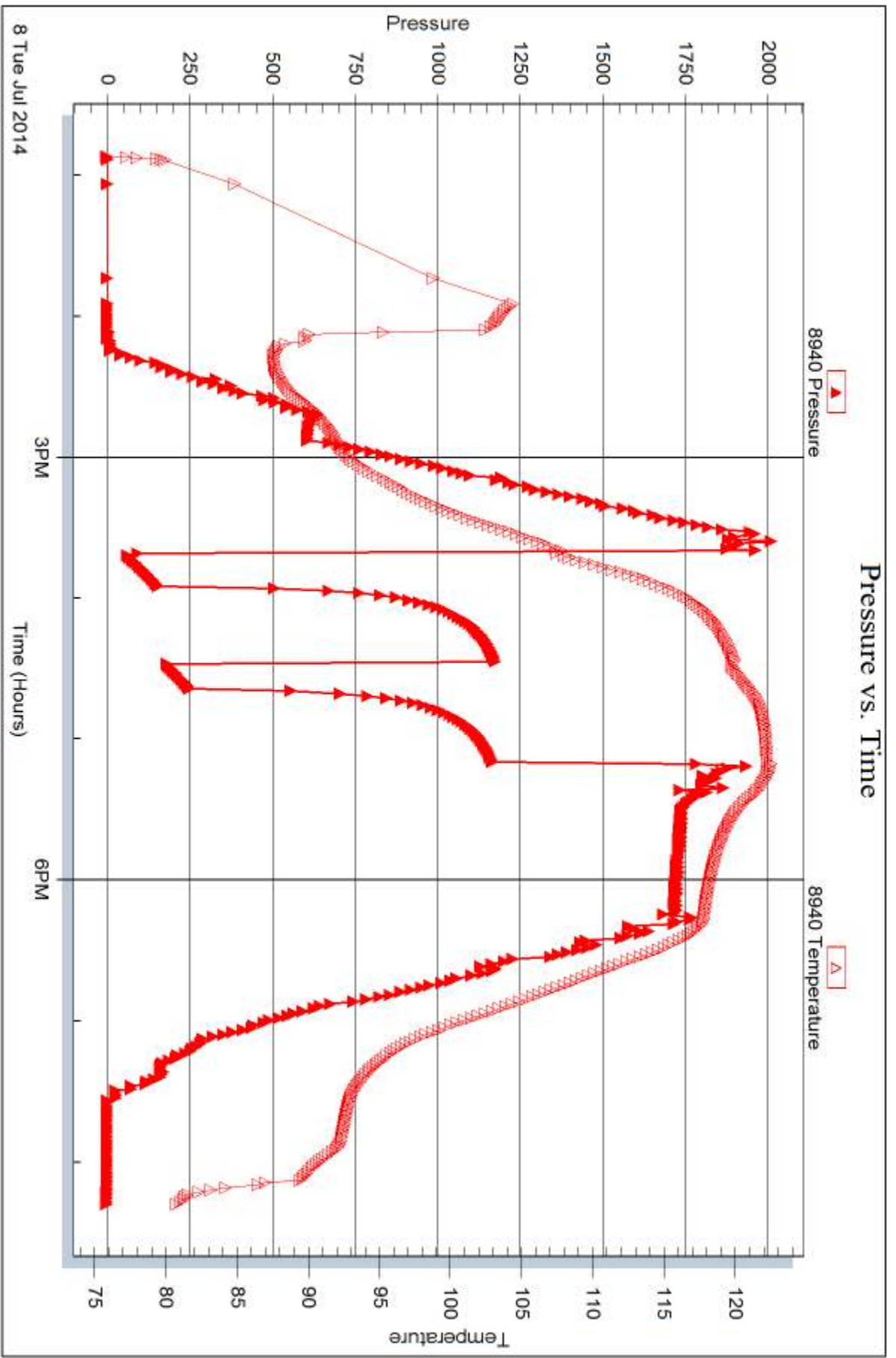


Serial #: 8940

Outside Dow nmg-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54066

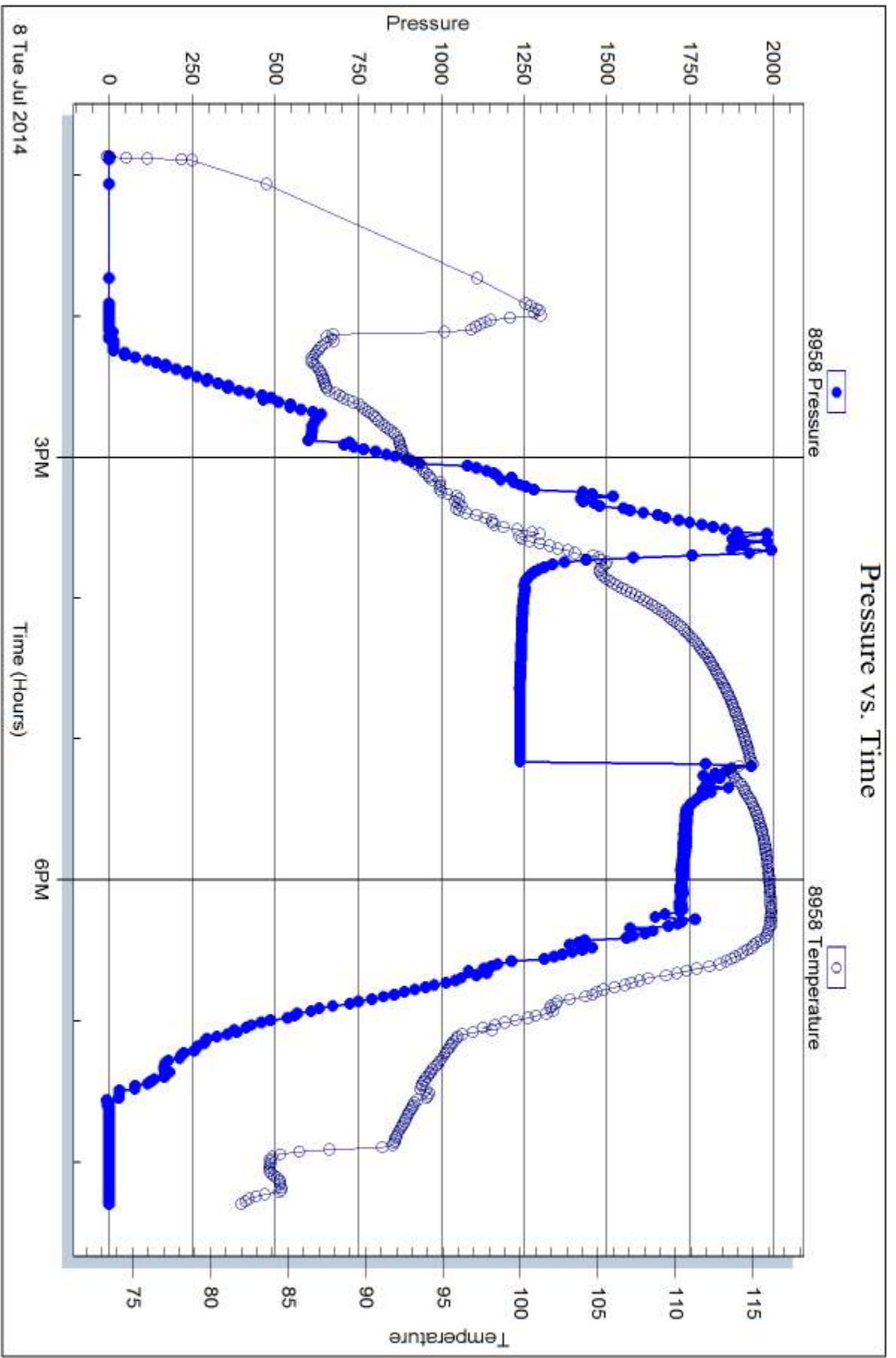
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Serial #: 8958

Below (Str-Rath)eng-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54066

Printed: 2014.07.10 @ 10:28:39



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Seitz-Bamhardt #C-5

34-12s-21w Trego KS

Start Date: 2014.07.08 @ 20:44:00

End Date: 2014.07.09 @ 03:47:30

Job Ticket #: 54067 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.10 @ 10:27:52

Downing-Nelson Oil Co Inc

34-12s-21w Trego KS

Seitz-Bamhardt #C-5

DST # 4

LKC "C-E"

2014.07.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

ATTN: Marc Dow ning

Job Ticket: 54067

DST#: 4

Test Start: 2014.07.08 @ 20:44:00

GENERAL INFORMATION:

Formation: **LKC "C-E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:03:00

Time Test Ended: 03:47:30

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3502.00 ft (KB) To 3558.00 ft (KB) (TVD)

Reference Elevations: 2201.00 ft (KB)

Total Depth: 3961.00 ft (KB) (TVD)

2193.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 51.94 psig @ 3540.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.08

End Date:

2014.07.09

Last Calib.:

2014.07.09

Start Time: 20:44:05

End Time:

03:47:29

Time On Btm:

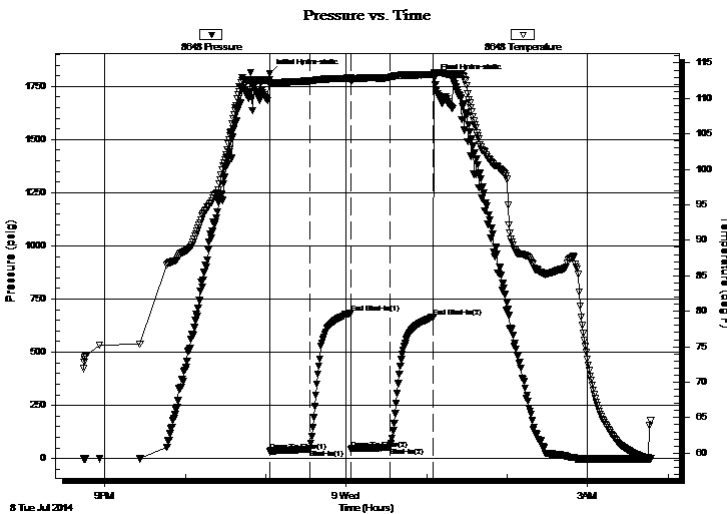
2014.07.08 @ 23:02:45

Time Off Btm:

2014.07.09 @ 01:05:45

TEST COMMENT: 30 - IF- 3/4" Blow
30 - IS- No return
30 - FF- 1/4" blow
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1808.63	112.63	Initial Hydro-static
1	35.60	111.92	Open To Flow (1)
30	44.61	112.46	Shut-In(1)
61	682.65	112.87	End Shut-In(1)
61	43.01	112.43	Open To Flow (2)
90	51.94	112.97	Shut-In(2)
123	665.32	113.34	End Shut-In(2)
123	1788.43	113.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud, 100%M	0.22

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54067 **DST#: 4**

ATTN: Marc Dow ning

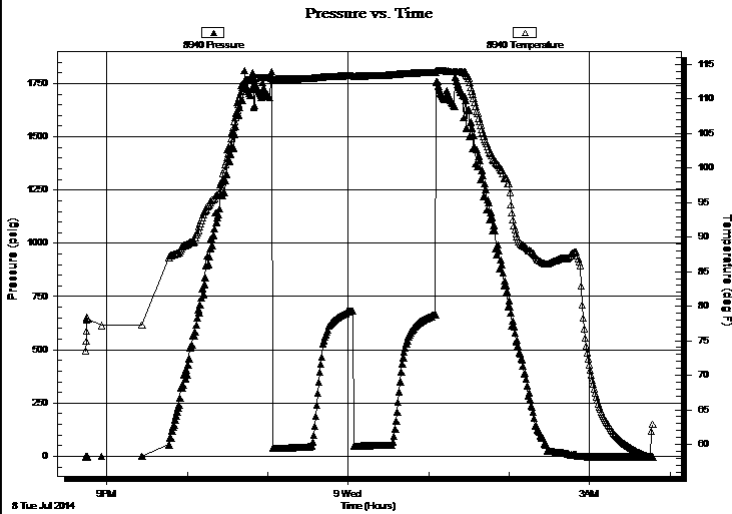
Test Start: 2014.07.08 @ 20:44:00

GENERAL INFORMATION:

Formation: **LKC "C-E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:03:00
 Time Test Ended: 03:47:30
 Interval: **3502.00 ft (KB) To 3558.00 ft (KB) (TVD)**
 Total Depth: 3961.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2201.00 ft (KB)
 2193.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8940 **Outside**
 Press@RunDepth: psig @ 3540.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.08 End Date: 2014.07.09 Last Calib.: 2014.07.09
 Start Time: 20:44:05 End Time: 03:47:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" Blow
 30 - IS- No return
 30 - FF- 1/4" blow
 30 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud, 100%M	0.22

* 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

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

ATTN: Marc Dow ning

Job Ticket: 54067

DST#: 4

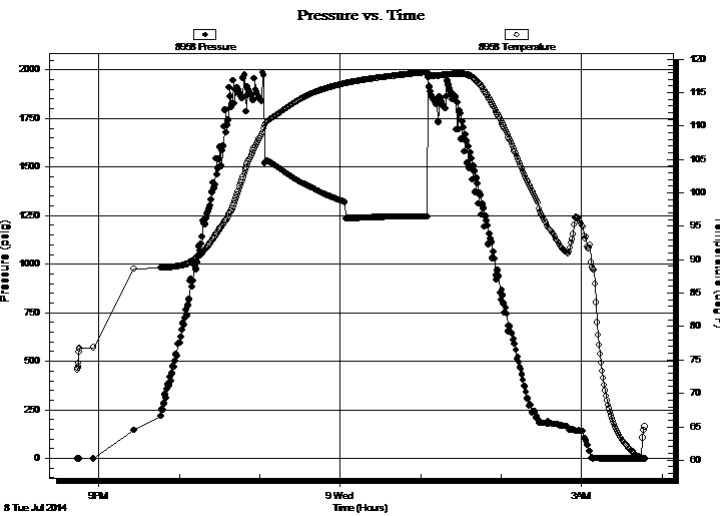
Test Start: 2014.07.08 @ 20:44:00

GENERAL INFORMATION:

Formation: **LKC "C-E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:03:00
 Time Test Ended: 03:47:30
Interval: 3502.00 ft (KB) To 3558.00 ft (KB) (TVD)
 Total Depth: 3961.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2201.00 ft (KB)
 2193.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8958 Below (Straddle)
 Press@RunDepth: psig @ 3945.00 ft (KB)
 Start Date: 2014.07.08 End Date: 2014.07.09
 Start Time: 20:44:05 End Time: 03:47:29
 Capacity: 8000.00 psig
 Last Calib.: 2014.07.09
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" Blow
 30 - IS- No return
 30 - FF- 1/4" blow
 30 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud, 100%M	0.22

* 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

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54067

DST#: 4

ATTN: Marc Dow ning

Test Start: 2014.07.08 @ 20:44:00

Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 48.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3502.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3558.00 ft			
Interval betw een Packers:	56.00 ft			
Tool Length:	484.00 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			3482.00	
Shut In Tool	5.00			3487.00	
Hydraulic tool	5.00			3492.00	
Packer	5.00			3497.00	21.00 Bottom Of Top Packer
Packer	5.00			3502.00	
Stubb	1.00			3503.00	
Perforations	4.00			3507.00	
Change Over Sub	1.00			3508.00	
Drill Pipe	31.00			3539.00	
Change Over Sub	1.00			3540.00	
Recorder	0.00	8648	Inside	3540.00	
Recorder	0.00	8940	Outside	3540.00	
Perforations	17.00			3557.00	
Blank Off Sub	1.00			3558.00	56.00 Tool Interval
Packer	5.00			3563.00	
Change Over Sub	1.00			3564.00	
Drill Pipe	381.00			3945.00	
Recorder	0.00	8958	Below	3945.00	
Perforations	17.00			3962.00	
Bullnose	3.00			3965.00	407.00 Bottom Packers & Anchor

Total Tool Length: 484.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego KS

PO Box 1019
Hays KS 67601

Seitz-Bamhardt #C-5

Job Ticket: 54067

DST#: 4

ATTN: Marc Dow ning

Test Start: 2014.07.08 @ 20:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Mud, 100%M	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

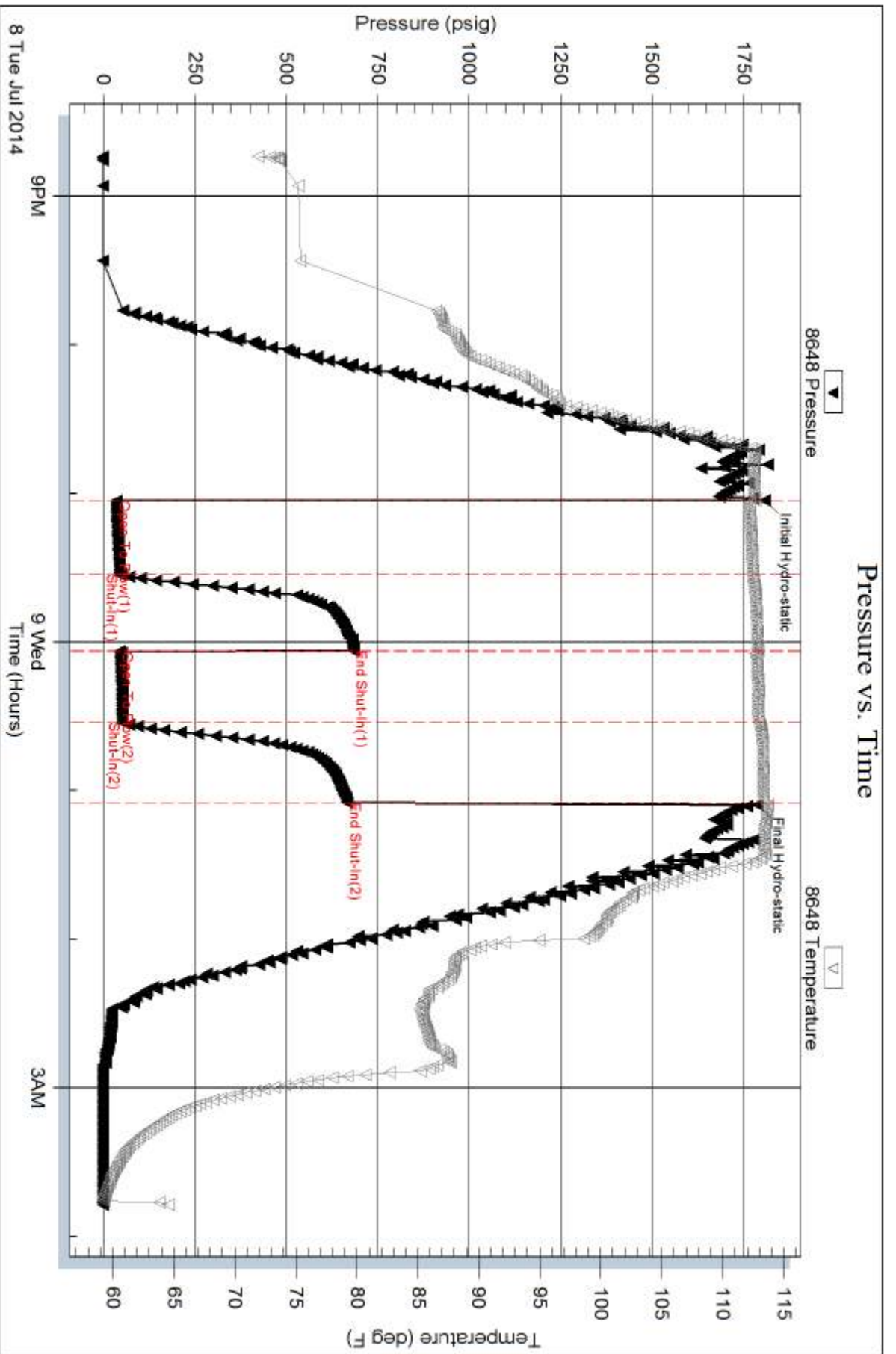
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Inside

Dow nng-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 4

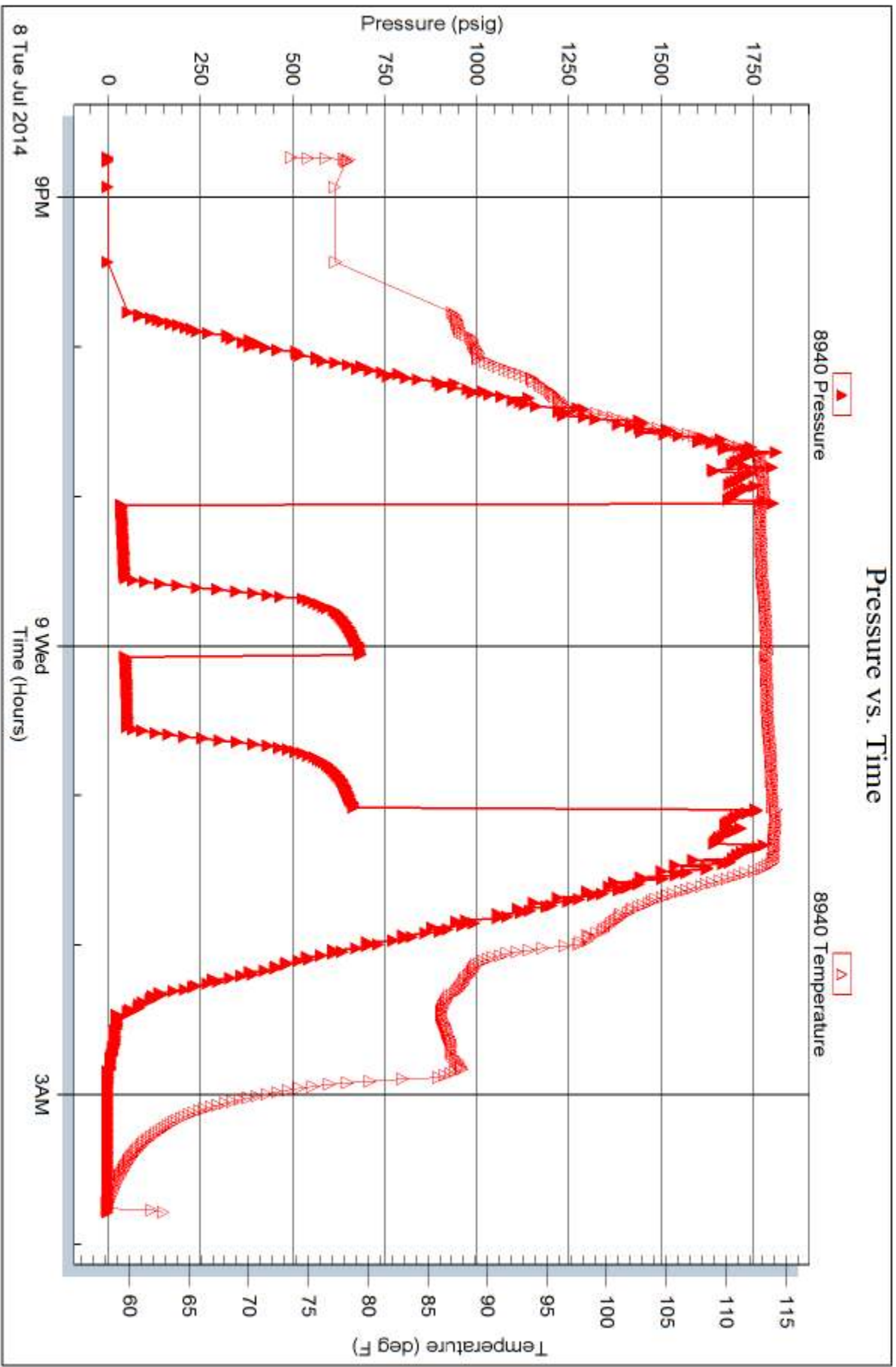


Serial #: 8940

Outside Dow nrg-Nelson Oil Co Inc

Seitz-Banhardt #C-5

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 54067

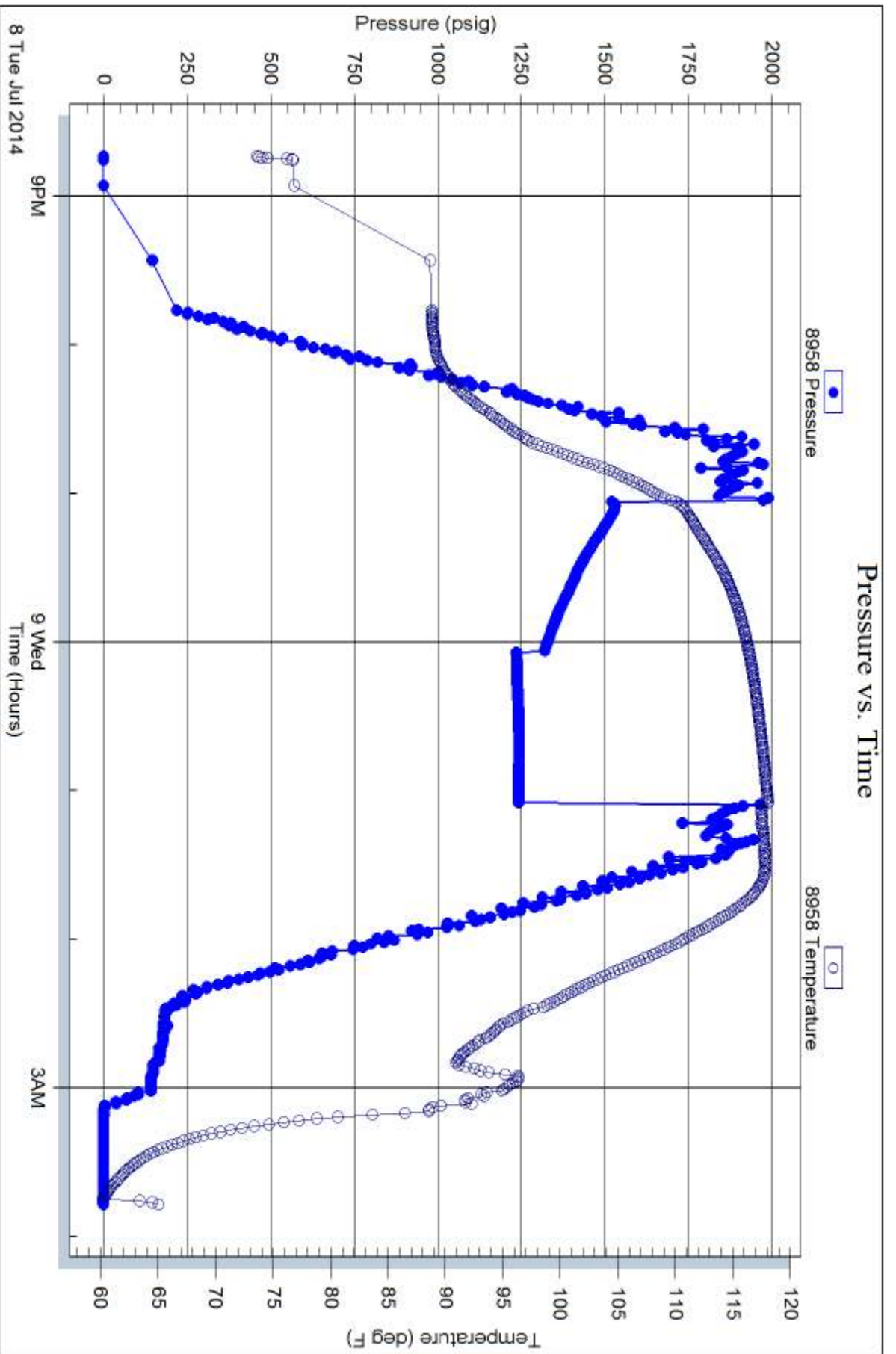
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Serial #: 8958

Below (Stratton)ng-Nelson Oil Co Inc

Seitz-Banhardt #C-5

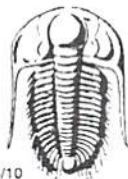
DST Test Number: 4



Tribble Testing, Inc

Ref. No: 54067

Printed: 2014.07.10 @ 10:27:54



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54064**

Well Name & No. Seitz - Bamhardt C-5 Test No. 1 Date 7-7-14
 Company Downing-Nelson oil Co INC Elevation 2201 KB 2193 GL
 Address Po Box 1019, Hays KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #03
 Location: Sec. 34 Twp. 12s Rge. 21w Co. Trego State KS

Interval Tested 3807 - 3853 Zone Tested Long. Sand
 Anchor Length 46' Drill Pipe Run 3772' Mud Wt. 9
 Top Packer Depth 3802 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3807 Wt. Pipe Run — WL 7.2
 Total Depth 3853 Chlorides 2,000 ppm System LCM 1#

Blow Description IF - 1/4" blow, died back to surface blow
ISI - No return
FF - No blow
FSI - No return

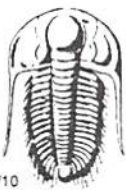
Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>VSOCM</u>	<u>2</u>	<u>98</u>		
	<u>1" of Free oil on top</u>				

Rec Total 3' BHT 114° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1894</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0320</u>
(B) First Initial Flow <u>31</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>0348</u>
(C) First Final Flow <u>35</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>0645</u>
(D) Initial Shut-In <u>175</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>0845</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1033</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>54RT 83.70</u>	Comments <u>—</u>
(G) Final Shut-In <u>93</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1856</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1233.70</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1233.70</u>	

Approved By _____ Our Representative Cody B...

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54065

Well Name & No. Seitz - Bamhardt C-5 Test No. 2 Date 7-7-14
 Company Downing Nelson Oil Co Inc Elevation 2201 KB 2193 GL
 Address Po Box 1019, Hays KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery # 3
 Location: Sec. 34 Twp. 12S Rge. 21W Co. Trego State KS

Interval Tested 3806 - 3869 Zone Tested Arbuckle
 Anchor Length 63' Drill Pipe Run 3772' Mud Wt. 9.2
 Top Packer Depth 3801 Drill Collars Run 30' Vis 59
 Bottom Packer Depth 3806 Wt. Pipe Run - WL 7.6
 Total Depth 3869 Chlorides 3,000 ppm System LCM 2#

Blow Description IF - 2.25" bbw in 20 minutes, died back to 1.75" blow
ISI - No return
FF - No blow, flushed tool @ 15 minutes, surged & died, flushed
FSI - No return tool again, surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>V50CM</u>	<u>2</u>		<u>98</u>	
<u>30</u>	<u>V50CM</u>	<u>5</u>		<u>95</u>	

Rec Total 92' BHT 1130 Gravity - API RW - @ -° F Chlorides - ppm

(A) Initial Hydrostatic <u>1893</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1609</u>
(B) First Initial Flow <u>36</u>	<input type="checkbox"/> Jars	T-Started <u>1623</u>
(C) First Final Flow <u>59</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1847</u>
(D) Initial Shut-In <u>751</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2147</u>
(E) Second Initial Flow <u>62</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2346</u>
(F) Second Final Flow <u>74</u>	<input checked="" type="checkbox"/> Mileage <u>54RT 83.70</u>	Comments
(G) Final Shut-In <u>725</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1866</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1233.70</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1233.70</u>	

Approved By _____ Our Representative Cody Bloodorn

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54066

Well Name & No. Seitz-Bamhardt C-5 Test No. 3 Date 7-8-14
 Company Downing-Nelson Oil Co Inc Elevation 2201 KB 2193 GL
 Address Po Box 1019, Hays KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery # 3
 Location: Sec. 34 Twp. 12s Rge. 21w Co. Trego State KS

Interval Tested 3860-3878 TD 3961 Zone Tested Arbuckle
 Anchor Length 18' anchor, 83' tail Drill Pipe Run 3836' Mud Wt. 9.3
 Top Packer Depth 3855 Drill Collars Run 30' Vis 58
 Bottom Packer Depth 3860 Wt. Pipe Run — WL 8.0
 Total Depth 3878 Chlorides 3,500 ppm System LCM —

Blow Description IF - B.O.B. in 3 minutes
ISI - surface return, died in 9 minutes
FF - B.O.B. in 3 minutes
FSI - No return

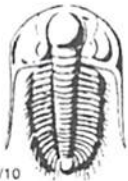
Rec	Feet of	%gas	%oil	%water	%mud
<u>434</u>	<u>MW - oil spots</u>			<u>80</u>	<u>20</u>
<u>77</u>	<u>WSOCWM</u>		<u>5</u>	<u>15</u>	<u>80</u>
<u>1'</u>	<u>Free oil on top</u>		<u>100</u>		

Rec Total 512 BHT 120° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1968</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1237</u>
(B) First Initial Flow <u>60</u>	<input type="checkbox"/> Jars	T-Started <u>1254</u>
(C) First Final Flow <u>155</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1543</u>
(D) Initial Shut-In <u>1173</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1713</u>
(E) Second Initial Flow <u>180</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2021</u>
(F) Second Final Flow <u>250</u>	<input checked="" type="checkbox"/> Mileage <u>54RT</u> <u>83.70</u>	Comments
(G) Final Shut-In <u>1166</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1950</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Day Standby	Total <u>1833.70</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1833.70</u>	

Approved By _____ Our Representative Cody Bloodon

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54067

Well Name & No. Scitz - Bamhardt C-5 Test No. 4 Date 7-8-14
 Company Downing - Nelson Oil Co Inc Elevation 2201 KB 2193 GL
 Address Po Box 1019, Hays KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 34 Twp. 12s Rge. 21w Co. Trego State KS

Interval Tested 3502 - 3558 Zone Tested C,D,E
 Anchor Length 56' anchor, 403' tail Drill Pipe Run 3457' Mud Wt. 9.3
 Top Packer Depth 3497 Drill Collars Run 30' Vis 58
 Bottom Packer Depth 3502 Wt. Pipe Run — WL 8.0
 Total Depth 3558 Chlorides 3,500 ppm System LCM —

Blow Description IF - 3/4" blow
ISI - No return
FF - 1/4" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Mud</u>			<u>100</u>	

Rec Total 35 BHT 113° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1808</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2030</u>
(B) First Initial Flow <u>35</u>	<input type="checkbox"/> Jars	T-Started <u>2044</u>
(C) First Final Flow <u>44</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2303</u>
(D) Initial Shut-In <u>682</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0103</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0347</u>
(F) Second Final Flow <u>51</u>	 	Comments
(G) Final Shut-In <u>665</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1788</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1750</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1750</u>	

Approved By _____ Our Representative Cody Blah

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Marc A. Downing Consulting Petroleum Geologist		Geologic Report Drilling Time and Sample Log	
Operator Downing-Nelson Oil Co., Inc.		Elevation KB 2202 DF 2200 GL 2194	
Lease Seitz-Barnhardt No. C-5		Casing Record Surface 8 5/8" @ 221' Production None	
API # 15-195-22952-0000		Electrical Surveys CNDL, DIL, MEL	
Field Ridgeway			
Location 1235' FNL & 1070' FEL			
Sec. 34	Twp. 12s	Rge. 21w	
County Trego		State Kansas	
Formation	Sample tops	Log Tops	Datum
Top Anhydrite	1571	1570	+632
Base Anhydrite	1612	1611	+591
Struct Comp			
			-7
			-9
			-11
			-8
			-11
			-8
			-7
Total Depth	3959	3961	-1759
Reference Well For Structural Comparison Seitz-Barnhardt C #3 560' FNL & 1090' FEL Sec. 34-12s-21w			

Drilling Contractor	Discovery Drilling, Rig #3	
Commenced	7-2-14	Completed
Samples Saved From	3200	To
Drilling Time Kept From	3100	To
Samples Examined From	3200	To
Geological Supervision From	3100	To
		RTD
		RTD
		RTD

Summary and Recommendations
Due to structural position, DST recovery, and log evaluation, it was decided to plug and abandon the well.

Respectfully Submitted,
Marc A. Downing

