



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1182804  
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: \_\_\_\_\_

1182804

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Geerdes-Albers Unit 1-29
Doc ID	1182804

Tops

Name	Top	Datum
Top Anhydrite	2608'	+425
Base Anhydrite	3639'	+394
Topeka	3824'	-791
Heebner	4031'	-998
LKC	4078'	-1045
Stark Shale	4284'	-1251
BKC	4344'	-1311
Pawnee	4458	-1425
Fort Scott	4523'	-1490
Cherokee Shale	4553'	-1520
Johnson Zone	4596'	-1563
Mississippi	4624'	-1591

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Geerdes-Albers Unit 1-29
Doc ID	1182804

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4469'-4472'	250 Gallons 20% Mud Acid	4469'-4472'
4	4335'-4340'	750 Gallons 20% INS Acid	4469'-4472'
4	4216'-4220'	250 Gallons 20% Mud Acid	4335'-4340'
		250 Gallons 20% Mud Acid	4216'-4220'
		750 Gallons 15% NE Acid	4216'-4220'
		750 Gallons 15% NE Acid	4335'-4340'
		1500 Gallons 15 NE Acid	4469'-4472'
		1000 Gallons 20% CRA Acid	4216'-4220'



JOB LOG

SWIFT Services, Inc.

DATE 9-18-13 PAGE NO. 7

CUSTOMER Downing & Nelson WELL NO. A1-29 LEASE Geordie Albers JOB TYPE 2-stage TICKET NO. 24940

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1645							on loc w/FE
								RTD 4675'
								5 1/2" x 14" x 4670' x 20'
								Cent. 1, 3, 5, 7, 9, 11, 13, 50
								Back. 1, 51
								DV Tool 51 @ 2580'
	1745							start FE
	1915							Break circ
	1950	5	0			200		start Pro-flushes 500 gal Mud flush
		5	32/0			200		20 bbl KCL flush
	2005		42					Start 175 sks EA-2
								End cement
								Wash P&L
								Drop L.D. Plug
	2010	6	0			150		Start Displacement water.
		6	55			150		mud
		5	95			200		KCL flush
	2030		113			700 1100		Land Plug
								Release Pressure
								Float Held
	2032							Drop Opening Plug
	2035	2	7/4					Plug RHVMT 30/15 sks SMD
	2040					1100		Open DV Tool
	2041	5	0			150		start 255 sks SMD
	2010		141					End Cement
								Drop Closing Plug
	2115	6	0			150		Start Displacement
		5	40			300		circulate Cement
	2130		63			450 1500		Land Plug
								Release Pressure
								DV closed
								circ 40 sks to pit

Thank you  
Nick, David E., Rob, & Doug



## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

PO Box 1019  
Hays KS 67601

ATTN: Marc Downing

**29-9s-31w Thomas,KS**

**Geerdes Albers Unit #1-29**

Start Date: 2013.09.15 @ 19:20:00

End Date: 2013.09.16 @ 02:28:53

Job Ticket #: 54630                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.19 @ 09:41:48

Downing Nelson Oil Company

Geerdes Albers Unit #1-29

29-9s-31w Thomas,KS

DST # 1

LKC H-J

2013.09.15



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Company

**Geerdes Albers Unit #1-29**

PO Box 1019  
Hays KS 67601

**29-9s-31w Thomas,KS**

ATTN: Marc Downing

Job Ticket: 54630

**DST#: 1**

Test Start: 2013.09.15 @ 19:20:00

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:11:08

Time Test Ended: 02:28:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 55

**Interval: 4196.00 ft (KB) To 4278.00 ft (KB) (TVD)**

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4278.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6667**

**Inside**

Press @ Run Depth: 101.92 psig @ 4263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.15

End Date:

2013.09.16

Last Calib.:

2013.09.16

Start Time: 19:20:15

End Time:

02:28:53

Time On Btm:

2013.09.15 @ 21:09:53

Time Off Btm:

2013.09.16 @ 00:15:08

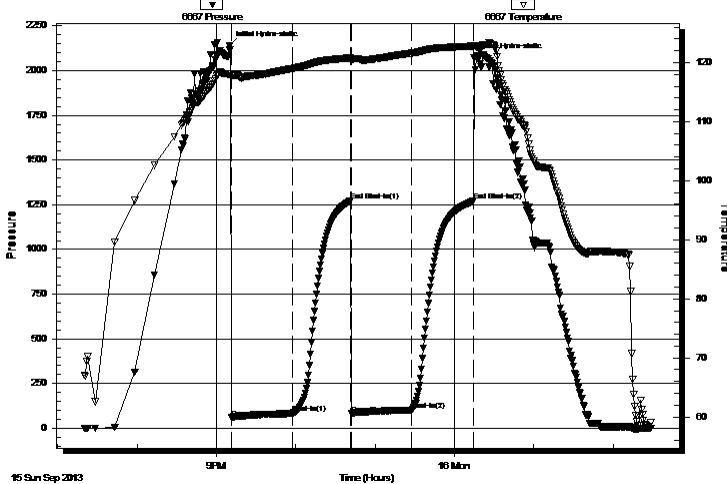
**TEST COMMENT:** 45- IF WSB built to 8 1/2 "

45- ISI No blow back

45- FF - S.S.B.- B.O.B. 28 min

45- FSI - No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.59	118.10	Initial Hydro-static
2	57.76	117.42	Open To Flow (1)
48	82.95	119.00	Shut-In(1)
92	1272.34	120.80	End Shut-In(1)
92	80.12	120.41	Open To Flow (2)
138	101.92	121.60	Shut-In(2)
185	1269.78	122.80	End Shut-In(2)
186	2074.19	122.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	OCM 30% OIL 60% MUD	0.16
95.00	HOCM 40% OIL 60% MUD	1.33
0.00	315' GIP	0.00

Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Company

**Geerdes Albers Unit #1-29**

PO Box 1019  
Hays KS 67601

**29-9s-31w Thomas, KS**

ATTN: Marc Downing

Job Ticket: 54630

**DST#: 1**

Test Start: 2013.09.15 @ 19:20:00

## Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 58.64 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4196.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 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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Change Over Sub	1.00			4177.00	
Shut In Tool	5.00			4182.00	
Hydraulic tool	5.00			4187.00	
Packer	5.00			4192.00	20.00 Bottom Of Top Packer
Packer	4.00			4196.00	
Stubb	1.00			4197.00	
Perforations	1.00			4198.00	
Change Over Sub	1.00			4199.00	
Drill Pipe	63.00			4262.00	
Change Over Sub	1.00			4263.00	
Recorder	0.00	6667	Inside	4263.00	
Recorder	0.00	8368	Outside	4263.00	
Perforations	10.00			4273.00	
Bullnose	5.00			4278.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Company

**Geerdes Albers Unit #1-29**

PO Box 1019  
Hays KS 67601

**29-9s-31w Thomas, KS**

Job Ticket: 54630      **DST#: 1**

ATTN: Marc Downing

Test Start: 2013.09.15 @ 19:20:00

## 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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

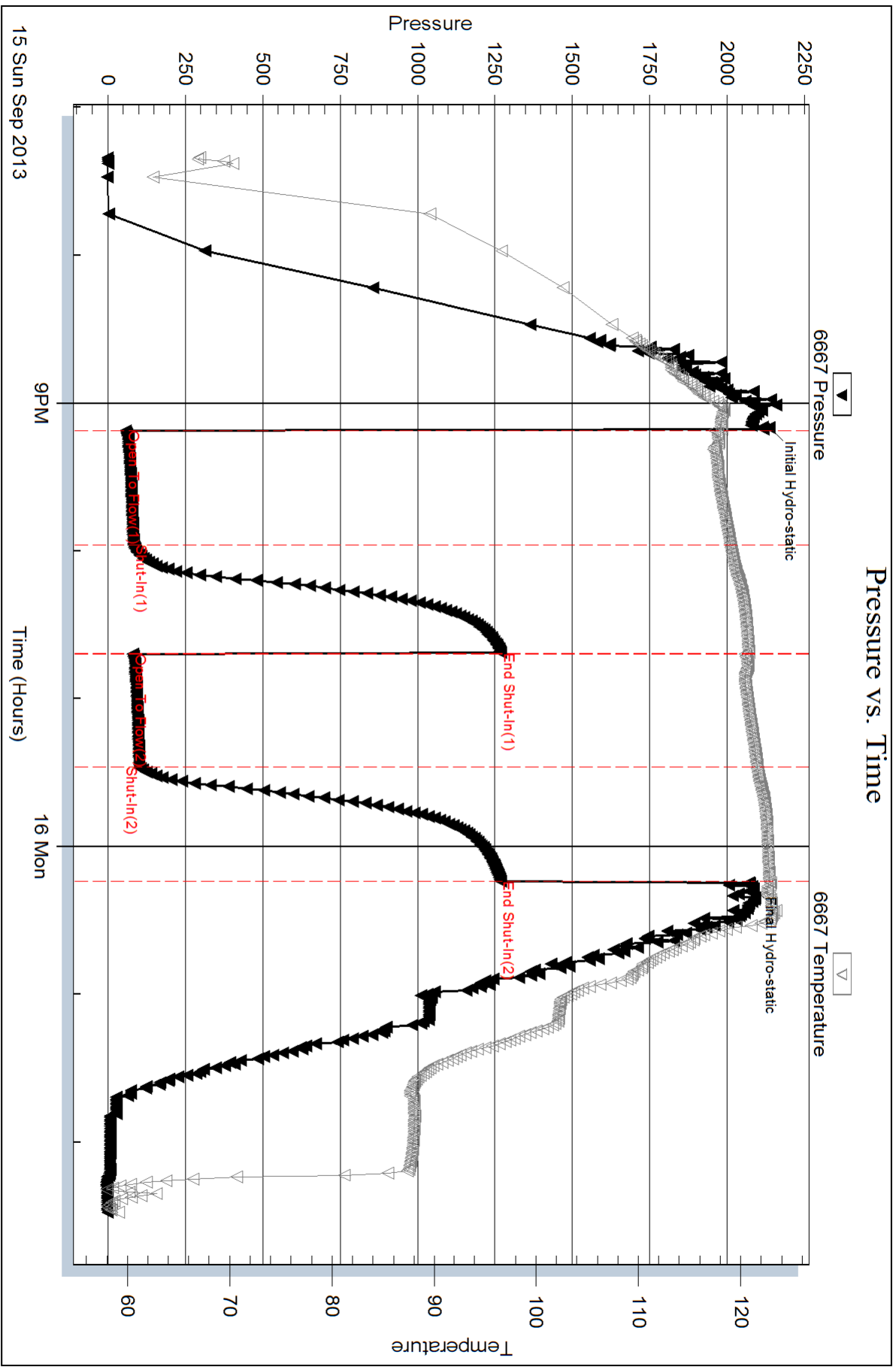
Length ft	Description	Volume bbl
32.00	OCM 30% OIL 60%MUD	0.157
95.00	HOCM 40% OIL 60% MUD	1.333
0.00	315' GIP	0.000

Total Length: 127.00 ft      Total Volume: 1.490 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

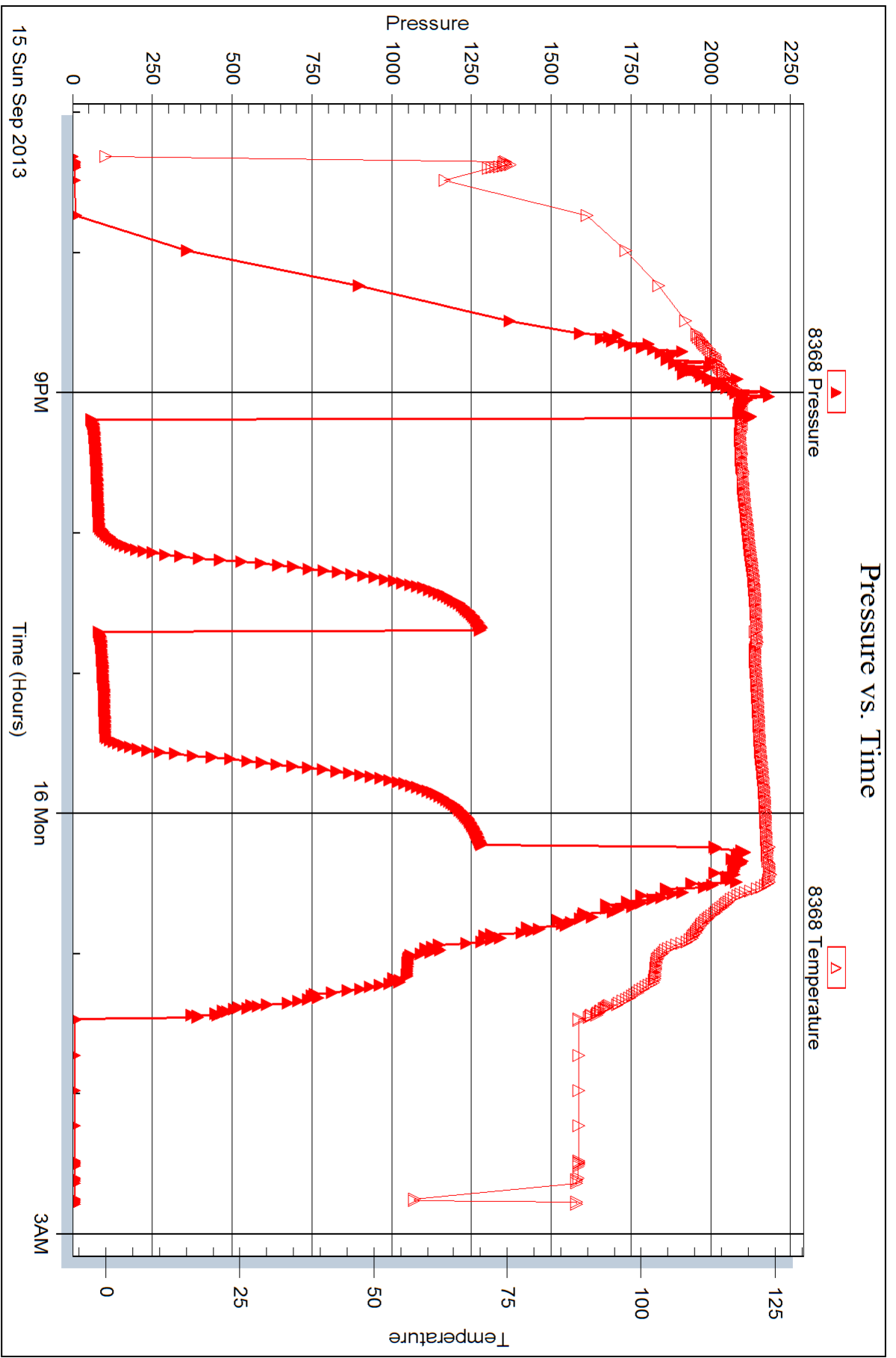


Serial #: 8368

Outside Dow n ing Nelson Oil Company

29-95-31w Thomas, KS

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

PO Box 1019  
Hays KS 67601

ATTN: Marc Downing

**29-9s-31w Thomas,KS**

**Geerdes Albers Unit #1-29**

Start Date: 2013.09.16 @ 13:50:00

End Date: 2013.09.16 @ 22:09:15

Job Ticket #: 54361                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.19 @ 09:41:04

Downing Nelson Oil Company

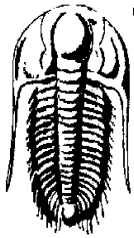
Geerdes Albers Unit #1-29

29-9s-31w Thomas,KS

DST # 2

LKC "L"

2013.09.16



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Company

**Geerdes Albers Unit #1-29**

PO Box 1019  
Hays KS 67601

**29-9s-31w Thomas,KS**

ATTN: Marc Downing

Job Ticket: 54361

**DST#: 2**

Test Start: 2013.09.16 @ 13:50:00

## GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:00

Time Test Ended: 22:09:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 55

**Interval: 4311.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8368 Outside**

Press @ Run Depth: 292.35 psig @ 4315.00 ft (KB)

Start Date: 2013.09.16

End Date:

2013.09.16

Start Time: 13:50:05

End Time:

22:09:14

Capacity: 8000.00 psig

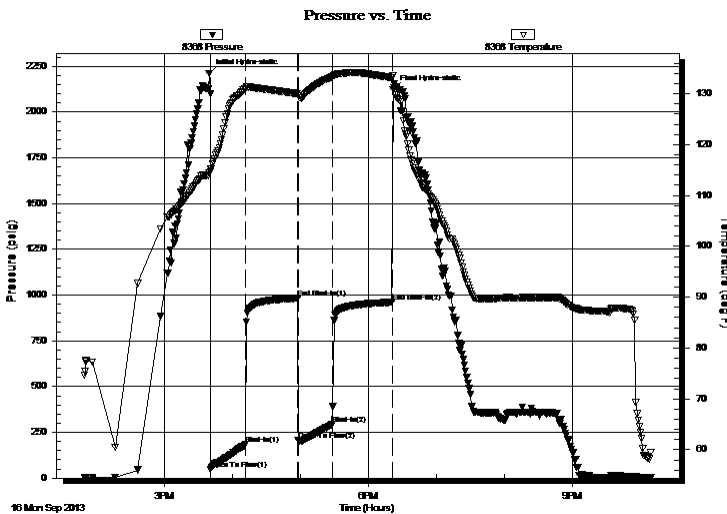
Last Calib.: 2013.09.16

Time On Btm: 2013.09.16 @ 15:39:45

Time Off Btm: 2013.09.16 @ 18:21:45

**TEST COMMENT:** 30- IF - S.S.B. Built to B.O.B in 3 min  
45- ISI - B.O.B. in 8 min  
30- FF - S.S.B. Built to B.O.B. in 4 1/2 min  
45- FSI - B.O.B. in 7 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2212.06	114.48	Initial Hydro-static
2	49.61	114.63	Open To Flow (1)
32	184.25	131.08	Shut-In(1)
78	983.37	130.02	End Shut-In(1)
79	208.26	129.69	Open To Flow (2)
109	292.35	133.30	Shut-In(2)
162	961.24	133.16	End Shut-In(2)
162	2121.92	133.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
602.00	CO 100% OIL	8.15
126.00	HMCO 30%MUD 70%OIL	1.77
0.00	2961' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Company

**Geerdes Albers Unit #1-29**

PO Box 1019  
Hays KS 67601

**29-9s-31w Thomas, KS**

Job Ticket: 54361

**DST#: 2**

ATTN: Marc Downing

Test Start: 2013.09.16 @ 13:50:00

## Tool Information

Drill Pipe:	Length: 4287.00 ft	Diameter: 3.80 inches	Volume: 60.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4311.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 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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Change Over Sub	1.00			4292.00	
Shut In Tool	5.00			4297.00	
Hydraulic tool	5.00			4302.00	
Packer	5.00			4307.00	20.00 Bottom Of Top Packer
Packer	4.00			4311.00	
Stubb	1.00			4312.00	
Perforations	3.00			4315.00	
Recorder	0.00	6667	Inside	4315.00	
Recorder	0.00	8368	Outside	4315.00	
Perforations	20.00			4335.00	
Bullnose	5.00			4340.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Company

**Geerdes Albers Unit #1-29**

PO Box 1019  
Hays KS 67601

**29-9s-31w Thomas, KS**

Job Ticket: 54361

**DST#: 2**

ATTN: Marc Downing

Test Start: 2013.09.16 @ 13:50:00

## 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: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
602.00	CO 100% OIL	8.153
126.00	HMCO 30%MUD 70%OIL	1.767
0.00	2961' GIP	0.000

Total Length: 728.00 ft      Total Volume: 9.920 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

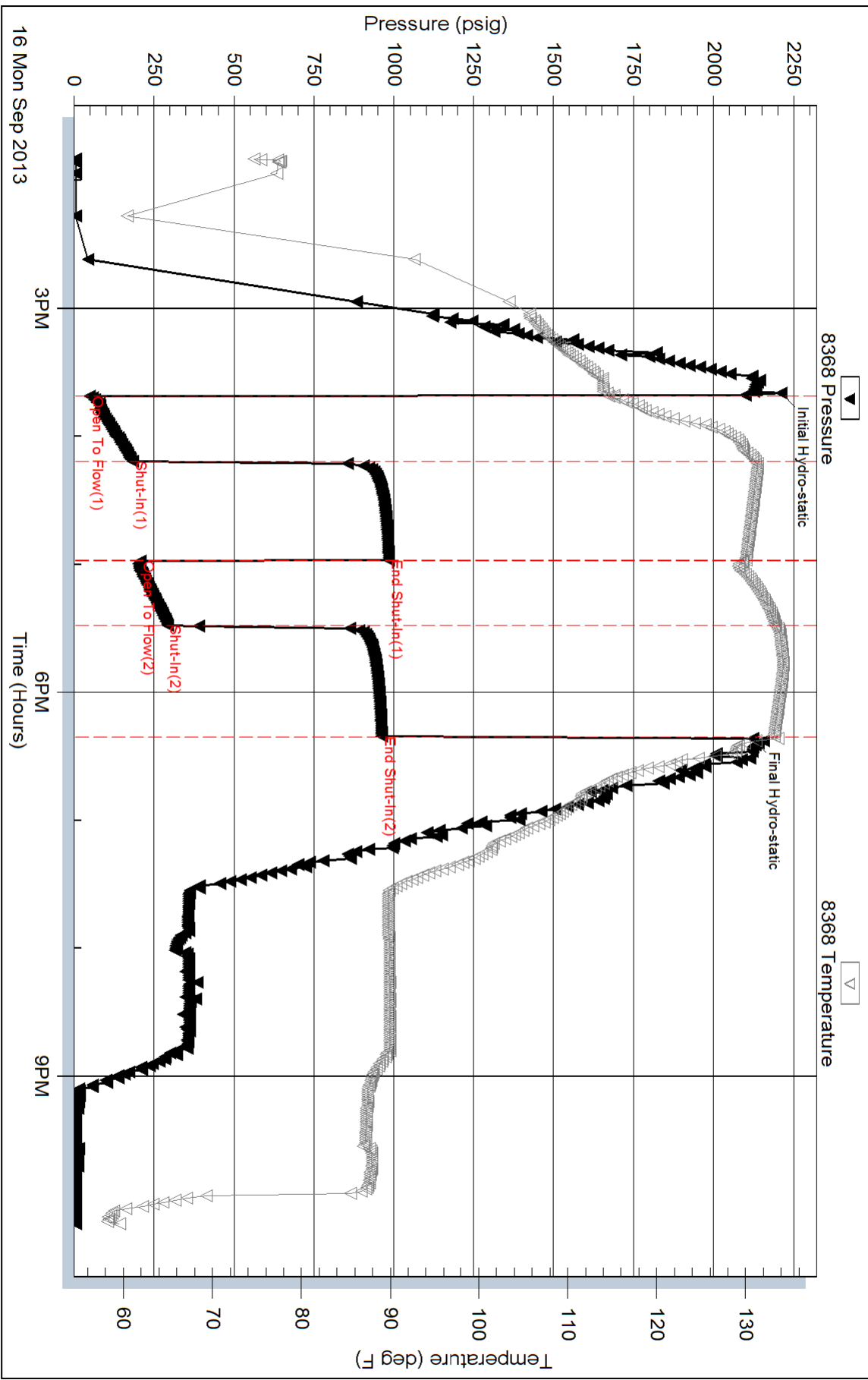
Serial #: 8368

Outside Dow n ing Nelson Oil Company

29-95-31w Thomas,KS

DST Test Number: 2

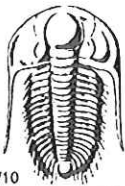
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 54361

Printed: 2013.09.19 @ 09:41:06



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54630

Well Name & No. Geerdes-Albers unit #1-29 Test No. 1 Date 9-15-13  
 Company Downing Nelson Elevation 3033 KB 3025 GL  
 Address P.O. Box 1019 Hays 67601  
 Co. Rep / Geo. Mark Downing Rig Discovery Rig #1  
 Location: Sec. 29 Twp. 9 Rge. 31 Co. Thomas State KS

Interval Tested 4,196 - 4,278 Zone Tested L.K.C. H-J  
 Anchor Length 82' Drill Pipe Run 4,169 Mud Wt. 9.1  
 Top Packer Depth 4,191 Drill Collars Run 32 Vis 54  
 Bottom Packer Depth 4,196 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 4,278 Chlorides 4000 ppm System LCM 1-1/2

Blow Description 45-I, E, W, S, B. Built to 8 1/2 in 45 min  
45-I, S, I - No Blow Back  
45-F, K - S, S, B. B, O, B. in 28 min.  
45-F, S, I - No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	Feet of <u>GIP</u>				
<u>63</u>	Feet of <u>HOCM</u>		<u>40</u>		<u>60</u>
<u>63</u>	Feet of <u>HOCM</u>		<u>30</u>		<u>70</u>
_____	Feet of _____				
_____	Feet of _____				

Rec Total 126 BHT 123 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

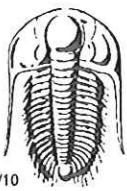
(A) Initial Hydrostatic 2,138  Test 1250 T-On Location 18:05:00  
 (B) First Initial Flow 58  Jars \_\_\_\_\_ T-Started 19:20:00  
 (C) First Final Flow 83  Safety Joint \_\_\_\_\_ T-Open 21:13:00  
 (D) Initial Shut-In 1272  Circ Sub \_\_\_\_\_ T-Pulled 00:13:00  
 (E) Second Initial Flow 80  Hourly Standby \_\_\_\_\_ T-Out 02:30:00  
 (F) Second Final Flow 102  Mileage 150 RT 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,270  Sampler \_\_\_\_\_ Thank you  
 (H) Final Hydrostatic 2,074  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 1482.50  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1482.50

Approved By \_\_\_\_\_ Our Representative Bob Hanna

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. 54631

Well Name & No. Geerdes-albers unit #1-29 Test No. 2 Date 9-16-13  
 Company Downing Nelson Elevation 3033 KB 3025 GL  
 Address P.O. Box 1019 Hays, 67601  
 Co. Rep / Geo. Mark Downing Rig Discovery Rig #1  
 Location: Sec. 29 Twp. 9 Rge. 31 Co. Thomas State KS.

Interval Tested 4,311-4,340 Zone Tested L.K.C. "L"  
 Anchor Length 29 Drill Pipe Run 4,287 Mud Wt. 9.2  
 Top Packer Depth 4,306 Drill Collars Run 32 Vis 53  
 Bottom Packer Depth 4,311 Wt. Pipe Run ———— WL 6.8  
 Total Depth 4,340 Chlorides 1,000 ppm System LCM 1#

Blow Description 30-I.F.-S.S.B. B.O.B. in 3 min.  
45-I.S.I.-B.O.B. 8 min.  
30-F.F.-S.S.B. B.O.B. in 4 1/2 min.  
45-F.S.I.-B.O.B. 7 min.

Rec	Feet of	%gas	%oil	%water	%mud
32	CO	100			
570	CO	100			
126	HMC0	70		30	
2901	GIP				
Rec Total	728 BHT 133	Gravity 38	API RW @ 60	F Chlorides	ppm

(A) Initial Hydrostatic 2,212  Test 1250 T-On Location 13:10:00  
 (B) First Initial Flow 50  Jars T-Started 13:50:00  
 (C) First Final Flow 184  Safety Joint T-Open 15:41:00  
 (D) Initial Shut-In 983  Circ Sub T-Pulled 18:11:00  
 (E) Second Initial Flow 208  Hourly Standby T-Out 22:10:00  
 (F) Second Final Flow 292  Mileage 20 RT 465 Comments 45 min. to Drop Bar  
 (G) Final Shut-In 961  Sampler PICKED UP TOOK 11:00  
 (H) Final Hydrostatic 2122  Straddle S.M. 9-18-13  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45  
 Sub Total 1715

Approved By \_\_\_\_\_ Our Representative Bob Hamei

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**Marc Downing**

Consulting Petroleum Geologist  
1411 Washington Circle  
Hays, KS 67601  
Phone: 620-429-1356 (cell) 785-621-2286

Geologic  
REPORT  
LOG

COMPANY: Downing-Nelson Oil Co, Inc  
WELL: Geordies-Albers Unit #1-29  
FIELD: Unlabeled

314	314	29
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LOCATION: 2908' FULC + 2475' FULC  
ELEVATION: KB 3033

SEC.: 29 TWP.: 9S RGE.: 31W

COUNTY: Thomas  
STATE: Kansas

OPERATOR: DNDCT  
CONTRACTOR: Discovery Drilling, Rig #1  
COMM.: 9-11-13  
CASING RECORD: More Downing  
SURT.: 454' @ 220' PROD: 56" @ 4474'  
TOTAL DEPTH: 4474'

Drilling Measured From: 4000 to 4000  
Samples saved from: 4000 to 4000  
Drilling time from: 3700 to 4000  
Samples examined from: 3700 to 4000  
Geological Supervision from: 3700 to 4000  
Fractured Stems: Adobors  
Casing/Oil: MEL

**FORMATION TOPS AND STRUCTURAL POSITION**

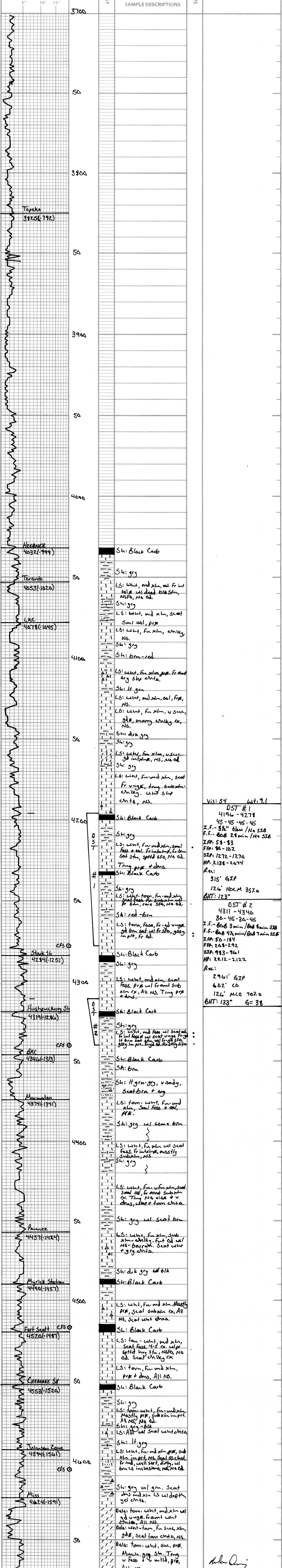
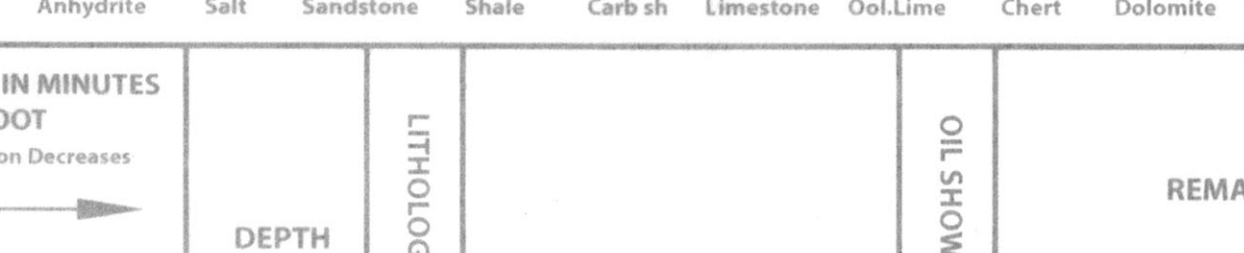
FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA POSITION	STRUCTURAL POSITION
Top Anhydrite	2609	2608	4125	-4
Base Anhydrite	2640	2639	4394	-5
Topeka	3825	3824	-191	-5
Heerman	4032	4031	-99	-2
LKC	4078	4078	-1015	+1
Stack Sh	4184	4184	-1251	+8
Hushpuckney	4314	4314	-1311	+9
BKC	4396	4396	-1415	+9
Marmaton	4407	4407	-1423	+9
Fort Scott	4428	4428	-1440	+9
Cherokee Sh	4520	4520	-1524	+1
Johnson Zone	4594	4594	-1591	+1
Miss	4624	4624	-1643	+2

REFERENCE WELL FOR STRUCTURE: DNDCT  
Hudsonville-Jobson #1-29 1326 Sd 1945' BAL Sec. 29-9S-31W

**DRILL STEM TESTS**

No.	Interval	ISP/Time	ESP/Time	HP/HP	REMARKS

**LEGEND**



Marc Downing