

33-34S-2E
ORIGINAL



DRILL STEM TEST REPORT

Prepared For: **Delta Corporation, Inc**

475 17th st.suite 1400
Denver,CO.80202

ATTN: Karl Osterbuhr

33-34S-2E

Neal #10

Start Date: 2003.09.11 @ 23:45:10

End Date: 2003.09.12 @ 07:41:08

Job Ticket #: 17074

DST #: 1

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Delta Corporation, Inc

Neal #10

33-34S-2E

DST # 1

Kansas City

2003.09.11



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Delta Corporation, Inc

Neal #10

475 17th st.suite 1400
Denver, CO.80202

33-34S-2E

Job Ticket: 17074

DST#: 1

ATTN: Karl Osterbuhr

Test Start: 2003.09.11 @ 23:45:10

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	25	0.25	1.50	25.22
2	35	0.25	1.50	25.22
2	45	0.25	1.50	25.22

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Delta Corporation, Inc

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Denver, CO. 80202

ATTN: Karl Osterbuhr

Neal #10

33-34S-2E

Job Ticket: 17074

DST#: 1

Test Start: 2003.09.11 @ 23:45:10

GENERAL INFORMATION:

Formation: **Kansas City**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 01:48:53

Time Test Ended: 07:41:08

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **3025.00 ft (KB) To 3043.00 ft (KB) (TVD)**

Total Depth: **3043.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1192.00 ft (KB)**

1187.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 2346

Inside

Press@RunDepth: **86.12 psig @ 3027.00 ft (KB)**

Start Date: **2003.09.11**

End Date:

2003.09.12

Start Time: **23:45:10**

End Time:

07:41:08

Capacity: **7000.00 psig**

Last Calib.:

2003.09.12

Time On Btm: **2003.09.12 @ 01:45:53**

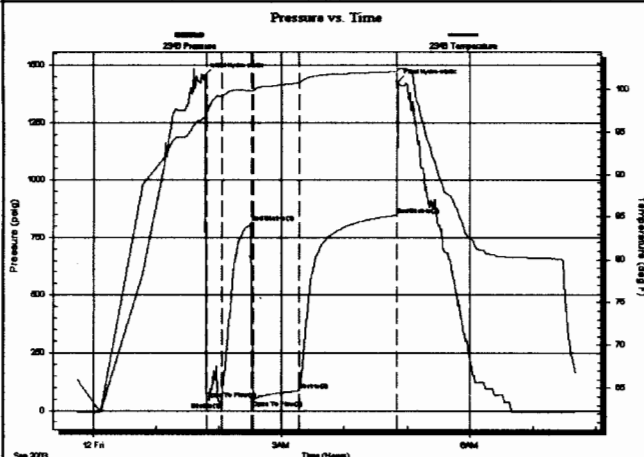
Time Off Btm: **2003.09.12 @ 04:50:38**

TEST COMMENT: IF: Strong blow b.o.b in 60 sec.

ISI: Bled down for 5 mins. Built back to 1/4-1/2" in H2O bucket.

FF: Strong blow b.o.b in 45 sec. GTS in 15 mins. Gauge gas.

FSI: Bled down for 5 mins. built back to 3/4" in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1453.54	96.59	Initial Hydro-static
3	49.87	97.27	Open To Flow(1)
18	38.73	99.11	Shut-In(1)
46	813.35	99.76	End Shut-In(1)
47	46.08	99.82	Open To Flow(2)
92	86.12	100.73	Shut-In(2)
185	846.55	102.02	End Shut-In(2)
185	1426.88	102.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2751' of gip	0.00
250.00	HG&OCWM	1.89

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.50	25.22
Last Gas Rate			
Max. Gas Rate	0.25	1.50	25.22

Trilobite Testing, Inc

Ref. No: 17074

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DRILL STEM TEST REPORT

TOOL DIAGRAM

Delta Corporation, Inc

Neal #10

475 17th st.suite 1400
Denver,CO.80202

33-34S-2E

Job Ticket: 17074

DST#: 1

ATTN: Karl Osterbuhr

Test Start: 2003.09.11 @ 23:45:10

Tool Information

Drill Pipe:	Length: 2824.60 ft	Diameter: 3.80 inches	Volume: 39.62 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: 20000.00 lb
Drill Collar:	Length: 177.40 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 40.49 bbl		Tool Chased 2.50 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3025.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

K_osterby@hotmail.com
Randy@DeltaPetro.com-

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2994.00	
Shut In Tool	5.00			2999.00	
Sampler	3.00			3002.00	
Hydraulic tool	5.00			3007.00	
Jars	5.00			3012.00	
Safety Joint	3.00			3015.00	
Packer	5.00			3020.00	32.00 Bottom Of Top Packer
Packer	5.00			3025.00	
Stubb	2.00			3027.00	
Recorder	0.00	2346	Inside	3027.00	
Anchor	13.00			3040.00	
Recorder	0.00	10991	Outside	3040.00	
Bullnose	3.00			3043.00	18.00 Bottom Packers & Anchor

Total Tool Length: 50.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Delta Corporation, Inc

Neal #10

475 17th st.suite 1400
Denver, CO.80202

33-34S-2E

Job Ticket: 17074

DST#: 1

ATTN: Karl Osterbuhr

Test Start: 2003.09.11 @ 23:45:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.16 in³

Gas Cushion Type:

Resistivity: 3.50 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2751' of gip	0.000
250.00	HG&OCWM	1.891

Total Length: 250.00 ft Total Volume: 1.891 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Sampler recovery

1000 ml.gas 3000ml.oil 700 PSI 4000 Total recovery

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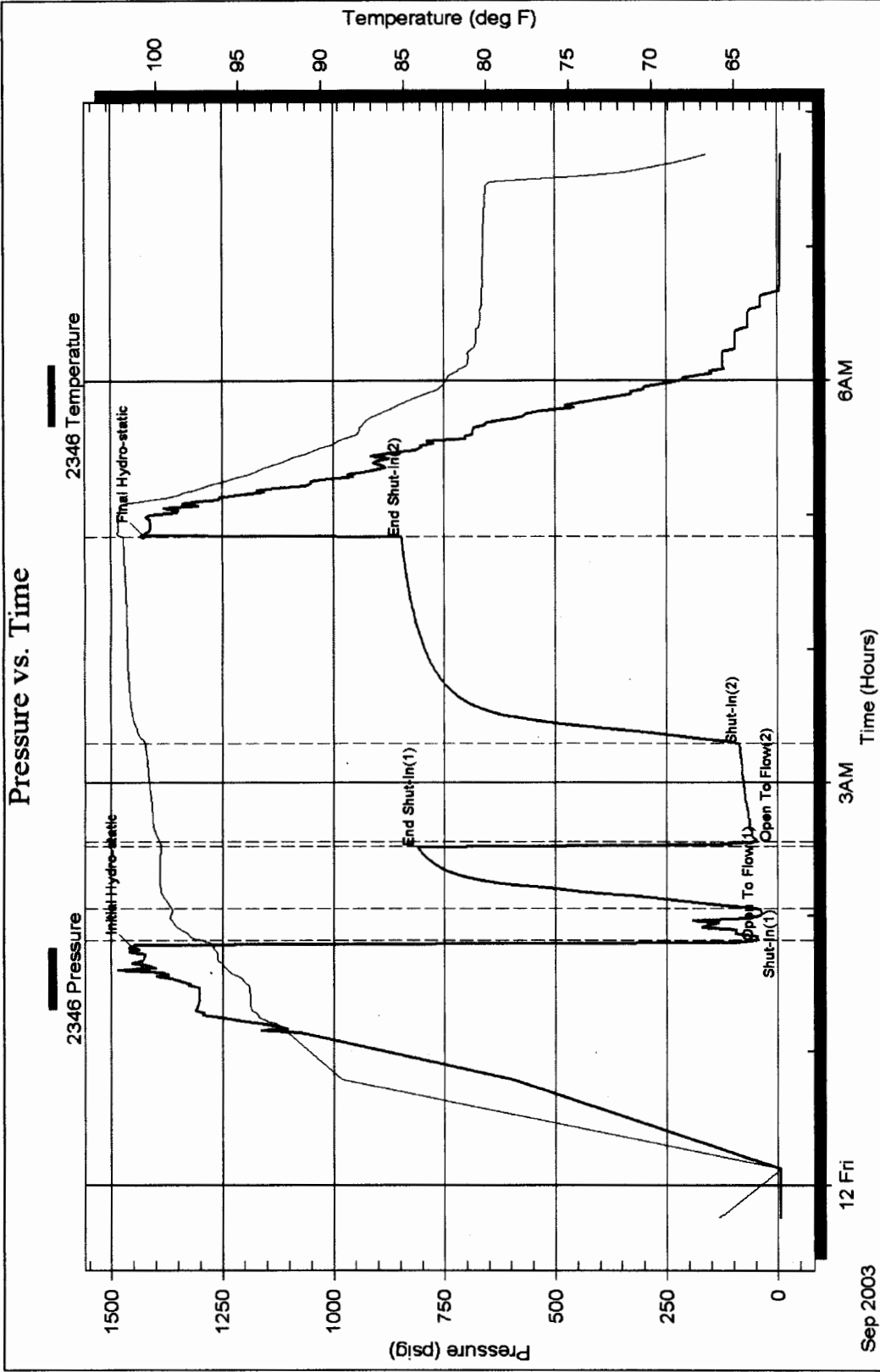
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Delta Corporation, Inc

Inside

Serial #: 2346

Pressure vs. Time



Trilobite Testing, Inc

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