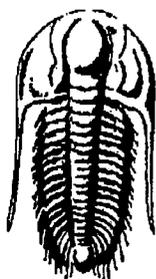


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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Cla-Mar Oil Co.**

PO Box 1197
Hays, KS 67601

ATTN: Roger Fisher

16-13s-20w Ellis KS

Kinderknecht #1

Start Date: 2010.05.28 @ 17:42:45

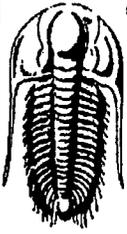
End Date: 2010.05.28 @ 22:06:39

Job Ticket #: 38467 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cla-Mar Oil Co.

Kinderknecht #1

PO Box 1197
Hays, KS 67601

16-13s-20w Ellis KS

Job Ticket: 38467

DST#: 1

ATTN: Roger Fisher

Test Start: 2010.05.28 @ 17:42:45

GENERAL INFORMATION:

Formation: **LKC"C-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:03:10
 Time Test Ended: 22:06:39

Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 41

Interval: **3468.00 ft (KB) To 3510.00 ft (KB) (TVD)**
 Total Depth: 3510.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2171.00 ft (KB)
 2166.00 ft (CF)
 KB to GR/CF: 5.00 ft

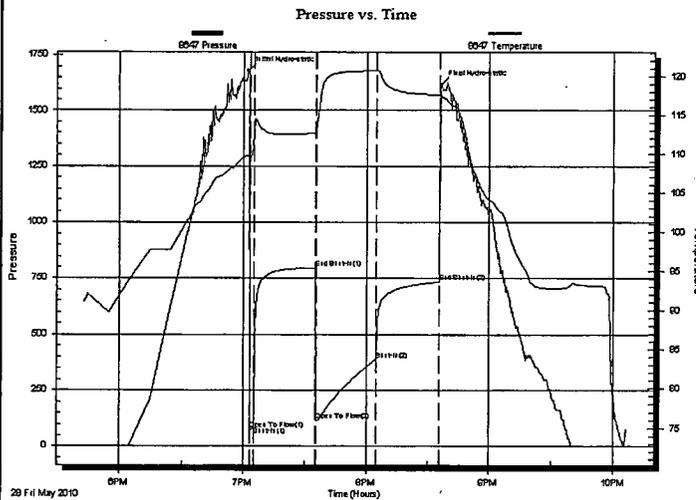
Serial #: 8647

Inside

Press@RunDepth: 387.68 psig @ 3471.00 ft (KB)
 Start Date: 2010.05.28 End Date: 2010.05.28
 Start Time: 17:42:45 End Time: 22:06:39

Capacity: 8000.00 psig
 Last Calib.: 2010.05.28
 Time On Btmr: 2010.05.28 @ 19:02:10
 Time Off Btmr: 2010.05.28 @ 20:36:40

TEST COMMENT: IFP - BOB 2 min.
 ISI - no blow back
 FFP - BOB 2 min.
 FSI - no blow back



PRESSURE SUMMARY

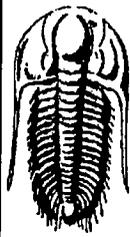
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.05	109.80	Initial Hydro-static
1	74.80	109.40	Open To Flow (1)
3	88.53	112.62	Shut-In(1)
33	797.96	112.62	End Shut-In(1)
34	117.79	112.47	Open To Flow (2)
63	387.68	120.69	Shut-In(2)
94	734.59	117.56	End Shut-In(2)
95	1619.02	117.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.14
795.00	MMV 90%W, 10%M	11.15
35.00	O sptd MUD M 100%	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cla-Mar Oil Co.

Kinderknecht #1

PO Box 1197
Hays, KS 67601

16-13s-20w Ellis KS

Job Ticket: 38467

DST#: 1

ATTN: Roger Fisher

Test Start: 2010.05.28 @ 17:42:45

Tool Information

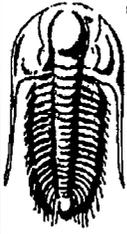
Drill Pipe:	Length: 3467.00 ft	Diameter: 3.80 inches	Volume: 48.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3468.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Packer	5.00			3463.00	20.00 Bottom Of Top Packer
Packer	5.00			3468.00	
Stubb	1.00			3469.00	
Perforations	1.00			3470.00	
Change Over Sub	1.00			3471.00	
Recorder	0.00	8647	Inside	3471.00	
Recorder	0.00	8371	Outside	3471.00	
Blank Spacing	32.00			3503.00	
Change Over Sub	1.00			3504.00	
Perforations	3.00			3507.00	
Bullnose	3.00			3510.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cla-Mar Oil Co.

Kinderknecht #1

PO Box 1197
Hays, KS 67601

16-13s-20w Ellis KS

Job Ticket: 38467

DST#: 1

ATTN: Roger Fisher

Test Start: 2010.05.28 @ 17:42:45

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:

34000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

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 bbbl
10.00	MUD 100%	0.140
795.00	MW 90%W, 10%M	11.152
35.00	O sptd MUD M 100%	0.491

Total Length: 840.00 ft Total Volume: 11.783 bbl

Num Fluid Samples: 0

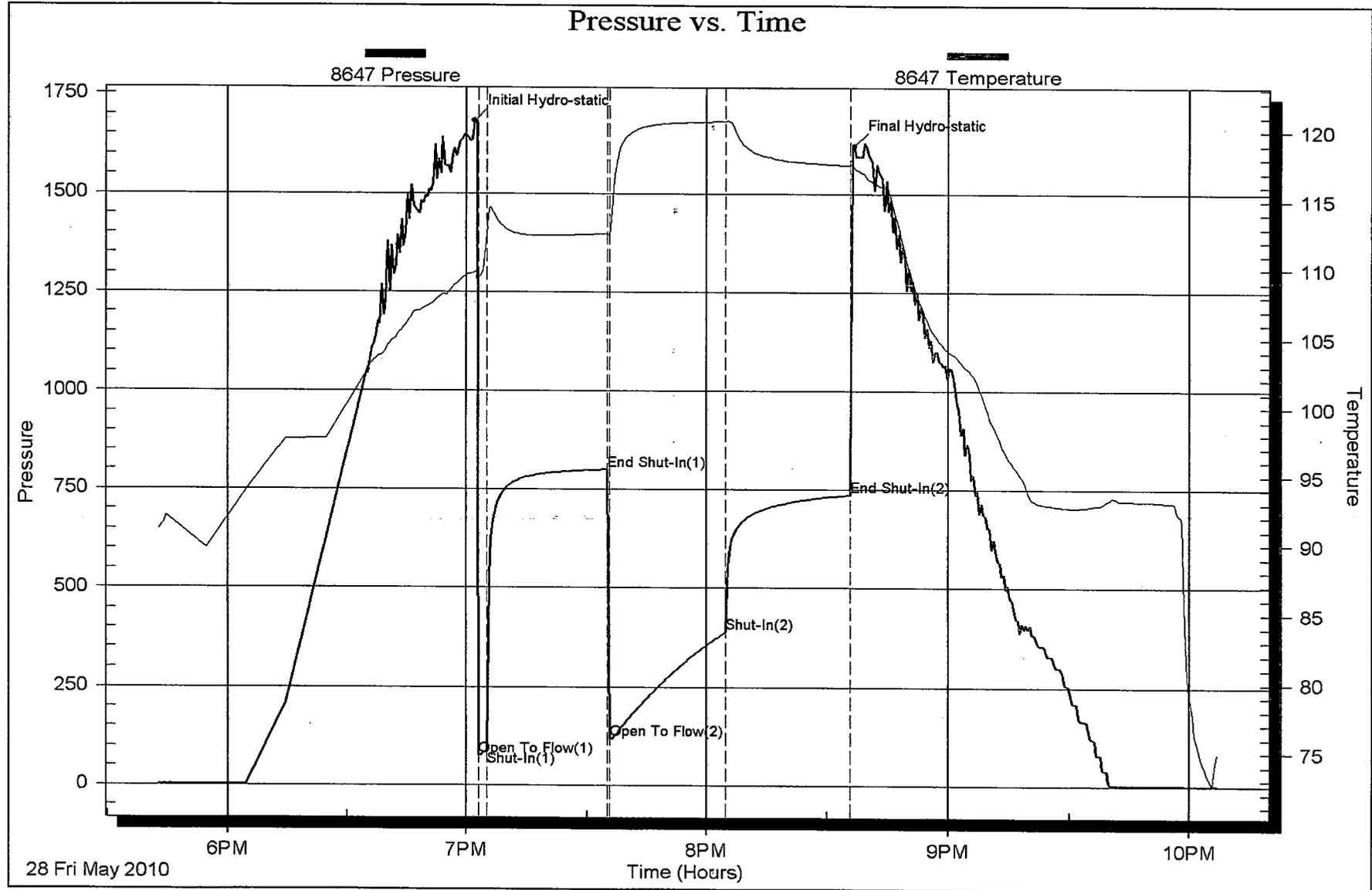
Num Gas Bombs: 0

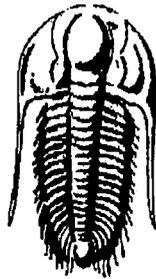
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .206 @ 76F = 34000 chlorides





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Cla-Mar Oil Co.**

PO Box 1197
Hays, KS 67601

ATTN: Roger Fisher

16-13s-20w Ellis KS

Kinderknecht #1

Start Date: 2010.05.29 @ 13:34:05

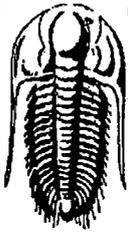
End Date: 2010.05.29 @ 19:08:29

Job Ticket #: 38468 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cla-Mar Oil Co.

Kinderknecht #1

PO Box 1197
Hays, KS 67601

16-13s-20w Ellis KS

Job Ticket: 38468

DST#: 2

ATTN: Roger Fisher

Test Start: 2010.05.29 @ 13:34:05

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:18:00

Time Test Ended: 19:08:29

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3556.00 ft (KB) To 3658.00 ft (KB) (TVD)**

Reference Elevations: 2171.00 ft (KB)

Total Depth: 3658.00 ft (KB) (TVD)

2166.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8371

Outside

Press@RunDepth: 75.75 psig @ 3562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.29

End Date: 2010.05.29

Last Calib.: 2010.05.29

Start Time: 13:34:05

End Time: 19:08:29

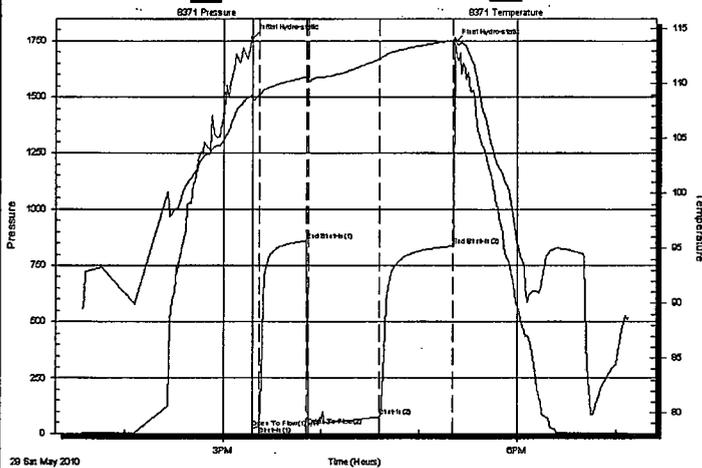
Time On Btm: 2010.05.29 @ 15:17:30

Time Off Btm: 2010.05.29 @ 17:21:30

TEST COMMENT:

IFP: 2" 3 min
ISI: no blow back
FFP: BOB in 32 min
FSI: no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.80	108.98	Initial Hydro-static
1	24.27	108.42	Open To Flow (1)
5	33.88	108.97	Shut-In(1)
34	860.44	110.59	End Shut-In(1)
35	35.54	110.21	Open To Flow (2)
78	75.75	112.21	Shut-In(2)
123	836.90	113.92	End Shut-In(2)
124	1740.31	114.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SO&WCM 10%o 20%w 70% m	0.84
60.00	O&WCM 20%o 30%w 50% m	0.84
0.00	GIP-60ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cl-Mar Oil Co.

Kinderknecht #1

PO Box 1197
Hays, KS 67601

16-13s-20w Ellis KS

Job Ticket: 38468

DST#: 2

ATTN: Roger Fisher

Test Start: 2010.05.29 @ 13:34:05

Tool Information

Drill Pipe:	Length: 3556.00 ft	Diameter: 3.80 inches	Volume: 49.88 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 49.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3556.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3541.00	
Hydraulic tool	5.00			3546.00	
Packer	5.00			3551.00	20.00 Bottom Of Top Packer
Packer	5.00			3556.00	
Stubb	1.00			3557.00	
Perforations	4.00			3561.00	
Change Over Sub	1.00			3562.00	
Recorder	0.00	8647	Inside	3562.00	
Recorder	0.00	8371	Outside	3562.00	
Drill Pipe	92.00			3654.00	
Change Over Sub	1.00			3655.00	
Bullnose	3.00			3658.00	102.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cla-Mar Oil Co.

Kinderknecht #1

PO Box 1197
Hays, KS 67601

16-13s-20w Ellis KS

Job Ticket: 38468

DST#: 2

ATTN: Roger Fisher

Test Start: 2010.05.29 @ 13:34:05

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	SO&WCM 10%o 20%w 70%m	0.842
60.00	O&WCM 20%o 30%w 50%m	0.842
0.00	GIP-60ft	0.000

Total Length: 120.00 ft

Total Volume: 1.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

