



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
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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: _____



1148417

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
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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
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Wendelin Herman 1-30
Doc ID	1148417

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Neutron Density

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

June 17, 2013

Ron Nelson
Downing-Nelson Oil Co Inc
PO BOX 1019
HAYS, KS 67601

Re: ACO1
API 15-065-23925-00-00
Wendelin Herman 1-30
SW/4 Sec.30-09S-23W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ron Nelson

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. 6788

Date	5-3-13	Sec.	30	Twp.	9	Range	23	County	Cherokee	State	KS	On Location		Finish	6:15pm
Lease								Location				Wendelan			
Wendelan								Nerman				Well No. 1-30			
Contractor								Discovery #1				Owner			
Type Job								Surface				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				12 1/4				T.D.				221			
Csg.				8 5/8				Depth				220			
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.				15				Shoe Joint				Cement Amount Ordered 150 lbm 30% CC 20/6R			
Meas Line								Displace				138C			
EQUIPMENT								Common 150							
Pumptrk		9		No.		Cementor		Cris		Helper		Cody		Poz. Mix	
Bulktrk				No.		Driver		Lynn		Driver		Lynn		Gel. 3	
Bulktrk		1		No.		Driver		Lynn		Driver		Lynn		Calcium 5	
JOB SERVICES & REMARKS								Hulls							
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							
8 5/8 Bottom - Est. Circulation								Handling 158							
M.V. 150514 Displace								Mileage							
Cement Circulated!								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surface							
								Mileage 44							
								Tax							
								Discount							
								Total Charge							
Signature								Cliff Mayfield							

JOB LOG

SWIFT Services, Inc.

DATE 5-9-13 PAGE NO. 1

CUSTOMER: Downing & Nelson WELL NO. #1-30 LEASE Wendelya Herman JOB TYPE 2-stage TICKET NO. 23995

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2200							on loc w/FE
								RTD 4110' LTD 4106'
								5 1/2" x 14" x 4105' x 20'
								Cent. 1, 3, 5, 7, 9, 11, 13, 46
								Back 1, 47
								DV 47 @ 2197'
	2330							Start FE
	0115							Break Circ
	0205	5	0			200		Start Pro-flushes ^{500 gal Mud flush} 20 bbl KCl flush
	0213	5	32/0			200		Start 150 sks EA-2 Cent
	0220		36					End Cement
								Wash Pk
								Drop L.D. Plug
	0227	6	0			150		Start Displacement
	0239	5	68			200		Catch Cement KCl in last 20 bbl
	0245		100			700/400		Land Plug/Release Press/Float Hd
								Drop opening Plug
	0255		7/5					Plug RHTMH 30/15 sks SMD cent
	0305					1100		Open DV
	0310	5	0			150		Start 180 sks SMD
	0330		100			150		End Cement
								Drop Closing Plug
	0334	5	0			150		Start Displacement
	0343	4	45			400		Circ. Cement
	0345		53			450/1500		Land Plug
								Release Pressure
								D.V. Closed
								circ 20 sks to pit
								Thank you
								Nick, David B & Isaac



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

30-9s-23w Graham,KS

Wendelin Herman #1-30

Start Date: 2013.05.07 @ 10:56:00

End Date: 2013.05.07 @ 17:48:00

Job Ticket #: 50291 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.15 @ 10:07:17

Downing-Nelson Oil Co.

Wendelin Herman #1-30

30-9s-23w Graham,KS

DST # 1

KC "C-D"

2013.05.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 50291

DST#: 1

Test Start: 2013.05.07 @ 10:56:00

GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:02:00

Time Test Ended: 17:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3860.00 ft (KB) To 3907.00 ft (KB) (TVD)

Reference Elevations: 2481.00 ft (KB)

Total Depth: 3907.00 ft (KB) (TVD)

2474.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 236.81 psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.07

End Date:

2013.05.07

Last Calib.: 2013.05.07

Start Time: 10:56:05

End Time:

17:47:59

Time On Btm: 2013.05.07 @ 13:01:00

Time Off Btm: 2013.05.07 @ 15:33:30

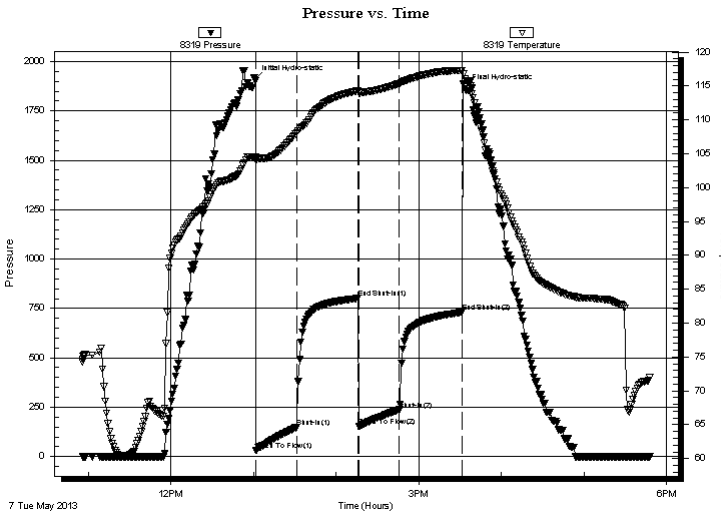
TEST COMMENT: IF-BOB in 4"

ISI-BOB in 22 min

FF-BOB in 7 min

FSI-BOB in 12 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.59	104.52	Initial Hydro-static
1	33.02	104.04	Open To Flow (1)
31	148.67	108.12	Shut-In(1)
75	801.97	114.27	End Shut-In(1)
76	151.96	113.95	Open To Flow (2)
105	236.81	115.35	Shut-In(2)
151	733.26	117.30	End Shut-In(2)
153	1864.22	116.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Oil spotted SMCW	3.51
60.00	GSWOCM 20%G 20%O 10%W 50%M	0.84
250.00	GO 30%G 70%O	3.51
0.00	1395 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.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

Job Ticket: 50291

DST#: 1

ATTN: Ron Nelson

Test Start: 2013.05.07 @ 10:56:00

Tool Information

Drill Pipe:	Length: 3864.00 ft	Diameter: 3.80 inches	Volume: 54.20 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:	60000.00 lb
			<u>Total Volume: 54.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3860.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 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			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	8319	Inside	3861.00	
Recorder	0.00	8166	Outside	3861.00	
Perforations	2.00			3863.00	
Change Over Sub	1.00			3864.00	
Drill Pipe	32.00			3896.00	
Change Over Sub	1.00			3897.00	
Perforations	7.00			3904.00	
Bullnose	3.00			3907.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

Job Ticket: 50291

DST#: 1

ATTN: Ron Nelson

Test Start: 2013.05.07 @ 10:56:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	Oil spotted SMCW	3.507
60.00	GSWOCM 20%G 20%O 10%W 50%M	0.842
250.00	GO 30%G 70%O	3.507
0.00	1395 GIP	0.000

Total Length: 560.00 ft

Total Volume: 7.856 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

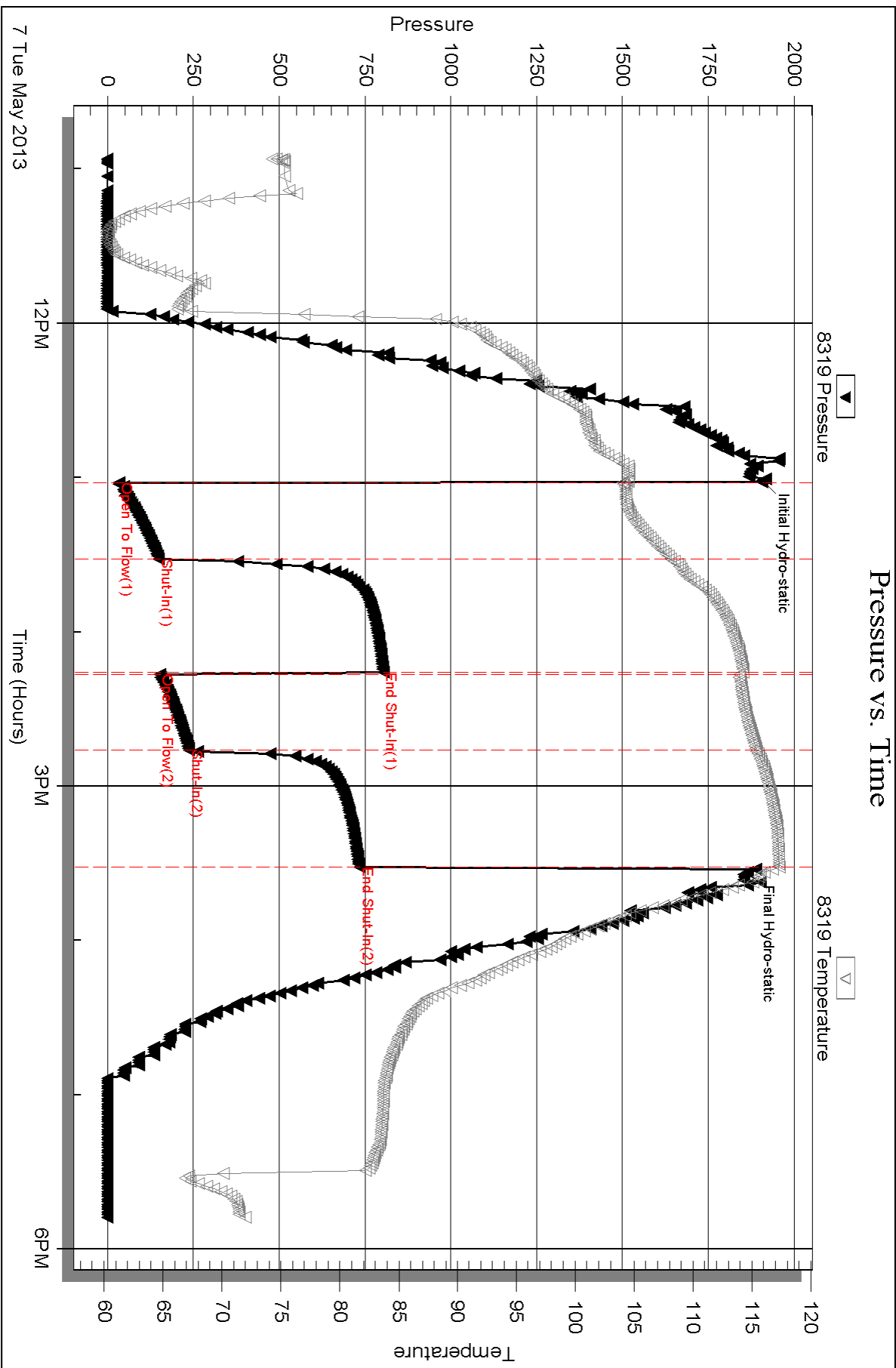
Serial #: 8319

Inside

Dow nting-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50291

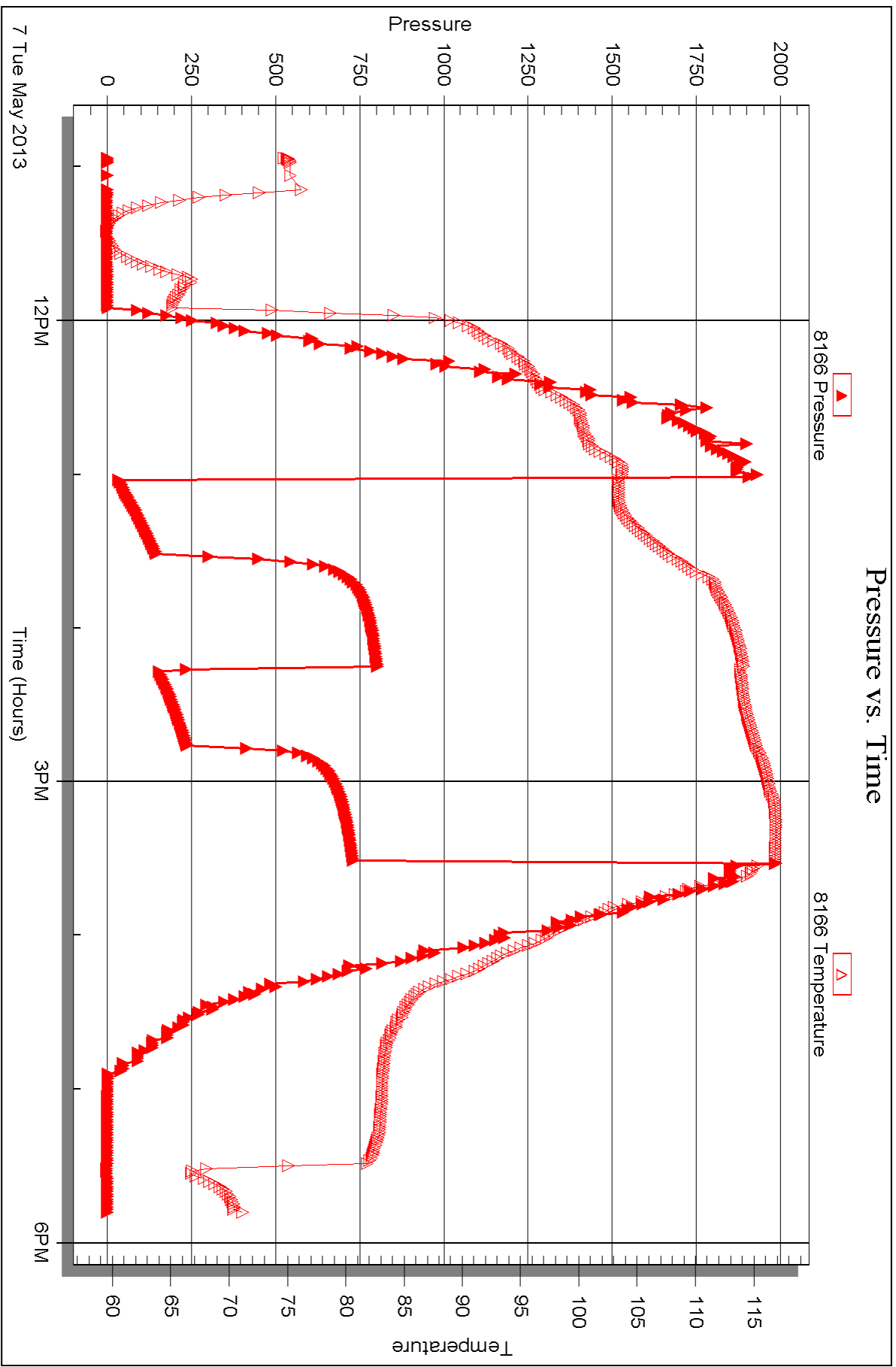
Printed: 2013.05.15 @ 10:07:19

Serial #: 8166

Outside Dow nting-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

30-9s-23w Graham,KS

Wendelin Herman #1-30

Start Date: 2013.05.08 @ 00:30:00

End Date: 2013.05.08 @ 06:59:00

Job Ticket #: 50292 DST #: 2

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

Printed: 2013.05.15 @ 10:06:44

Downing-Nelson Oil Co.

Wendelin Herman #1-30

30-9s-23w Graham,KS

DST # 2

KC "E"

2013.05.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 50292

DST#: 2

Test Start: 2013.05.08 @ 00:30:00

GENERAL INFORMATION:

Formation: **KC "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:23:00
 Time Test Ended: 06:59:00
 Interval: **3899.00 ft (KB) To 3926.00 ft (KB) (TVD)**
 Total Depth: 3926.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2481.00 ft (KB)
 2474.00 ft (CF)
 KB to GR/CF: 7.00 ft

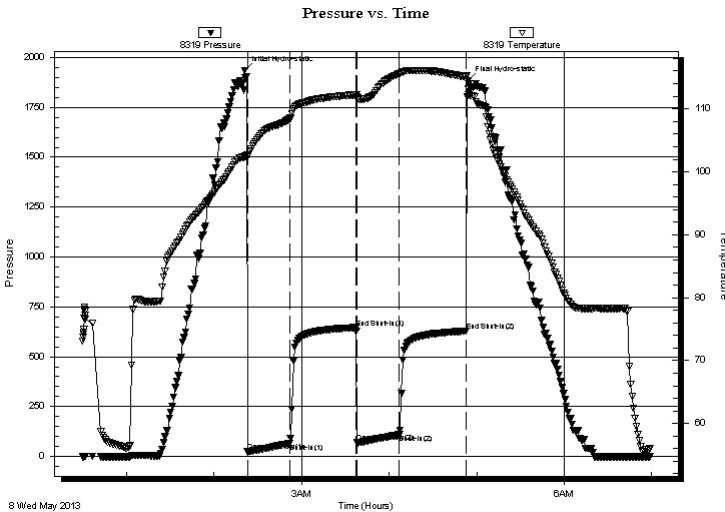
Serial #: 8319

Inside

Press @ Run Depth: 109.33 psig @ 3900.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.08 End Date: 2013.05.08 Last Calib.: 2013.05.08
 Start Time: 00:30:05 End Time: 06:58:59 Time On Btm: 2013.05.08 @ 02:21:00
 Time Off Btm: 2013.05.08 @ 04:54:00

TEST COMMENT: IF-BOB in 5 min
 ISI-No blow
 FF-BOB in 5 min
 FSI-1 1/2" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.41	102.35	Initial Hydro-static
2	23.81	102.44	Open To Flow (1)
31	65.84	108.41	Shut-In(1)
76	645.96	112.19	End Shut-In(1)
77	69.11	111.94	Open To Flow (2)
106	109.33	115.54	Shut-In(2)
152	628.64	115.08	End Shut-In(2)
153	1881.64	113.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	GSMCO 25%G 65%O 10%M	2.67
80.00	GO 20%G 80%O	1.12
0.00	1240ft 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.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 50292

DST#: 2

Test Start: 2013.05.08 @ 00:30:00

Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 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:	65000.00 lb
			<u>Total Volume: 54.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3899.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	48.00 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			3879.00	
Shut In Tool	5.00			3884.00	
Hydraulic tool	5.00			3889.00	
Packer	5.00			3894.00	21.00 Bottom Of Top Packer
Packer	5.00			3899.00	
Stubb	1.00			3900.00	
Recorder	0.00	8319	Inside	3900.00	
Recorder	0.00	8166	Outside	3900.00	
Perforations	23.00			3923.00	
Bullnose	3.00			3926.00	27.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

Job Ticket: 50292

DST#: 2

ATTN: Ron Nelson

Test Start: 2013.05.08 @ 00:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
190.00	GSMCO 25%G 65%O 10%M	2.665
80.00	GO 20%G 80%O	1.122
0.00	1240ft GIP	0.000

Total Length: 270.00 ft Total Volume: 3.787 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

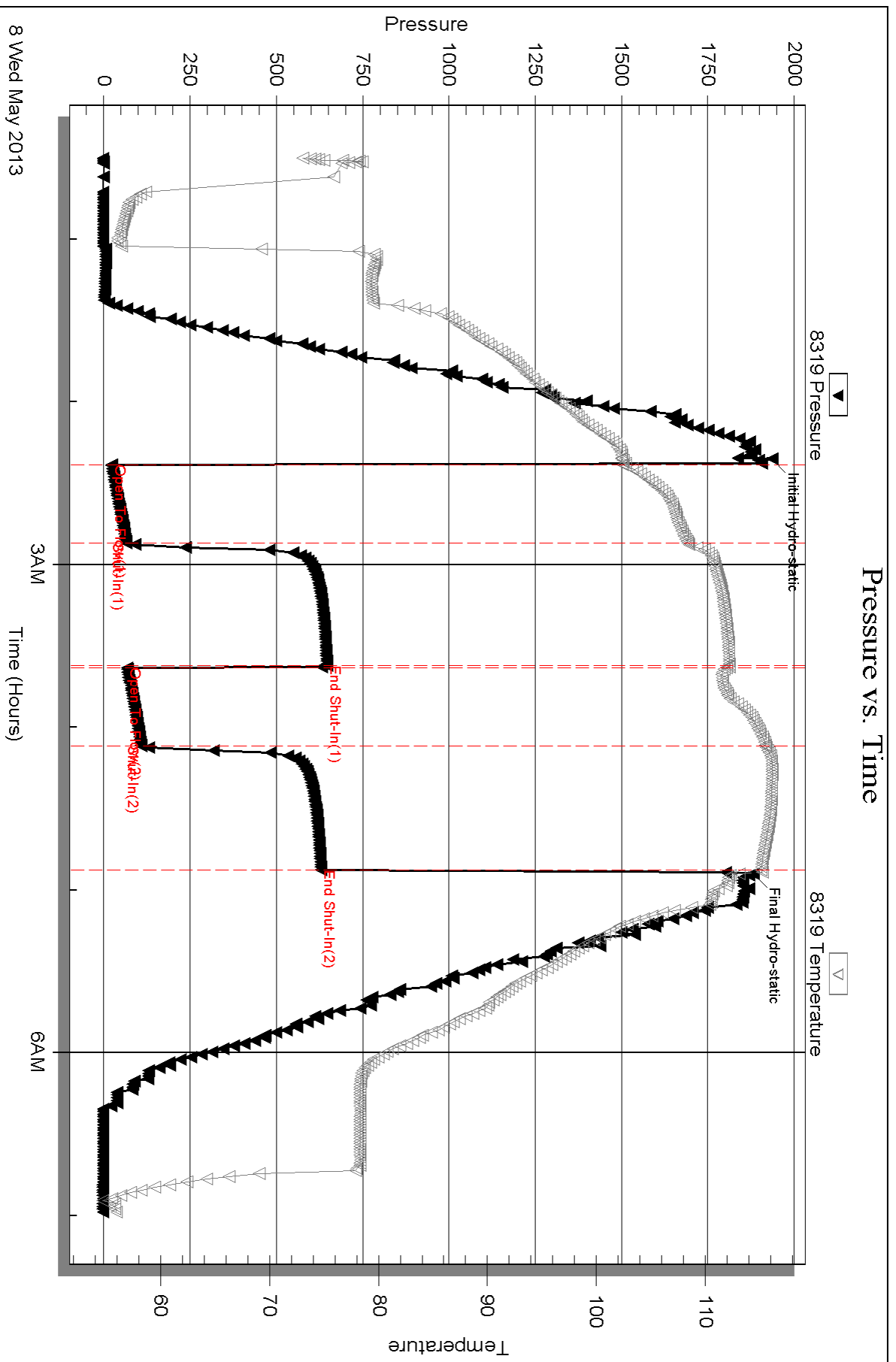
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



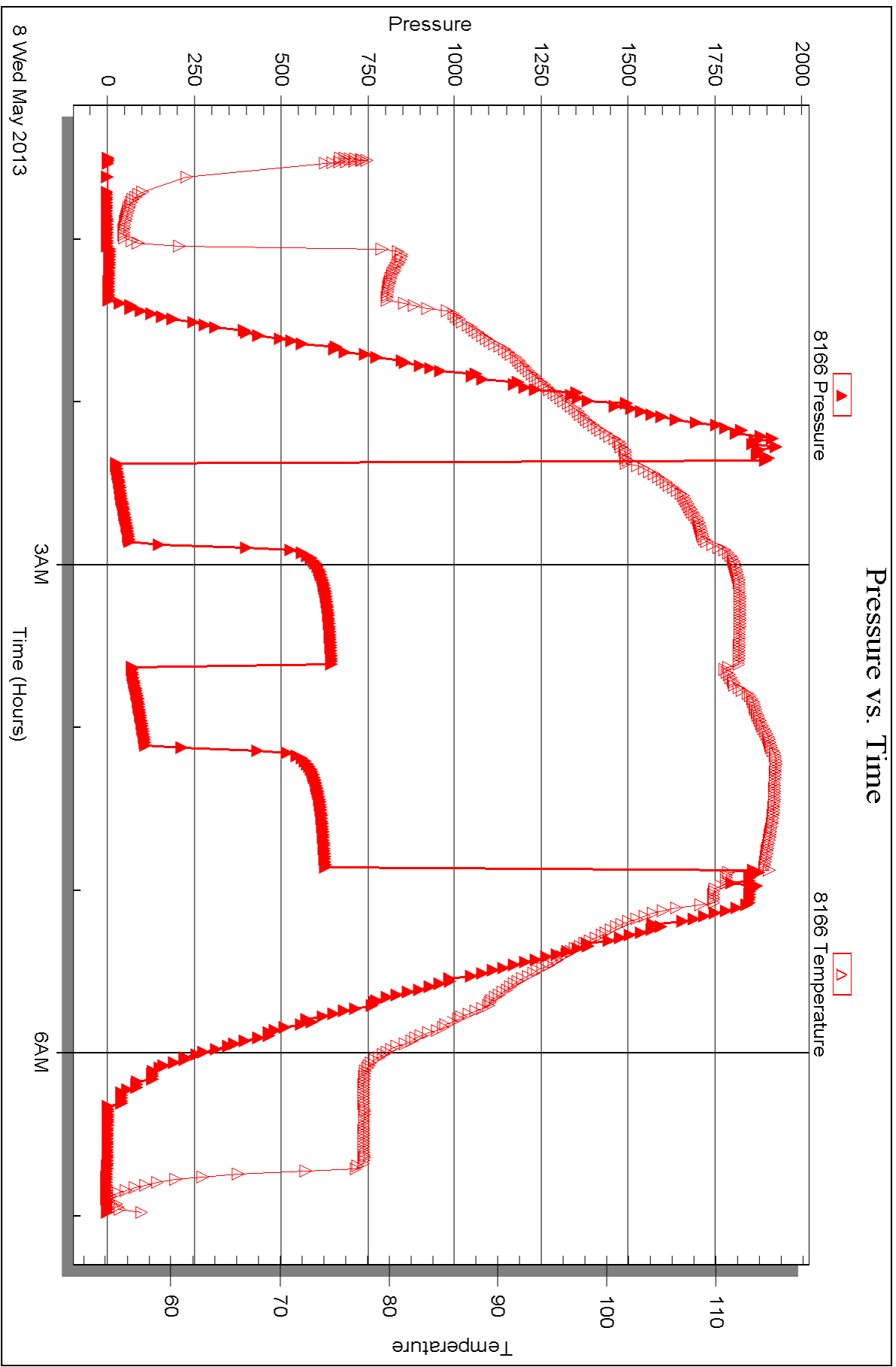
Serial #: 8166

Outside

Dow nung-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50292

Printed: 2013.05.15 @ 10:06:47



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

30-9s-23w Graham,KS

Wendelin Herman #1-30

Start Date: 2013.05.08 @ 18:55:00

End Date: 2013.05.09 @ 01:08:30

Job Ticket #: 50293 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.15 @ 10:06:04

Downing-Nelson Oil Co.

Wendelin Herman #1-30

30-9s-23w Graham,KS

DST # 3

KC "I-J"

2013.05.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 50293

DST#: 3

Test Start: 2013.05.08 @ 18:55:00

GENERAL INFORMATION:

Formation: **KC"I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:31:00

Time Test Ended: 01:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3979.00 ft (KB) To 4026.00 ft (KB) (TVD)

Reference Elevations: 2481.00 ft (KB)

Total Depth: 4026.00 ft (KB) (TVD)

2474.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 19.22 psig @ 3980.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.08

End Date:

2013.05.09

Last Calib.:

2013.05.09

Start Time: 18:55:05

End Time:

01:08:29

Time On Btm:

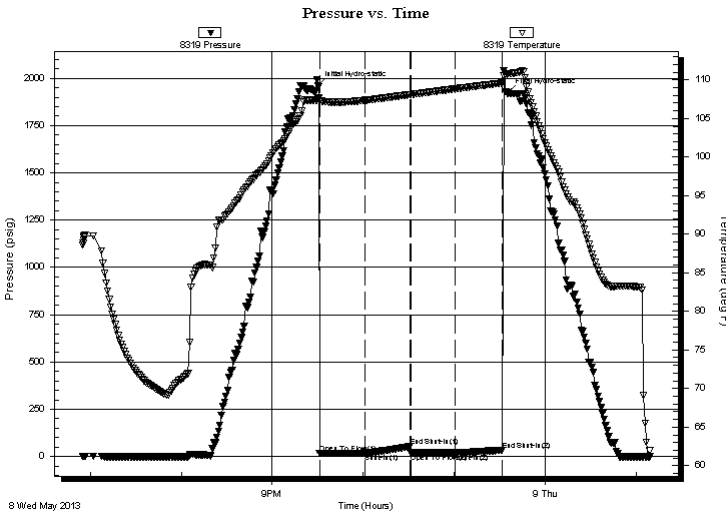
2013.05.08 @ 21:30:00

Time Off Btm:

2013.05.08 @ 23:35:00

TEST COMMENT: IF-1/4" blow
IS-No blow
FF-No blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.52	107.56	Initial Hydro-static
1	17.22	107.20	Open To Flow (1)
31	18.87	107.36	Shut-In(1)
61	52.61	108.09	End Shut-In(1)
62	18.62	108.11	Open To Flow (2)
90	19.22	108.84	Shut-In(2)
122	33.14	109.60	End Shut-In(2)
125	1922.37	110.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

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.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

ATTN: Ron Nelson

Job Ticket: 50293

DST#: 3

Test Start: 2013.05.08 @ 18:55:00

Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.80 inches	Volume: 55.98 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:	65000.00 lb
			<u>Total Volume: 55.98 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3979.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 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			3959.00	
Shut In Tool	5.00			3964.00	
Hydraulic tool	5.00			3969.00	
Packer	5.00			3974.00	21.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Stubb	1.00			3980.00	
Recorder	0.00	8319	Inside	3980.00	
Recorder	0.00	8166	Outside	3980.00	
Perforations	2.00			3982.00	
Change Over Sub	1.00			3983.00	
Drill Pipe	32.00			4015.00	
Change Over Sub	1.00			4016.00	
Perforations	7.00			4023.00	
Bullnose	3.00			4026.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

Wendelin Herman #1-30

PO Box 1019
Hays KS 67601

30-9s-23w Graham,KS

Job Ticket: 50293

DST#: 3

ATTN: Ron Nelson

Test Start: 2013.05.08 @ 18:55:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

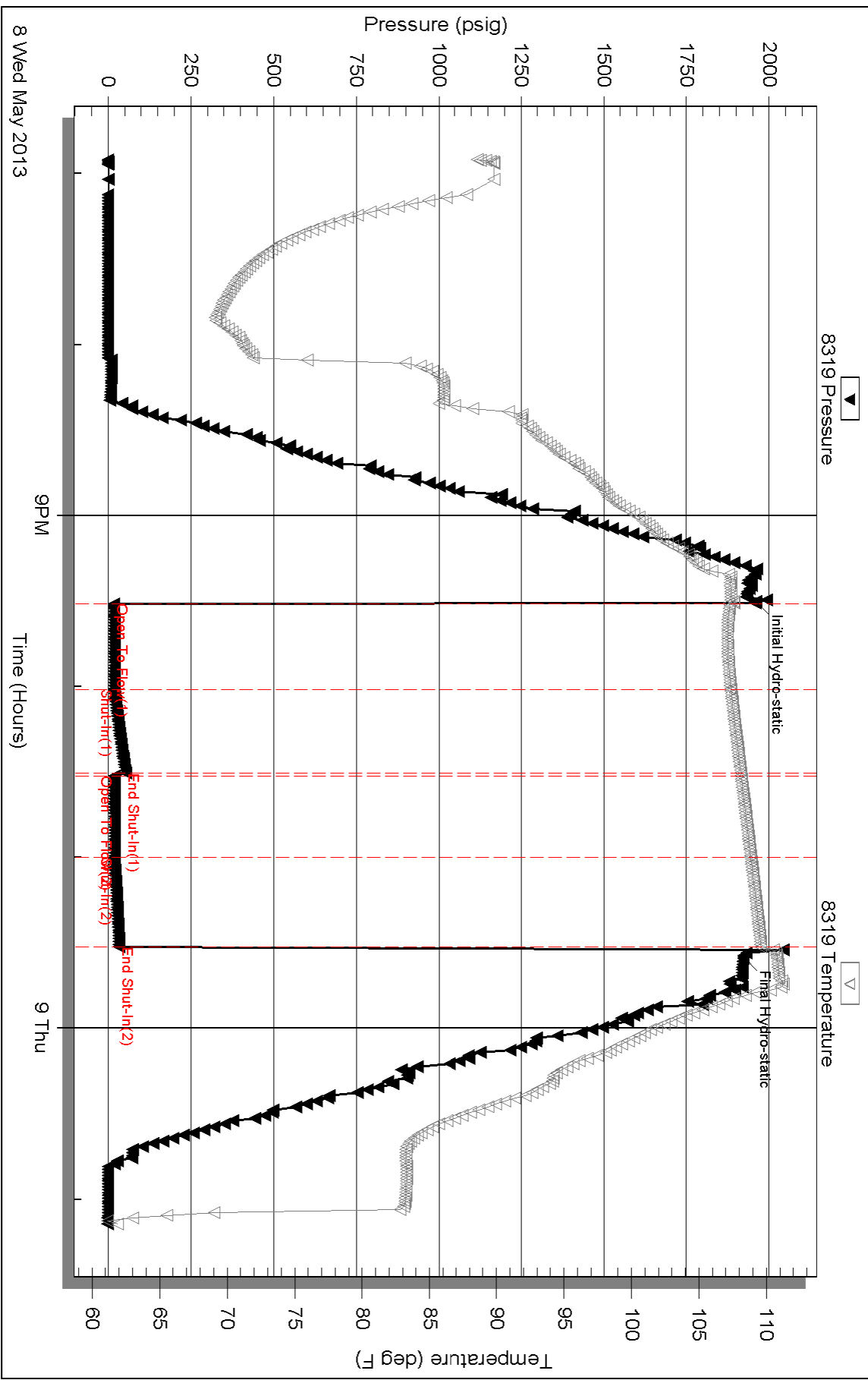
Inside

Dow nting-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50293

Printed: 2013.05.15 @ 10:06:07

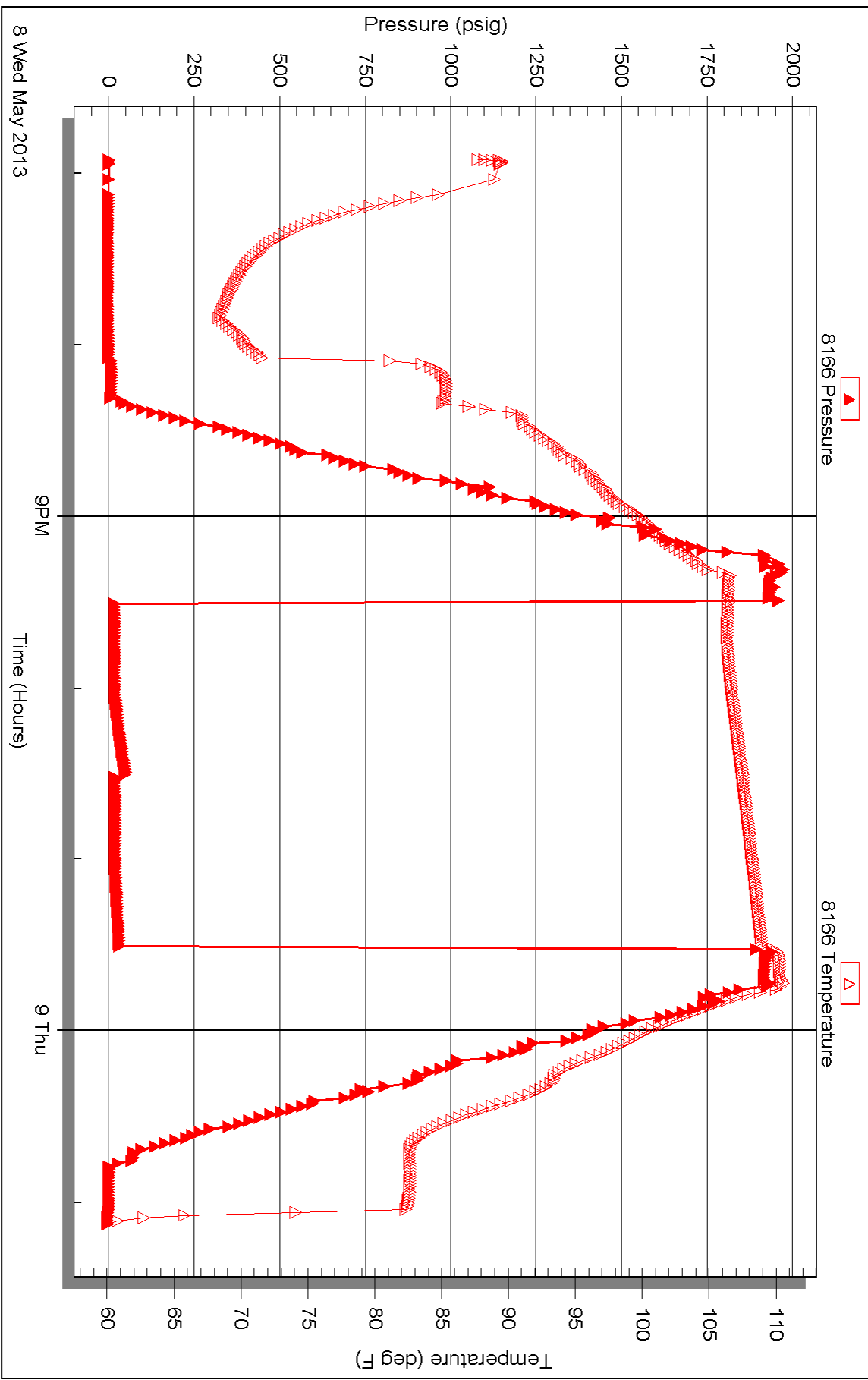
Serial #: 8166

Outside Dow nting-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50293

Printed: 2013.05.15 @ 10:06:07



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50291

Well Name & No. Wendelin Herman #1-30 Test No. 1 Date 5/2/13
 Company Downing-Nelson Oil Co Inc. Elevation 2481 KB 2474 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 30 Twp. 9 Rge. 23 Co. Graham State KS

Interval Tested 3860-3907 Zone Tested KC" C, D"
 Anchor Length 47 Drill Pipe Run 3864 Mud Wt. 8.9
 Top Packer Depth 3855 Drill Collars Run — Vis 65
 Bottom Packer Depth 3860 Wt. Pipe Run — WL 8.0
 Total Depth 3907 Chlorides 1500 ppm System LCM #2

Blow Description FF - BOB in 4min
ISI - BOB in 22min
FF - BOB in 7min
ESI - BOB in 12min

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Feet of 250 oil spotted snow</u>			<u>90</u>	<u>10</u>
<u>60</u>	<u>Feet of GSWOCM</u>	<u>20</u>	<u>20</u>	<u>10</u>	<u>50</u>
<u>250</u>	<u>Feet of 60</u>	<u>30</u>	<u>70</u>		
<u>—</u>	<u>Feet of 1395 GP</u>				
<u>—</u>	<u>Feet of</u>				

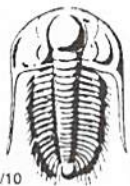
Rec Total 560 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,907 Test 1150 T-On Location 10:15
 (B) First Initial Flow 33 Jars _____ T-Started 10:56
 (C) First Final Flow 149 Safety Joint _____ T-Open 13:00
 (D) Initial Shut-In 802 Circ Sub _____ T-Pulled 15:30
 (E) Second Initial Flow 152 Hourly Standby _____ T-Out 17:50
 (F) Second Final Flow 237 Mileage 116 rt 179.80 Comments _____
 (G) Final Shut-In 733 Sampler _____
 (H) Final Hydrostatic 1,864 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1329.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1329.80

Approved By _____

Our Representative [Signature]

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. 50292

Well Name & No. Wendelin Herman #1-30 Test No. 2 Date 5/8/13
 Company Powning-Nelson Oil Co Inc. Elevation 2481 KB 2474 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 30 Twp. 9 Rge. 23 Co. Graham State KS

Interval Tested 3899-3926 Zone Tested KC" F"
 Anchor Length 27 Drill Pipe Run 3894 Mud Wt. 8.9
 Top Packer Depth 3894 Drill Collars Run — Vis 65
 Bottom Packer Depth 3899 Wt. Pipe Run — WL 8.0
 Total Depth 3926 Chlorides 1,500 ppm System LCM 2

Blow Description IF - BOB in 5 min
FSL - No blow
FF - BOB in 5 min
FSL - 1 1/2 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>190</u>	<u>GSMCO</u>	<u>25</u>	<u>65</u>		<u>10</u>
<u>—</u>	<u>1240 FT GP</u>				
<u>—</u>	<u>—</u>				
<u>—</u>	<u>—</u>				

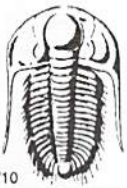
Rec Total 270 BHT 115 Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1,935 Test 1150 T-On Location 00:05
 (B) First Initial Flow 24 Jars — T-Started 00:30
 (C) First Final Flow 66 Safety Joint — T-Open 2:22
 (D) Initial Shut-In 646 Circ Sub — T-Pulled 4:52
 (E) Second Initial Flow 69 Hourly Standby — T-Out 7:00
 (F) Second Final Flow 109 Mileage 116 RT 179.80 Comments —
 (G) Final Shut-In 629 Sampler —
 (H) Final Hydrostatic 1,882 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1329.80
 Accessibility — MP/DST Disc't —

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Sub Total 1329.80

Approved By _____ Our Representative Burt [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50293

Well Name & No. Wendelin - Herman #1-30 Test No. 3 Date 5/8/13
 Company Dawning - Nelson Oil Co Inc. Elevation 2481 KB 2474 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 30 Twp. 9 Rge. 23 Co. Graham State KS

Interval Tested 3979 - 4026 Zone Tested KC "I, J"
 Anchor Length 47 Drill Pipe Run 3991 Mud Wt. _____
 Top Packer Depth 3974 Drill Collars Run _____ Vis _____
 Bottom Packer Depth 3979 Wt. Pipe Run _____ WL _____
 Total Depth 4026 Chlorides _____ ppm System LCM _____
 Blow Description IF - 4 in blow died in 23 min
ISI - No blow
FF - No blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

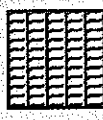
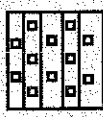


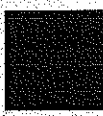

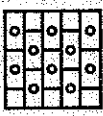
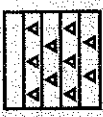

Rec Total 5 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

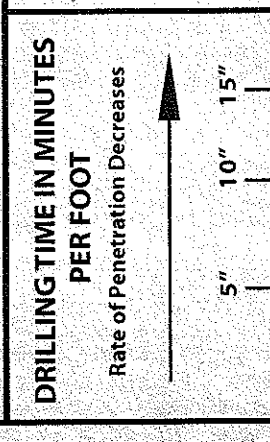
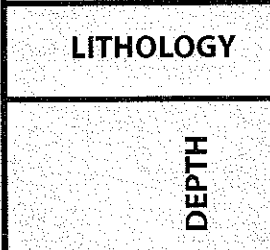
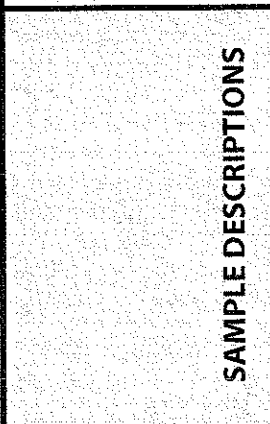


(A) Initial Hydrostatic 1960 Test 1250 T-On Location 18:15
 (B) First Initial Flow 17 Jars _____ T-Started 18:55
 (C) First Final Flow 19 Safety Joint _____ T-Open 21:23
 (D) Initial Shut-In 53 Circ Sub _____ T-Pulled 23:23
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 1:05
 (F) Second Final Flow 19 Mileage 116.7 X2 359.60 Comments _____
 (G) Final Shut-In 33 Sampler _____ loaded tools 5/9 9:00
 (H) Final Hydrostatic 1922 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1609.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1609.60

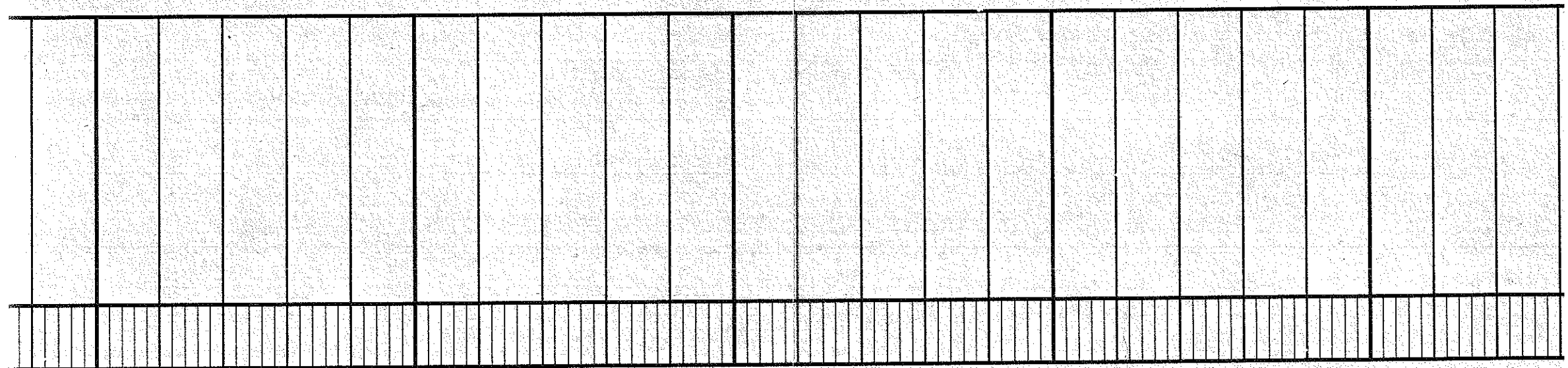
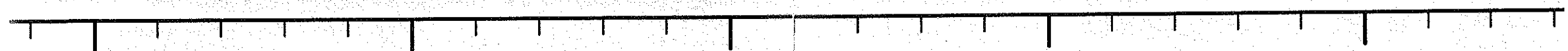
Approved By _____ Our Representative Burt D...

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LEGEND

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

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	<p>2100</p> <p>50</p> <p>2200</p> <p>3300</p>				



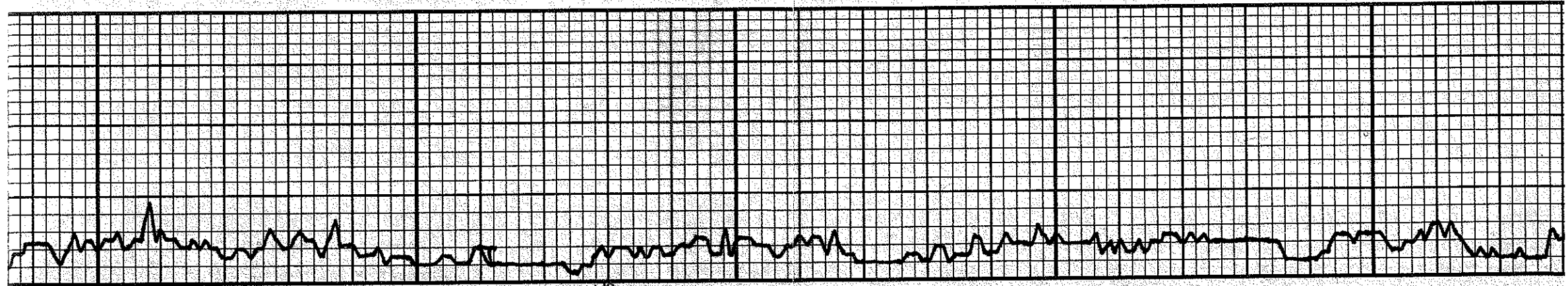
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3400

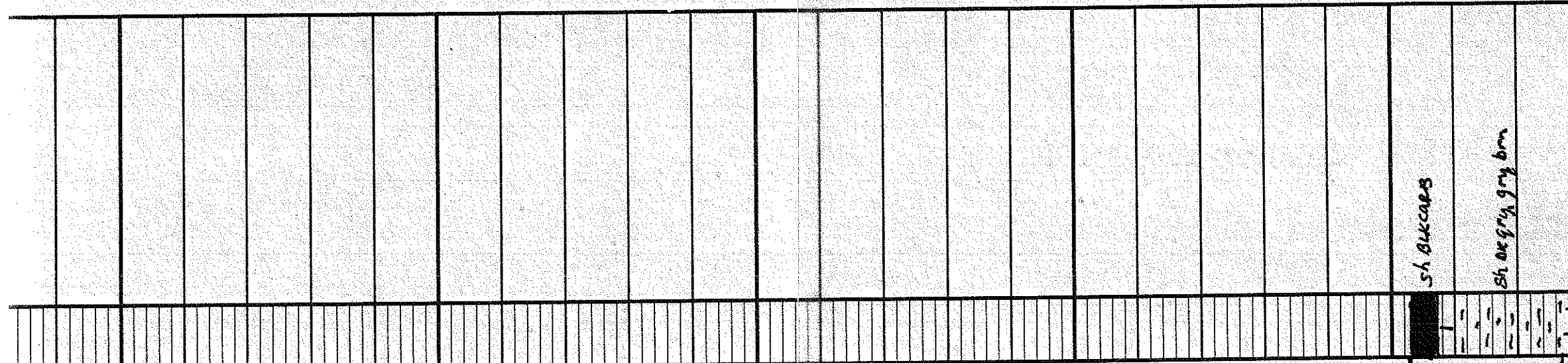
50

3500

50



50



sh alkalis
sh orgy, gmy brn

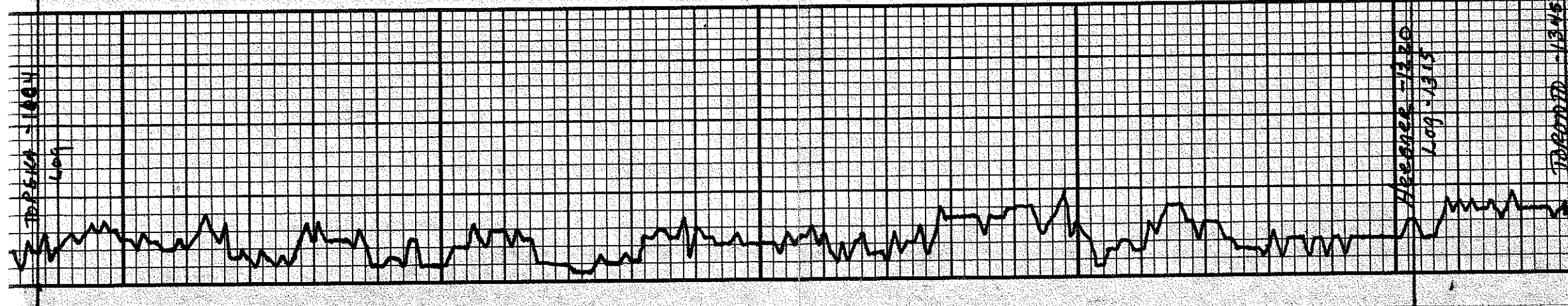
3600

50

3700

50

3800



TOPEKA - 100W
Log

TOPEKA - 100W
Log

TOPEKA - 100W

	<p>DRILLING TIME Minutes/Foot</p> <p>Rate of Penetration Decreases</p>	<p>DEPTH</p>	<p>LITHOLOGY</p>	<p>SAMPLE DESCRIPTIONS</p>	<p>OIL SHOWS</p>	<p>REMARKS</p>
<p>CONTRACTOR <u>DISCOVERY DRILLING Rig #1</u> LOCATION <u>335 E34 S 2425' FUL</u></p> <p>LEASE <u>Wade in Herman #1-30</u> IP <u>LKC</u> SEC <u>30</u> TWP <u>9S</u> RNG <u>236</u></p> <p>ELEVATION <u>2492' UB</u> RTD <u>4110'</u> COUNTY <u>Greerton</u> STATE <u>Kansas</u></p>						

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 18, 2013

Ron Nelson
Downing-Nelson Oil Co Inc
PO BOX 1019
HAYS, KS 67601

Re: ACO-1
API 15-065-23925-00-00
Wendelin Herman 1-30
SW/4 Sec.30-09S-23W
Graham County, Kansas

Dear Ron Nelson:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 05/03/2013 and the ACO-1 was received on September 10, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department