

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson**

P.O. Box 372
Hays, Ks 67601

ATTN: Ron Nelson

11-14s-21w-Trego

Erleka Unit 1-11

Start Date: 2005.12.10 @ 22:00:35

End Date: 2005.12.11 @ 05:19:04

Job Ticket #: 23380 DST #: 1

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KCC WICHITA

Trilobite Testing, Inc
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson **Erleka Unit 1-11**

P.O. Box 372 **11-14s-21w-Trego**
Hays, Ks 67601

Job Ticket: 23380 **DST#: 1**

ATTN: Ron Nelson Test Start: 2005.12.10 @ 22:00:35

GENERAL INFORMATION:

Formation: **LKC "C, D, E"**

Deviated: **No Whipstock** ft (KB) Test Type: **Conventional Bottom Hole**

Time Tool Opened: **00:11:04** Tester: **Brian Fairbank**

Time Test Ended: **05:19:04** Unit No: **15**

Interval: **3590.00 ft (KB) To 3660.00 ft (KB) (TVD)** Reference Elevations: **2239.00 ft (KB)**

Total Depth: **3660.00 ft (KB) (TVD)** **2231.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **8.00 ft**

Serial #: 6799 **Inside**

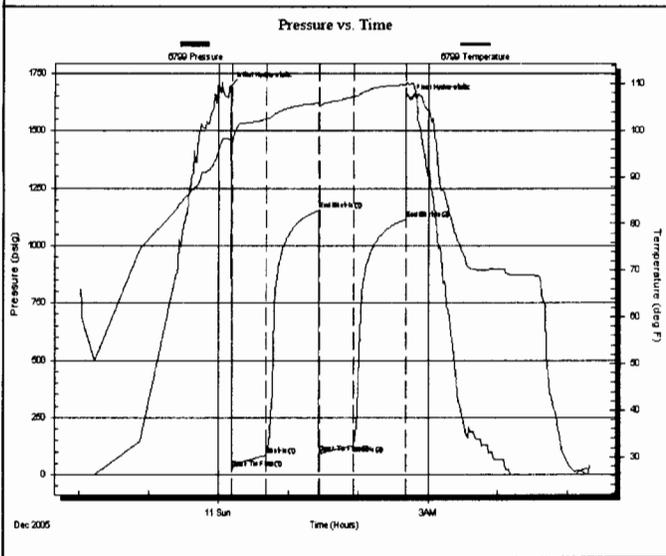
Press@RunDepth: **127.73 psig @ 3600.01 ft (KB)** Capacity: **7000.00 psig**

Start Date: **2005.12.10** **End Date: 2005.12.11** Last Calib.: **2005.12.11**

Start Time: **22:00:35** **End Time: 05:19:04** Time On Btm: **2005.12.11 @ 00:09:49**

Time Off Btm: **2005.12.11 @ 02:43:49**

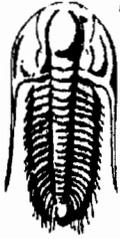
TEST COMMENT: FFP - bottom bucket in 6 min.
SI - 1/4" blow built to 1" dropped to 1/2"
FFP - bottom bucket in 7 min.
FSI - 1/4" blow built to 4 1/2"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.87	98.08	Initial Hydro-static
2	26.19	97.56	Open To Flow (1)
31	84.79	102.40	Shut-in(1)
76	1153.08	105.80	End Shut-in(1)
77	95.47	105.38	Open To Flow (2)
106	127.73	107.17	Shut-in(2)
151	1114.66	109.72	End Shut-in(2)
154	1639.55	109.85	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
50.00	MCO 5% G, 65% O, 30% M	0.43
315.00	FREE OIL 20% G, 80% O	4.42

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



**TRILOBITE
TESTING, INC.**

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TOOL DIAGRAM

Downing-Nelson

Erleka Unit 1-11

P.O. Box 372
Hays, Ks 67601

11-14s-21w-Trego

Job Ticket: 23380

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.12.10 @ 22:00:35

Tool Information

Drill Pipe:	Length: 3544.00 ft	Diameter: 3.80 inches	Volume: 49.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 49.86 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial lb
Depth to Top Packer:	3590.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.02 ft			
Tool Length:	90.02 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			3575.00	
Hydraulic tool	5.00			3580.00	
Packer	5.00			3585.00	20.00 Bottom Of Top Packer
Packer	5.00			3590.00	
Stubb	1.00			3591.00	
Perforations	9.00			3600.00	
Recorder	0.01	6799	Inside	3600.01	
Change Over Sub	1.00			3601.01	
Drill Pipe	30.00			3631.01	
Change Over Sub	1.00			3632.01	
Perforations	25.00			3657.01	
Recorder	0.01	13548	Outside	3657.02	
Bullnose	3.00			3660.02	70.02 Bottom Packers & Anchor

Total Tool Length: 90.02



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FLUID SUMMARY

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Erleka Unit 1-11

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Job Ticket: 23380 **DST#: 1**

ATTN: Ron Nelson

Test Start: 2005.12.10 @ 22:00:35

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MCO 5% G, 65% O, 30% M	0.428
315.00	FREE OIL 20% G, 80% O	4.419

Total Length: 365.00 ft Total Volume: 4.847 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 925' GIP

Serial #: 6799

Inside

11-14s-21w-Trego

DST Test Number: 1

