

DRILL STEM TEST REPORT

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

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

14-14-21-Trego-Ks W

Stalnaker-Dinkel # 1-14

Start Date: 2005.12.01 @ 00:40:00


End Date: 2005.12.01 @ 08:53:00

Job Ticket #: 23861 DST #: 1

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MAR 23 2006
KCC WICHITA

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

11062



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co. **Stalnaker-Dinkel # 1-14**

P O Box 372 **14-14-21-Trego-Ks**
 Hays Ks 67601 Job Ticket: 23861 **DST#: 1**

ATTN: Ron Nelson Test Start: 2005.12.01 @ 00:40:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:18:00
 Time Test Ended: 08:53:00

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21

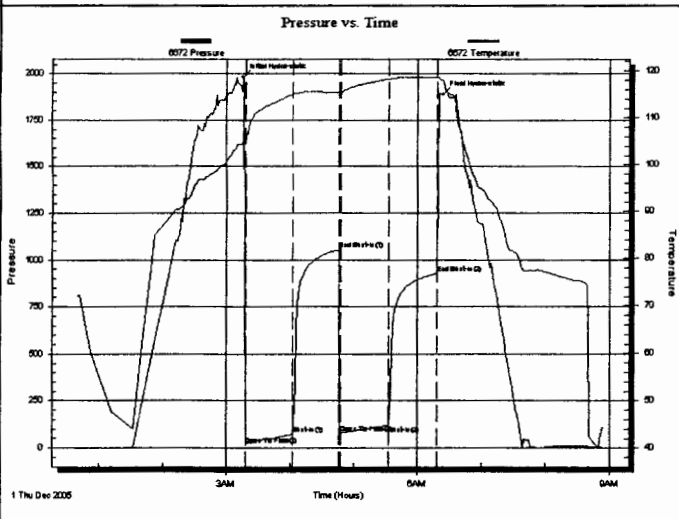
Interval: **3912.00 ft (KB) To 3935.00 ft (KB) (TVD)**
 Total Depth: 3935.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2234.00 ft (KB)
 2227.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6672 Inside

Press@RunDepth: 119.91 psig @ 3913.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2005.12.01 End Date: 2005.12.01 Last Calib.: 2005.12.01
 Start Time: 00:40:01 End Time: 08:53:00 Time On Btrr: 2005.12.01 @ 03:15:30
 Time Off Btrr: 2005.12.01 @ 06:24:00

TEST COMMENT: F-Weak building to 10 fair blow
 FF-Weak building to 4" fair blow
 Times-45-45-45-45



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.27	104.63	Initial Hydro-static
3	17.76	104.56	Open To Flow (1)
48	71.42	115.01	Shut-In(1)
91	1054.01	115.36	End Shut-In(1)
93	78.66	115.38	Open To Flow (2)
138	119.91	118.29	Shut-In(2)
184	928.10	118.64	End Shut-In(2)
189	1888.66	117.93	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	O&MCWtr 10%o 80%w 10%m	0.60
62.00	HMCO 70%o 30%m	0.87
146.00	CO	2.05
0.00	Rw .24 @ .77 = 60000ppm	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co.

Stalnaker-Dinkel # 1-14

P O Box 372
Hays Ks 67601

14-14-21-Trego-Ks

Job Ticket: 23861

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.12.01 @ 00:40:00

Tool Information

Drill Pipe:	Length: 3891.00 ft	Diameter: 3.80 inches	Volume: 54.58 bbl	Tool Weight: 1800.00 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: 60000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3912.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3892.00	
Shut In Tool	5.00			3897.00	
Hydraulic tool	5.00			3902.00	
Packer	5.00			3907.00	21.00 Bottom Of Top Packer
Packer	5.00			3912.00	
Stubb	1.00			3913.00	
Recorder	0.00	6672	Inside	3913.00	
Perforations	19.00			3932.00	
Recorder	0.00	13254	Outside	3932.00	
Bullnose	3.00			3935.00	23.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.

Stalnaker-Dinkel # 1-14

P O Box 372
Hays Ks 67601

14-14-21-Trego-Ks

Job Ticket: 23861

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.12.01 @ 00:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	O&MCWtr 10%o 80%w 10%m	0.596
62.00	HMCO 70%o 30%m	0.870
146.00	CO	2.048
0.00	Rw .24 @ 77 = 60000ppm	0.000

Total Length: 270.00 ft

Total Volume: 3.514 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

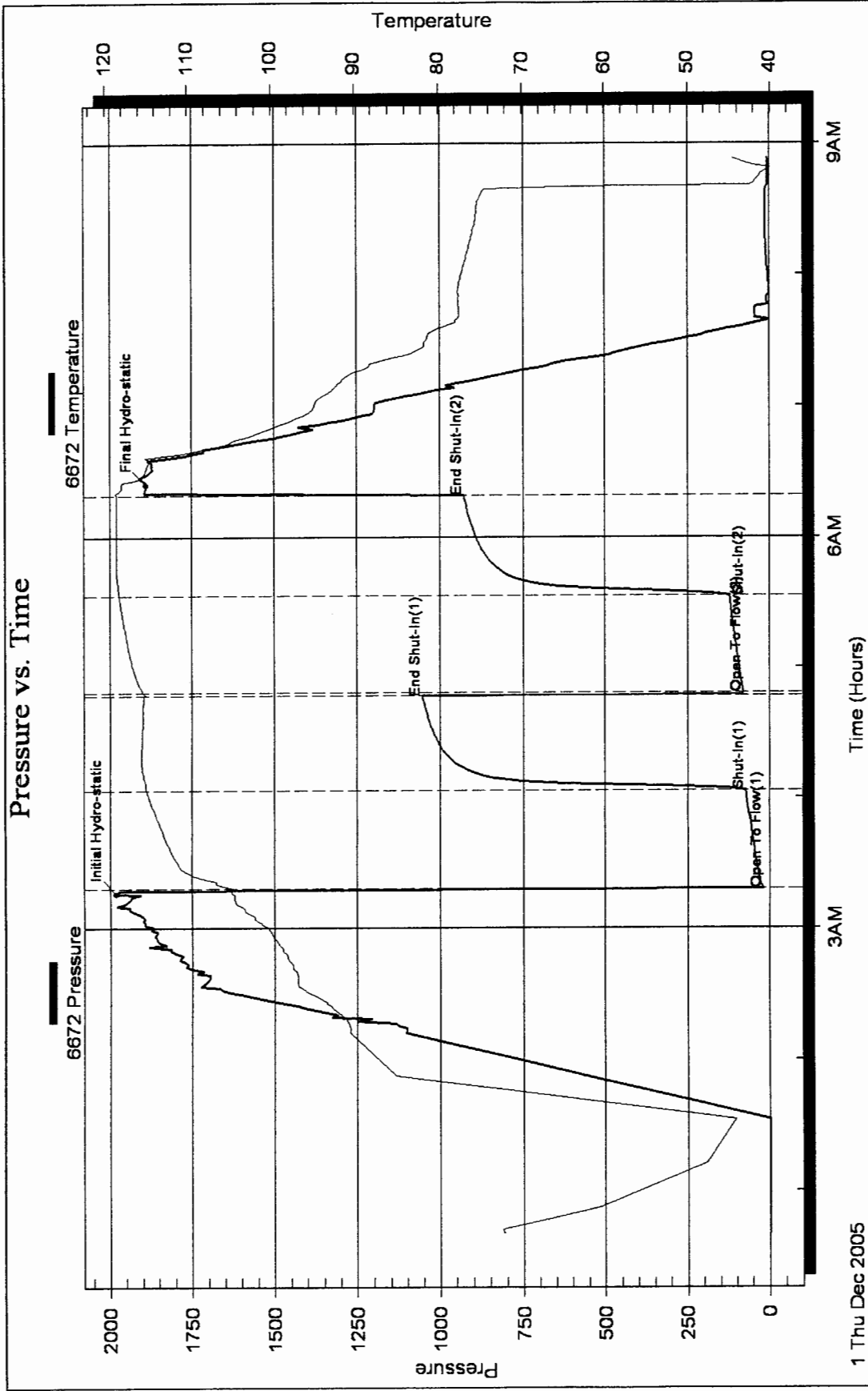
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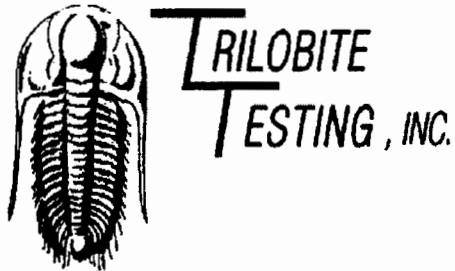
Dowling Nelson Oil Co.

14-14-21-Trego-Ks

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

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

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

14-14-21-Trego-Ks


Stalnaker-Dinkel # 1-14

Start Date: 2005.12.01 @ 17:55:22

End Date: 2005.12.01 @ 23:45:52

Job Ticket #: 23862 DST #. 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.
P O Box 372
Hays Ks 67601
ATTN: Ron Nelson

Stalnaker-Dinkel # 1-14
14-14-21-Trego-Ks
Job Ticket: 23862 **DST#: 2**
Test Start: 2005.12.01 @ 17:55:22

GENERAL INFORMATION:

Formation: **Cherokee Sd**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 19:49:22
 Time Test Ended: 23:45:52

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21

Interval: **3934.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: **3990.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

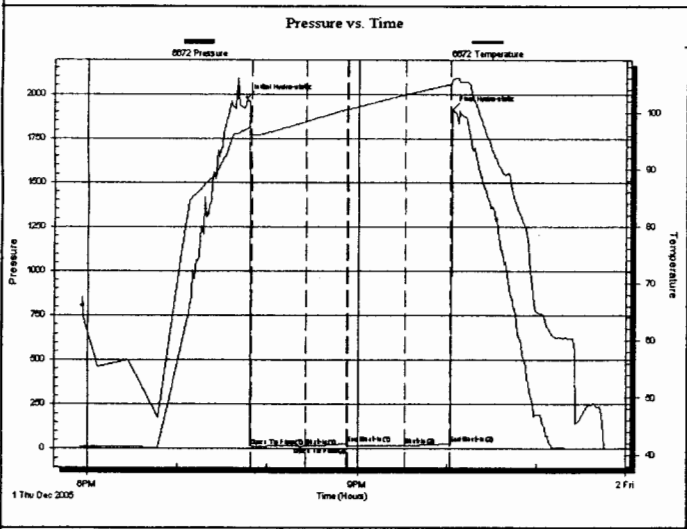
Reference Elevations: **2234.00 ft (KB)**
2227.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 6672 **Inside**

Press@RunDepth: **17.95 psig @ 3940.00 ft (KB)**
 Start Date: **2005.12.01** End Date: **2005.12.01**
 Start Time: **17:55:23** End Time: **23:45:52**

Capacity: **7000.00 psig**
 Last Calib.: **2005.12.01**
 Time On Btm: **2005.12.01 @ 19:46:22**
 Time Off Btm: **2005.12.01 @ 22:03:22**

TEST COMMENT: IF-Weak steady surface blow
 FF-Weak steady surface blow
 Times-30-30-30-30



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.64	97.06	Initial Hydro-static
3	15.73	96.33	Open To Flow (1)
39	15.95	98.43	Shut-In(1)
67	29.94	100.58	End Shut-In(1)
67	15.39	100.60	Open To Flow (2)
106	17.95	103.18	Shut-In(2)
136	30.52	104.96	End Shut-In(2)
137	1909.14	105.68	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	DM	0.05

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.

Stalnaker-Dinkel # 1-14

P O Box 372
Hays Ks 67601

14-14-21-Trego-Ks

Job Ticket: 23862

DST#: 2

ATTN: Ron Nelson

Test Start: 2005.12.01 @ 17:55:22

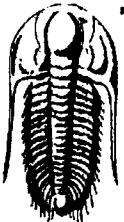
Tool Information

Drill Pipe:	Length: 3891.00 ft	Diameter: 3.80 inches	Volume: 54.58 bbl	Tool Weight: 2100.00 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: 60000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3934.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3914.00	
Shut In Tool	5.00			3919.00	
Hydraulic tool	5.00			3924.00	
Packer	5.00			3929.00	21.00 Bottom Of Top Packer
Packer	5.00			3934.00	
Stubb	1.00			3935.00	
Perforations	4.00			3939.00	
Change Over Sub	1.00			3940.00	
Recorder	0.00	6672	Inside	3940.00	
Drill Pipe	31.00			3971.00	
Change Over Sub	1.00			3972.00	
Recorder	0.00	13254	Outside	3972.00	
Perforations	15.00			3987.00	
Bullnose	3.00			3990.00	56.00 Bottom Packers & Anchor

Total Tool Length: 77.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	FLUID SUMMARY
	Downing Nelson Oil Co.	Stalnaker-Dinkel # 1-14
	P O Box 372 Hays Ks 67601	14-14-21-Trego-Ks
ATTN: Ron Nelson	Job Ticket: 23862	DST#: 2
	Test Start: 2005.12.01 @ 17:55:22	

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	DM	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6672

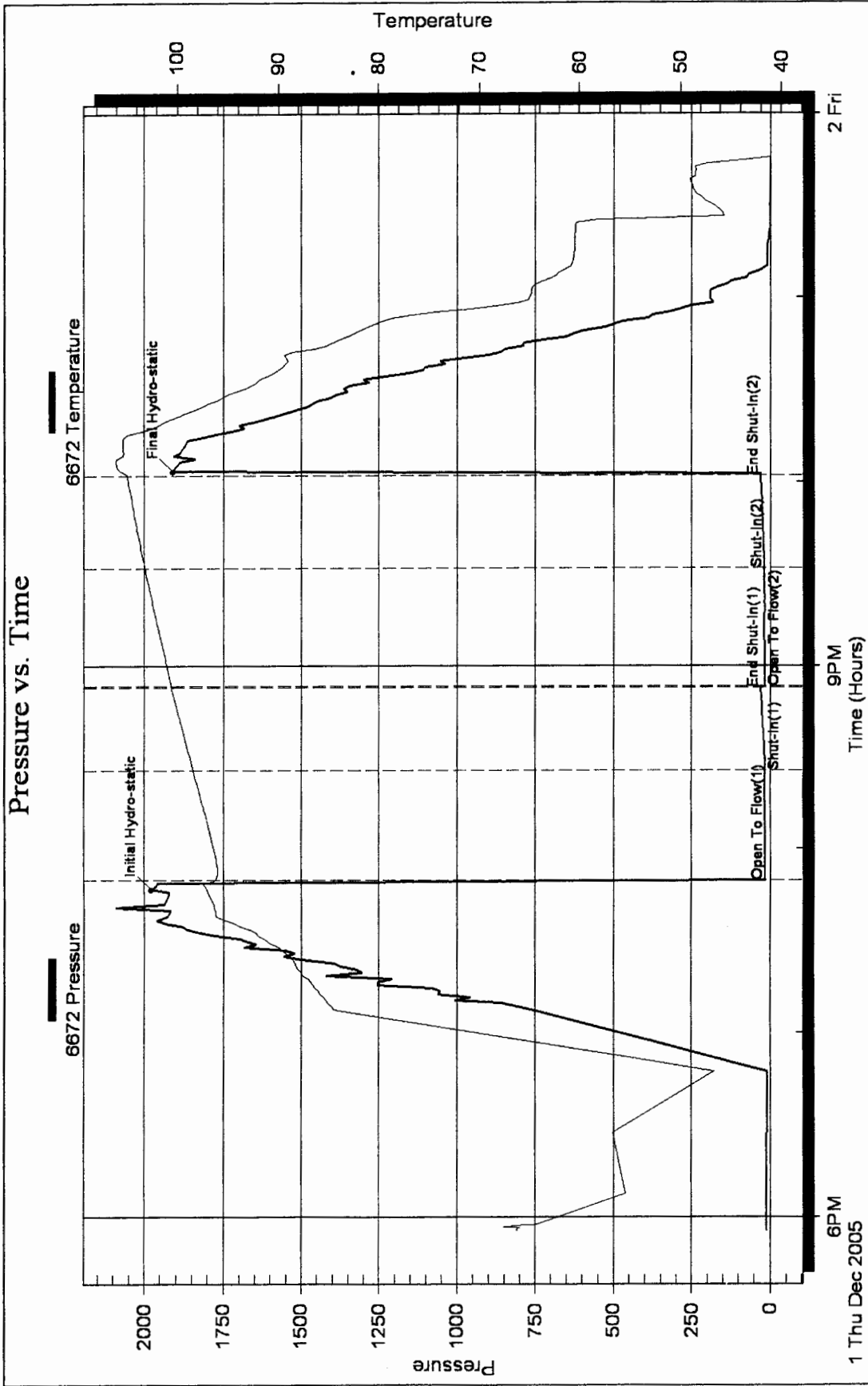
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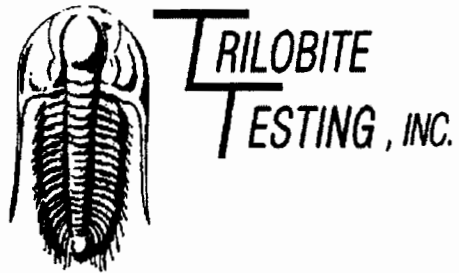
Downing Nelson Oil Co.

14-14-21-Trego-Ks

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

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

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

14-14-21-Trego-Ks

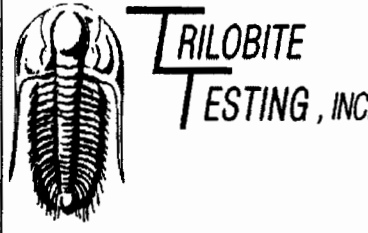
Stalnaker-Dinkel # 1-14

Start Date: 2005.12.02 @ 13:10:59

End Date: 2005.12.02 @ 21:06:59

Job Ticket #: 23863 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



DRILL STEM TEST REPORT

Downing Nelson Oil Co. **Stalnaker-Dinkel # 1-14**

P O Box 372 **14-14-21-Trego-Ks**
Hays Ks 67601 Job Ticket: 23863 **DST#: 3**

ATTN: Ron Nelson Test Start: 2005.12.02 @ 13:10:59

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 14:40:29
 Time Test Ended: 21:06:59

Test Type: Conventional Straddle
 Tester: Dan Bangle
 Unit No: 21

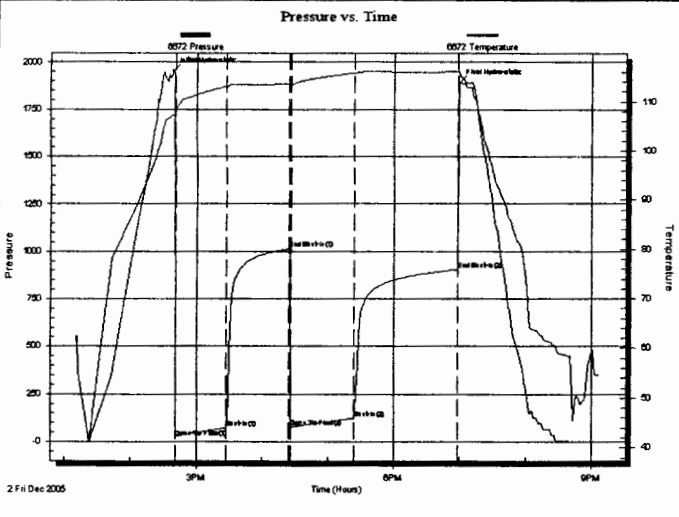
Interval: **3913.00 ft (KB) To 3930.00 ft (KB) (TVD)**
 Total Depth: **4090.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2234.00 ft (KB)**
2227.00 ft (CF)
 KB to GRVCF: **7.00 ft**

Serial #: 6672 Inside

Press@RunDepth: **123.33 psig @ 3914.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2005.12.02** End Date: **2005.12.02** Last Calib.: **2005.12.02**
 Start Time: **13:11:00** End Time: **21:06:59** Time On Btm: **2005.12.02 @ 14:38:29**
 Time Off Btm: **2005.12.02 @ 18:58:59**

TEST COMMENT: FF-Weak building to 8" fair blow
 FF-Weak building to 7" fair blow
 Times-45-60-60-90



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.90	107.24	Initial Hydro-static
2	21.40	107.04	Open To Flow (1)
49	71.81	113.03	Shut-In(1)
106	1013.47	113.54	End Shut-In(1)
108	75.64	113.35	Open To Flow (2)
166	123.33	115.82	Shut-In(2)
260	904.45	116.08	End Shut-In(2)
261	1889.63	116.17	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	Mtly Wtr Rw .24 @ 78 = 60000ppm	0.99
30.00	OCM20%o 80%m	0.42
154.00	CO	2.16

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co.

Stalnaker-Dinkel # 1-14

P O Box 372
Hays Ks 67601

14-14-21-Trego-Ks

Job Ticket: 23863

DST#: 3

ATTN: Ron Nelson

Test Start: 2005.12.02 @ 13:10:59

Tool Information

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3913.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3930.00 ft			
Interval between Packers:	17.00 ft			
Tool Length:	198.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3893.00	
Shut In Tool	5.00			3898.00	
Hydraulic tool	5.00			3903.00	
Packer	5.00			3908.00	21.00 Bottom Of Top Packer
Packer	5.00			3913.00	
Stubb	1.00			3914.00	
Recorder	0.00	6672	Inside	3914.00	
Perforations	12.00			3926.00	
Recorder	0.00	13248	Outside	3926.00	
Blank Off Sub	1.00			3927.00	
Blank Spacing	3.00			3930.00	17.00 Tool Interval
Packer	5.00			3935.00	
Stubb	1.00			3936.00	
Perforations	1.00			3937.00	
Recorder	0.00	13254	Outside	3937.00	
Change Over Sub	1.00			3938.00	
Drill Pipe	152.00			4090.00	160.00 Bottom Packers & Anchor
Total Tool Length:	198.00				



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.
P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Stalnaker-Dinkel # 1-14
14-14-21-Trego-Ks
Job Ticket: 23863 **DST#: 3**

Test Start: 2005.12.02 @ 13:10:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mdy Wtr Rw .24 @ 78 = 60000ppm	0.989
30.00	OCM 20%o 80%m	0.421
154.00	CO	2.160

Total Length: 274.00 ft Total Volume: 3.570 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6672

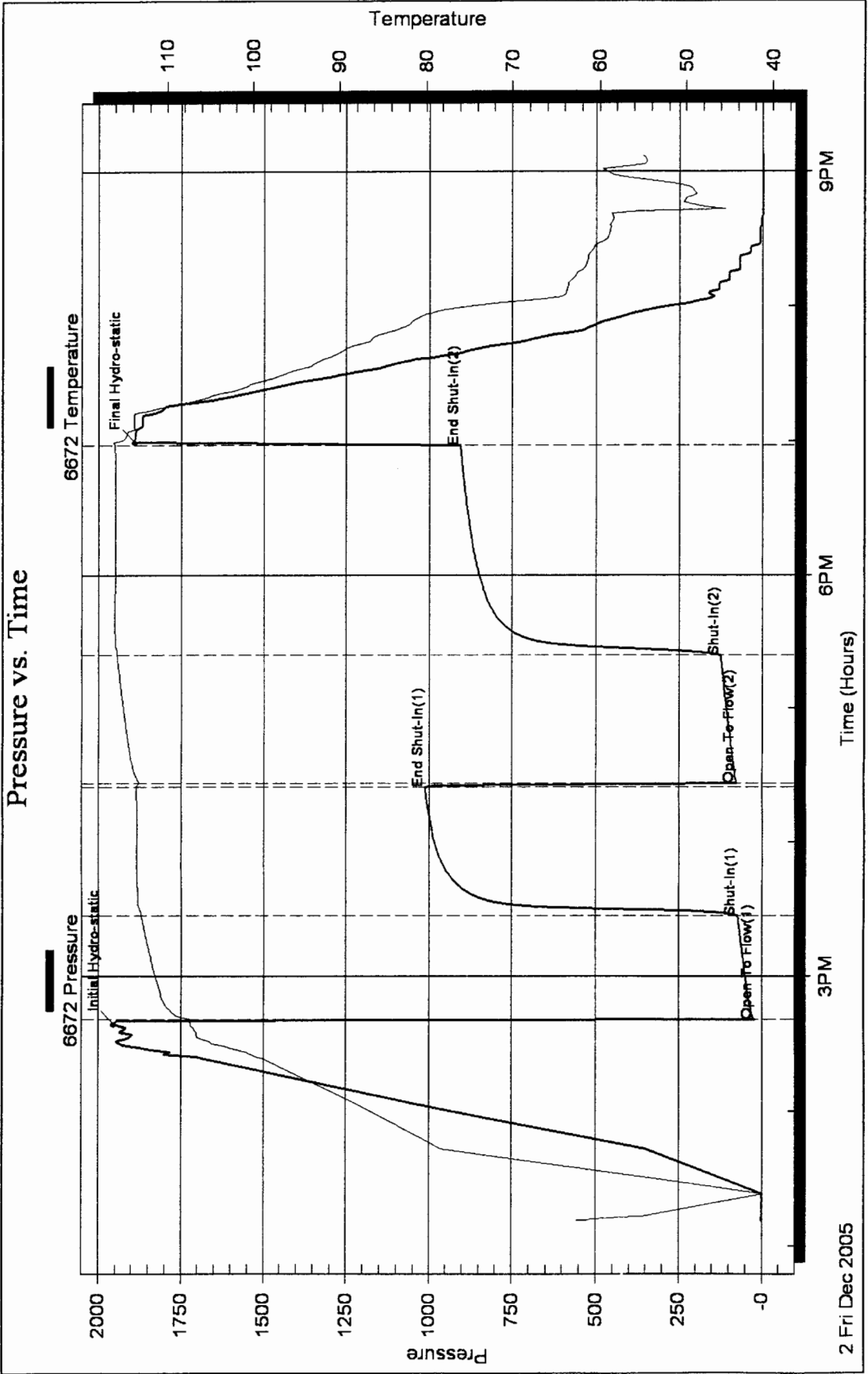
Inside

Downing Nelson Oil Co.

14-14-21-Trego-Ks

DST Test Number: 3

Pressure vs. Time



2 Fri Dec 2005

Trilobite Testing, Inc

Ref. No: 23863

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