



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1218664
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: _____



1218664

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
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Horinek 1-10
Doc ID	1218664

All Electric Logs Run

Mircro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Horinek 1-10
Doc ID	1218664

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4113' to 4116'	250 gallons 20% Mud Acid	4113' to 4116'
4	4055' to 4059'	1000 gallons 20% Mud Acid	4055' to 4059'
4	4013' to 4018'	250 gallons 20% Mud Acid	3955' to 3958'
4	3955' to 3958'		
4	3804' to 3806'		
4	3792' to 3798'		



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil CO. Inc**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Horinek #1-10

10-1s-33w Rawlins,KS

Start Date: 2014.08.11 @ 05:49:05

End Date: 2014.08.11 @ 11:07:30

Job Ticket #: 60126 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.14 @ 13:30:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil CO. Inc

10-1s-33w Rawlins,KS

PO Box 1019
Hays, KS 67601

Horinek #1-10

Job Ticket: 60126

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.08.11 @ 05:49:05

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:30:15

Time Test Ended: 11:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 57

Interval: 3930.00 ft (KB) To 3975.00 ft (KB) (TVD)

Reference Elevations: 2945.00 ft (KB)

Total Depth: 3975.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 33.63 psig @ 3931.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.11

End Date:

2014.08.11

Last Calib.:

2014.08.11

Start Time:

05:49:05

End Time:

11:07:29

Time On Btm:

2014.08.11 @ 07:29:45

Time Off Btm:

2014.08.11 @ 09:31:45

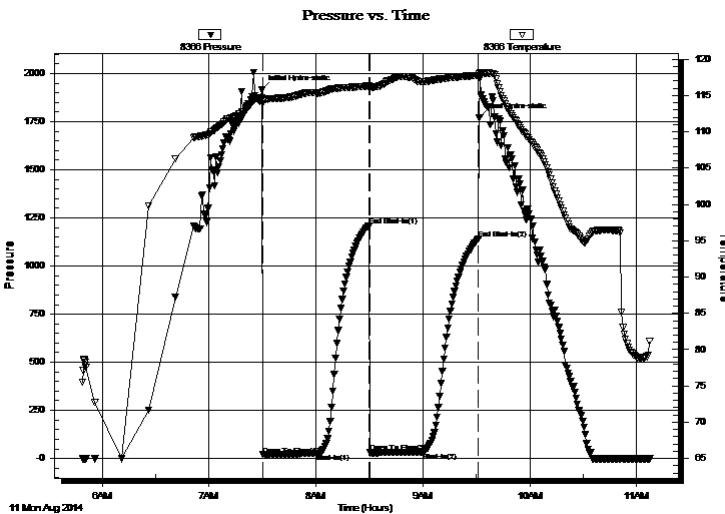
TEST COMMENT: 30 - IF - Weak surface blow built to 3/4"

30 - ISI - No return

30 - FF - Weak surface blow

30 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.47	114.69	Initial Hydro-static
1	18.45	113.88	Open To Flow (1)
31	27.32	115.36	Shut-In(1)
60	1206.40	116.30	End Shut-In(1)
61	29.86	116.02	Open To Flow (2)
91	33.63	116.91	Shut-In(2)
122	1142.48	117.79	End Shut-In(2)
122	1773.00	118.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
43.00	OCM - 80M - 20o	0.33

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil CO. Inc
 PO Box 1019
 Hays, KS 67601
 ATTN: Marc Dow ning

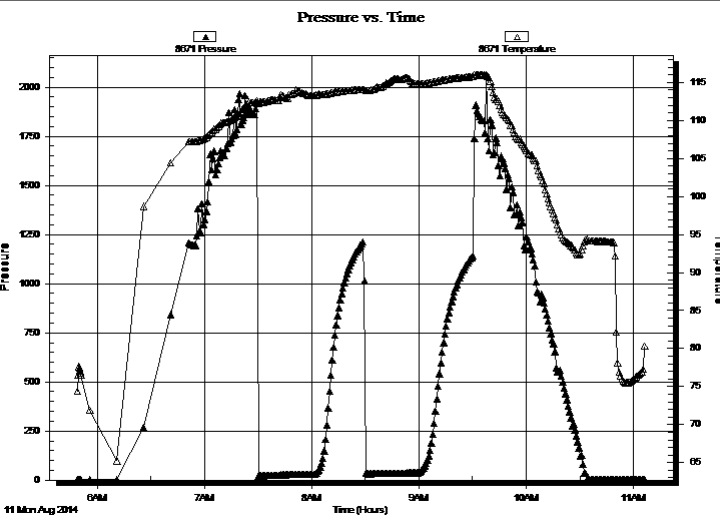
10-1s-33w Rawlins,KS
Horinek #1-10
 Job Ticket: 60126 **DST#: 1**
 Test Start: 2014.08.11 @ 05:49:05

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:30:15
 Time Test Ended: 11:07:30
Interval: 3930.00 ft (KB) To 3975.00 ft (KB) (TVD)
 Total Depth: 3975.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Donovan Baumann
 Unit No: 57
 Reference Elevations: 2945.00 ft (KB)
 2940.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8671 Inside
 Press@RunDepth: psig @ 3931.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.11 End Date: 2014.08.11 Last Calib.: 2014.08.11
 Start Time: 05:49:05 End Time: 11:06:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Weak surface blow built to 3/4"
 30 - ISI - No return
 30 - FF - Weak surface blow
 30 - FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
43.00	OCM - 80M - 20o	0.33

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

10-1s-33w Rawlins,KS

PO Box 1019
Hays, KS 67601

Horinek #1-10

Job Ticket: 60126

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.08.11 @ 05:49:05

Tool Information

Drill Pipe:	Length: 3879.00 ft	Diameter: 3.80 inches	Volume: 54.41 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 54.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3930.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	45.00 ft			
Tool Length:	73.00 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			3907.00	
Hydraulic tool	5.00			3912.00	
Jars	5.00			3917.00	
Safety Joint	3.00			3920.00	
Packer	5.00			3925.00	28.00 Bottom Of Top Packer
Packer	5.00			3930.00	
Stubb	1.00			3931.00	
Recorder	0.00	8671	Inside	3931.00	
Recorder	0.00	8366	Outside	3931.00	
Perforations	41.00			3972.00	
Bullnose	3.00			3975.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil CO. Inc

10-1s-33w Rawlins,KS

PO Box 1019
Hays, KS 67601

Horinek #1-10

Job Ticket: 60126

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.08.11 @ 05:49:05

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 10.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
43.00	OCM - 80M - 20o	0.330

Total Length: 43.00 ft Total Volume: 0.330 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

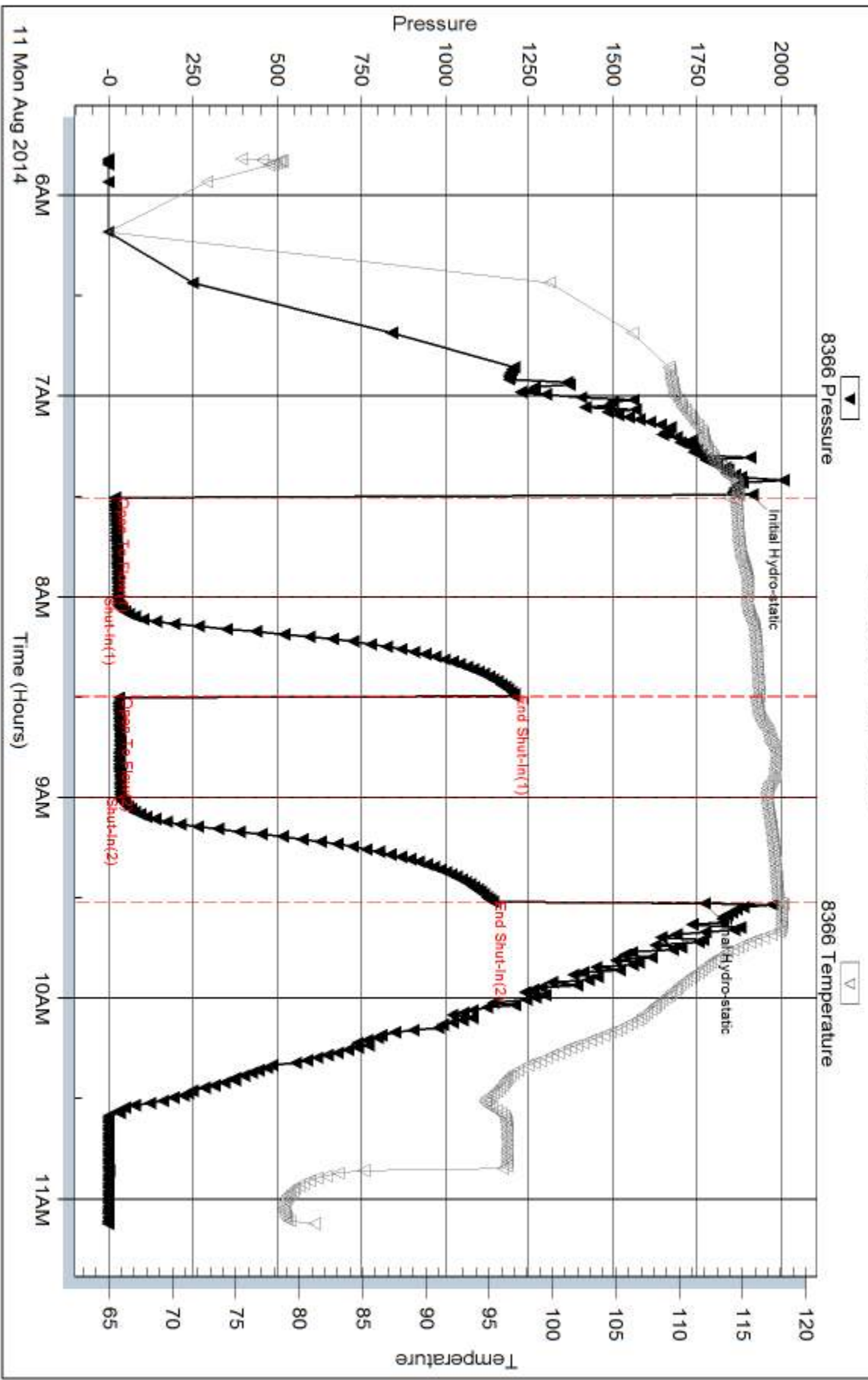
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



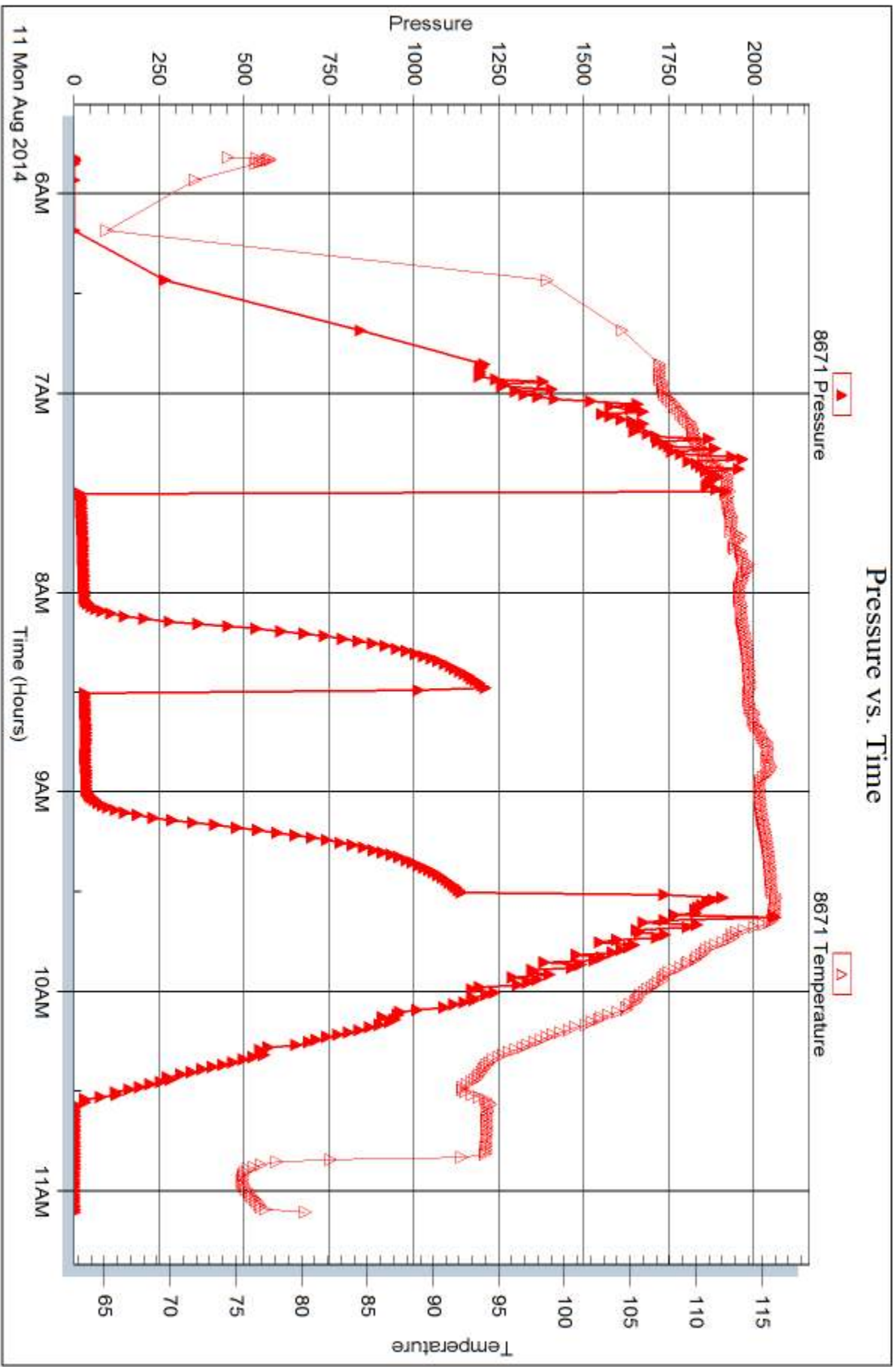
Serial #: 8671

Inside

Dow nrg-Nelson Oil CO, Inc

Hornek #1-10

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60126

Printed: 2014.08.14 @ 13:30:17



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil CO. Inc**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Horinek #1-10

10-1s-33w Rawlins,KS

Start Date: 2014.08.11 @ 23:01:00

End Date: 2014.08.12 @ 05:19:45

Job Ticket #: 60127 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.14 @ 13:29:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil CO. Inc

10-1s-33w Rawlins,KS

PO Box 1019
Hays, KS 67601

Horinek #1-10

Job Ticket: 60127

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.08.11 @ 23:01:00

GENERAL INFORMATION:

Formation: **LKC "D&E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:37:00
 Time Test Ended: 05:19:45
 Interval: **3974.00 ft (KB) To 4076.00 ft (KB) (TVD)**
 Total Depth: 4076.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Donovan Baumann
 Unit No: 57
 Reference Elevations: 2945.00 ft (KB)
 2940.00 ft (CF)
 KB to GR/CF: 5.00 ft

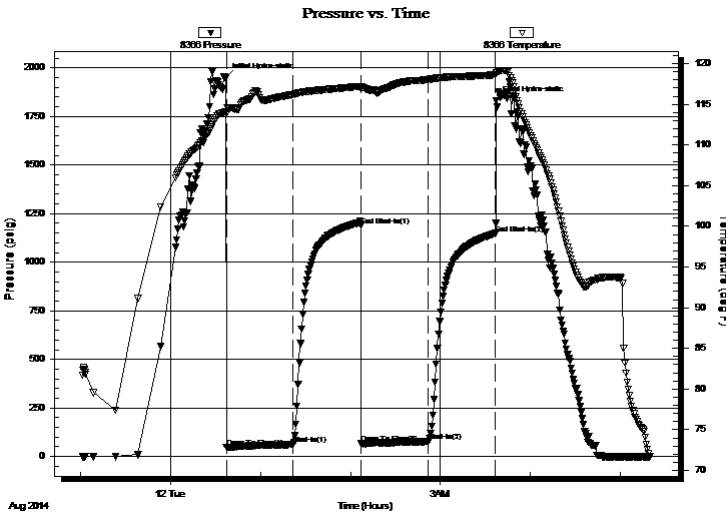
Serial #: 8366

Outside

Press@RunDepth: 77.11 psig @ 3975.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.11 End Date: 2014.08.12 Last Calib.: 2014.08.12
 Start Time: 23:01:05 End Time: 05:19:44 Time On Btm: 2014.08.12 @ 00:36:30
 Time Off Btm: 2014.08.12 @ 03:37:15

TEST COMMENT: 45 - IF - Surface blow built to 3 1/4"
 45 - ISI - No return
 45 - FF - Surface blow built to 2 3/4"
 45 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.33	114.12	Initial Hydro-static
1	47.30	113.89	Open To Flow (1)
46	62.43	116.19	Shut-In(1)
91	1189.49	117.22	End Shut-In(1)
91	67.55	116.91	Open To Flow (2)
136	77.11	118.05	Shut-In(2)
181	1148.03	118.64	End Shut-In(2)
181	1833.44	118.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OCM - 95M - 5o	1.49
10.00	OCM - 60M - 40o	0.14

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

10-1s-33w Rawlins,KS

PO Box 1019
Hays, KS 67601

Horinek #1-10

Job Ticket: 60127

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.08.11 @ 23:01:00

Tool Information

Drill Pipe:	Length: 3943.00 ft	Diameter: 3.80 inches	Volume: 55.31 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3974.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	102.00 ft			
Tool Length:	130.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3951.00	
Hydraulic tool	5.00			3956.00	
Jars	5.00			3961.00	
Safety Joint	3.00			3964.00	
Packer	5.00			3969.00	28.00 Bottom Of Top Packer
Packer	5.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	8671	Inside	3975.00	
Recorder	0.00	8366	Outside	3975.00	
Perforations	98.00			4073.00	
Bullnose	3.00			4076.00	102.00 Bottom Packers & Anchor

Total Tool Length: 130.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil CO. Inc

10-1s-33w Rawlins,KS

PO Box 1019
Hays, KS 67601

Horinek #1-10

Job Ticket: 60127

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.08.11 @ 23:01:00

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:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
126.00	OCM - 95M - 5o	1.494
10.00	OCM - 60M - 40o	0.140

Total Length: 136.00 ft

Total Volume: 1.634 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

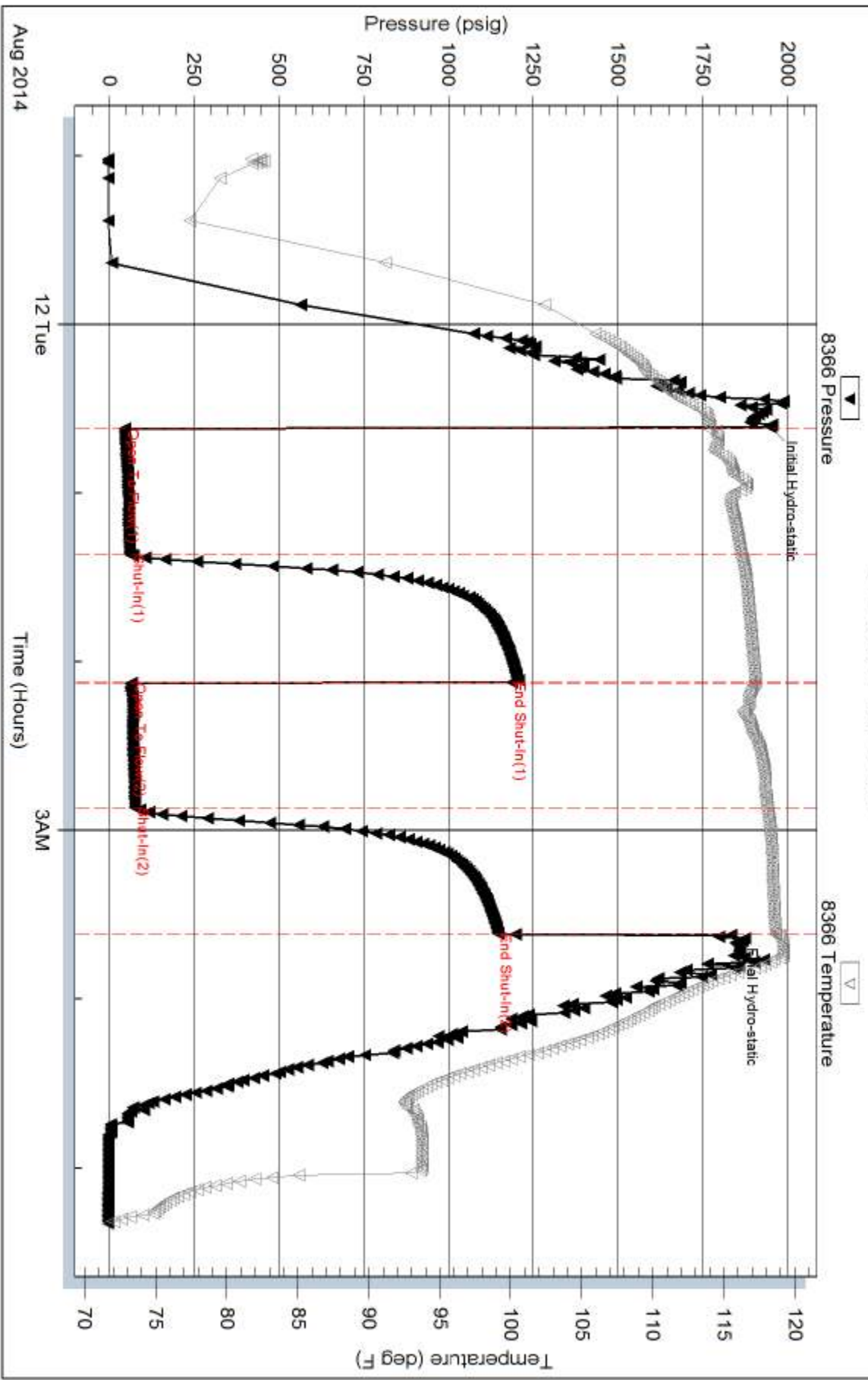
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



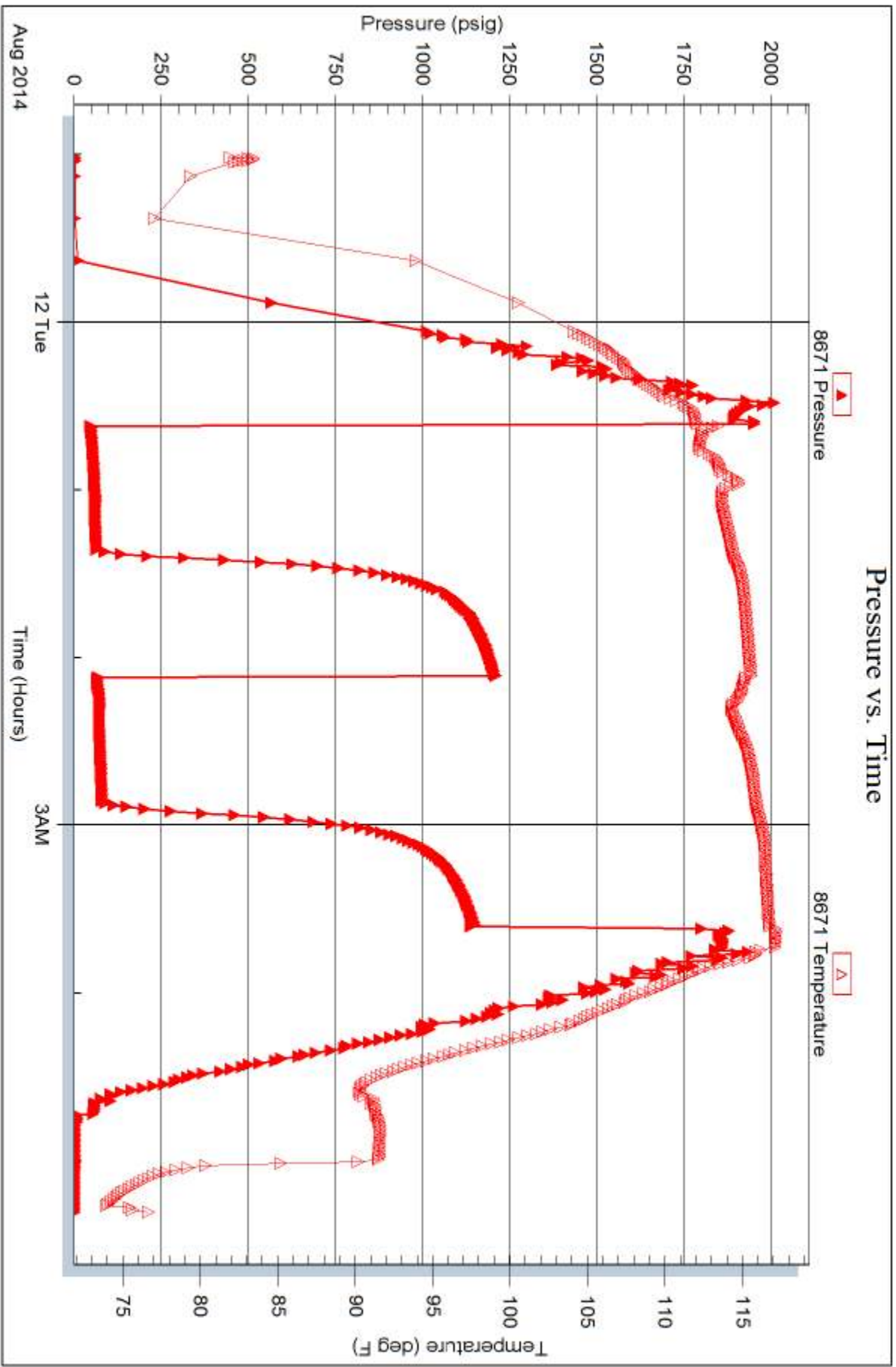
Serial #: 8671

Inside

Dow nging-Nelson Oil CO, Inc

Horinek #1-10

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 60127

Printed: 2014.08.14 @ 13:29:39



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60126

Well Name & No. Hoginek #1-10 Test No. 1 Date 8-11-14
 Company Downing-Nelson Oil Co, Inc Elevation 2945 KB 2940 GL
 Address PO Box 1019 Hays, KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 10 Twp. 15 Rge. 33 Co. Rawlins State KS

Interval Tested 3930' - 3975' Zone Tested LKC "C"
 Anchor Length 45' Drill Pipe Run 3879' Mud Wt. 8.8
 Top Packer Depth 3925' Drill Collars Run 30' Vis 70
 Bottom Packer Depth 3930' Wt. Pipe Run Ø WL 8.8
 Total Depth 3975' Chlorides 700 ppm System LCM #2

Blow Description IF - weak surface blow built to 3/4"
ISI - NO return
FF - weak surface blow
FSI - NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>43</u>	<u>OCM</u>	<u>20</u>		<u>80</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 413 BHT 118 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1915 Test 1150 T-On Location ~~4:25~~ 4:25 a.m.
 (B) First Initial Flow 18 Jars 250 T-Started 5:49 a.m.
 (C) First Final Flow 27 Safety Joint 75 T-Open 7:30 a.m.
 (D) Initial Shut-In 1206 Circ Sub N/C T-Pulled 9:30 a.m.
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 11:08 a.m.
 (F) Second Final Flow 1142 Mileage 84 R/T 130.20 Comments _____
 (G) Final Shut-In 1142 Sampler _____
 (H) Final Hydrostatic 1773 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1605.20
 Total 1605.20
 MP/DST Disc't _____

Approved By _____ Our Representative Danion Baumann

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. 60127

Well Name & No. Horinek #1-10 Test No. 2 Date 8-11-14
 Company Downing-Nelson Oil Co. Inc Elevation 2945 KB 2940 GL
 Address PO Box 1019 Hays, KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 10 Twp. 45 Rge. 33 Co. Rawlins State KS

Interval Tested 3974' - 4076' Zone Tested LKC "D+E"
 Anchor Length 102' Drill Pipe Run 3943' Mud Wt. 9
 Top Packer Depth 3969' Drill Collars Run 30 Vis 80
 Bottom Packer Depth 3974' Wt. Pipe Run 0 WL 8.8
 Total Depth 4076' Chlorides 500 ppm System LCM 1#

Blow Description IF - Surface blow built to 3 1/4"
ISI - No return
FF - Surface blow built to 2 3/4"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	
<u>126</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 136 BHT 119 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1950 Test 1250 T-On Location 10:00p.m.
 (B) First Initial Flow 47 Jars 250 T-Started 11:01p.m.
 (C) First Final Flow 62 Safety Joint 75 T-Open 12:37a.m.
 (D) Initial Shut-In 1189 Circ Sub N/C T-Pulled 3:37am
 (E) Second Initial Flow 68 Hourly Standby _____ T-Out 5:20am
 (F) Second Final Flow 77 Mileage 84 R/T 130.20 Comments _____
 (G) Final Shut-In 1148 Sampler _____
 (H) Final Hydrostatic 1833 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

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

Sub Total 0
 Total 1605.20
 MP/DST Disc't _____
 Sub Total 1605.20

Approved By _____ Our Representative Robert M. Korman

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.

ALLIED OIL & GAS SERVICES, LLC 063319

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakota

DATE <u>8-7-14</u>	SEC <u>10</u>	TWP. <u>1</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>11:00 AM</u>	JOB START <u>11:20 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>Hornbeck</u>		WELL# <u>1-10</u>		LOCATION <u>Atwood 12N 29E</u>		COUNTY <u>Howards</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one) <u>NEW</u>				Sinto			

CONTRACTOR Discovery
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 221'
 CASING SIZE 8 5/8 DEPTH 220'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13 GAL

OWNER Same
 CEMENT AMOUNT ORDERED 125 sls com 3800
2896L

EQUIPMENT
 PUMP TRUCK CEMENTER Andrew Fardul
 # 431 HELPER Brenda Wilkerson
 BULK TRUCK
 # 818 DRIVER Wayne Messalle
 BULK TRUCK
 # DRIVER

COMMON 125 sls @ 12.80 3132.50
 POZMIX @
 GEL 329 # @ 1.50 164.50
 CHLORIDE 493 # @ 1.10 542.30
 ASC @
 Material 1000 3839.30
 (11/27/29/30/2)
 HANDLING 189.23 cwt @ 2.48 469.29
 MILEAGE 2.5 hrs @ 150 375.00
 1592.61
 TOTAL

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Downings Nelson
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 221.70
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILEAGE 6.5 miles @ 7.20 500.50
 MANIFOLD @
light vehicle @ 4.00 286.00
 (12/31/30/2) TOTAL 4310.65

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

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.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (if Any) _____
 TOTAL CHARGES 8119.95
 DISCOUNT 2144.98 (30%) IF PAID IN 30 DAYS
\$5,974.97 Net.

ALLIED OIL & GAS SERVICES, LLC 063322

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

29 Hwy

DATE <u>8-13-14</u>	SEC. <u>10</u>	TWP. <u>1</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>9:30 Am</u>	JOB START <u>2:00 pm</u>	JOB FINISH <u>2:30 P.m</u>
<u>Hornbeck</u> LEASE	WELL# <u>1-10</u>	LOCATION <u>Atwood 12 N 27 E</u>		COUNTY <u>Rowles</u>	STATE <u>TX</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>sinto</u>			

CONTRACTOR <u>Discovery 1</u>	OWNER <u>same</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 1/8</u>	T.D. <u>4183'</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4173.02'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>Port collar</u>	DEPTH <u>2744.05</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>19.02'</u>
CEMENT LEFT IN CSG. <u>19.02'</u>	
PERFS.	
DISPLACEMENT <u>101.35</u>	

CEMENT	
AMOUNT ORDERED <u>195 sks ASC</u>	
<u>10% 5 1/2" 5" Gilsomite 2 Regal</u>	
COMMON	@
POZMIX	@
GEL <u>366 #</u>	@ <u>50</u> <u>183.00</u>
CHLORIDE	@
ASC <u>195 sks</u>	@ <u>23.50</u> <u>4582.50</u>

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Andrew Foxland</u>	HELPER <u>Brandon Wilkinson</u>
BULK TRUCK # <u>891</u>	DRIVER <u>Wayne Messick</u>	
BULK TRUCK #	DRIVER	

<u>Gilsomite 935 #</u>	@ <u>98</u>	<u>955.50</u>
<u>seal 1050</u>	@ <u>68</u>	<u>714.00</u>
<u>12 BBL super flush</u>	@ <u>25.00</u>	<u>300.00</u>
<u>Materia 100</u>	@	<u>6.785.00</u>
HANDLING <u>250.00/cy/ft</u>	@ <u>2.48</u>	<u>120.10</u>
MILEAGE <u>2.25 ton/mile 10.91 ton</u>		<u>1950.16</u>
<u>(2000.50 / 30%)</u>	TOTAL	

REMARKS:

Pump 12 BBL super flush, plug
in case hole 15 sks Rat hole 30 sks
mix 150 sks ASC down 5 1/2 casing
wash pump and line clean. Release
plug and displace, 1000' lift
Long Plug 1400', Plug landed float
held.

Thank you

CHARGE TO: Downing Nelson
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>4173.02'</u>	
PUMP TRUCK CHARGE	<u>2265.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>105 miles</u>	@ <u>2.70</u> <u>500.50</u>
MANIFOLD <u>head</u>	@ <u>225.00</u>
<u>Light vehicle</u>	@ <u>4.90</u> <u>286.00</u>
<u>(1919.25 / 30%)</u>	TOTAL <u>6,397.50</u>

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>	
<u>1 Abu float shoe</u>	@ <u>545.00</u>
<u>1 latch down plug Assy</u>	@ <u>660.00</u>
<u>1 Port collar</u>	@ <u>359.00</u>
<u>2 Baskets</u>	@ <u>395.00</u> <u>790.00</u>
<u>8 Centralizer</u>	@ <u>52.00</u> <u>416.00</u>
<u>(0%)</u>	TOTAL <u>6,511.00</u>

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.

PRINTED NAME _____
SIGNATURE Chiff Mappell

SALES TAX (if Any) _____
TOTAL CHARGES 19,173.50
DISCOUNT 3,939.75 (30%) IF PAID IN 30 DAYS
15,233.75 Net

