



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1189500
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
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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

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: _____

1189500

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 <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 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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

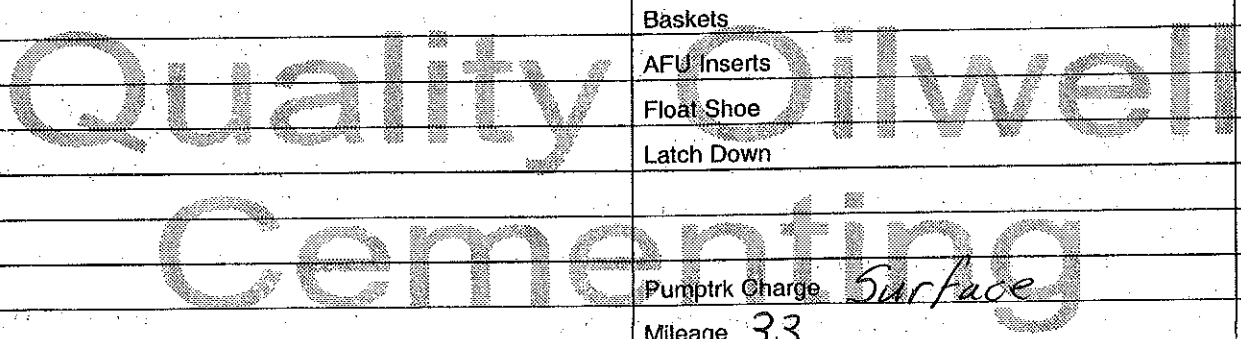
Federal Tax I.D.# 20-2886107

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

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

No. 7152

Date	2-1-14	Sec.	4	Twp.	9	Range	24	County	Graham	State	Ks	On Location		Finish	11:30 PM	
Lease	Waht "B"							Well No.	#1-4	Owner 180 Rd, 4N to L Rd, E into						
Contractor	Discovery #1							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.								
Type Job	Surface							Charge To Downing - Nelson								
Hole Size	12 1/4"		T.D.		212'		Street									
Csg.	8 5/8"		Depth		212'		City									
Tbg. Size			Depth				State									
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	15'		Shoe Joint		15'		Cement Amount Ordered 150 SX Common 3% gel									
Meas Line			Displace		12 1/2 BLS		2% Gel									
EQUIPMENT																
Pumptrk	16	No.	Cementer		Billy		Common 150									
			Helper				Poz. Mix									
Bulktrk	9	No.	Driver		David		Gel. 3									
			Driver		Ryan		Calcium 5									
Bulktrk	PW	No.	Driver		Rick		Hulls									
			Driver				Salt									
JOB SERVICES & REMARKS																
Remarks:	Cement did Circulate															
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 33															
	Tax															
	Discount															
	Total Charge															
X Signature	Cliff Mayfield															





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson , Marc Do

Walt B #1-4

4-9s-24w Graham,KS

Start Date: 2014.02.08 @ 04:05:55

End Date: 2014.02.08 @ 11:12:19

Job Ticket #: 56239 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.11 @ 09:15:18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56239

DST#: 1

ATTN: Ron Nelson , Marc Do

Test Start: 2014.02.08 @ 04:05:55

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:13:20

Time Test Ended: 11:12:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3822.00 ft (KB) To 3865.00 ft (KB) (TVD)

Reference Elevations: 2475.00 ft (KB)

Total Depth: 3865.00 ft (KB) (TVD)

2467.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press@RunDepth: 208.48 psig @ 3829.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.08

End Date:

2014.02.08

Last Calib.:

2014.02.08

Start Time:

04:05:55

End Time:

11:12:19

Time On Btm:

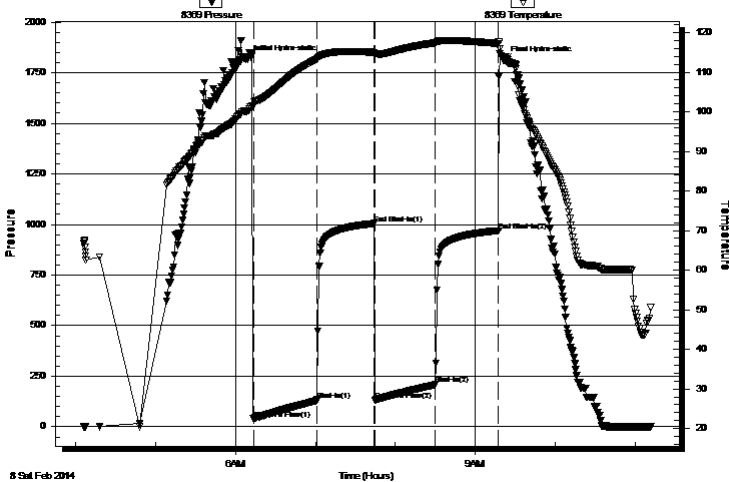
2014.02.08 @ 06:08:50

Time Off Btm:

2014.02.08 @ 09:21:49

TEST COMMENT: 45-IFP-w k to a strg bl in 35 min
45-ISIP-no bl bk
45-FFP-w k to a strg bl in 40 min
45-FSIP-no bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1814.50	100.16	Initial Hydro-static
5	39.40	101.44	Open To Flow (1)
53	133.16	113.27	Shut-In(1)
96	1004.87	115.02	End Shut-In(1)
96	132.66	114.72	Open To Flow (2)
142	208.48	117.42	Shut-In(2)
189	969.57	117.24	End Shut-In(2)
193	1810.37	113.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	4.08
90.00	SOCMW 1%O39%M60%W	1.26
1.00	CO	0.01

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56239

DST#: 1

ATTN: Ron Nelson , Marc Do

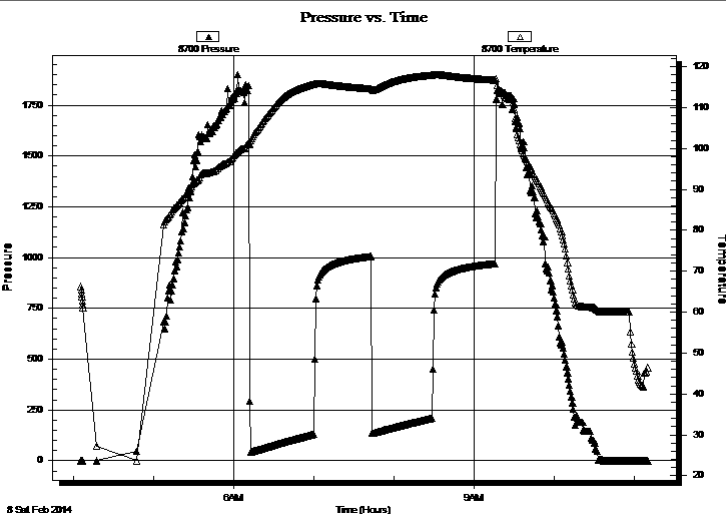
Test Start: 2014.02.08 @ 04:05:55

GENERAL INFORMATION:

Formation: **LKC C-D**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 06:13:20 Tester: Ray Schw ager
Time Test Ended: 11:12:19 Unit No: 70
Interval: **3822.00 ft (KB) To 3865.00 ft (KB) (TVD)** Reference Elevations: 2475.00 ft (KB)
Total Depth: 3865.00 ft (KB) (TVD) 2467.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8700 Outside
Press@RunDepth: psig @ 3829.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.08 End Date: 2014.02.08 Last Calib.: 2014.02.08
Start Time: 04:05:23 End Time: 11:10:17 Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IFP-w k to a strg bl in 35 min
45-ISIP-no bl bk
45-FFP-w k to a strg bl in 40 min
45-FSIP-no bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	4.08
90.00	SOCMW 1%O39%M60%W	1.26
1.00	CO	0.01

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

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56239

DST#: 1

ATTN: Ron Nelson , Marc Do

Test Start: 2014.02.08 @ 04:05:55

Tool Information

Drill Pipe:	Length: 3788.00 ft	Diameter: 3.80 inches	Volume: 53.14 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: 53.29 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3822.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	43.00 ft				
Tool Length:	64.00 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			3802.00	
Shut In Tool	5.00			3807.00	
Hydraulic tool	5.00			3812.00	
Packer	5.00			3817.00	21.00 Bottom Of Top Packer
Packer	5.00			3822.00	
Stubb	1.00			3823.00	
Perforations	6.00			3829.00	
Recorder	0.00	8369	Inside	3829.00	
Recorder	0.00	8700	Outside	3829.00	
Blank Spacing	33.00			3862.00	
Bullnose	3.00			3865.00	43.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56239

DST#: 1

ATTN: Ron Nelson , Marc Do

Test Start: 2014.02.08 @ 04:05:55

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:

75000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 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 bbl
310.00	Water	4.075
90.00	SOCMW 1%O39%M60%W	1.262
1.00	CO	0.014

Total Length: 401.00 ft Total Volume: 5.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

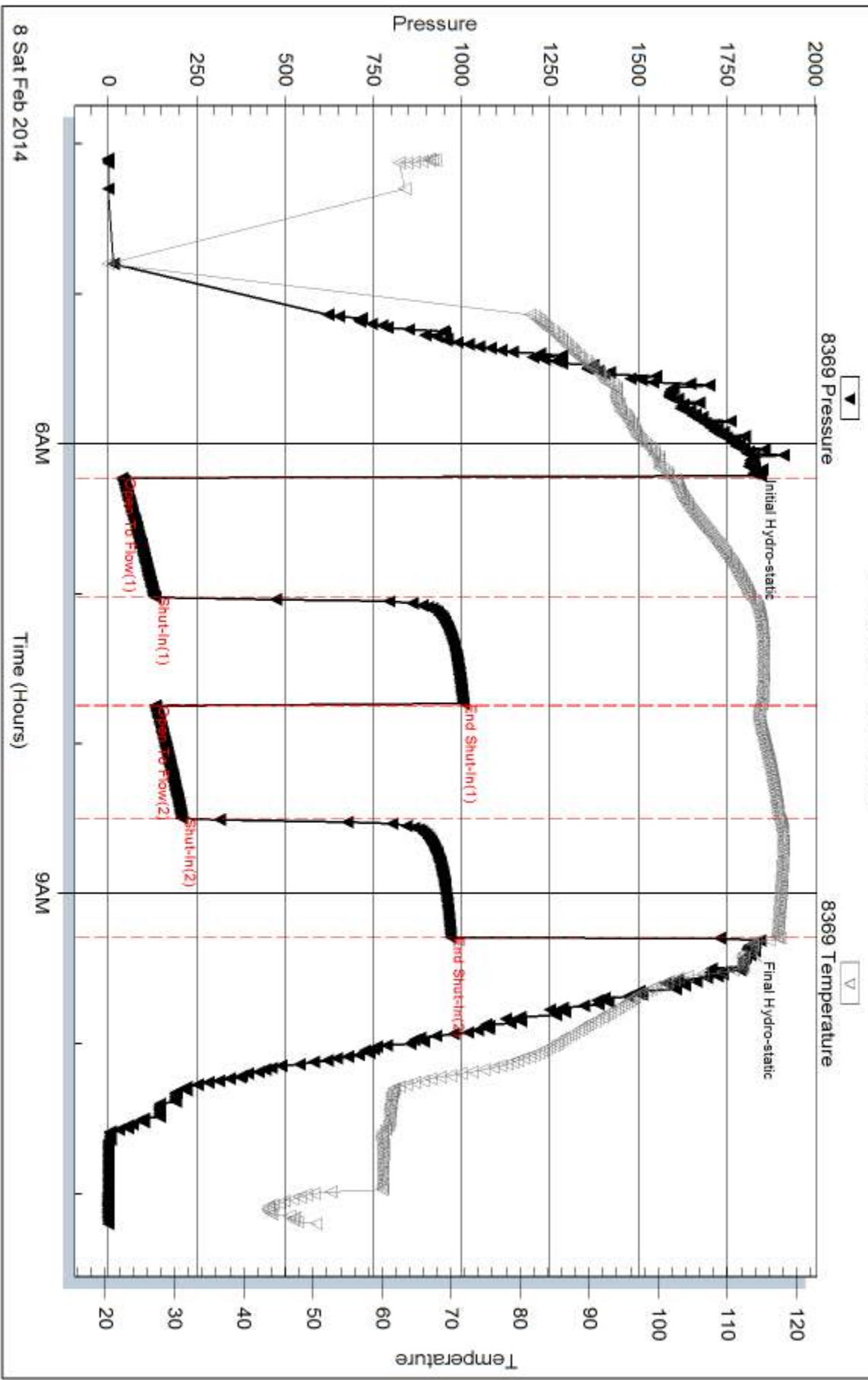
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: slid tool approx 6'to bottom
RW .14@50F

Pressure vs. Time

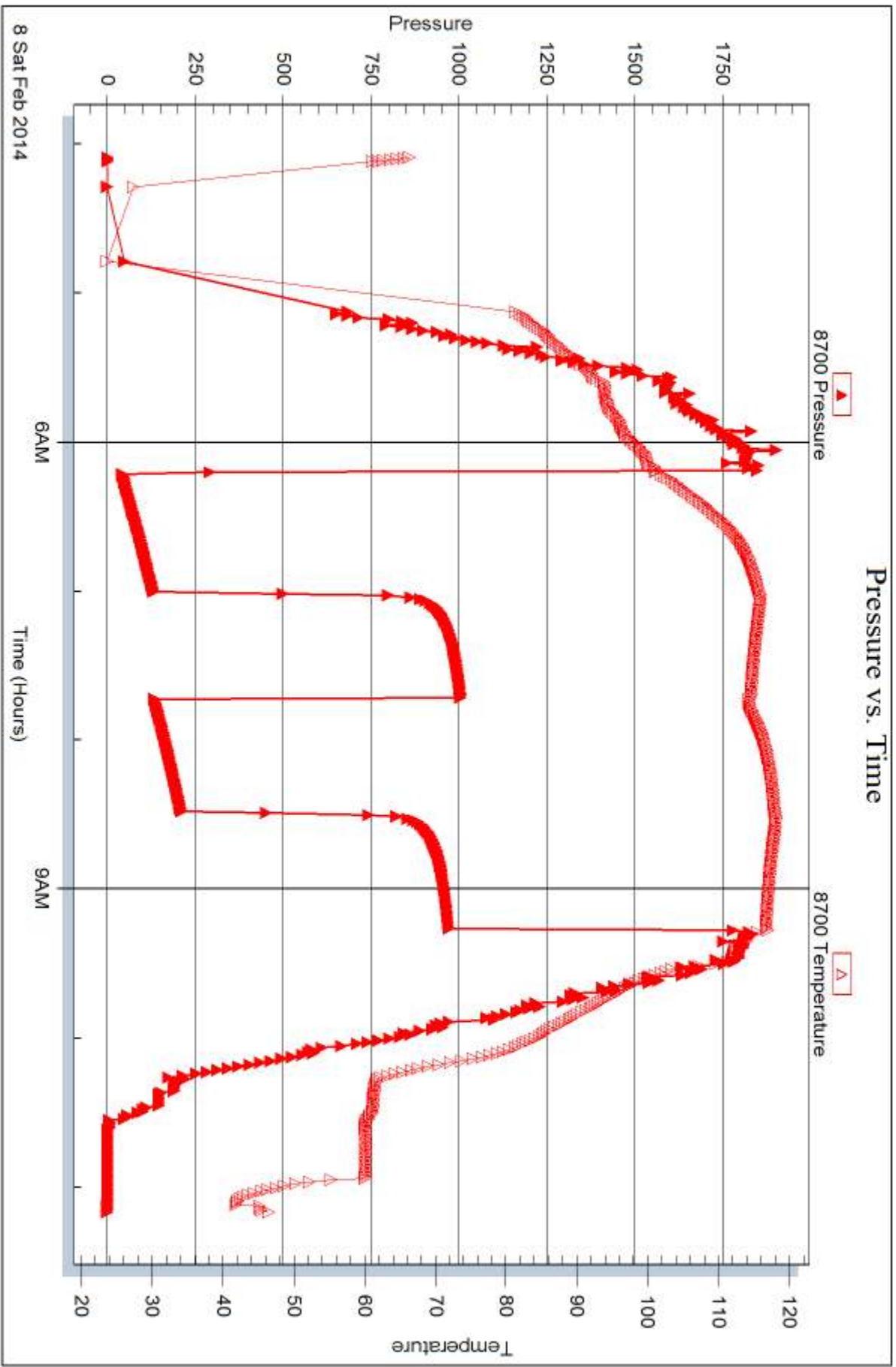


Serial #: 8700

Outside Dow nng-Nelson Oil Co Inc

Well B#1-4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56239

Printed: 2014.02.11 @ 09:15:21



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson , Marc Do

Walt B #1-4

4-9s-24w Graham,KS

Start Date: 2014.02.09 @ 00:30:41

End Date: 2014.02.09 @ 06:26:20

Job Ticket #: 56240 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.11 @ 09:14:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56240

DST#: 2

ATTN: Ron Nelson , Marc Do

Test Start: 2014.02.09 @ 00:30:41

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:29:51

Time Test Ended: 06:26:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3921.00 ft (KB) To 3995.00 ft (KB) (TVD)

Reference Elevations: 2475.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2467.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press@RunDepth: 35.89 psig @ 3928.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.09

End Date:

2014.02.09

Last Calib.:

2014.02.09

Start Time: 00:30:41

End Time:

06:26:20

Time On Btm:

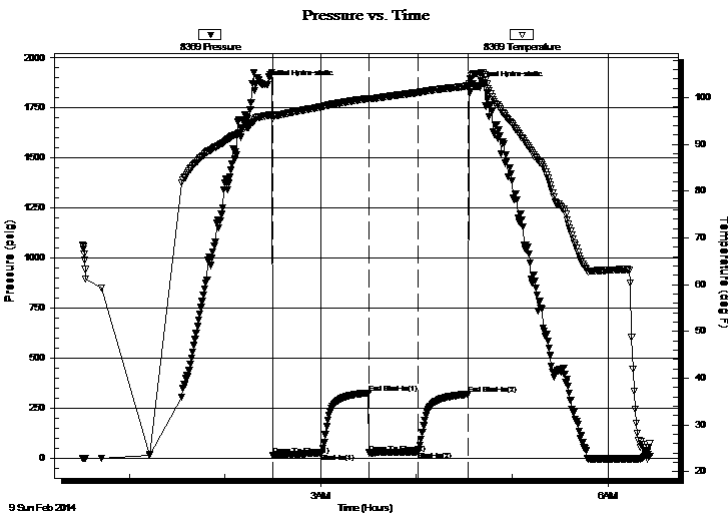
2014.02.09 @ 02:25:06

Time Off Btm:

2014.02.09 @ 04:36:51

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.45	96.07	Initial Hydro-static
5	16.90	95.53	Open To Flow (1)
35	27.55	98.00	Shut-In(1)
65	328.56	99.84	End Shut-In(1)
66	28.98	99.72	Open To Flow (2)
96	35.89	101.08	Shut-In(2)
128	321.50	102.47	End Shut-In(2)
132	1860.24	105.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	SOCM 1%O99%M	0.22

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson , Marc Do

4-9s-24w Graham,KS

Walt B #1-4

Job Ticket: 56240

DST#: 2

Test Start: 2014.02.09 @ 00:30:41

GENERAL INFORMATION:

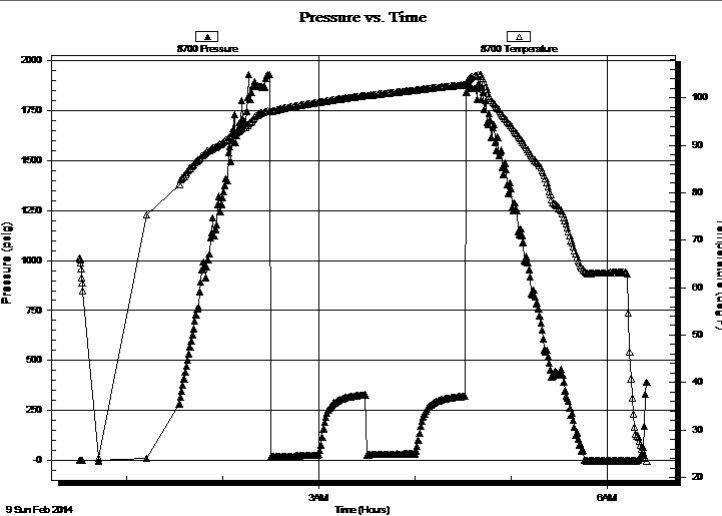
Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:29:51
 Time Test Ended: 06:26:20
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schw ager
 Unit No: 70
Interval: 3921.00 ft (KB) To 3995.00 ft (KB) (TVD)
 Reference Elevations: 2475.00 ft (KB)
 Total Depth: 3995.00 ft (KB) (TVD) 2467.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 3928.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.09 End Date: 2014.02.09 Last Calib.: 2014.02.09
 Start Time: 00:30:28 End Time: 06:24:52 Time On Btm:
 Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	SOCM 1%O99%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

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56240

DST#: 2

ATTN: Ron Nelson , Marc Do

Test Start: 2014.02.09 @ 00:30:41

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:	65000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3921.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	74.00 ft				
Tool Length:	95.00 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			3901.00	
Shut In Tool	5.00			3906.00	
Hydraulic tool	5.00			3911.00	
Packer	5.00			3916.00	21.00 Bottom Of Top Packer
Packer	5.00			3921.00	
Stubb	1.00			3922.00	
Perforations	6.00			3928.00	
Recorder	0.00	8369	Inside	3928.00	
Recorder	0.00	8700	Outside	3928.00	
Blank Spacing	64.00			3992.00	
Bullnose	3.00			3995.00	74.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

4-9s-24w Graham,KS

PO Box 1019
Hays KS 67601

Walt B #1-4

Job Ticket: 56240

DST#: 2

ATTN: Ron Nelson , Marc Do

Test Start: 2014.02.09 @ 00:30:41

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	SOCM 1%O99%M	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

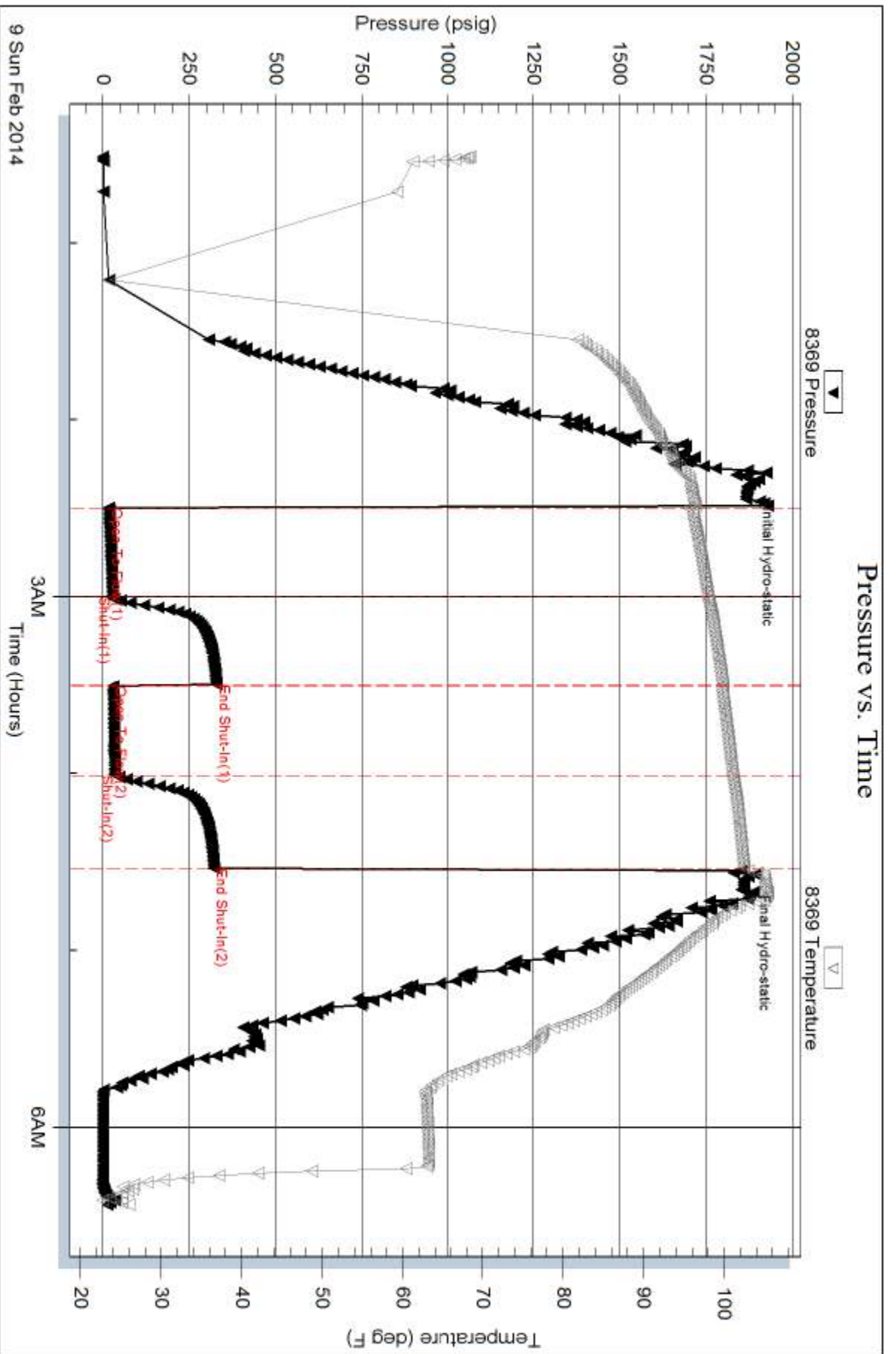
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

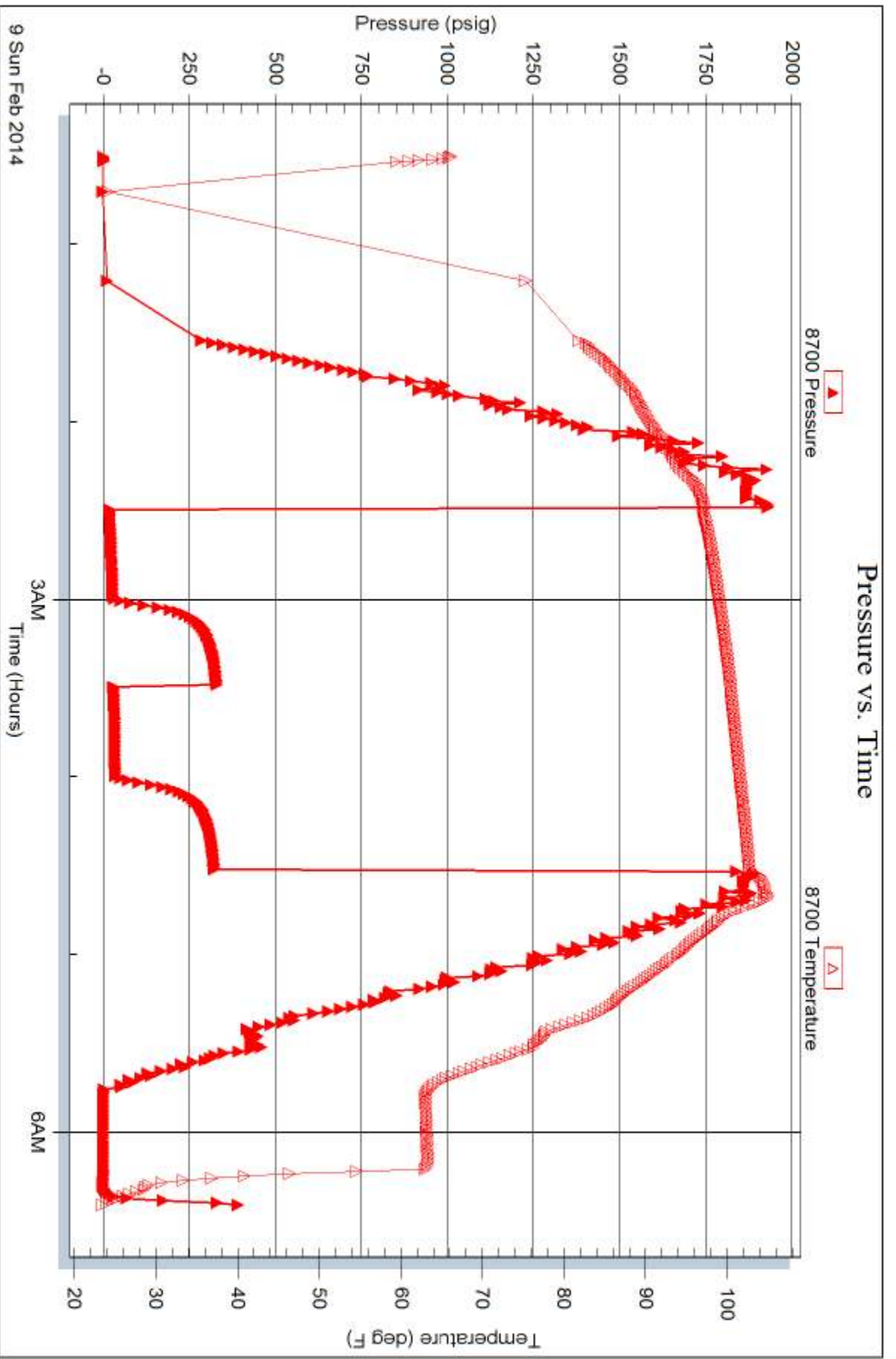


Serial #: 8700

Outside Dow nng-Nelson Oil Co Inc

Well B#1-4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56240

Printed: 2014.02.11 @ 09:14:43



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56239

Well Name & No. WALT "B" #1-4 Test No. 1 Date 2-8-14
 Company Downing-Nelson Oil Co Inc Elevation 2475 KB 2467 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig Discovery rig 1
 Location: Sec. 4 Twp. 9^s Rge. 24^w Co. GRAHAM State Ks

Interval Tested 3822-3865 Zone Tested LKC C-0
 Anchor Length 43 Drill Pipe Run 3788 Mud Wt. 8.8
 Top Packer Depth 3817 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3822 Wt. Pipe Run - WL 8
 Total Depth 3865 Chlorides 1000 ppm System LCM 2 1/2 #

Blow Description TFP - WEAK TO A STRONG BLOW IN 30 MIN
ISIP - NO BLOW
FFP - WEAK TO A STRONG BLOW IN 40 MIN
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>CO</u>				
<u>90</u>	<u>50 CMW</u>		<u>1</u>	<u>60</u>	<u>39</u>
<u>310</u>	<u>WATER</u>				

Rec Total 401 BHT 117 Gravity - API RW .14 @ 50 ° F Chlorides 75000 ppm

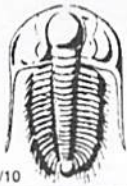
(A) Initial Hydrostatic <u>1814</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0100</u>
(B) First Initial Flow <u>39</u>	<input type="checkbox"/> Jars	T-Started <u>0405</u>
(C) First Final Flow <u>133</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0610</u>
(D) Initial Shut-In <u>1004</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0910</u>
(E) Second Initial Flow <u>132</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1112</u>
(F) Second Final Flow <u>208</u>	<input checked="" type="checkbox"/> Mileage <u>13 DRT</u> 201.50	Comments
(G) Final Shut-In <u>969</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1810</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Sub Total 1351.50

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. 56240

4/10

Well Name & No. WALT "B" #1-4 Test No. 2 Date 2-8-14
 Company Downing-Nelson Oil Co Inc Elevation 2475 KB 2467 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. MARC Downing Rig Discovery rig 1
 Location: Sec. 4 Twp. 9^s Rge. 24^w Co. GRAHAM State K

Interval Tested 3921-3995 Zone Tested LKC H-J
 Anchor Length 74 Drill Pipe Run 3890 Mud Wt. 9.1
 Top Packer Depth 3916 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3921 Wt. Pipe Run - WL 6.4
 Total Depth 3995 Chlorides 500 ppm System LCM 1 1/2 #

Blow Description IFP - WEAK BLOW thru-out 1/4" To 1" Blow
ISIP - NO BLOW
FFP - NO BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>50CM</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35 BHT 102 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1867</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2350</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars	T-Started <u>0030</u>
(C) First Final Flow <u>27</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0225</u>
(D) Initial Shut-In <u>328</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0425</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0626</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>403</u>	Comments <u>Loaded Tool 2-9-14</u>
(G) Final Shut-In <u>321</u>	<input type="checkbox"/> Sampler	<u>2000</u>
(H) Final Hydrostatic <u>1860</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1553</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1553</u>	

Approved By _____ Our Representative RAY SCHWAGER Thank you

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