



KANSAS CORPORATION COMMISSION 1074159
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Marc Downing
Purchaser: _____

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

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
01/25/2012 02/01/2012 02/17/2012
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-065-23801-00-00
Spot Description: _____
W2 SW NE NW Sec. 23 Twp. 9 S. R. 24 East West
990 Feet from North / South Line of Section
1525 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Nickelson Farms 'C' Well #: 1-23
Field Name: Glen Dale
Producing Formation: LKC
Elevation: Ground: 2430 Kelly Bushing: 2438
Total Depth: 4035 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2028 Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 2028 w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 14000 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Gene Karlin Company
Lease Name: Nuss SWD License #: 3444
Quarter NE Sec. 5 Twp. 13 S. R. 17 East West
County: Ellis Permit #: D25588

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Gamba Date: 04/09/2012



1074159

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Nickelson Farms 'C' Well #: 1-23
 Sec. 23 Twp. 9 S. R. 24 East West County: Graham

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: <small>Micro Dual Induction Compensated Density/Neutron</small>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Top Anhydrite</td> <td>2062'</td> <td>+372</td> </tr> <tr> <td>Base Anhydrite</td> <td>2094'</td> <td>+340</td> </tr> <tr> <td>Topeka</td> <td>3512'</td> <td>-1076</td> </tr> <tr> <td>Heebner</td> <td>3730'</td> <td>-1294</td> </tr> <tr> <td>Toronto</td> <td>3754'</td> <td>-1318</td> </tr> <tr> <td>LKC</td> <td>3770'</td> <td>-1334</td> </tr> <tr> <td>BKC</td> <td>3990'</td> <td>-1554</td> </tr> </table>	Name	Top	Datum	Top Anhydrite	2062'	+372	Base Anhydrite	2094'	+340	Topeka	3512'	-1076	Heebner	3730'	-1294	Toronto	3754'	-1318	LKC	3770'	-1334	BKC	3990'	-1554
Name	Top	Datum																							
Top Anhydrite	2062'	+372																							
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Toronto	3754'	-1318																							
LKC	3770'	-1334																							
BKC	3990'	-1554																							

CASING RECORD <input checked="" 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
Surface Pipe	12.25	8.625	23	220.88	Common	150	2% Gel & 3% CC
Production Casing	7.8750	5.5	14	4033.74	EA/2	155	

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
4	3958' - 3960'	250 gallons 15% Mud Acid	3958' - 3960
		750 gallons 15% NE Acid	3958' - 3960
		1500 gallons 15% NE Acid	3958' - 3960

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>3982</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>03/03/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>15</u>	Gas Mcf	Water Bbls. <u>25</u>	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 616

Date	1-25-12	Sec.	23	Twp.	9	Range	24	County	Graham, KS	State	On Location	Finish	7:00 p.m.
Lease	Nickelson Farms			Well No.	1-23 C			Location	Western & Ripline low to 200 Ave 2N NE Sinto				
Contractor	Discovery #1							Owner					
Type Job	Sur face							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			Charge					
Csg.	8 5/8			Depth	220			To	Dawning Nelson				
Tbg. Size								Street					
Tool								City	State				
Cement Left in Csg.	15'			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line				Displace	1332			Cement Amount Ordered	150 com 3 1/2 gal 2 1/2 gal				
EQUIPMENT													
Pumptrk	5	No.	Cement Helper	Craig			Common	150					
Bulktrk		No.	Driver	Brett			Poz. Mix						
Bulktrk	10	No.	Driver	Brian			Gel.	3					
JOB SERVICES & REMARKS													
Remarks:								Calcium	S				
Rat Hole								Hulls					
Mouse Hole								Salt					
Centralizers								Flowseal					
Baskets								Kol-Seal					
D/V or Port Collar								Mud CLR 48					
	8 5/8 on bottom Est. Circulation.							CFL-117 or CD110 CAF 38					
	Mix 150 gal + Displace							Sand					
	Cement Circulation							Handling	158				
								Mileage					
FLOAT EQUIPMENT													
								Guide Shoe					
								Centralizer					
								Baskets					
								AFU Inserts					
								Float Shoe					
								Latch Down					
								Pumptrk Charge	Sur face				
								Mileage	38				
Tax													
Discount													
Total Charge													
X Signature <i>Cliff Mayfield</i>													

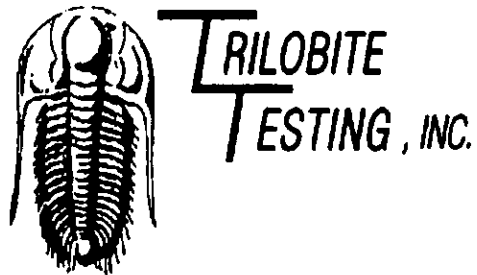
JOB LOG

SWIFT Services, Inc.

DATE 02-17-12 PAGE NO. 1

CUSTOMER DORRINE NELSON WELL NO. 1-23 LEASE NICHOLSON FARMS C JOB TYPE CMT - PORT COLLAR TICKET NO. 01199

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							ON LOCATION CMT: 200 SWS SMD 1/2" LINES 2 1/2" x 5/8" P.C. @ 2020
	0900	2.0	10.0	-	-	1000	1000	PSZ TEST OPEN PC
	0907	3.0	9	-	-	300		ZNS. PRT
	0908	3.5	1.0	-	-	400		START CMT, START OLD CIRC MUD
			85	-	-	600		CIRC CMT TO PIT
			90	-	-			END CMT
			0	-	-			START DISP
	0935		6.8	-	-			END CLOSE PC
	0940			-	-	1100	1100	PSZ TEST RUN IN 5 JOINTS
	0950	2.5	0	-	-		300	REEL OUT
			8	-	-			1ST FLG
			11	-	-			2ND FLG
	1005		30	-	-		200	CLEAN
								TOTAL CMT 170 SWS 15 SWS TO PIT!
								GET FARMER TO PULL OUT BIT.
	1100							JOB COMPLETE THANK YOU! DORRINE NELSON



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

23-9s-24w Graham,KS

Nickelson Farms 'C' #1-23

Start Date: 2012.01.30 @ 13:37:38

End Date: 2012.01.30 @ 18:42:08

Job Ticket #: 46416 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.03 @ 13:03:16

Downing Nelson Oil Co Inc

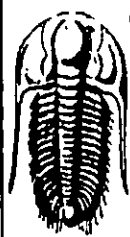
Nickelson Farms 'C' #1-23

23-9s-24w Graham,KS

DST # 1

LKC "C-D"

2012.01.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 46416

DST#: 1

ATTN: Al Downing

Test Start: 2012.01.30 @ 13:37:38

GENERAL INFORMATION:

Formation: **LKC "C-D"**

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

Time Tool Opened: 15:24:38

Time Test Ended: 18:42:08

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3791.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Total Depth: **3830.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2438.00 ft (KB)**

2431.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **8734**

Outside

Press@RunDepth: **20.23 psig @ 3794.00 ft (KB)**

Start Date: **2012.01.30**

End Date:

2012.01.30

Start Time: **13:37:39**

End Time:

18:42:08

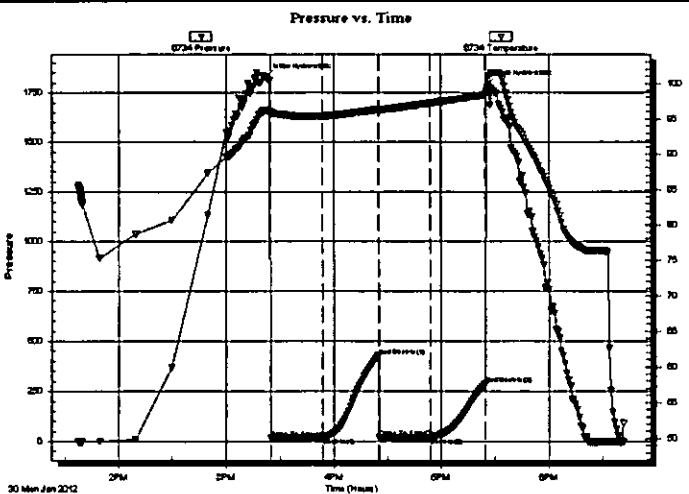
Capacity: **8000.00 psig**

Last Calib.: **2012.01.30**

Time On Btm: **2012.01.30 @ 15:22:08**

Time Off Btm: **2012.01.30 @ 17:26:08**

TEST COMMENT: **IFP - 1/4" blow throughout**
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

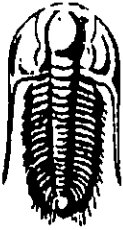
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.69	96.23	Initial Hydro-static
3	16.68	95.71	Open To Flow (1)
32	18.87	95.38	Shut-In(1)
63	426.07	96.31	End Shut-In(1)
63	19.18	96.21	Open To Flow (2)
92	20.23	97.20	Shut-In(2)
123	286.75	98.42	End Shut-In(2)
124	1791.92	101.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 3%O, 97%M	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 46416

DST#: 1

ATTN: Al Downing

Test Start: 2012.01.30 @ 13:37:38

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:24:38

Time Test Ended: 18:42:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: **3791.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Reference Elevations: 2438.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6669

Inside

Press@RunDepth: psig @ 3794.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.30

End Date:

2012.01.30

Last Calib.:

2012.01.30

Start Time: 13:37:39

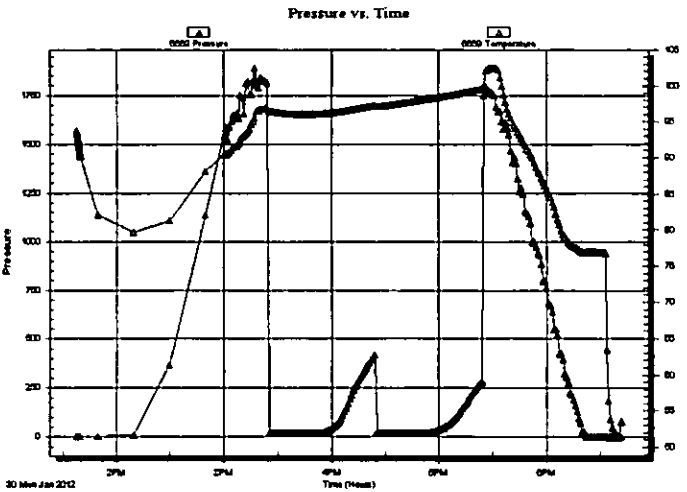
End Time:

18:42:08

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP - 1/4" blow throughout
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

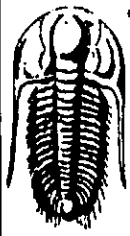
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 3%O, 97%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 46416 DST#: 1

ATTN: Al Downing

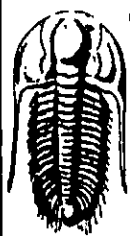
Test Start: 2012.01.30 @ 13:37:38

Tool Information

Drill Pipe:	Length: 3737.00 ft	Diameter: 3.80 inches	Volume: 52.42 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.57 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3791.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3769.00	
Hydraulic tool	5.00			3774.00	
Jars	5.00			3779.00	
Safety Joint	2.00			3781.00	
Packer	5.00			3786.00	27.00 Bottom Of Top Packer
Packer	5.00			3791.00	
Stubb	1.00			3792.00	
Perforations	1.00			3793.00	
Change Over Sub	1.00			3794.00	
Recorder	0.00	6669	Inside	3794.00	
Recorder	0.00	8734	Outside	3794.00	
Blank Spacing	31.00			3825.00	
Change Over Sub	1.00			3826.00	
Perforations	1.00			3827.00	
Bullnose	3.00			3830.00	39.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 46416

DST#: 1

ATTN: Al Downing

Test Start: 2012.01.30 @ 13:37:38

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM 3%O, 97%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

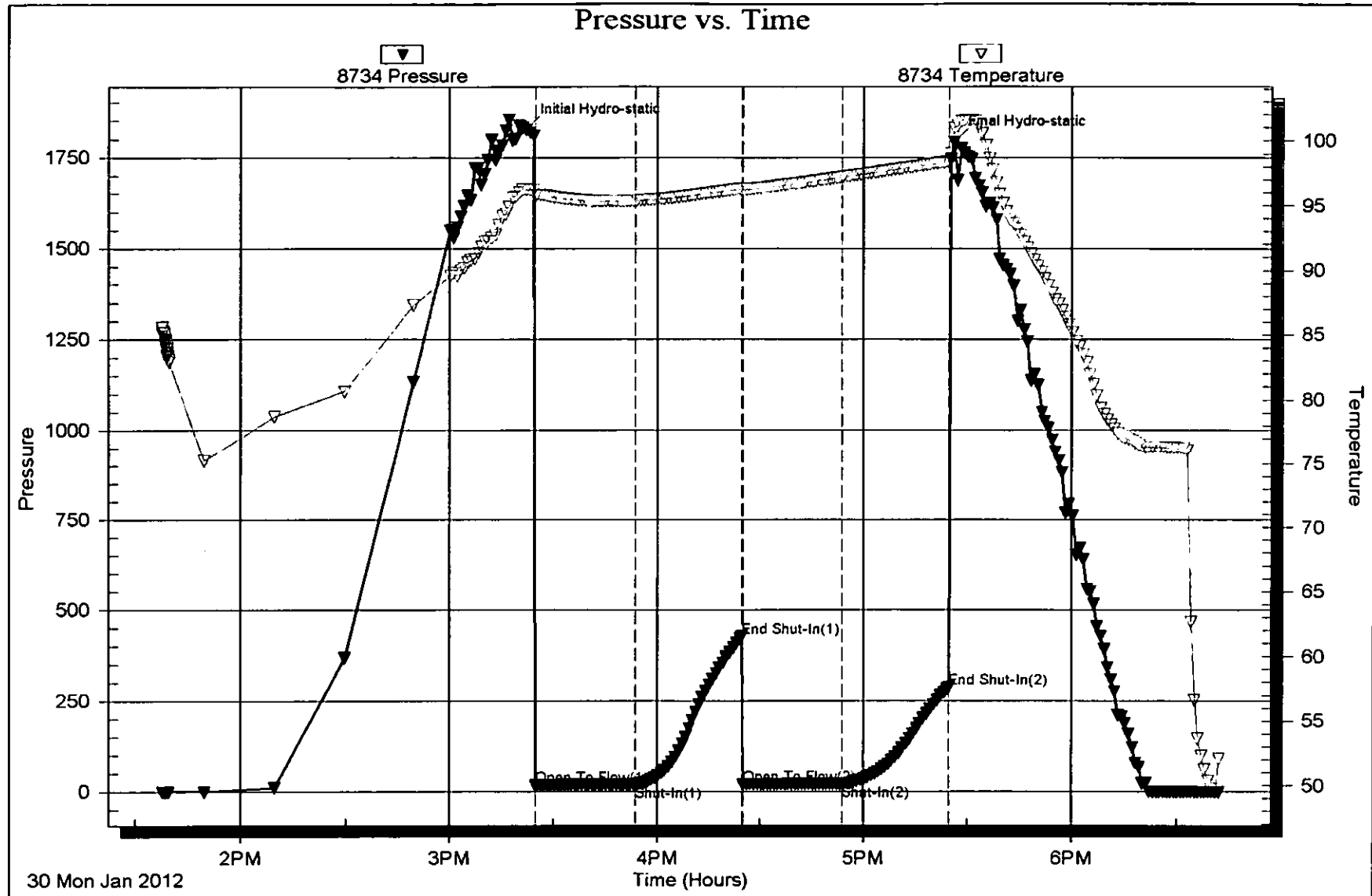
Num Gas Bombs: 0

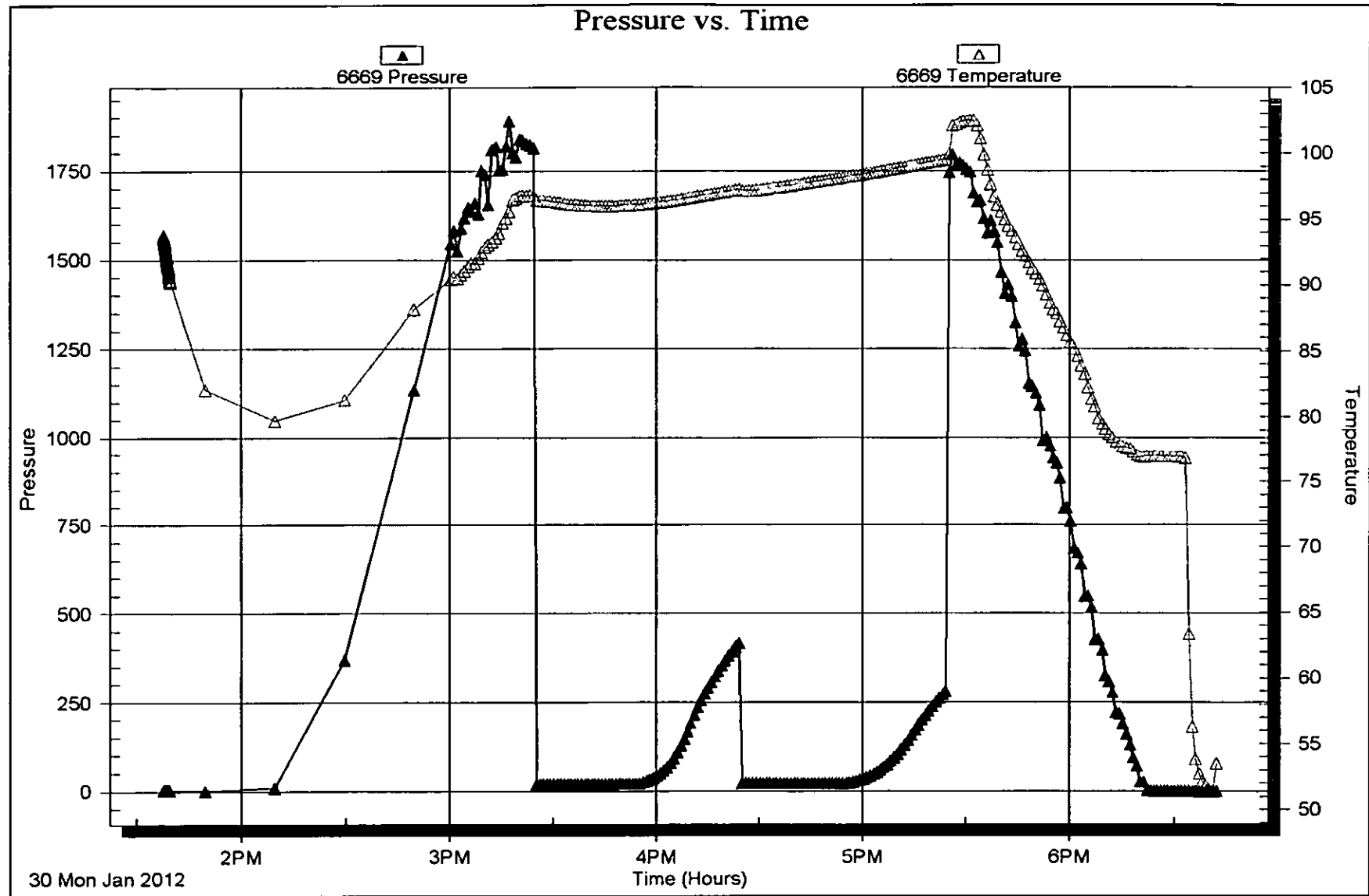
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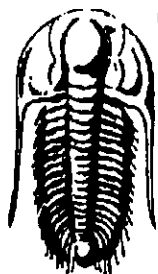
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

23-9s-24w Graham,KS

Nickelson Farms 'C' #1-23

Start Date: 2012.01.31 @ 06:34:00

End Date: 2012.01.31 @ 13:35:30

Job Ticket #: 46276 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.03 @ 13:01:49

Downing Nelson Oil Co Inc

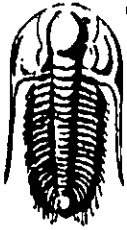
Nickelson Farms 'C' #1-23

23-9s-24w Graham,KS

DST # 2

KC "H&I"

2012.01.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 46276

DST#: 2

ATTN: Al Downing

Test Start: 2012.01.31 @ 06:34:00

GENERAL INFORMATION:

Formation: **KC "H&J"**

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

Time Tool Opened: 08:10:30

Time Test Ended: 13:35:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Cody Bloedorn**

Unit No: **41**

Interval: **3880.00 ft (KB) To 3933.00 ft (KB) (TVD)**

Reference Elevations: **2438.00 ft (KB)**

Total Depth: **3880.00 ft (KB) (TVD)**

2431.00 ft (CF)

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

KB to GR/CF: **7.00 ft**

Serial #: 8734

Outside

Press@RunDepth: **216.20 psig @ 3883.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.31**

End Date:

2012.01.31

Last Calib.: **2012.01.31**

Start Time: **06:34:01**

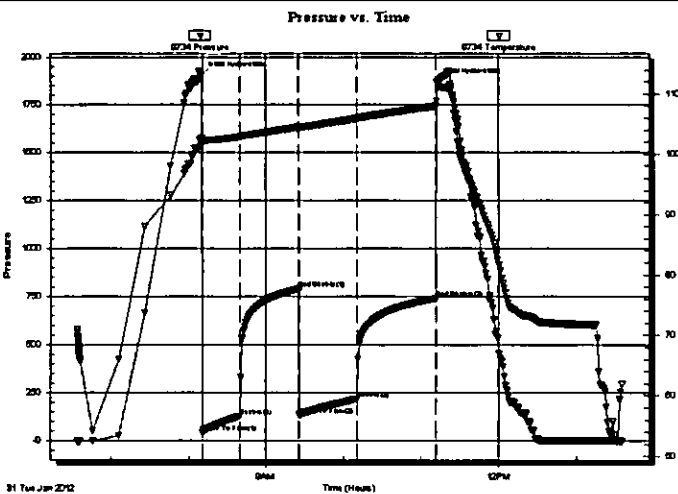
End Time:

13:35:30

Time On Btm: **2012.01.31 @ 08:10:00**

Time Off Btm: **2012.01.31 @ 11:12:30**

TEST COMMENT: 30 - F- B.O.B. in 13 Mn.
45 - IS- Weak surface blow, died in 10 Mn.
45 - FF- B.O.B. in 21 Mn.
60 - FSI- No blow back.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.21	102.58	Initial Hydro-static
1	41.25	101.61	Open To Flow (1)
30	126.02	102.82	Shut-In(1)
75	788.27	104.50	End Shut-In(1)
76	131.40	104.39	Open To Flow (2)
121	216.20	105.94	Shut-In(2)
182	738.39	108.00	End Shut-In(2)
183	1869.68	108.86	Final Hydro-static

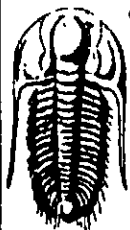
Recovery

Length (ft)	Description	Volume (bbl)
124.00	MV, Oil scum, 40%M, 60%W	1.46
310.00	MV, Oil scum, 5%M, 95%W	4.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 46276

DST#: 2

ATTN: Al Downing

Test Start: 2012.01.31 @ 06:34:00

GENERAL INFORMATION:

Formation: **KC "H&I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:30

Time Test Ended: 13:35:30

Interval: **3880.00 ft (KB) To 3933.00 ft (KB) (TVD)**

Total Depth: 3880.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloodorn

Unit No: 41

Reference Elevations: 2438.00 ft (KB)

2431.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6669

Inside

Press@RunDepth: psig @ 3883.00 ft (KB)

Start Date: 2012.01.31

End Date:

2012.01.31

Capacity: 8000.00 psig

Last Calib.:

2012.01.31

Start Time: 06:34:01

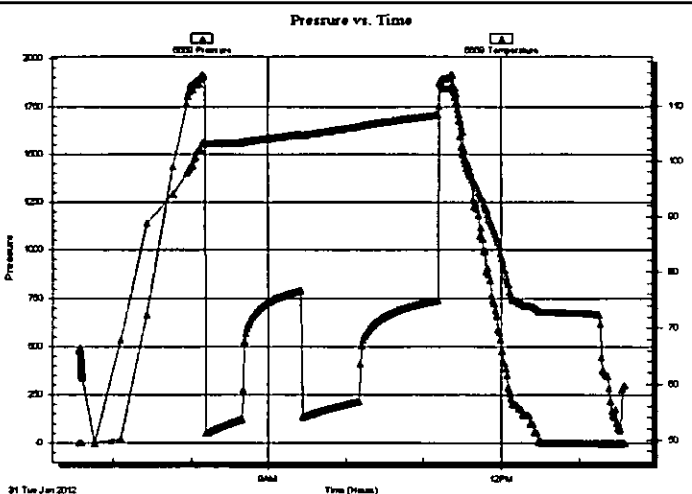
End Time:

13:35:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - F- B.O.B. in 13 Mn.
45 - IS- Weak surface blow, died in 10 Mn.
45 - FF- B.O.B. in 21 Mn.
60 - FS- No blee back.



PRESSURE SUMMARY

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

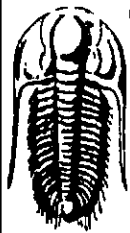
Recovery

Length (ft)	Description	Volume (bbl)
124.00	MV, Oil scum, 40%M, 60%W	1.46
310.00	MV, Oil scum, 5%M, 95%W	4.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 46276 DST#: 2

ATTN: Al Downing

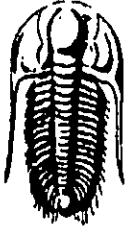
Test Start: 2012.01.31 @ 06:34:00

Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3880.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3853.00	
Shut In Tool	5.00			3858.00	
Hydraulic tool	5.00			3863.00	
Jars	5.00			3868.00	
Safety Joint	2.00			3870.00	
Packer	5.00			3875.00	28.00 Bottom Of Top Packer
Packer	5.00			3880.00	
Stubb	1.00			3881.00	
Perforations	1.00			3882.00	
Change Over Sub	1.00			3883.00	
Recorder	0.00	6669	Inside	3883.00	
Recorder	0.00	8734	Outside	3883.00	
Blank Spacing	31.00			3914.00	
Change Over Sub	1.00			3915.00	
Perforations	15.00			3930.00	
Bullnose	3.00			3933.00	53.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 46276

DST#: 2

ATTN: Al Downing

Test Start: 2012.01.31 @ 06:34:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW, Oil scum, 40%M, 60%W	1.457
310.00	MW, Oil scum, 5%M, 95%W	4.348

Total Length: 434.00 ft

Total Volume: 5.805 bbl

Num Fluid Samples: 0

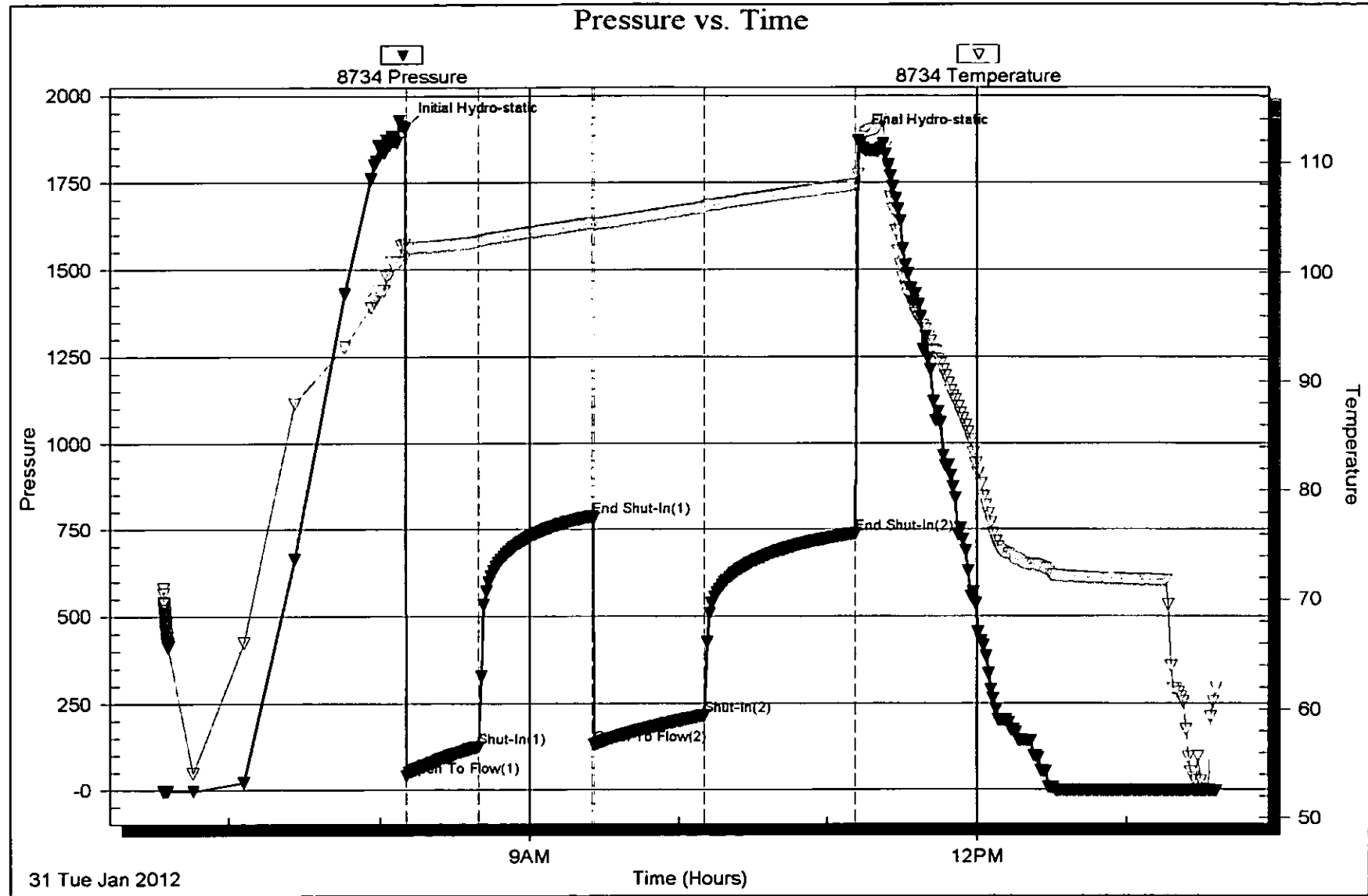
Num Gas Bombs: 0

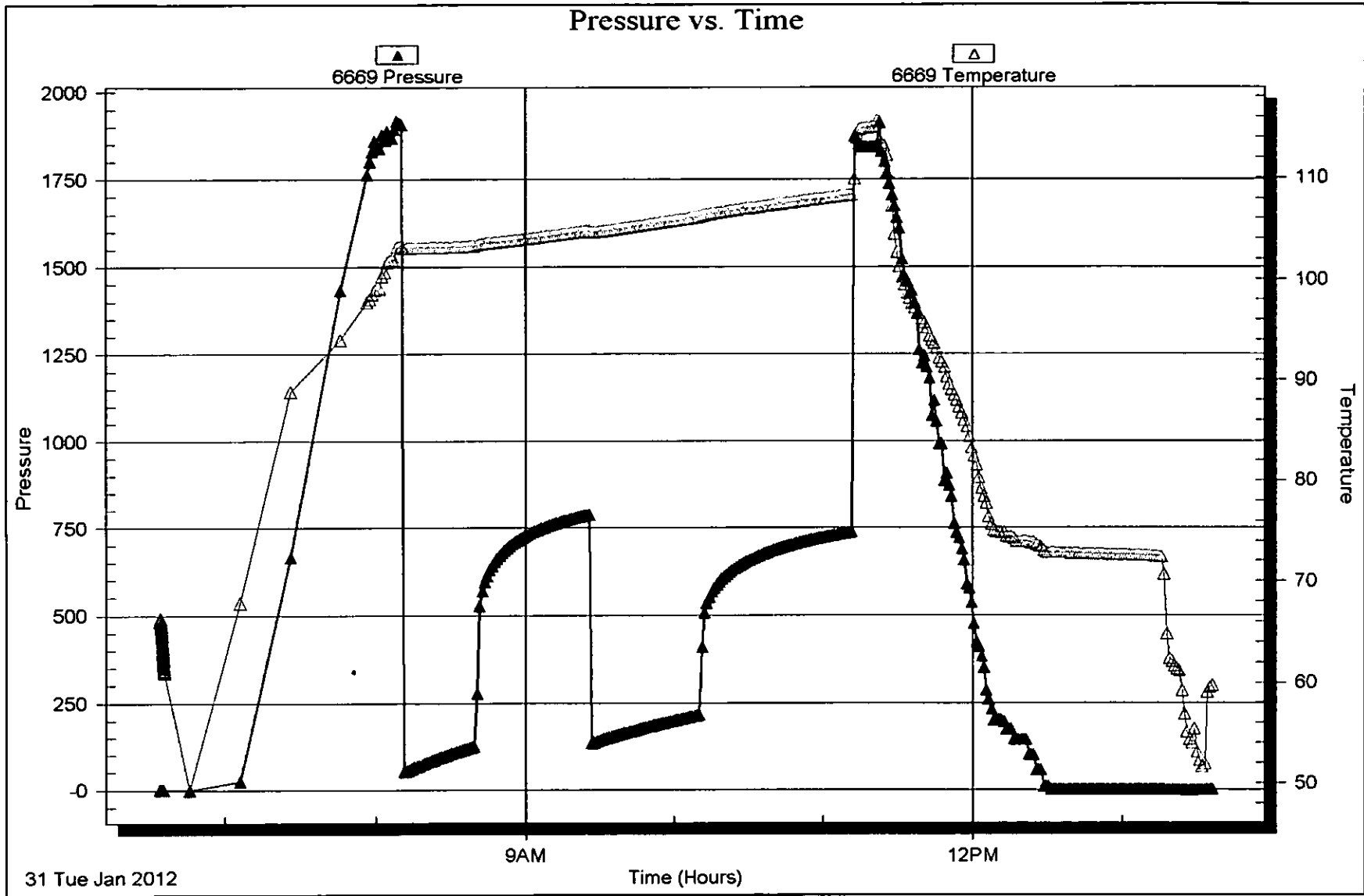
Serial #:

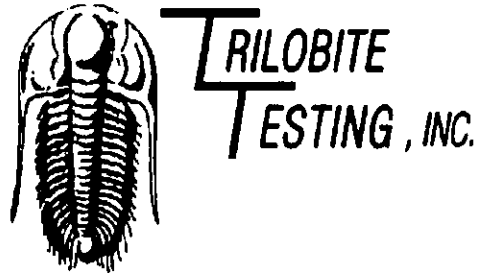
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

23-9s-24w Graham,KS

Nickelson Farms 'C' #1-23

Start Date: 2012.01.31 @ 21:44:00

End Date: 2012.02.01 @ 04:31:30

Job Ticket #: 46277 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.03 @ 13:01:04

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

23-9s-24w Graham,KS

DST # 3

KC "J,K"

2012.01.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 46277

DST#: 3

ATTN: Al Downing

Test Start: 2012.01.31 @ 21:44:00

GENERAL INFORMATION:

Formation: **KC "J,K"**

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

Time Tool Opened: 23:26:30

Time Test Ended: 04:31:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Cody Bloedorn**

Unit No: **41**

Interval: **3929.00 ft (KB) To 3975.00 ft (KB) (TVD)**

Reference Elevations: **2438.00 ft (KB)**

Total Depth: **3929.00 ft (KB) (TVD)**

2431.00 ft (CF)

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

KB to GR/CF: **7.00 ft**

Serial #: **8734**

Outside

Press@RunDepth: **56.71 psig @ 3964.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.31**

End Date:

2012.02.01

Last Calib.: **2012.02.01**

Start Time: **21:44:01**

End Time:

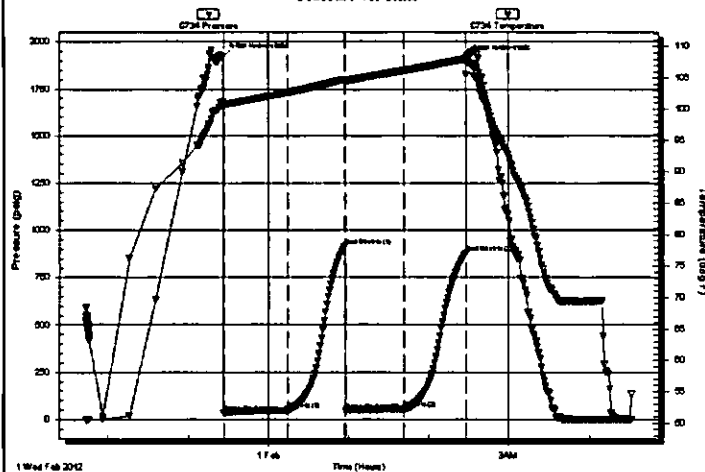
04:31:30

Time On Btm: **2012.01.31 @ 23:26:00**

Time Off Btm: **2012.02.01 @ 02:29:00**

TEST COMMENT: 45 - IF- 6" Blow
45 - IS- No blow back
45 - FF- 5" Blow
45 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.98	101.18	Initial Hydro-static
1	33.03	100.38	Open To Flow (1)
48	49.43	102.65	Shut-In(1)
91	914.05	104.72	End Shut-In(1)
92	44.26	104.56	Open To Flow (2)
136	56.71	106.21	Shut-In(2)
182	879.79	108.05	End Shut-In(2)
183	1909.99	108.43	Final Hydro-static

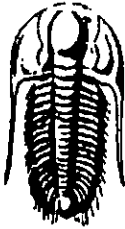
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMD, 5%G, 5%M, 90%O	0.59
0.00	62' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 46277

DST#: 3

ATTN: Al Downing

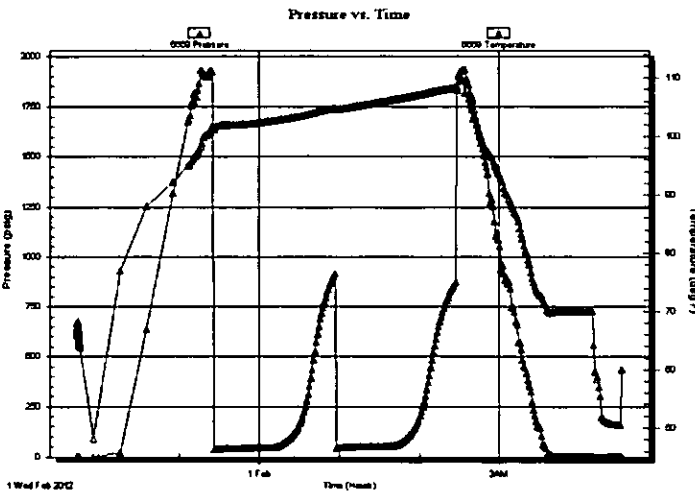
Test Start: 2012.01.31 @ 21:44:00

GENERAL INFORMATION:

Formation: **KC "J,K"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 23:26:30
 Time Test Ended: 04:31:30
 Interval: **3929.00 ft (KB) To 3975.00 ft (KB) (TVD)**
 Total Depth: **3929.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Raset)**
 Tester: **Cody Bloedorn**
 Unit No: **41**
 Reference Elevations: **2438.00 ft (KB)**
2431.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 6669 Inside
 Press@RunDepth: **psig @ 3964.00 ft (KB)**
 Start Date: **2012.01.31** End Date: **2012.02.01** Capacity: **8000.00 psig**
 Start Time: **21:44:01** End Time: **04:31:30** Last Calib.: **2012.02.01**
 Time On Btmr
 Time Off Btmr

TEST COMMENT: 45 - IF- 6" Blow
 45 - IS- No blow back
 45 - FF- 5" Blow
 45 - FS- No blow back

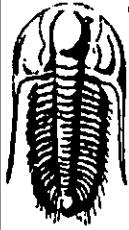


PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	GMO, 5%G, 5%M, 90%O	0.59
0.00	62' of G.I.P.	0.00

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9-24w Graham, KS

Job Ticket: 46277

DST#: 3

ATTN: Al Downing

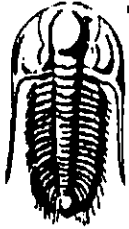
Test Start: 2012.01.31 @ 21:44:00

Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 54.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3929.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3902.00	
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Jars	5.00			3917.00	
Safety Joint	2.00			3919.00	
Packer	5.00			3924.00	28.00 Bottom Of Top Packer
Packer	5.00			3929.00	
Stubb	1.00			3930.00	
Perforations	1.00			3931.00	
Change Over Sub	1.00			3932.00	
Blank Spacing	31.00			3963.00	
Change Over Sub	1.00			3964.00	
Recorder	0.00	6669	Inside	3964.00	
Recorder	0.00	8734	Outside	3964.00	
Perforations	8.00			3972.00	
Bullnose	3.00			3975.00	46.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

Nickelson Farms 'C' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 46277

DST#: 3

ATTN: Al Downing

Test Start: 2012.01.31 @ 21:44:00

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:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	GMD, 5%G, 5%M, 90%O	0.587
0.00	62' of G.I.P.	0.000

Total Length: 62.00 ft

Total Volume: 0.587 bbf

Num Fluid Samples: 0

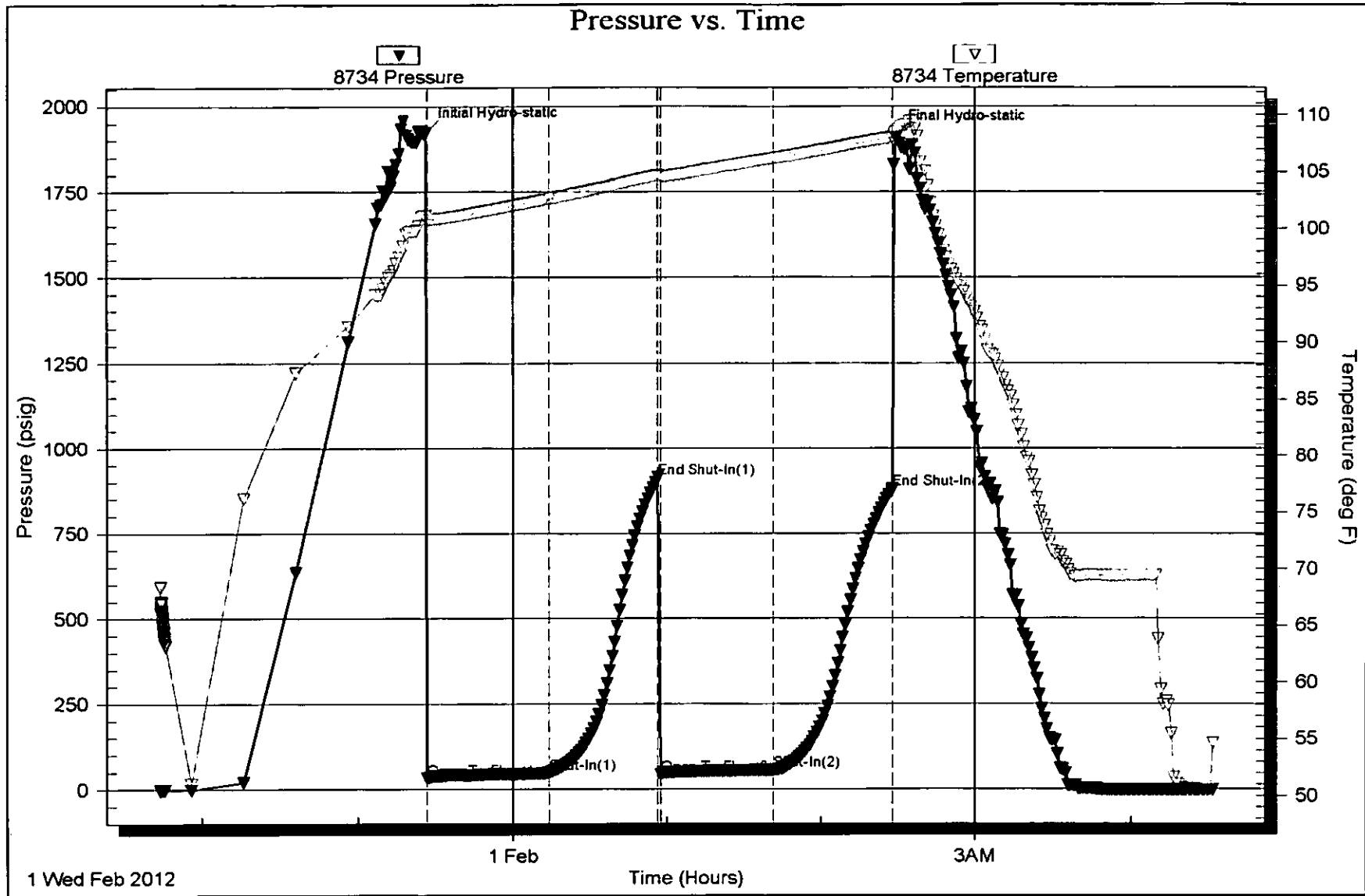
Num Gas Bombs: 0

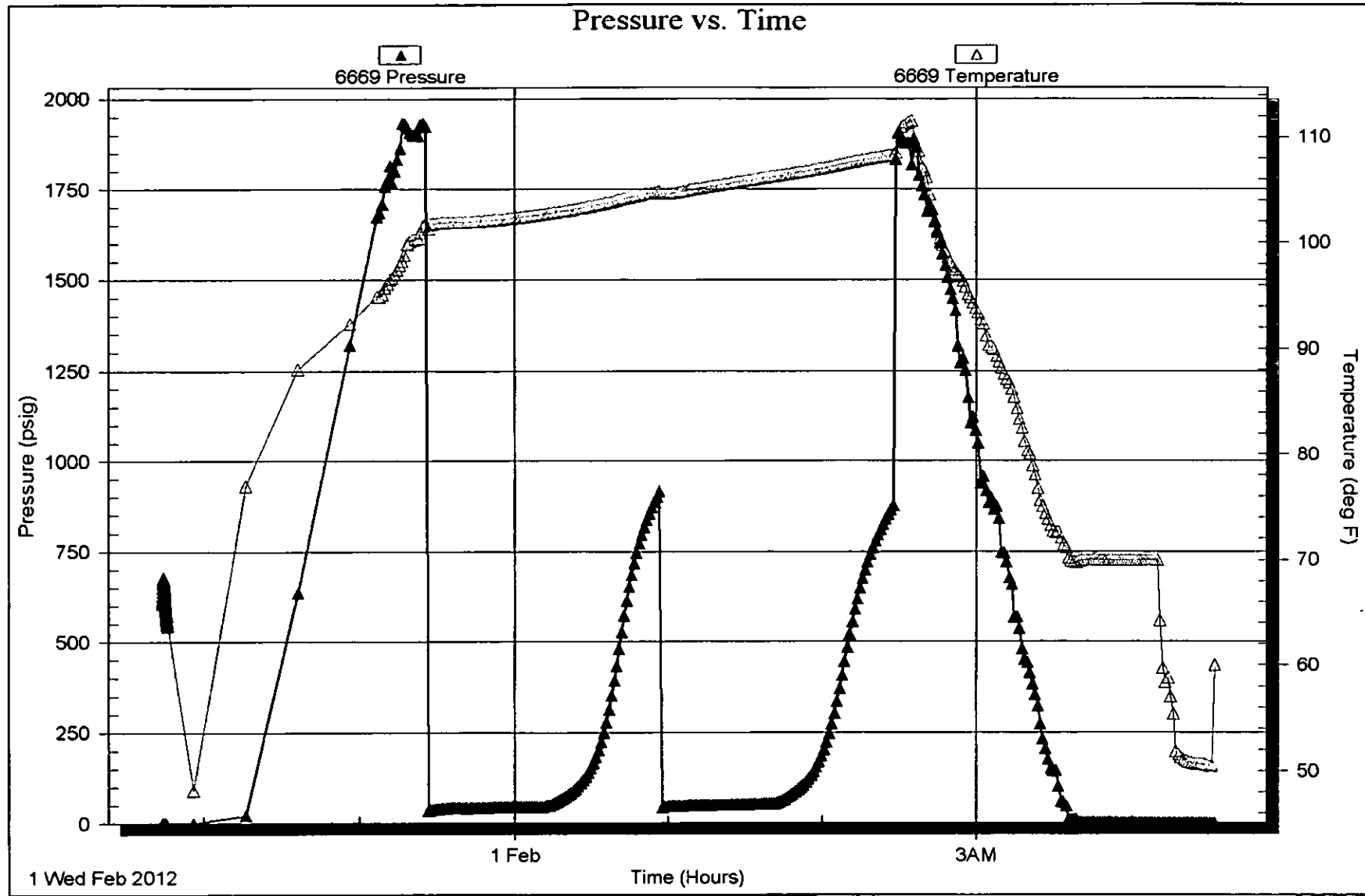
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 31 2012

Test Ticket

NO. 46416

Well Name & No. Nickelson Farms 'C' 1-23 BY: _____ Test No. 1 Date 1-30-12
 Company ONOC Elevation 2438 KB 2431 GL _____
 Address PO Box 1019 Hays, Mo 67601
 Co. Rep / Geo. Al Downing Rig Discovery 1
 Location: Sec. 23 Twp. 9 Rge. 24 Co. Graham State Mo

Interval Tested 3791-3830 Zone Tested LHC 'C-D'
 Anchor Length 39 Drill Pipe Run 3737 Mud Wt. 8.9
 Top Packer Depth 3786 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3791 Wt. Pipe Run _____ WL 8.0
 Total Depth 3830 Chlorides 1000 ppm System _____ LCM _____

Blow Description FFP - 1/4" blow throughout
ISI - no blow back
FFP - no blow
FST - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>USOCM</u>	<u>3</u>		<u>97</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 98 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1827</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>1249</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1337</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1524</u>
(D) Initial Shut-In <u>426</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1724</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1841</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 1102.40</u>	Comments <u>2' fill on bottom</u>
(G) Final Shut-In <u>287</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1792</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____

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

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 11012.40

Sub Total _____
 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative Brian Foxbank

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 03 2012

Test Ticket

NO. 46276

Well Name & No. Nickleson Farms "C" 1-23 Test No. 2 Date 1-31-12
 Company DNOC Elevation 2438 KB 2431 GL
 Address Po Box 1019, Hays KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 23 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3880-3933 Zone Tested "H&I"
 Anchor Length 53' Drill Pipe Run 3829 Mud Wt. 8.9
 Top Packer Depth 3875 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3880 Wt. Pipe Run - WL 8.0
 Total Depth 3933 Chlorides 1000 ppm System LCM -
 Blow Description IF - B.O.B. in 13 Min.
ISI - Weak surface blow, died in 10 Min.
FF - B.O.B. in 21 Min
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>Feet of MW, oil scum</u>		<u>95</u>	<u>5</u>	
<u>124</u>	<u>Feet of MW, oil scum</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 434 BHT 108° Gravity - API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1905</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>6:10am</u>
(B) First Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>6:34am</u>
(C) First Final Flow <u>126</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>8:11am</u>
(D) Initial Shut-In <u>788</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>11:11am</u>
(E) Second Initial Flow <u>131</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:35pm</u>
(F) Second Final Flow <u>216</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 16240</u>	Comments
(G) Final Shut-In <u>738</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1869</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>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1412.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1412.40</u>	

Approved By _____ Our Representative Cody Bledorn
 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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 03 2012
BY: _____

Test Ticket

NO. 46277

Well Name & No. Nickelson Farms "C" 1-23 Test No. 3 Date 1-31-12
 Company Po Box 1019, Hays KS, 67601 Elevation 2438 KB 2431 GL
 Address DNOC
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 23 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3929-3975 Zone Tested KC "J,K"
 Anchor Length 46' Drill Pipe Run 3892 Mud Wt. 8.8
 Top Packer Depth 3924 Drill Collars Run 31 Vis 58
 Bottom Packer Depth 3929 Wt. Pipe Run — WL 7.6
 Total Depth 3975 Chlorides 1,000 ppm System LCM —
 Blow Description IF - 6" blow
ISI - No blow back
FF - 5" blow
FST - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>6MO</u>	<u>5</u>	<u>90</u>	<u>5</u>	<u>—</u>
<u>—</u>	<u>62' of G.I.P.</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 62 BHT 108° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1921</u>	<input checked="" type="checkbox"/> Test <u>1125-</u>	T-On Location <u>9:20 pm</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250-</u>	T-Started <u>9:44 pm</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75-</u>	T-Open <u>11:27 pm</u>
(D) Initial Shut-In <u>914</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2:27 am</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:33 am</u>
(F) Second Final Flow <u>56</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT 112.40</u>	Comments <u>116 RT - Picked up tool. Had to go back to get it.</u>
(G) Final Shut-In <u>879</u>	<input type="checkbox"/> Sampler <u>x2 324.80</u>	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1909</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Total <u>1774.80</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't <u>—</u>
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1774.80</u>	

Approved By _____ Our Representative Cody Bloedorn

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