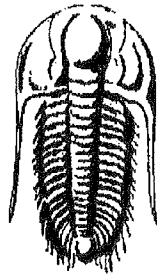


15-051-25647

26-12s-20w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130th Avenue
Ellis KS 67637

ATTN: Sid Deutscher

26 12 20W Ellis KS

Deutscher #1

Start Date: 2007.06.12 @ 18:31:35

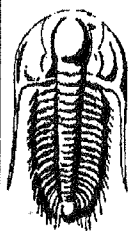
End Date: 2007.06.13 @ 00:39:29

Job Ticket #: 28548 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Deutscher Oil Operations

2334 130th Avenue
Ellis KS 67637

ATTN: Sid Deutscher

Deutscher #1

26 12 20W Ellis KS

Job Ticket: 28548

DST#: 1

Test Start: 2007.06.12 @ 18:31:35

GENERAL INFORMATION:

Formation: LKC I-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:24:00

Time Test Ended: 00:39:29

Interval: 3719.00 ft (KB) To 3750.00 ft (KB) (TVD)

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2235.00 ft (KB)

2230.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 195.27 psig @ 3720.01 ft (KB)

Start Date: 2007.06.12

End Date:

2007.06.13

Start Time: 18:31:35

End Time:

00:39:29

Capacity: 7000.00 psig

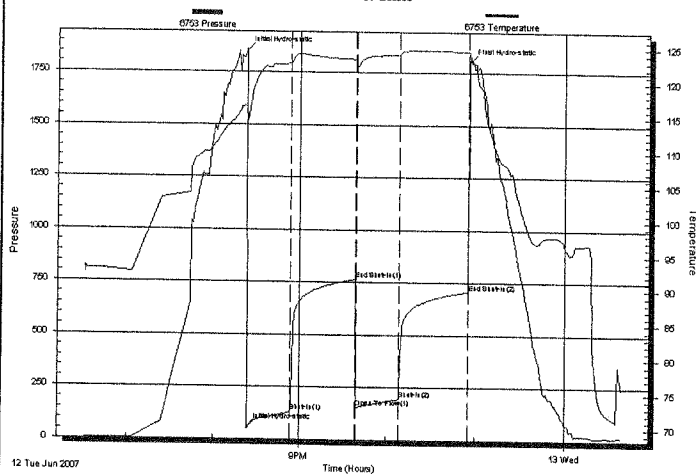
Last Calib.: 2007.06.13

Time On Btm: 2007.06.12 @ 20:23:30

Time Off Btm: 2007.06.12 @ 22:55:59

TEST COMMENT: IFP Wk to strg in 8 min
FFP Wk to strg in 12 min
ISIP 2 " bl bk
FSIP 1 " bl bk Times 30 45 30 45

Pressure vs. Time



PRESSURE SUMMARY

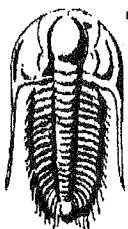
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1853.24	116.60	Initial Hydro-static
1	52.49	114.59	Initial Hydro-static
31	131.92	122.78	Shut-In(1)
75	763.76	123.39	End Shut-In(1)
76	154.05	122.33	Open To Flow (1)
105	195.27	124.03	Shut-In(2)
152	704.30	124.58	End Shut-In(2)
153	1803.00	124.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Water RW .19@ 80F	2.39
72.00	O&GCMW 5%G 10%O10%M 75%W	1.01
80.00	CO	1.12
0.00	450' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

Deutscher #1

2334 130th Avenue
Ellis KS 67637

26 12 20W Ellis KS

Job Ticket: 28548

DST#: 1

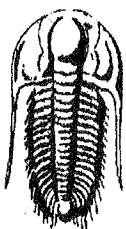
ATTN: Sid Deutscher

Test Start: 2007.06.12 @ 18:31:35

Tool Information

Drill Pipe:	Length: 3606.00 ft	Diameter: 3.80 inches	Volume: 50.58 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 51.17 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3719.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.02 ft				
Tool Length:	52.02 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			3699.00	
Shut In Tool	5.00			3704.00	
Hydraulic tool	5.00			3709.00	
Packer	5.00			3714.00	21.00 Bottom Of Top Packer
Packer	5.00			3719.00	
Stubb	1.00			3720.00	
Recorder	0.01	6753	Inside	3720.01	
Perforations	27.00			3747.01	
Recorder	0.01	13534	Outside	3747.02	
Bullnose	3.00			3750.02	31.02 Bottom Packers & Anchor
Total Tool Length:	52.02				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

Deutscher #1

2334 130th Avenue
Ellis KS 67637

26 12 20W Ellis KS

ATTN: Sid Deutscher

Job Ticket: 28548

DST#: 1

Test Start: 2007.06.12 @ 18:31:35

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.37 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 31 deg API

Water Salinity: 32000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Water RW .19@ 80F	2.386
72.00	O&GCMW 5%G 10%O10%M75%W	1.010
80.00	CO	1.122
0.00	450' GIP	0.000

Total Length: 400.00 ft Total Volume: 4.518 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

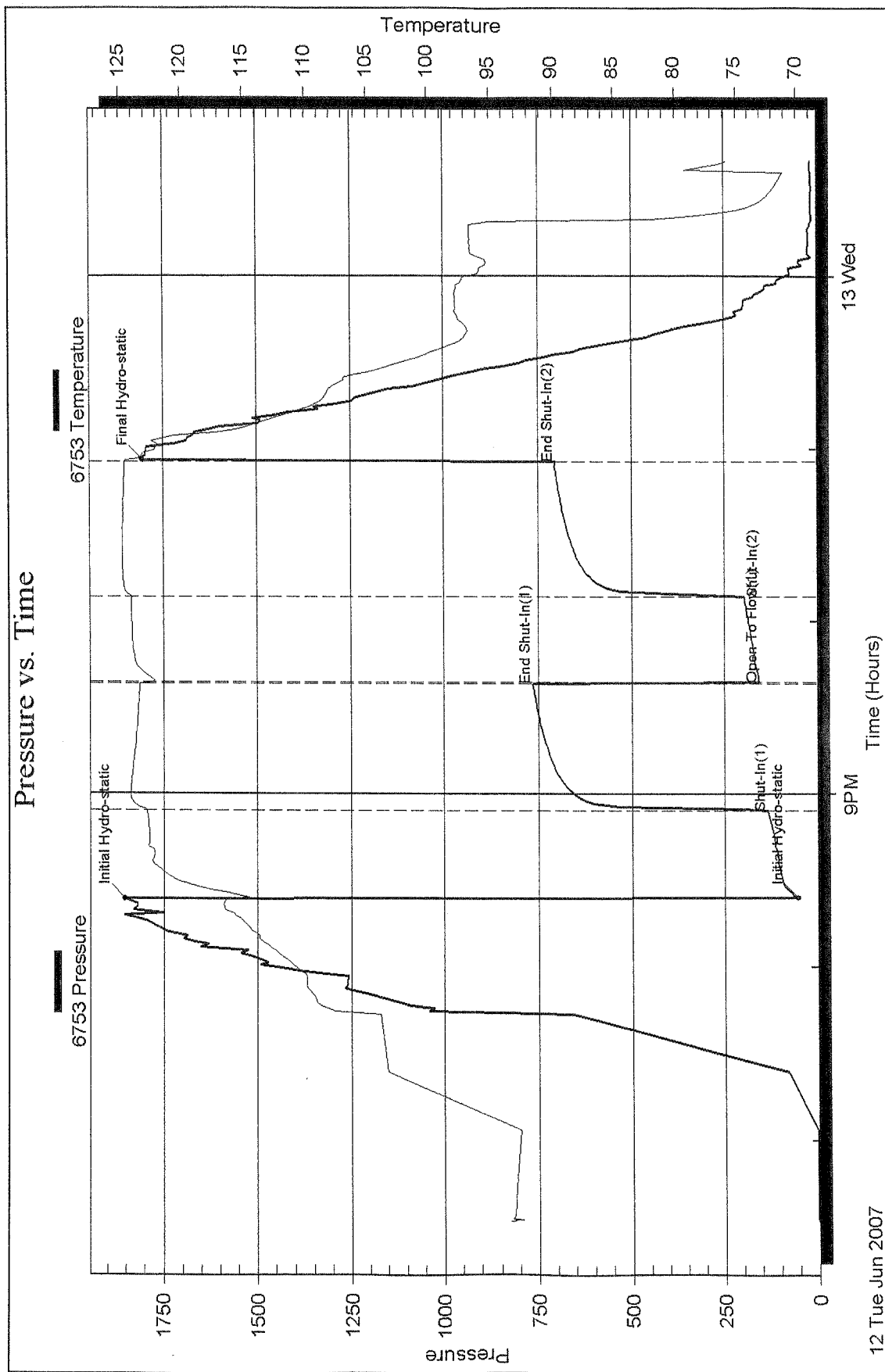
Serial #:

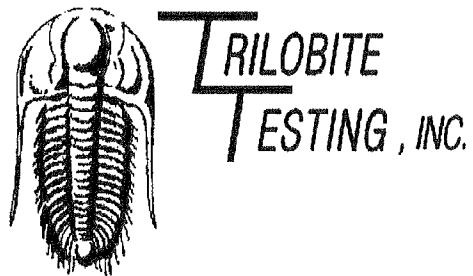
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130th Avenue
Ellis KS 67637

ATTN: Sid Deutscher

26 12 20W Ellis KS

Deutscher #1

Start Date: 2007.06.13 @ 13:20:05

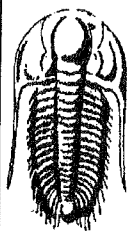
End Date: 2007.06.13 @ 19:31:29

Job Ticket #: 28549 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Deutscher Oil Operations

2334 130th Avenue
Ellis KS 67637

ATTN: Sid Deutscher

Deutscher #1

26 12 20W Ellis KS

Job Ticket: 28549

DST#: 2

Test Start: 2007.06.13 @ 13:20:05

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:59:00

Time Test Ended: 19:31:29

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3857.00 ft (KB) To 3875.00 ft (KB) (TVD)**

Total Depth: 3875.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2235.00 ft (KB)

2230.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 241.57 psig @ 3858.01 ft (KB)

Start Date: 2007.06.13

End Date:

2007.06.13

Start Time: 13:20:05

End Time:

19:31:29

Capacity: 7000.00 psig

Last Calib.: 2007.06.13

Time On Btm: 2007.06.13 @ 14:58:30

Time Off Btm: 2007.06.13 @ 17:28:30

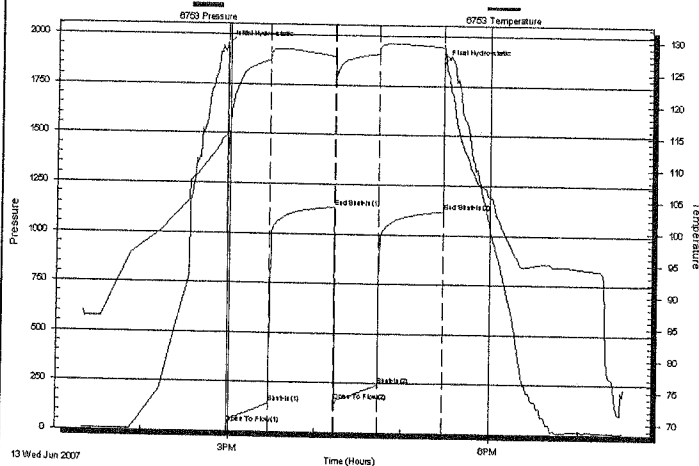
TEST COMMENT: IFF Wk to strg in 6 min

FFP Strg bl in 3 min

ISIP 5 1/4 " bl bk

FSIP 3 " bl bk Times 30 45 30 45

Pressure vs. Time



PRESSURE SUMMARY

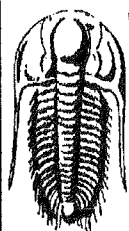
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.43	115.17	Initial Hydro-static
1	39.57	112.29	Open To Flow (1)
29	142.26	126.74	Shut-In (1)
75	1134.42	127.46	End Shut-In (1)
75	157.14	125.91	Open To Flow (2)
105	241.57	127.93	Shut-In (2)
150	1116.80	129.04	End Shut-In (2)
150	1865.36	129.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO 15%G 40%M 45%O	0.30
92.00	GMO 25%G 15%M 60%O	0.76
476.00	CO	6.68
0.00	610' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

2334 130th Avenue
Ellis KS 67637

ATTN: Sid Deutscher

Deutscher #1

26 12 20W Ellis KS

Job Ticket: 28549

DST#: 2

Test Start: 2007.06.13 @ 13:20:05

Tool Information

Drill Pipe:	Length: 3727.00 ft	Diameter: 3.80 inches	Volume: 52.28 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 52.87 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3857.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.02 ft			
Tool Length:	39.02 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			3837.00	
Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
Packer	5.00			3852.00	21.00 Bottom Of Top Packer
Packer	5.00			3857.00	
Stubb	1.00			3858.00	
Recorder	0.01	6753	Inside	3858.01	
Perforations	14.00			3872.01	
Recorder	0.01	13534	Outside	3872.02	
Bullnose	3.00			3875.02	18.02 Bottom Packers & Anchor
Total Tool Length:	39.02				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

Deutscher #1

2334 130th Avenue
Ellis KS 67637

26 12 20W Ellis KS

Job Ticket: 28549

DST#: 2

ATTN: Sid Deutscher

Test Start: 2007.06.13 @ 13:20:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.18 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

39 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMO 15%G 40%M 45%O	0.305
92.00	GMO 25%G 15%M 60%O	0.762
476.00	CO	6.677
0.00	610' GIP	0.000

Total Length: 630.00 ft

Total Volume: 7.744 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

