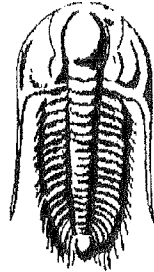


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14-145-10w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Wes Lilly

14 14 10 Russell KS

Ptacek # 1-14

Start Date: 2008.07.13 @ 19:14:11

End Date: 2008.07.14 @ 00:38:56

Job Ticket #: 33156 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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CONSERVATION DIVISION
WICHITA, KS

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SEP 29 2008

KCC

H & C Oil Operating Inc

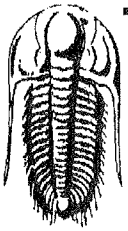
Ptacek # 1-14

14 14 10 Russell KS

DST # 1

Grand Haven

2008.07.16



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Wes Lilly

Ptacek # 1-14
14 14 10 Russell KS
Job Ticket: 33156 **DST#: 1**
Test Start: 2008.07.13 @ 19:14:11

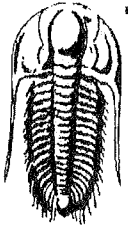
Tool Information

Drill Pipe:	Length: 1966.00 ft	Diameter: 3.80 inches	Volume: 27.58 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: 20000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 28.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2100.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2077.00	
Hydraulic tool	5.00			2082.00	
Jars	5.00			2087.00	
Safety Joint	3.00			2090.00	
Packer	5.00			2095.00	28.00 Bottom Of Top Packer
Packer	5.00			2100.00	
Recorder	0.00	8359	Inside	2100.00	
Recorder	0.00	8354	Inside	2100.00	
Perforations	11.00			2111.00	
Change Over Sub	1.00			2112.00	
Drill Pipe	31.00			2143.00	
Change Over Sub	1.00			2144.00	
Perforations	3.00			2147.00	
Bullnose	3.00			2150.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00

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 WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc

Ptacek # 1-14

PO Box 86
Plainville KS 67663-0086

14 14 10 Russell KS

Job Ticket: 33156

DST#: 1

ATTN: Wes Lilly

Test Start: 2008.07.13 @ 19:14:11

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

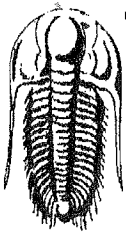
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Handwritten notes:
ATTACHED
30 932
10/2



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

H & C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Wes Lilly

Ptacek # 1-14
14 14 10 Russell KS
Job Ticket: 33156 **DST#: 1**
Test Start: 2008.07.13 @ 19:14:11

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)
1	10	0.13	2.00	6.14
1	10	0.13	2.00	6.14
1	10	0.13	2.00	6.14
1	15	0.13	3.00	6.51
2	10	0.13	11.00	9.51
2	20	0.13	13.00	10.26
2	30	0.13	13.00	10.26
2	40	0.13	14.00	10.63
2	60	0.13	14.00	10.63
0	0	-999999.00	0.00	-999999.00

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WICHITA, KS

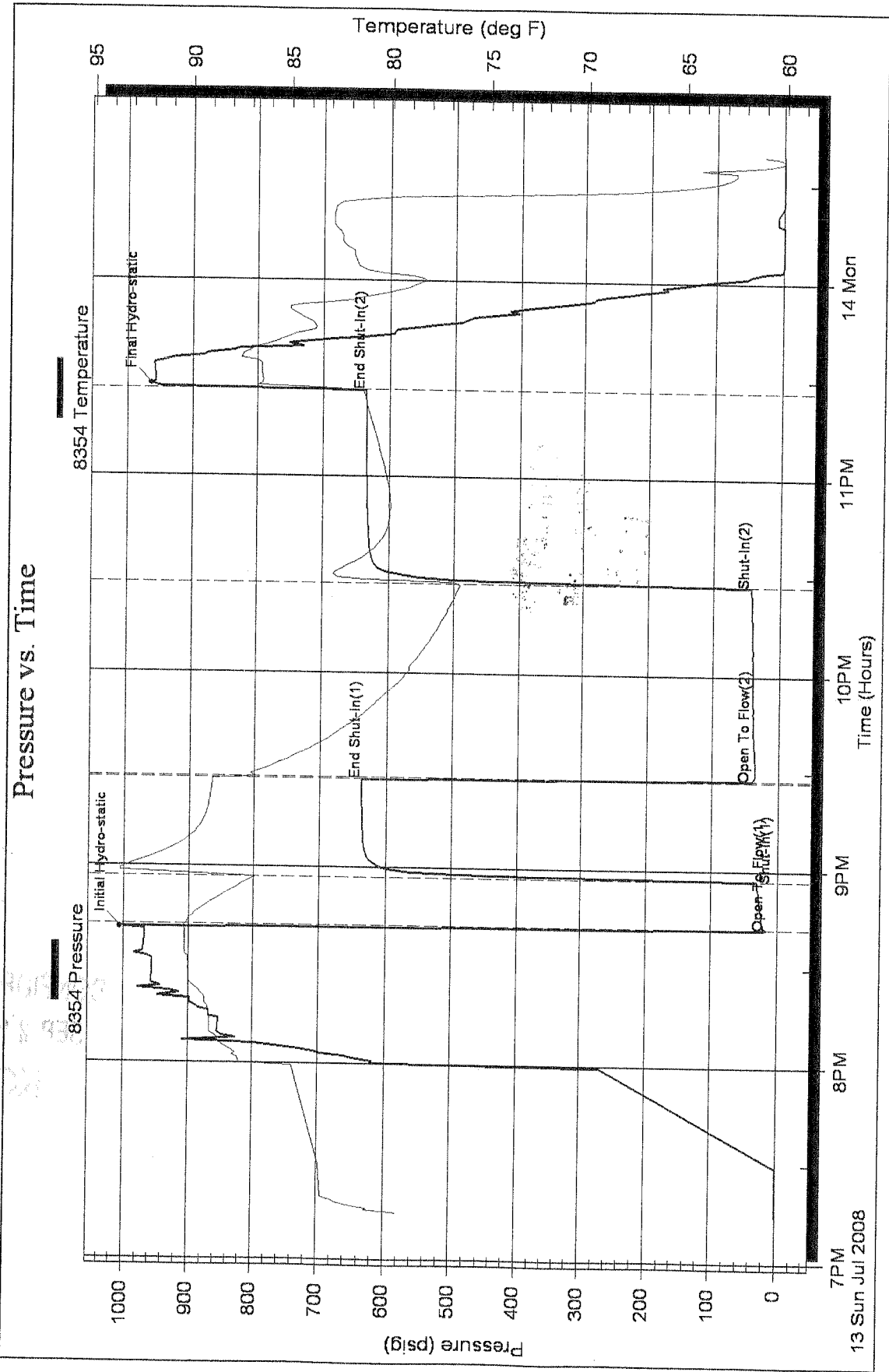
DST Test Number: 1

14 14 10 Russell KS

H & C Oil Operating Inc

Inside

Serial #: 8354



Ref. No: 33156

Trilobite Testing, Inc