



KANSAS CORPORATION COMMISSION 1093861
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: Ron Nelson
Purchaser: Coffeyviller Resources

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
 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 #: _____

08/07/2012 08/14/2012 08/15/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-193-20856-00-00

Spot Description: _____
E2 W2 E2 SW Sec. 29 Twp. 9 S. R. 31 East West
1320 Feet from North / South Line of Section
1945 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Thomas

Lease Name: Hockersmith-Robben Well #: 1-29

Field Name: Wildcat

Producing Formation: LKC

Elevation: Ground: 3039 Kelly Bushing: 3047

Total Depth: 4710 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 292 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2581 Feet

If Alternate II completion, cement circulated from: 2581

feet depth to: 0 w/ 250 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 10000 ppm Fluid volume: 480 bbls

Dewatering method used: Evaporated

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: Doanna Garriss Date: 10/18/2012



1093861

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Hockersmith-Robben Well #: 1-29
 Sec. 29 Twp. 9 S. R. 31 East West County: Thomas

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: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	292.24	Common	175	2% Gel & 3% CC
Production String	7.875	5.5	14	4708.34	EA/2	130	

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 (Amount and Kind of Material Used)	Depth
4	4349' - 4354'	500 gallons 15% Mud Acid	4349' - 4354'

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>4614.62</u>	Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>09/17/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>65</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</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)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Hockersmith-Robben 1-29
Doc ID	1093861

All Electric Logs Run

Micro
Sonic
Dual Induction
Compansated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Hockersmith-Robben 1-29
Doc ID	1093861

Tops

Name	Top	Datum
Top Anhydrite	2618'	+429
Base Anhydrite	2648'	+399
Topeka	3833'	-786
Heebner	4047'	-1000
LKC	4084'	-1037
BKC	4358'	-1311
Marmaton	4388'	-1433
Pawnee	4480'	-1475
Myrick Station	4522'	-1499
Ft Scott	4546'	-1527
Cherokee Shale	4574'	-1569
Johnson Zone	4616'	-1569
Mississippi	4650'	-1603

ALLIED OIL & GAS SERVICES. LLC 056301

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
Oakley, KS

DATE <u>8-7-12</u>	SEC <u>29</u>	TWP <u>9</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>8:30 am</u>	JOB START <u>4:00 pm</u>	JOB FINISH <u>11:30 am</u>
LEASE <u>Ribbon</u> WELL # <u>1-29</u>				LOCATION <u>Oakley, 8N, 31E, N40W</u>	COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				1-01		1.3	

CONTRACTOR Discovery #1

TYPE OF JOB Surface

HOLE SIZE 18 1/2" T.D. 298'

CASING SIZE 8 7/8" DEPTH 292.24'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 17.73 bbl

OWNER Same

CEMENT AMOUNT ORDERED 185 sks cement 3% cc

2.9 cc

COMMON	<u>185 sks @ 16.25</u>	<u>3006.25</u>
POZMIX	@	
CEM	<u>3 cc @ 21.25</u>	<u>63.75</u>
CHLORIDE	<u>7 cc @ 58.20</u>	<u>407.40</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>20006 sks @ 2.10</u>	<u>4201.26</u>
MILEAGE	<u>7.13 hrs @ 12 X 2.55</u>	<u>227.47</u>
		<u>109.56</u>
		TOTAL 4155.00

EQUIPMENT

PUMP TRUCK CEMENTER Lakone Wench

4231 HELPER Tyler Fipse

BULK TRUCK

347 DRIVER Adam Helcomb

BULK TRUCK

DRIVER

REMARKS:

Mix 185 sks cement

Displace with water

Cement did circulate.

Thank you

SERVICE

DEPTH OF JOB 292.24'

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 12 @ 7.00 84.00

MANIFOLD swedge @ N/C

L.U. Mileage 12 @ 4.00 48.00

CHARGE TO: Douglas Nelson Oil Co. Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1252.00

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

TOTAL _____

SALES TAX (if Any) 253.85

TOTAL CHARGES 5,412.00

DISCOUNT 20 1082.40 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE [Signature]

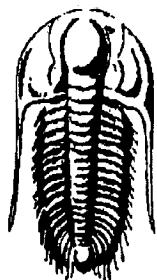
JOB LOG

SWIFT Services, Inc.

DATE 8-15-12 PAGE NO. 1

CUSTOMER Downing & Nelson WELL NO. # 1-29 LEASE Heckersmith-Robben JOB TYPE 2-Stage TICKET NO. 21742

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0415							o a l o c s u / F E
								RTD 4710'
								5 1/2" x 14" x 4708' x 21' x 2581' DV
								Leat 2, 4, 7, 9, 11, 13, 15, 51
								Base 2, 52
								D.V. 52 @ 2581'
	0615							start FE
	0720							Break Circ
	0840	25	7/5					Plug RHYMH 34/20 sks EA-2 cement
	0848	5	0			200		Start Preflushes 500 gal Mud flush 20 bbl KCL flush
	0854	5	32/0			200		Start EA-2 Cement 125 sks
	0900		30					End Cement
								Drop DV & D Plug
								wash Pump thru
	0904	6	0			200		Start Displacement water 55 bbl
	0913	5	55			300		mud 60 bbl
	0925		114.5			400/4200		Land Plug
								Release Pressure
								Drop Opening Plug
	0840					1100		Open DV
	0945	5	0			150		Start KCL flush 20 bbl
	0949	6	20/0			150		Start SMD Cement
	1012		138					End Cement
	0957							Drop Closing Plug
	1015	5	0			150		Start Displacement
	1025	4	50			250		Circ Cement
	1030		63			450/450		Land Plug / Close DV Tool
								Release Pressure
								D.V. Closed
								circ 25 sks to pit
								Thank you
								Mark, David E, & Jeremy



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson oil Co.Inc.**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

29-9s-31w Thomas,KS

Hockersmith-Robben #1-29

Start Date: 2012.08.12 @ 09:40:00

End Date: 2012.08.12 @ 15:16:00

Job Ticket #: 47398 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.16 @ 15:16:09

Downing-Nelson oil Co.Inc.

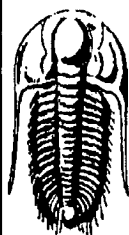
Hockersmith-Robben #1-29

29-9s-31w Thomas,KS

DST # 1

LKC-H,I,J

2012.08.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson oil Co. Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 09:40:00

GENERAL INFORMATION:

Formation: **LKC-H,I,J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:30

Time Test Ended: 15:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: **4208.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3043.00 ft (KB)

3038.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 25.49 psig @ 4211.00 ft (KB)

Start Date: 2012.08.12

End Date:

2012.08.12

Start Time: 09:40:05

End Time:

15:15:59

Capacity: 8000.00 psig

Last Calib.: 2012.08.12

Time On Btm: 2012.08.12 @ 11:14:30

Time Off Btm: 2012.08.12 @ 13:43:00

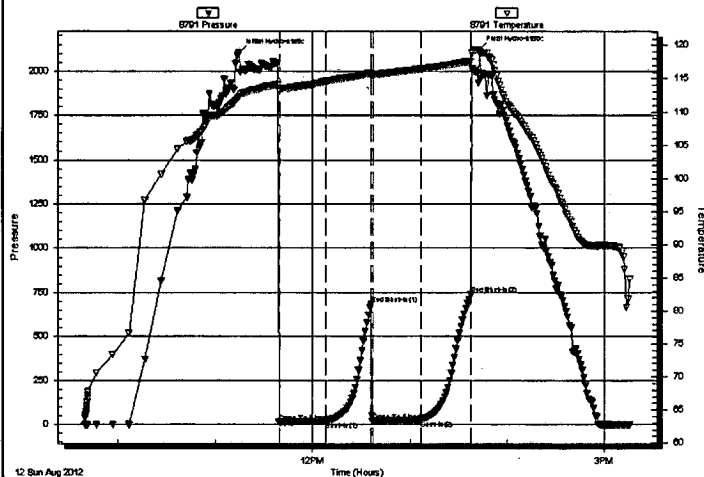
TEST COMMENT: IF: Weak blow , Started at 1 in. Died to 3/4 in.

IS: No blow back.

FF: Weak blow , Built to 2 in.

FS: No blow back.

Pressure vs. Time



PRESSURE SUMMARY

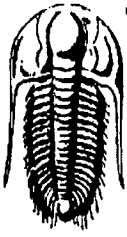
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.29	112.27	Initial Hydro-static
25	13.41	113.24	Open To Flow (1)
54	18.62	114.63	Shut-In(1)
82	682.72	115.83	End Shut-In(1)
83	16.24	115.64	Open To Flow (2)
113	25.49	116.46	Shut-In(2)
143	736.16	117.61	End Shut-In(2)
149	2120.87	119.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCMW 30%O 20%W 50%M	0.42

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.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

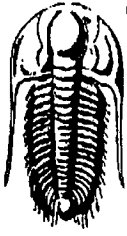
Test Start: 2012.08.12 @ 09:40:00

Tool Information

Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 bbl	Tool Weight:	2600.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 59.00 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4208.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	110.00 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			4193.00	
Hydraulic tool	5.00			4198.00	
Packer	5.00			4203.00	20.00 Bottom Of Top Packer
Packer	5.00			4208.00	
Stubb	1.00			4209.00	
Perforations	1.00			4210.00	
Change Over Sub	1.00			4211.00	
Recorder	0.00	8791	Inside	4211.00	
Recorder	0.00	8673	Outside	4211.00	
Blank Spacing	63.00			4274.00	
Change Over Sub	1.00			4275.00	
Perforations	20.00			4295.00	
Bullnose	3.00			4298.00	90.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 09:40:00

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCMW 30%O 20%W 50%M	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

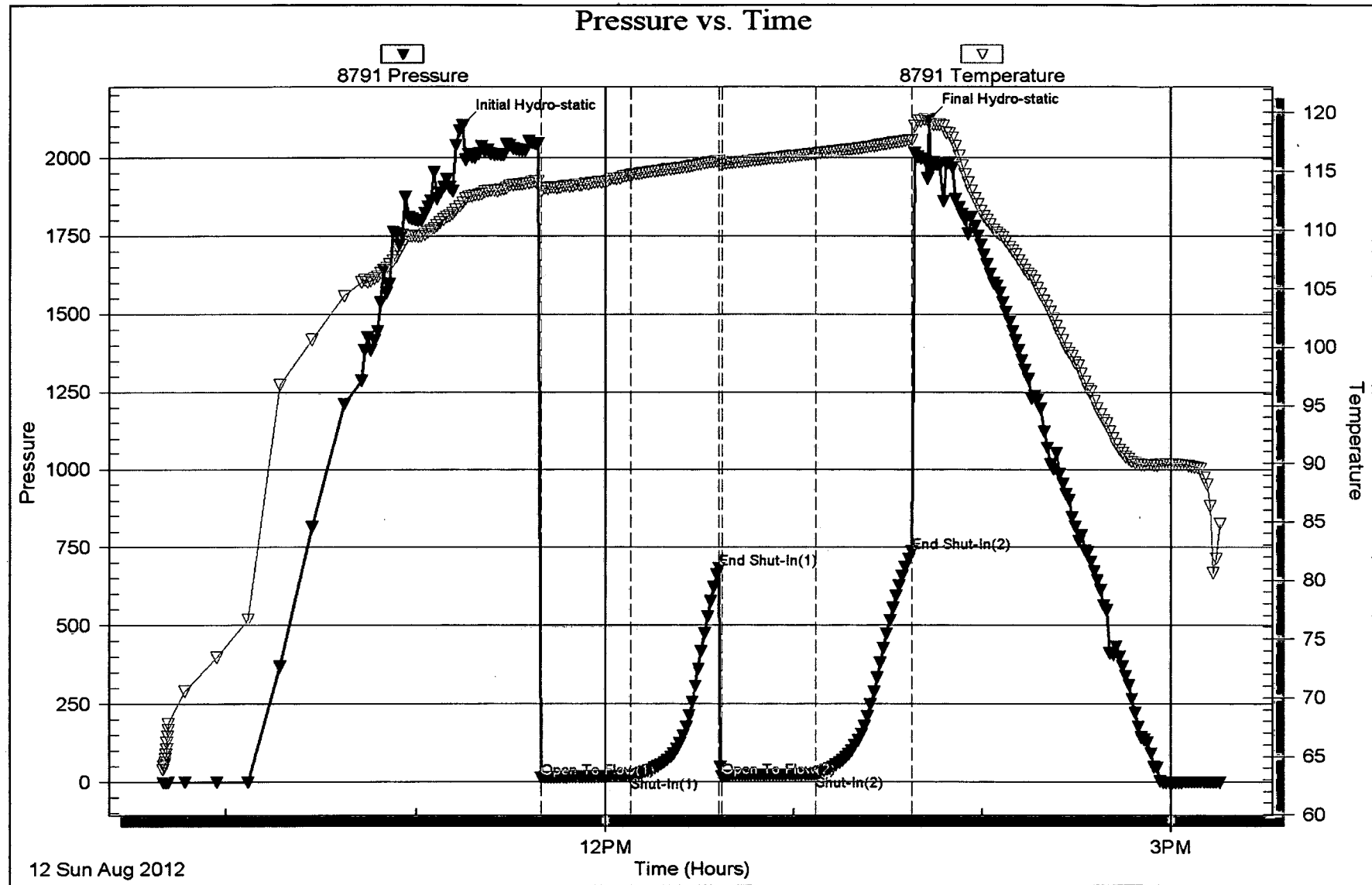
Num Gas Bombs: 0

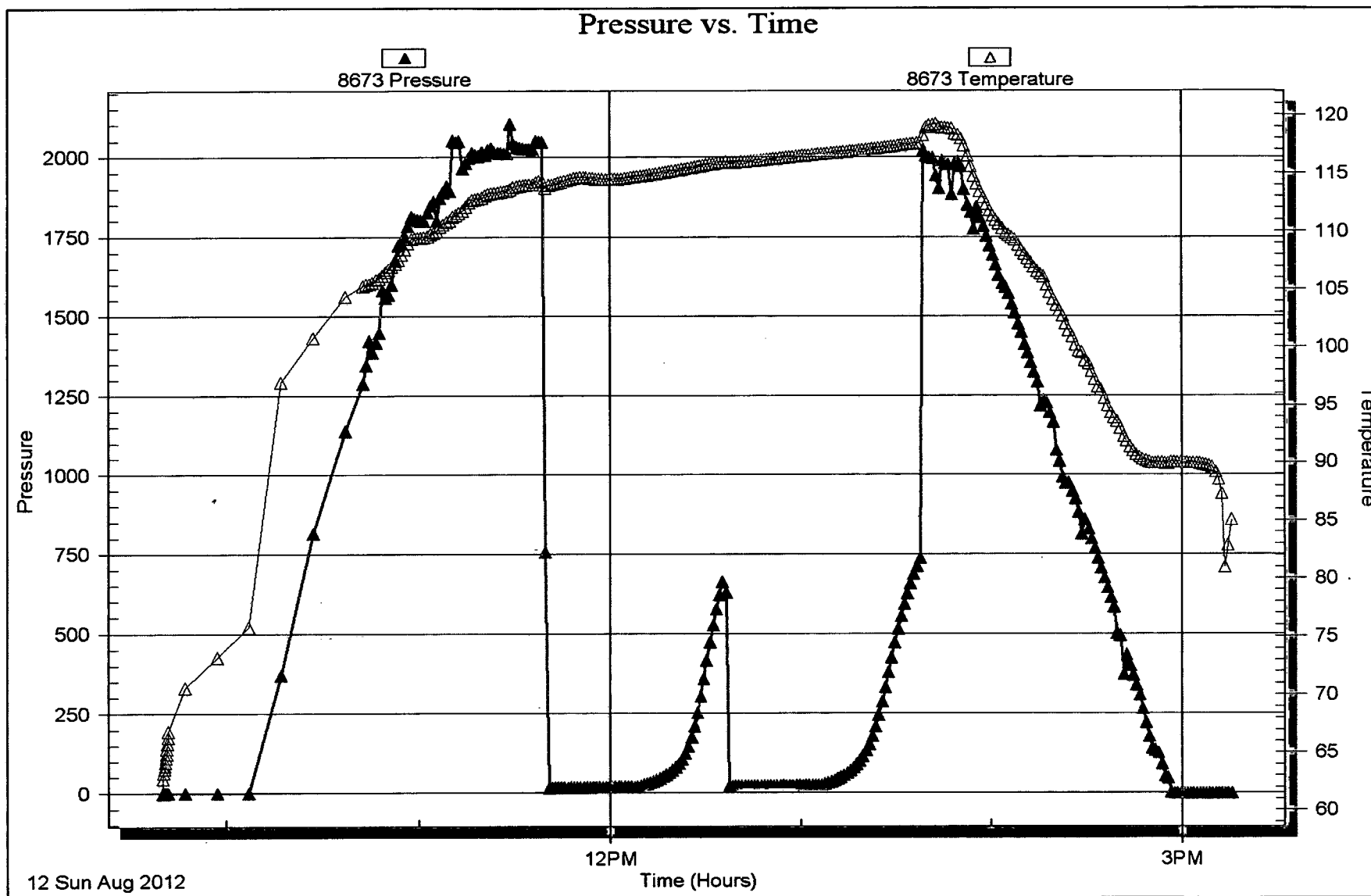
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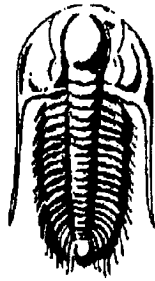
Laboratory Name:

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: Ron Nelson

29-9s-31w Thomas,KS

Hockersmith-Robben #1-29

Start Date: 2012.08.12 @ 01:00:00

End Date: 2012.08.12 @ 09:36:30

Job Ticket #: 47399 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.16 @ 15:15:14

Downing-Nelson oil Co.Inc.

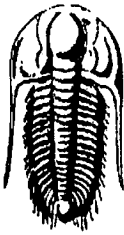
Hockersmith-Robben #1-29

29-9s-31w Thomas,KS

DST # 2

LKC-L

2012.08.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

ATTN: Ron Nelson

Job Ticket: 47399

DST#: 2

Test Start: 2012.08.12 @ 01:00:00

GENERAL INFORMATION:

Formation: **LKC-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:00

Time Test Ended: 09:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: **4330.00 ft (KB) To 4354.00 ft (KB) (TVD)**

Total Depth: 4354.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3043.00 ft (KB)

3038.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 671.66 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.12

End Date: 2012.08.12

Last Calib.: 2012.08.13

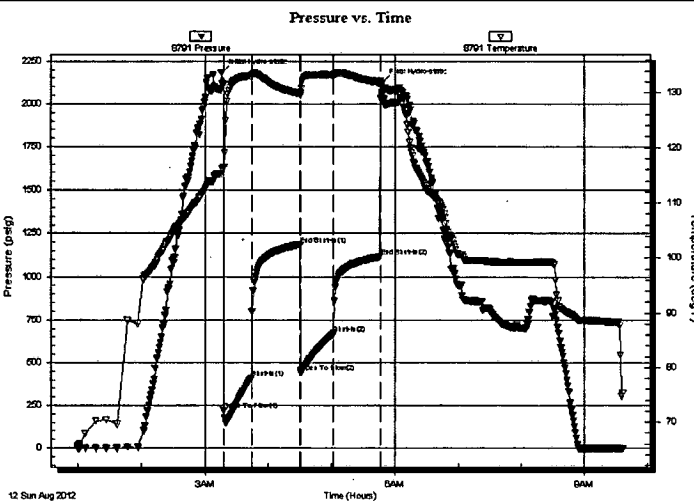
Start Time: 01:00:05

End Time: 09:36:30

Time On Btm: 2012.08.12 @ 03:15:30

Time Off Btm: 2012.08.12 @ 05:48:00

TEST COMMENT: IF: Strong blow , Built to B.O.B in 1 min.
 ISI: Bled off, strong Blow back. Built to B.O.B in 4 1/2 mins.
 FF: Strong blow , Built to B.O.B in 30 sec. Gas to surface 20 mins. into FF
 FSI: Bled off, Strong blow back. Built to B.O.B in 5 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.30	115.18	Initial Hydro-static
3	222.58	116.35	Open To Flow (1)
29	409.16	133.13	Shut-In(1)
75	1185.41	129.87	End Shut-In(1)
76	441.87	129.46	Open To Flow (2)
107	671.66	133.32	Shut-In(2)
151	1115.47	131.82	End Shut-In(2)
153	2125.68	130.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	HMCO-25%m75%o	1.74
1798.00	go-25%g75%o	25.22
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47399

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 01:00:00

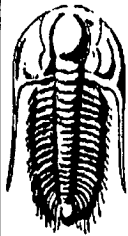
Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.75 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4330.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	24.00 ft			
Tool Length:	44.00 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			4315.00	
Hydraulic tool	5.00			4320.00	
Packer	5.00			4325.00	20.00 Bottom Of Top Packer
Packer	5.00			4330.00	
Stubb	1.00			4331.00	
Recorder	0.00	8791	Inside	4331.00	
Recorder	0.00	8673	Outside	4331.00	
Perforations	20.00			4351.00	
Bullnose	3.00			4354.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47399

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	HMCO-25% <u>m</u> 75% <u>o</u>	1.739
1798.00	<u>g</u> o-25% <u>g</u> 75% <u>o</u>	25.221
0.00	GTS	0.000

Total Length: 1922.00 ft Total Volume: 26.960 bbl

Num Fluid Samples: 0

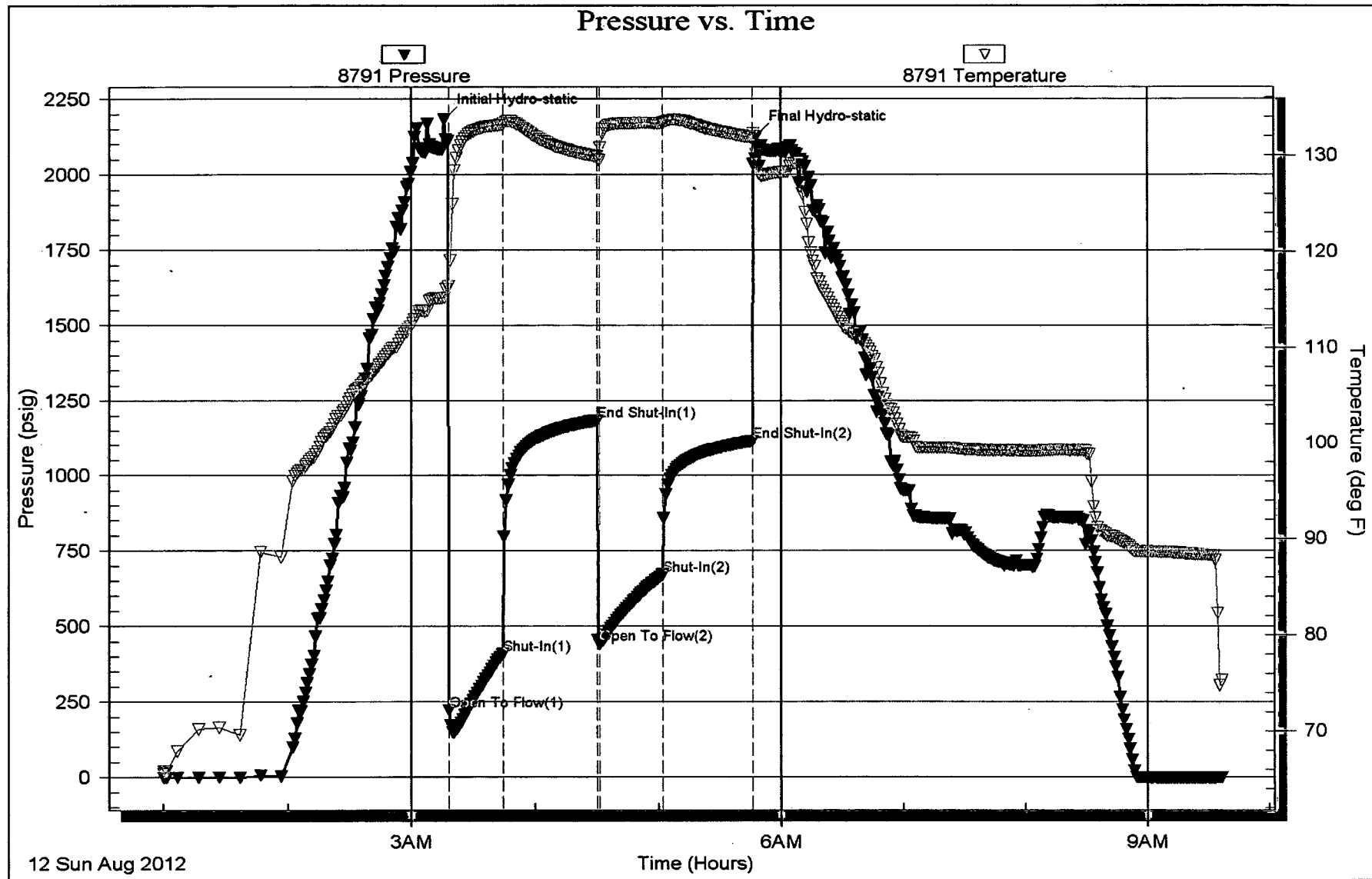
Num Gas Bombs: 0

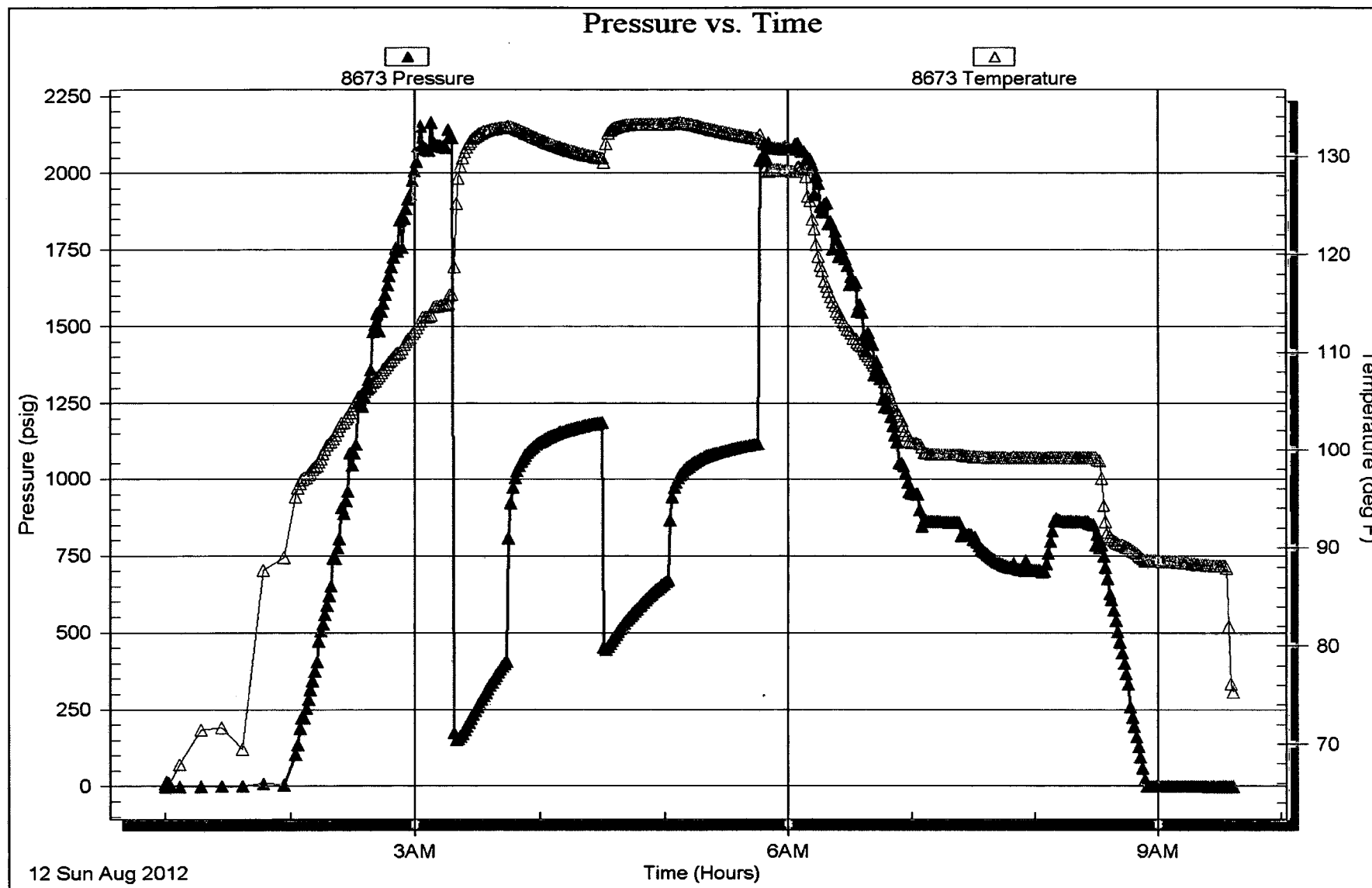
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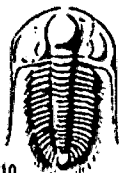
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity-40*@80=38*







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47898

Well Name & No. Hockersmith - Robbin #1-29 Test No. 1 Date 8-11-12
 Company Owning - Nelson Oil Co. Inc. Elevation 3038 KB 3038 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 29 Twp. 9 Rge. 31W Co. Thomas State KS

Interval Tested 4208 4300 Zone Tested L1C - H, E, T
 Anchor Length 92 Drill Pipe Run 4206 Mud Wt. 8.9
 Top Packer Depth 4203 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 4208 Wt. Pipe Run 0 WL 8.0
 Total Depth 4300 Chlorides 800 ppm System LCM 1 1/2 #

Blow Description IF: work blow started at 1 in died to 9/4 in.
IST: No blow back
FF: ~~work~~ work blow, built to 2 in.
FST: No blow back

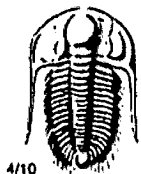
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCMW</u>	<u>30</u>	<u>20</u>	<u>50</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 116 Gravity API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2102 Test 4:30
 (B) First Initial Flow 13 Jars 9:40
 (C) First Final Flow 19 Safety Joint 11:39
 (D) Initial Shut-In 683 Circ Sub 13:50
 (E) Second Initial Flow 16 Hourly Standby 15:16
 (F) Second Final Flow 25 Mileage 50x2 = 100x1.55 155
 (G) Final Shut-In 736 Sampler
 (H) Final Hydrostatic 2121 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1405

T-On Location 4:30
 T-Started 9:40
 T-Open 11:39
 T-Pulled 13:50
 T-Out 15:16
 Comments ONLY Had row out for short trip
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1405
 MP/DST Disc't

Approved By _____ Our Representative Chad [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.

P.O. Box 1733 - Hays, Kansas 67601

Test Ticket

NO. 47399

Well Name & No. Hocker Smith - Robben #1-24 Test No. 2 Date 8-12-2012
 Company Downing - Nelson oil Co. Inc. Elevation 3043 KB 3038 GL
 Address P.O. Box 101A Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 29 Twp. 9 Rge. 31W Co. Thomas State Ks.

Interval Tested 4330 4354 Zone Tested LKC-L
 Anchor Length 24 Drill Pipe Run 4381 Mud Wt. 8.9
 Top Packer Depth 4325 Drill Collars Run -0 Vis 53
 Bottom Packer Depth 4330 Wt. Pipe Run -0 WL 8.0
 Total Depth 4354 Chlorides 800 ppm System LCM 1 1/2 #

Blow Description IF: Strong blow, Built to B.O.B in 1 min.
ISS: Bled off: Strong blow back built to B.O.B in 4 1/2 mins.
FF: strong blow, Built to B.O.B in 30 sec. (Gas to surface 20 mins into. ~~30 mins~~)
FSI: Bled off: Strong blow back built to B.O.B in 5 mins.

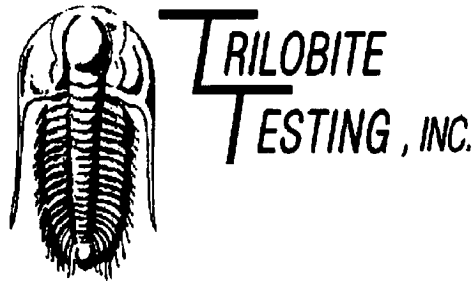
Rec	Feet of	%gas	%oil	%water	%mud
<u>2220</u>	Feet of gas in pipe <u>2432</u>				
Rec <u>1798</u>	Feet of <u>go</u>	<u>25</u> %gas	<u>75</u> %oil	%water	%mud
Rec <u>124</u>	Feet of <u>Hmco</u>	%gas	<u>75</u> %oil	%water	<u>25</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 1922 BHT 138 Gravity 38 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2181</u>	<input checked="" type="checkbox"/> Test _____	T-On Location <u>00137</u>
(B) First Initial Flow <u>223</u>	<input type="checkbox"/> Jars _____	T-Started <u>1:00</u>
(C) First Final Flow <u>409</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>3:18</u>
(D) Initial Shut-In <u>1185</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>5:45</u>
(E) Second Initial Flow <u>442</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:36</u>
(F) Second Final Flow <u>672</u>	<input checked="" type="checkbox"/> Mileage <u>50x2 = 100 x 1.55 = 310</u>	Comments <u>Landed tools at 8:14</u>
(G) Final Shut-In <u>1115</u>	<input type="checkbox"/> Sampler _____	<u>at 22:20</u>
(H) Final Hydrostatic <u>2126</u>	<input type="checkbox"/> Straddle _____	<u>X2 Done back to land tools</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>800</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Day Standby <u>1 Day 11 hrs.</u>	Total <u>2360</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1560</u>	

Approved By _____ Our Representative Chris [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.



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson oil Co.Inc.**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

29-9s-31w Thomas,KS

Hockersmith-Robben #1-29

Start Date: 2012.08.12 @ 09:40:00

End Date: 2012.08.12 @ 15:16:00

Job Ticket #: 47398 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.16 @ 15:16:09

Downing-Nelson oil Co.Inc.

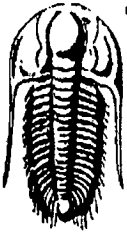
Hockersmith-Robben #1-29

29-9s-31w Thomas,KS

DST # 1

LKC-H,J

2012.08.12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 09:40:00

GENERAL INFORMATION:

Formation: **LKC-H,I,J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:30

Time Test Ended: 15:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: **4208.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Reference Elevations: 3043.00 ft (KB)

Total Depth: 4300.00 ft (KB) (TVD)

3038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 25.49 psig @ 4211.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.12

End Date:

2012.08.12

Last Calib.: 2012.08.12

Start Time: 09:40:05

End Time:

15:15:59

Time On Btm: 2012.08.12 @ 11:14:30

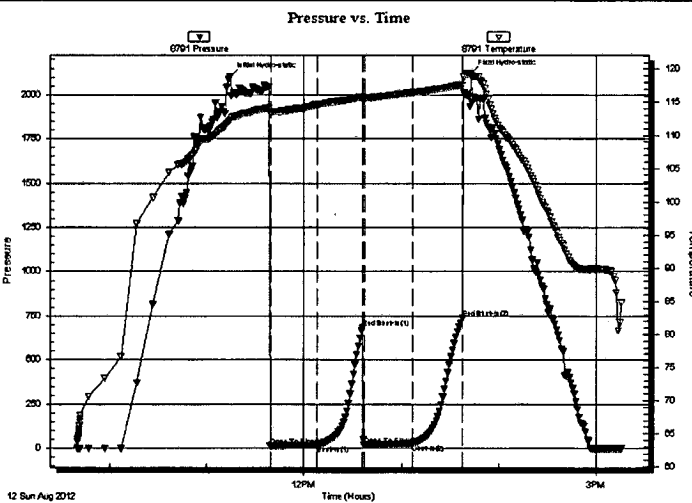
Time Off Btm: 2012.08.12 @ 13:43:00

TEST COMMENT: IF: Weak blow , Started at 1 in. Died to 3/4 in.

IS: No blow back.

FF: Weak blow , Built to 2 in.

FS: No blow back.



PRESSURE SUMMARY

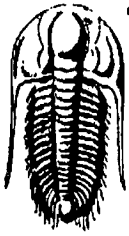
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.29	112.27	Initial Hydro-static
25	13.41	113.24	Open To Flow (1)
54	18.62	114.63	Shut-In(1)
82	682.72	115.83	End Shut-In(1)
83	16.24	115.64	Open To Flow (2)
113	25.49	116.46	Shut-In(2)
143	736.16	117.61	End Shut-In(2)
149	2120.87	119.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCMW 30%O 20%W 50%M	0.42

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 09:40:00

GENERAL INFORMATION:

Formation: **LKC-H,I,J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:30

Time Test Ended: 15:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: **4208.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3043.00 ft (KB)

3038.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press@RunDepth: psig @ 4211.00 ft (KB)

Start Date: 2012.08.12

End Date:

2012.08.12

Capacity: 8000.00 psig

Last Calib.:

2012.08.12

Start Time: 09:40:05

End Time:

15:15:59

Time On Btm:

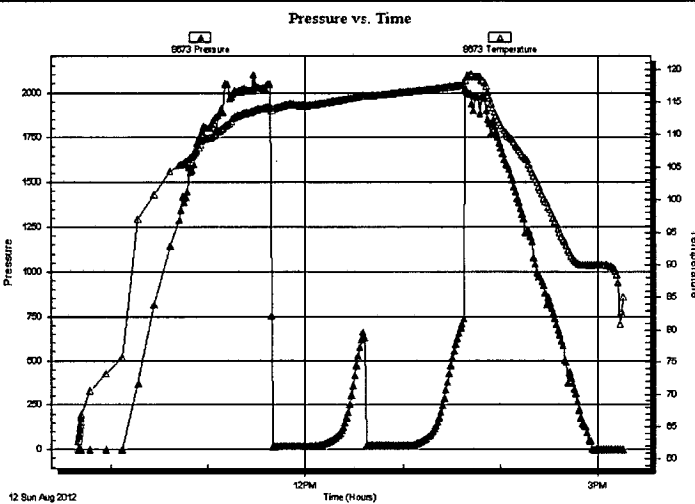
Time Off Btm:

TEST COMMENT: IF: Weak blow , Started at 1 in. Died to 3/4 in.

IS: No blow back.

FF: Weak blow , Built to 2 in.

FS: No blow back.



PRESSURE SUMMARY

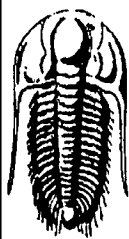
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCMW 30%O 20%W 50%M	0.42

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.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 09:40:00

Tool Information

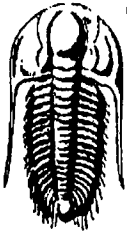
Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.00 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4208.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	90.00 ft			
Tool Length:	110.00 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			4193.00	
Hydraulic tool	5.00			4198.00	
Packer	5.00			4203.00	20.00 Bottom Of Top Packer
Packer	5.00			4208.00	
Stubb	1.00			4209.00	
Perforations	1.00			4210.00	
Change Over Sub	1.00			4211.00	
Recorder	0.00	8791	Inside	4211.00	
Recorder	0.00	8673	Outside	4211.00	
Blank Spacing	63.00			4274.00	
Change Over Sub	1.00			4275.00	
Perforations	20.00			4295.00	
Bullnose	3.00			4298.00	90.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson oil Co. Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas, KS

Job Ticket: 47398

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 09:40:00

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCMW 30%O 20%W 50%M	0.421

Total Length:

30.00 ft

Total Volume:

0.421 bbl

Num Fluid Samples: 0

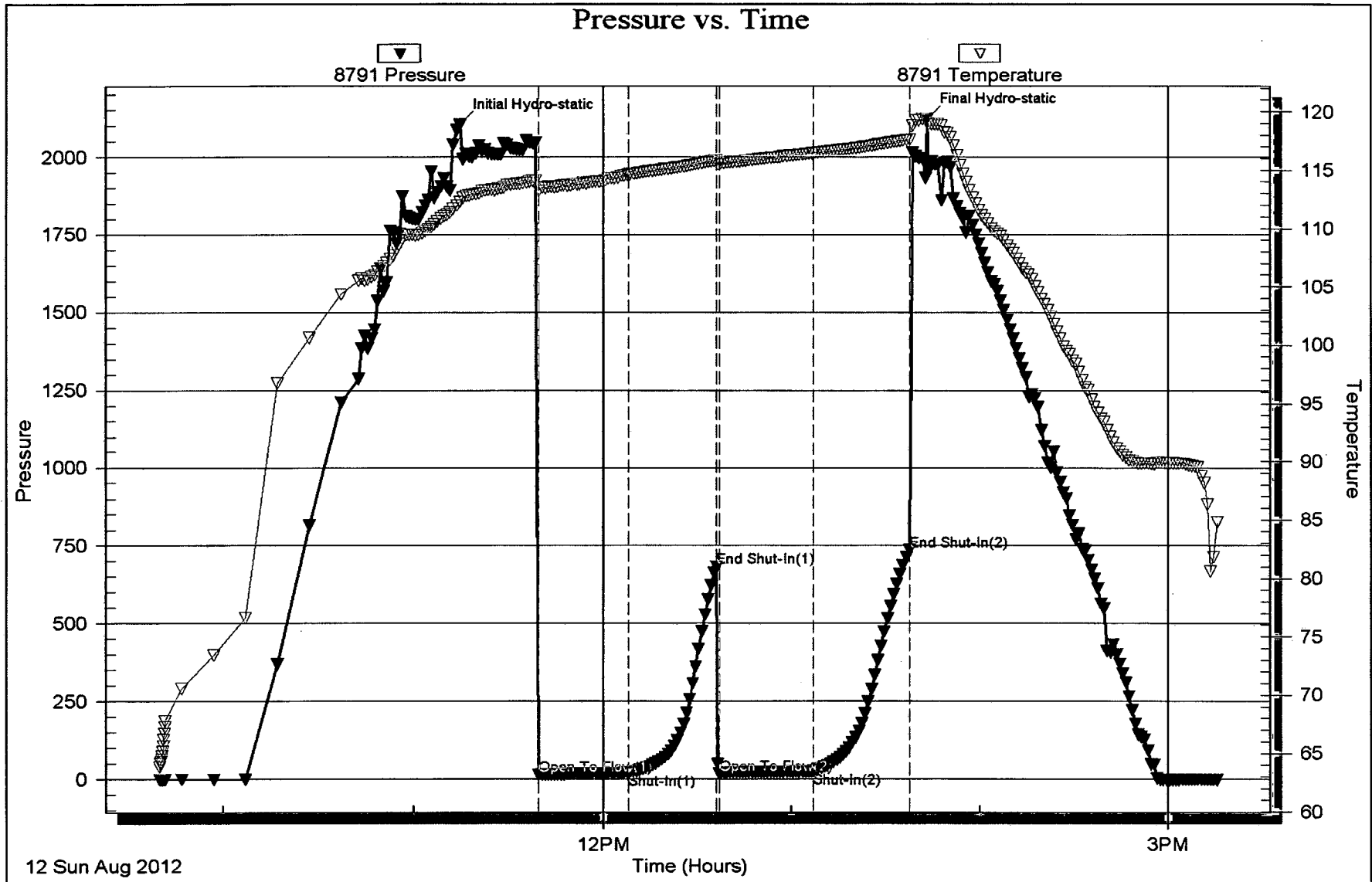
Num Gas Bombs: 0

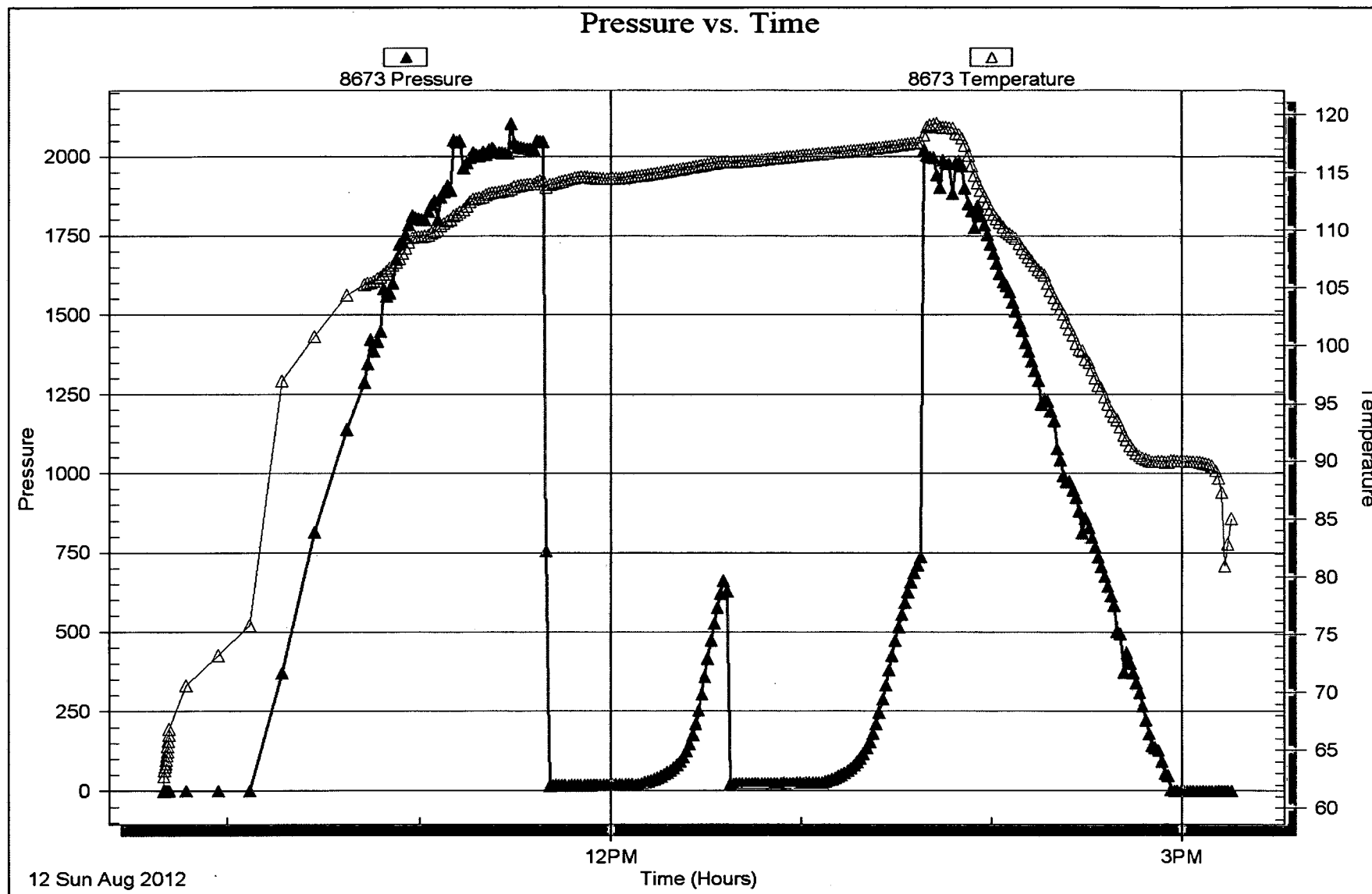
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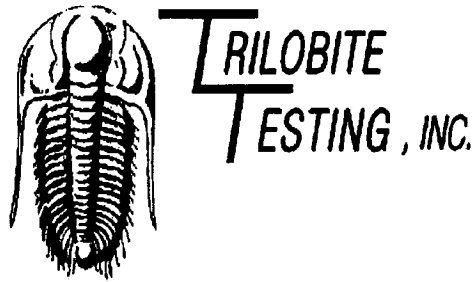
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson oil Co.Inc.**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

29-9s-31w Thomas,KS

Hockersmith-Robben #1-29

Start Date: 2012.08.12 @ 01:00:00

End Date: 2012.08.12 @ 09:36:30

Job Ticket #: 47399 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.16 @ 15:15:14

Downing-Nelson oil Co.Inc.

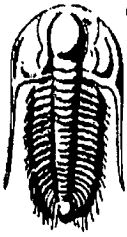
Hockersmith-Robben #1-29

29-9s-31w Thomas,KS

DST # 2

LKC-L

2012.08.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47399

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 01:00:00

GENERAL INFORMATION:

Formation: **LKC-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:00

Time Test Ended: 09:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: 4330.00 ft (KB) To 4354.00 ft (KB) (TVD)

Total Depth: 4354.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3043.00 ft (KB)

3038.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 671.66 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.12

End Date:

2012.08.12

Last Calib.: 2012.08.13

Start Time: 01:00:05

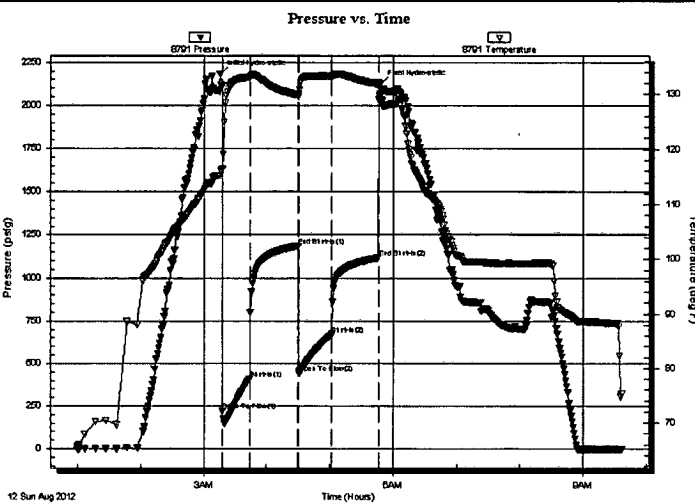
End Time:

09:36:30

Time On Btm: 2012.08.12 @ 03:15:30

Time Off Btm: 2012.08.12 @ 05:48:00

TEST COMMENT: IF: Strong blow , Built to B.O.B in 1 min.
 IS: Bled off, strong Blow back. Built to B.O.B in 4 1/2 mins.
 FF: Strong blow , Built to B.O.B in 30 sec. Gas to surface 20 mins. into FF
 FS: Bled off, Strong blow back. Built to B.O.B in 5 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.30	115.18	Initial Hydro-static
3	222.58	116.35	Open To Flow (1)
29	409.16	133.13	Shut-In(1)
75	1185.41	129.87	End Shut-In(1)
76	441.87	129.46	Open To Flow (2)
107	671.66	133.32	Shut-In(2)
151	1115.47	131.82	End Shut-In(2)
153	2125.68	130.08	Final Hydro-static

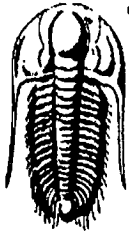
Recovery

Length (ft)	Description	Volume (bbl)
124.00	HMCO-25%m75%o	1.74
1798.00	go-25%g75%o	25.22
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47399

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 01:00:00

GENERAL INFORMATION:

Formation: **LKC-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:00

Time Test Ended: 09:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: **4330.00 ft (KB) To 4354.00 ft (KB) (TVD)**

Total Depth: 4354.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3043.00 ft (KB)

3038.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673

Outside

Press@RunDepth: psig @ 4331.00 ft (KB)

Start Date: 2012.08.12

End Date:

2012.08.12

Start Time: 01:00:05

End Time:

09:36:30

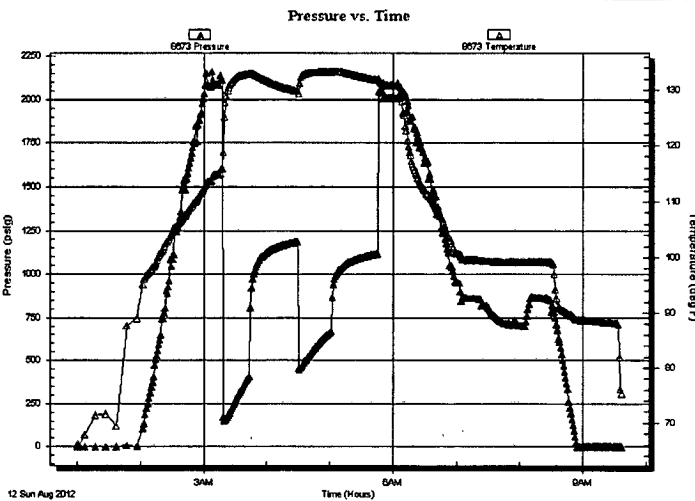
Capacity: 8000.00 psig

Last Calib.: 2012.08.13

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow , Built to B.O.B in 1 min.
ISI: Bled off, strong Blow back. Built to B.O.B in 4 1/2 mins.
FF: Strong blow , Built to B.O.B in 30 sec. Gas to surface 20 mins. into FF
FSI: Bled off, Strong blow back. Built to B.O.B in 5 mins.



PRESSURE SUMMARY

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

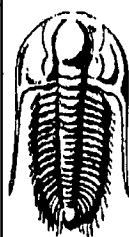
Recovery

Length (ft)	Description	Volume (bbl)
124.00	HMCO-25% <i>m</i> 75% <i>o</i>	1.74
1798.00	go-25% <i>g</i> 75% <i>o</i>	25.22
0.00	GTS	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

Downing-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47399

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 01:00:00

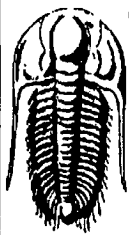
Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.75 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4330.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4315.00	
Hydraulic tool	5.00			4320.00	
Packer	5.00			4325.00	20.00 Bottom Of Top Packer
Packer	5.00			4330.00	
Stubb	1.00			4331.00	
Recorder	0.00	8791	Inside	4331.00	
Recorder	0.00	8673	Outside	4331.00	
Perforations	20.00			4351.00	
Bullnose	3.00			4354.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson oil Co.Inc.

Hockersmith-Robben #1-29

PO Box 1019
Hays KS 67601

29-9s-31w Thomas,KS

Job Ticket: 47399

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.08.12 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	HMCO-25%m75%o	1.739
1798.00	go-25%g75%o	25.221
0.00	GTS	0.000

Total Length: 1922.00 ft Total Volume: 26.960 bbl

Num Fluid Samples: 0

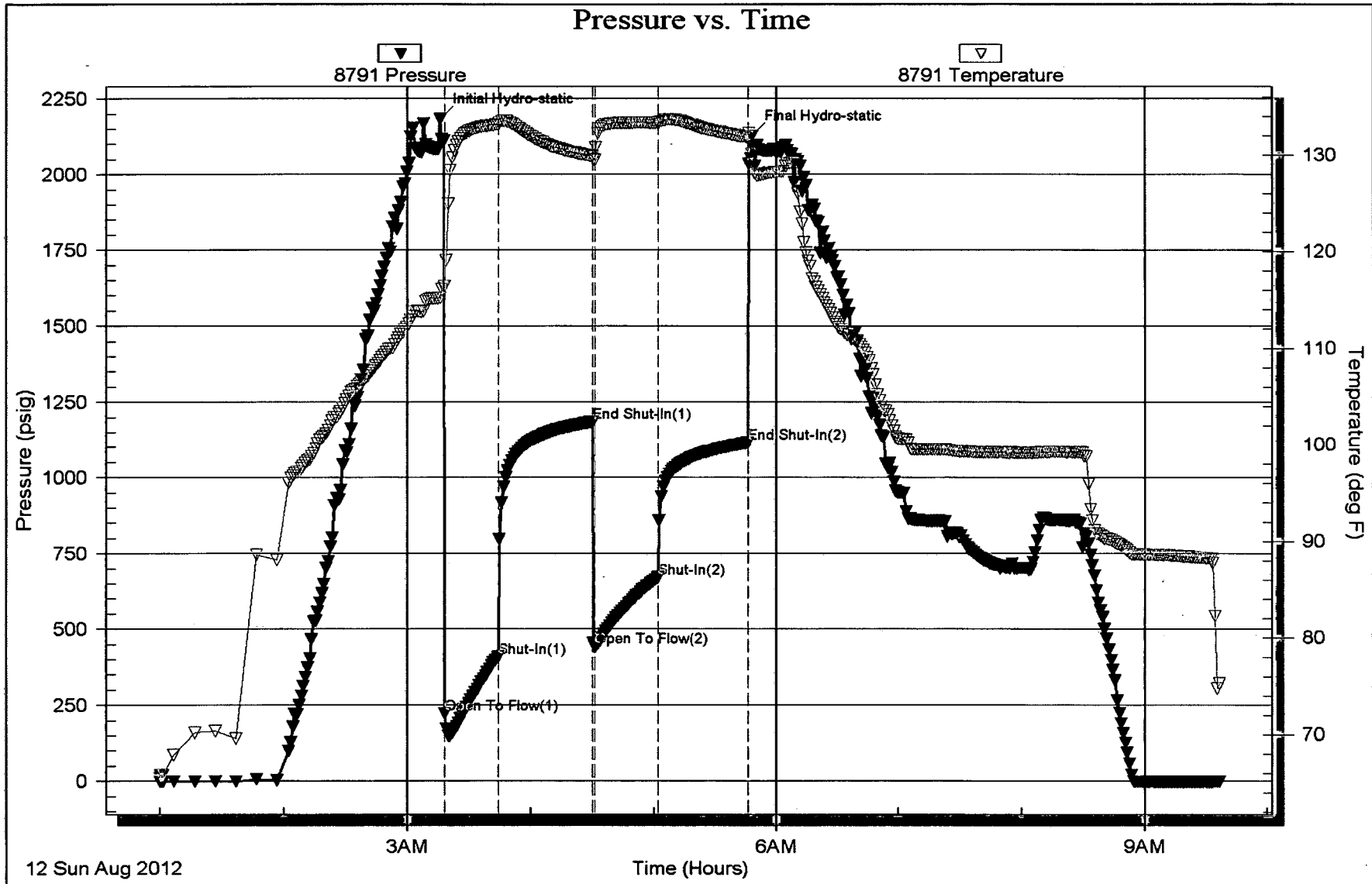
Num Gas Bombs: 0

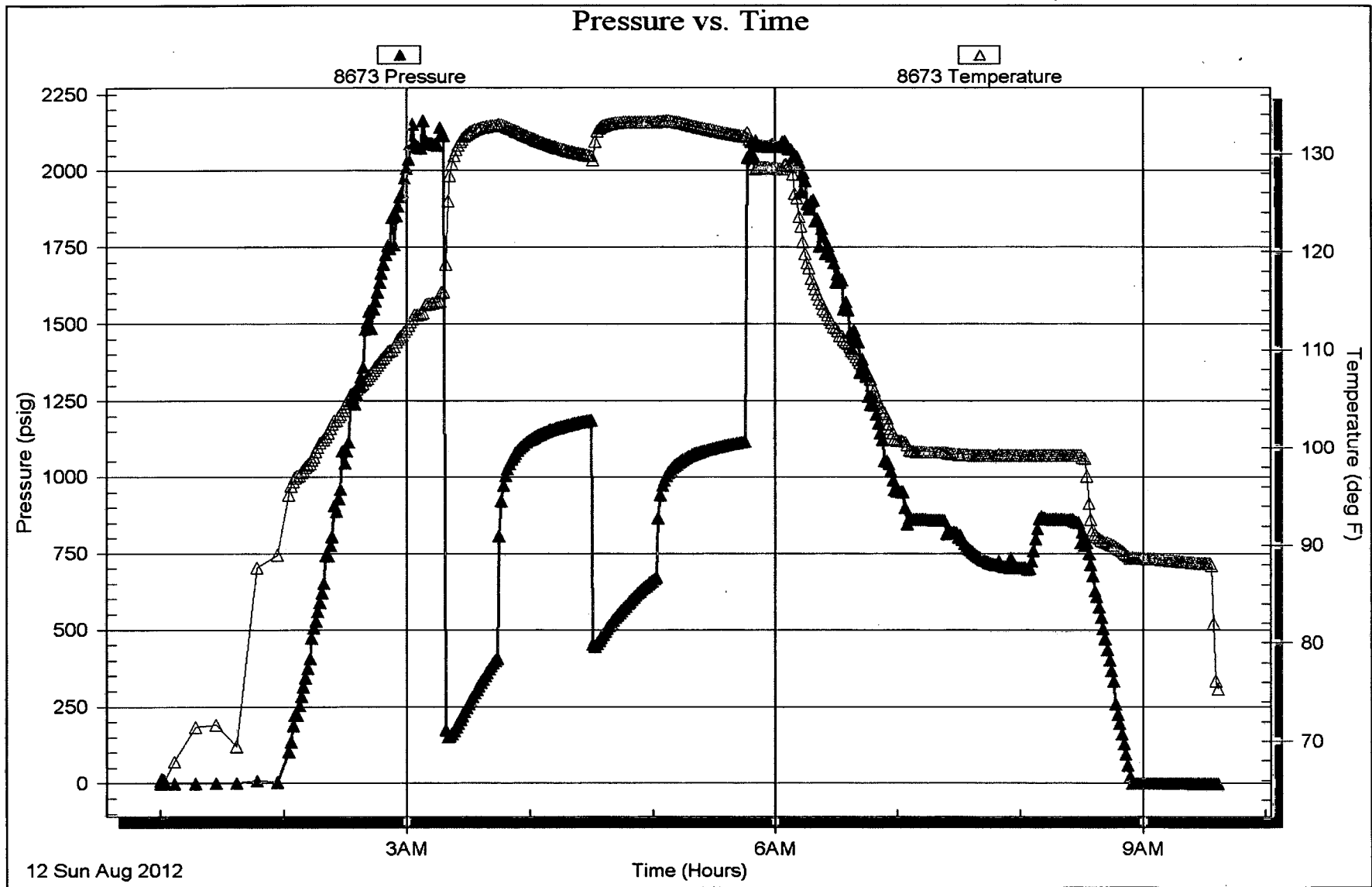
Serial #:

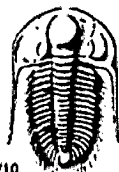
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity-40*@80=38*







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47398

Well Name & No. Hockersmith - Robben #1-29 Test No. 1 Date 8-11-12
 Company Downing - Nelson Oil Co. Inc. Elevation 3058 KB 3038 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 29 Twp. 9 Rge. 31W Co. Thomas State KS

Interval Tested 4208 4300 Zone Tested LIC - H, E, T
 Anchor Length 92 Drill Pipe Run 4206 Mud Wt. 8.9
 Top Packer Depth 4203 Drill Collars Run 0- Vis 53
 Bottom Packer Depth 4208 Wt. Pipe Run 0- WL 8.0
 Total Depth 4300 Chlorides 800 ppm System LCM 1 1/2 #

Blow Description IF: weak blow started at 1 in died to 9/4 in.
JST: No blow back
FF: ~~weak~~ weak blow, built to 2 in.
FST: no blow back

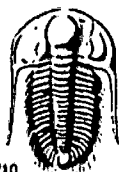
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>DCMW</u>	<u>30</u>	<u>20</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 116 Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>2102</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>4:30</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars	T-Started <u>9:40</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint	T-Open <u>11:39</u>
(D) Initial Shut-In <u>683</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>13:50</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>15:16</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>50x2 = 100x1.55</u> 155	Comments <u>ONLY Had row out for short trial</u>
(G) Final Shut-In <u>736</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2121</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>1405</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1405</u>	

Approved By _____ Our Representative Chuck [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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47399

Well Name & No. Hocker Smith - Robben #1-29 Test No. 2 Date 8-12-2012
 Company Downing - Nelson oil Co. Inc. Elevation 3043 KB 3038 GL
 Address P.O. Box 1012 Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #1
 Location: Sec. 29 Twp. 9 Rge. 31W Co. Thomas State Ks.

Interval Tested 4330 4354 Zone Tested LKC-L
 Anchor Length 24 Drill Pipe Run 4381 Mud Wt. 8.9
 Top Packer Depth 4325 Drill Collars Run -0 Vis 53
 Bottom Packer Depth 4330 Wt. Pipe Run -0- WL 8.0
 Total Depth 4354 Chlorides 800 ppm System LCM 1 1/2 #

Blow Description IF: Strong blow, Built to B.O.B in 1 min.
ISS: Bled off: Strong blow back built to B.O.B in 4 1/2 mins.
FF: strong blow, Built to B.O.B in 30 sec. (Gas to surface 20 mins into. ~~FF: 100~~)
FSI: Bled off: Strong blow built to B.O.B in 5 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2220</u>	Feet of <u>gas in pipe 2432</u>				
<u>1798</u>	Feet of <u>go</u>	<u>25</u>	<u>75</u>		
<u>124</u>	Feet of <u>Hmco</u>		<u>75</u>		<u>25</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

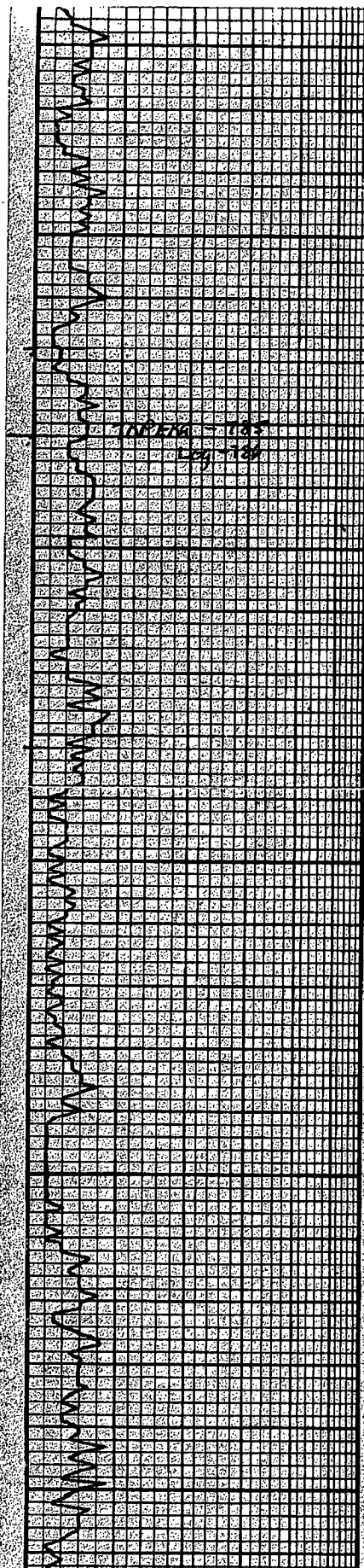
Rec Total 1922 BHT 138 Gravity 38 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2181</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>00137</u>
(B) First Initial Flow <u>223</u>	<input type="checkbox"/> Jars	T-Started <u>1:00</u>
(C) First Final Flow <u>409</u>	<input type="checkbox"/> Safety Joint	T-Open <u>3:18</u>
(D) Initial Shut-In <u>1185</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>5:45</u>
(E) Second Initial Flow <u>442</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:36</u>
(F) Second Final Flow <u>672</u>	<input checked="" type="checkbox"/> Mileage <u>50x2 = 100 x 1.55 = 155</u> ³¹⁰	Comments <u>Loaded tools at 8:14</u>
(G) Final Shut-In <u>1115</u>	<input type="checkbox"/> Sampler	<u>at 22:20</u>
(H) Final Hydrostatic <u>2126</u>	<input type="checkbox"/> Straddle	<u>X2 Done back to load tools</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Day Standby <u>1 Day 11 hrs.</u>	Total <u>2360</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1560</u>	

Approved By _____ Our Representative Chuck Meyer

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.



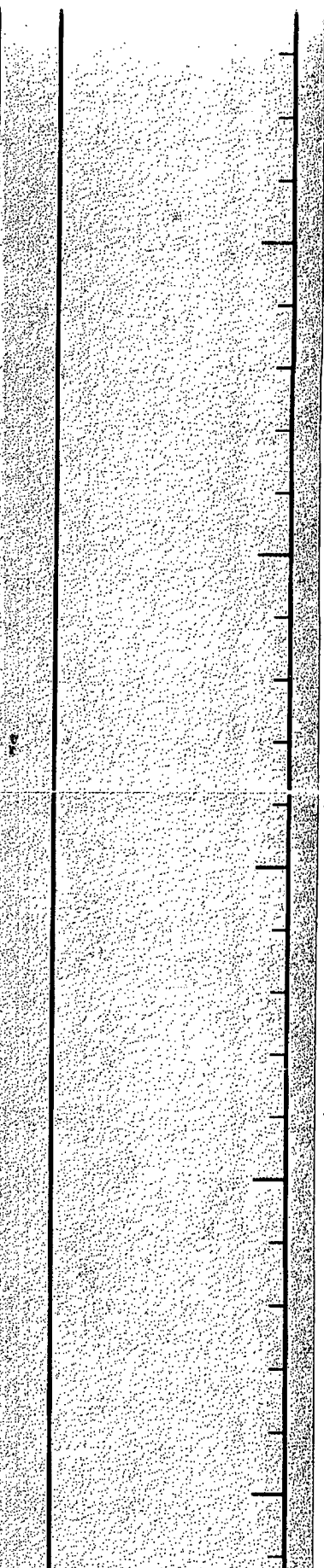
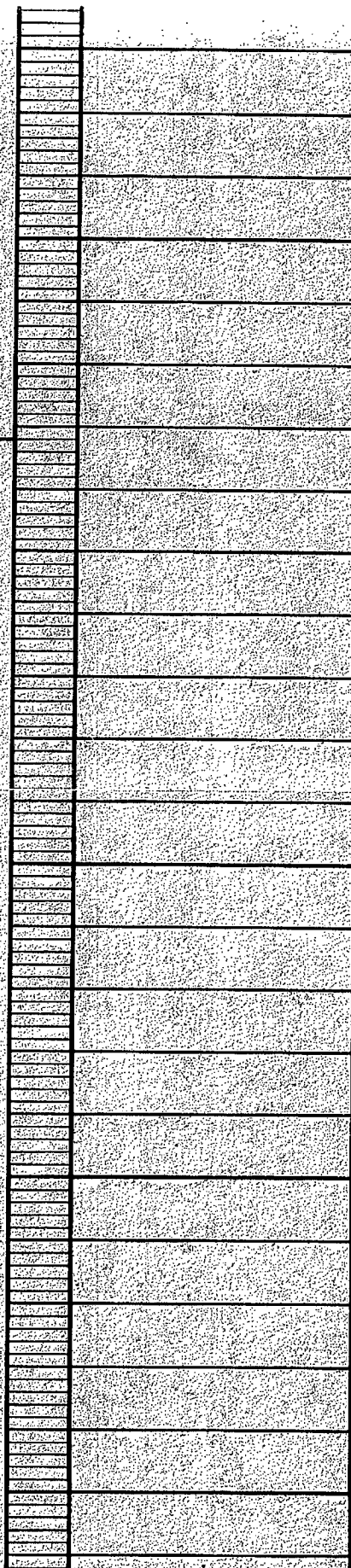
3900

50

3900

50

4000



HOLE NO. 4100
LOG NO. 1000

50

loam chert tan ls g d
interbedded pp ns
sh. grey

HOLE NO. 4100
LOG NO. 1001

4100

tan to ss ls sm fl ryls
foss
thin bands of xylous ls
sh. grey. brn

tan - wh med ss ryls
w/ foss g d
cherty in places
dual tan mic xylous ls
ns

sh. grey
ls tan grey cherty
ns
tan cherty, succ xylous & foss
ls grey ls ns w/ ryls
sh. brn. grey

50

sh. grey
ls tan mic xylous & foss
w/ ryls ls ryls w/
cherty

sh. grey
tan med xylous - ryls
w/ ryls ls med ls
sh. brn. grey

4200

ls tan succ med xylous
gd med xylous ns
sh. grey mic xylous
no fossils
ls tan med ls

sh. grey
ls tan med ls - ryls
w/ ryls w/ ryls
ryls med ls
sh. grey. brn

sh. grey
ls tan med ls - ryls
w/ ryls w/ ryls
ryls med ls
sh. grey. brn

50

mic xylous med ls
no fossils
sh. grey. brn
mic xylous med ls

sh. grey. brn
various fossils

D
S
T

1

OST # 1
4200' - 4300'
30" - 30" - 30" - 30"
1st op 1" - 610w
2nd op 2" - 610w
IFP 13-19
EFP 16-25
SIP 683-736
NP 2102-2121
Rec 30'ocmw
30% oil
20% wt
50% mud

