

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

PHS #1-27

27-12s-20w Ellis,KS

Start Date: 2012.03.03 @ 10:21:06

End Date: 2012.03.03 @ 15:50:36

Job Ticket #: 44802 DST #: 1

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NOV 05 2012

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL

Printed: 2012.03.08 @ 10:31:33

Deutscher Oil Operations
27-12s-20w Ellis,KS
PHS #1-27
DST # 1
LKC-D-F
2012.03.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Deutscher Oil Operations

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

27-12s-20w Ellis, KS

PHS #1-27

Job Ticket: 44802

DST#: 1

Test Start: 2012.03.03 @ 10:21:06

GENERAL INFORMATION:

Formation: LKC-D-F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:07:06

Time Test Ended: 15:50:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3537.00 ft (KB) To 3590.00 ft (KB) (TVD)

Total Depth: 3590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2179.00 ft (KB)

2174.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 43.51 psig @ 3544.00 ft (KB)

Start Date: 2012.03.03

End Date:

2012.03.03

Start Time: 10:21:07

End Time:

15:49:36

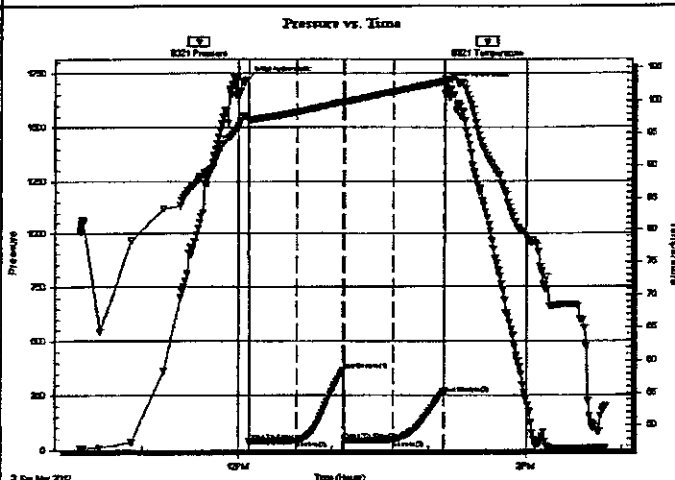
Capacity: 8000.00 psig

Last Calib.: 2012.03.03

Time On Btm: 2012.03.03 @ 12:06:36

Time Off Btm: 2012.03.03 @ 14:10:06

TEST COMMENT: IFP-Weak surface blow built to 1/4 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.39	97.43	Initial Hydro-static
1	37.59	97.10	Open To Flow (1)
31	40.05	98.24	Shut-In(1)
60	366.03	99.82	End Shut-In(1)
61	41.69	99.80	Open To Flow (2)
91	43.51	101.36	Shut-In(2)
123	257.54	102.92	End Shut-In(2)
124	1695.00	103.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a scum of oil	0.02

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

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44802

DST#: 1

ATTN: Sid Deutscher

Test Start: 2012.03.03 @ 10:21:06

Tool Information

Drill Pipe:	Length: 3423.00 ft	Diameter: 3.80 inches	Volume: 48.02 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 54000.00 lb
			Total Volume: 48.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3537.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3518.00	
Shut In Tool	5.00			3523.00	
Hydraulic tool	5.00			3528.00	
Packer	4.00			3532.00	20.00 Bottom Of Top Packer
Packer	5.00			3537.00	
Stubb	1.00			3538.00	
Perforations	5.00			3543.00	
Change Over Sub	1.00			3544.00	
Recorder	0.00	8321	Inside	3544.00	
Recorder	0.00	8737	Outside	3544.00	
Change Over Sub	1.00			3545.00	
Drill Pipe	32.00			3577.00	
Perforations	10.00			3587.00	
Bullnose	3.00			3590.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00

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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44802

DST#: 1

ATTN: Sid Deutscher

Test Start: 2012.03.03 @ 10:21:06

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: 67.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud with a scum of oil	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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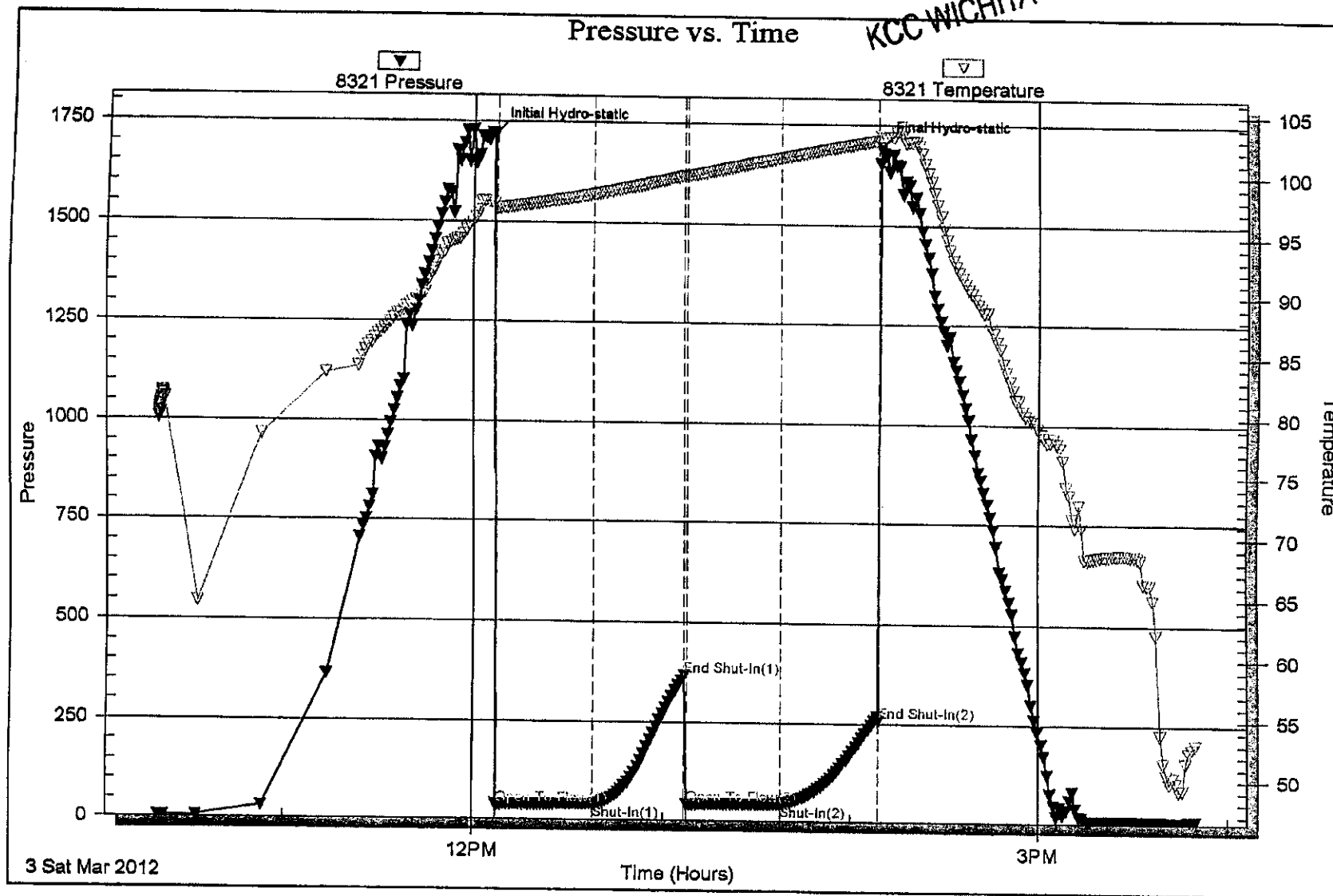
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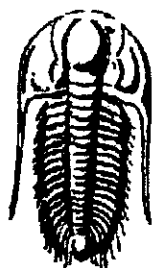
Inside Deutscher Oil Operations

RHS #1-27

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DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

PHS #1-27

27-12s-20w Ellis,KS

Start Date: 2012.03.04 @ 02:32:32

End Date: 2012.03.04 @ 07:48:02

Job Ticket #: 44804 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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Printed: 2012.03.08 @ 10:31:48

Deutscher Oil Operations

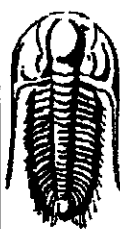
27-12s-20w Ellis,KS

PHS #1-27

DST # 2

LKC-H-J

2012.03.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 2

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 02:32:32

GENERAL INFORMATION:

Formation: LKC-H-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:13:02

Time Test Ended: 07:48:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3614.00 ft (KB) To 3695.00 ft (KB) (TVD)

Total Depth: 3695.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2179.00 ft (KB)

2174.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 73.11 psig @ 3618.00 ft (KB)

Start Date: 2012.03.04

End Date:

2012.03.04

Capacity: 8000.00 psig

Last Calib.: 2012.03.04

Start Time: 02:32:33

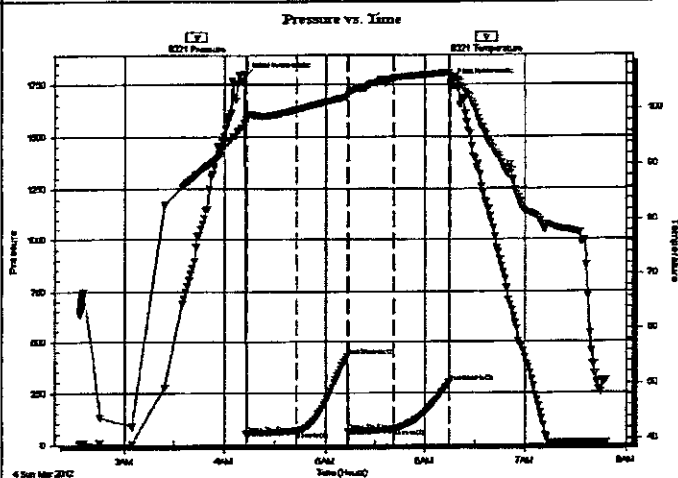
End Time:

07:48:02

Time On Btm: 2012.03.04 @ 04:12:32

Time Off Btm: 2012.03.04 @ 06:15:32

TEST COMMENT: IFP-Weak blow built to 1 1/2 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.51	97.55	Initial Hydro-static
1	53.55	98.22	Open To Flow (1)
31	61.45	99.85	Shut-In(1)
61	426.42	102.13	End Shut-In(1)
61	61.82	102.67	Open To Flow (2)
89	73.11	105.45	Shut-In(2)
122	295.53	106.39	End Shut-In(2)
123	1760.49	105.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud with a scum of oil	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 2

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 02:32:32

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	58000.00 lb
		Total Volume:	49.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3614.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	81.00 ft				
Tool Length:	101.00 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			3595.00	
Shut In Tool	5.00			3600.00	
Hydraulic tool	5.00			3605.00	
Packer	4.00			3609.00	20.00 Bottom Of Top Packer
Packer	5.00			3614.00	
Stubb	1.00			3615.00	
Perforations	2.00			3617.00	
Change Over Sub	1.00			3618.00	
Recorder	0.00	8321	Inside	3618.00	
Recorder	0.00	8737	Outside	3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	63.00			3682.00	
Perforations	10.00			3692.00	
Bullnose	3.00			3695.00	81.00 Bottom Packers & Anchor
Total Tool Length:		101.00			

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DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 2

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 02:32:32

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: 69.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud with a scum of oil	0.098

Total Length:

20.00 ft

Total Volume:

0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Serial #: 8321

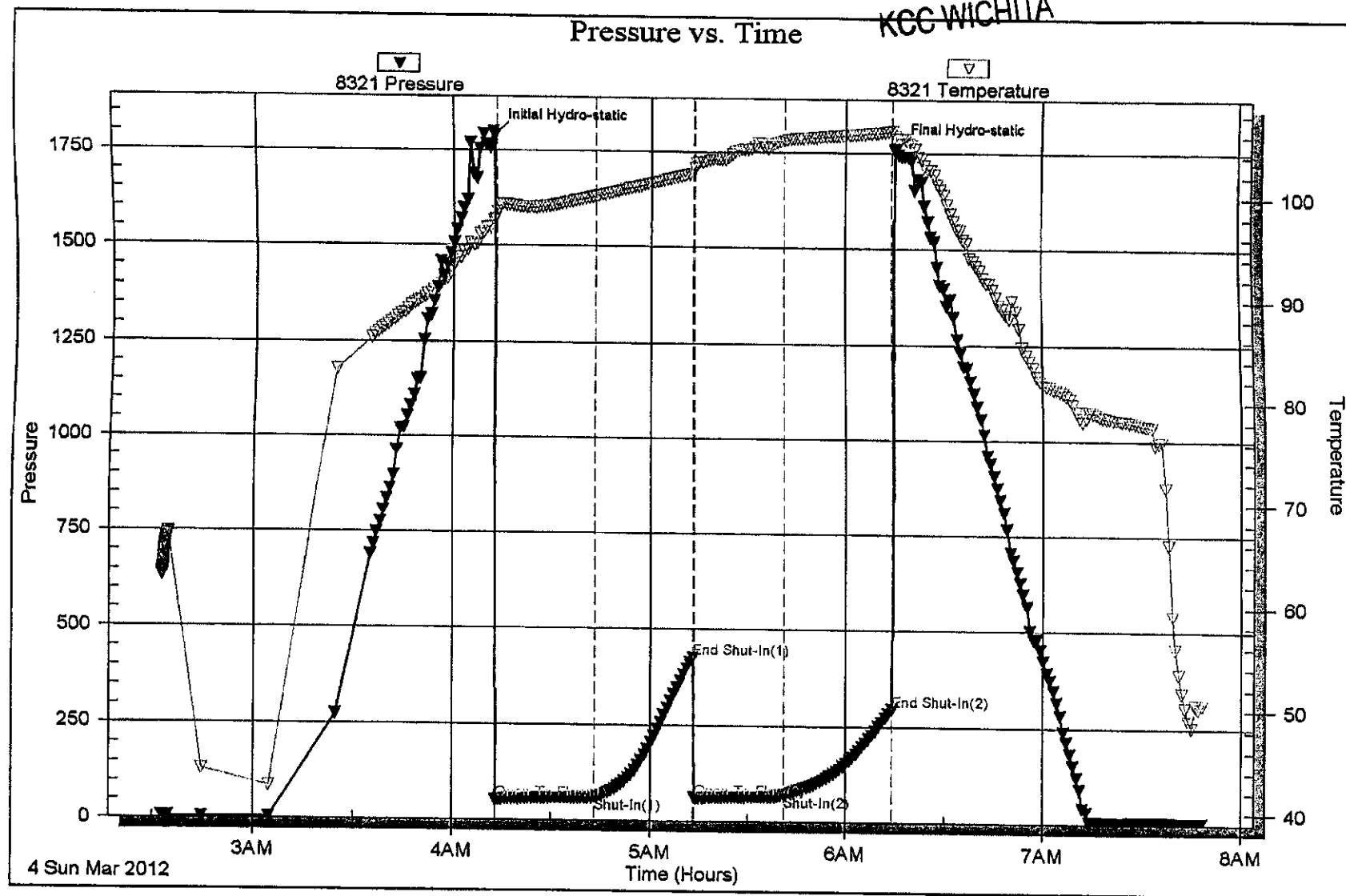
Inside Deutscher Oil Operations

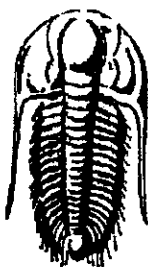
PHS #1-27

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DST Test Number: 2

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

PHS #1-27

27-12s-20w Ellis,KS

Start Date: 2012.03.04 @ 18:27:33

End Date: 2012.03.04 @ 23:36:33

Job Ticket #: 44804

DST #: 3

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 10:32:03

Deutscher Oil Operations

27-12s-20w Ellis,KS

PHS #1-27

DST # 3

Marm

2012.03.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Deutscher Oil Operations

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

27-12s-20w Ellis, KS

PHS #1-27

Job Ticket: 44804

DST#: 3

Test Start: 2012.03.04 @ 18:27:33

GENERAL INFORMATION:

Formation: Marm

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:13:33

Time Test Ended: 23:36:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3704.00 ft (KB) To 3810.00 ft (KB) (TVD)

Total Depth: 3810.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2179.00 ft (KB)

2174.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 22.25 psig @ 3797.00 ft (KB)

Start Date: 2012.03.04

End Date:

2012.03.04

Capacity: 8000.00 psig

Last Calib.: 2012.03.04

Start Time: 18:27:34

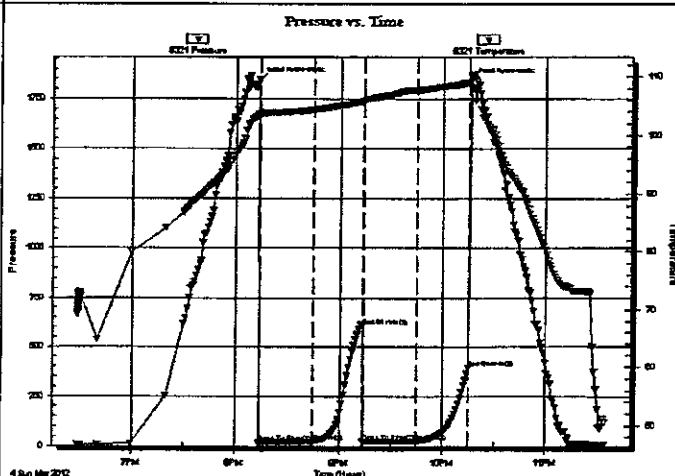
End Time:

23:35:33

Time On Btm: 2012.03.04 @ 20:13:03

Time Off Btm: 2012.03.04 @ 22:16:03

TEST COMMENT: IFP-Weak blow built to 1/4 in died back to 1/8 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.91	103.69	Initial Hydro-static
1	17.15	103.46	Open To Flow (1)
32	20.16	104.38	Shut-In(1)
60	604.40	105.75	End Shut-In(1)
61	21.15	105.79	Open To Flow (2)
92	22.25	107.74	Shut-In(2)
122	390.69	109.00	End Shut-In(2)
123	1837.27	110.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 2 %O98%M	0.02

* Recovery from multiple tests

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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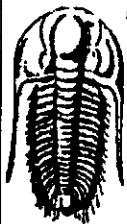
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TriLOBite Testing, Inc

Ref. No: 44804

Printed: 2012.03.08 @ 10:32:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 3

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 18:27:33

Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	58000.00 lb
		Total Volume:	52.20 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3794.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3775.00	
Shut In Tool	5.00			3780.00	
Hydraulic tool	5.00			3785.00	
Packer	4.00			3789.00	20.00 Bottom Of Top Packer
Packer	5.00			3794.00	
Stubb	1.00			3795.00	
Perforations	2.00			3797.00	
Recorder	0.00	8321	Inside	3797.00	
Recorder	0.00	8737	Outside	3797.00	
Perforations	10.00			3807.00	
Bullnose	3.00			3810.00	16.00 Bottom Packers & Anchor

Total Tool Length: 36.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 3

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 18:27:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 42.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 98000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM2 %O98%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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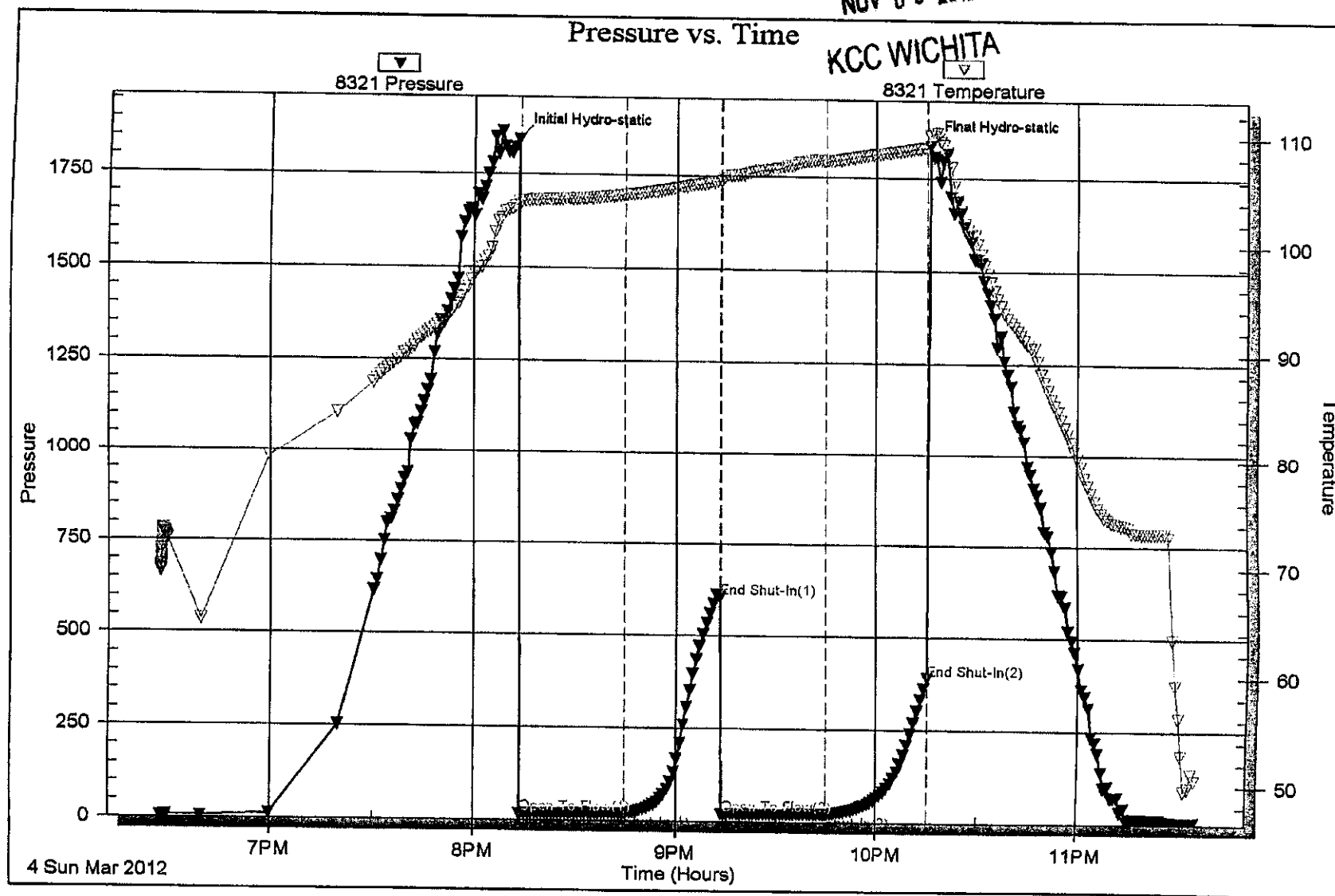
Serial #: 8321

Inside Deutscher Oil Operations

FHS #1-27

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DST Test Number: 3





**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

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MAR 05 2012

Test Ticket

NO. 44802

Well Name & No. PHS #1-27 BY: _____ Test No. 1 Date 3-3-12
Company Deutscher Oil Operations Elevation 2179 KB 2174 GL
Address 2334 130TH AVE. ELLIS KS 67637
Co. Rep / Geo. Richard Bell Rig WW #8
Location: Sec. 27 Twp. 12S Rge. 20W Co. ELLIS State KS

Interval Tested 3537-3590 Zone Tested LKC-D-E+F
Anchor Length 53 Drill Pipe Run 3423 Mud Wt. 8.7
Top Packer Depth 3532 Drill Collars Run 124 Vis 6.7
Bottom Packer Depth 3537 Wt. Pipe Run 0 WL 6.0
Total Depth 3590 Chlorides 4000 ppm System LCM 2

Blow Description SP-Weak Surface Built To 1/4 IN RECEIVED
IS-Dead No Blow Back NOV 05 2012
SP-Dead No Blow
IS-Dead No Blow Back KCC WICHITA

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud with a skin of oil</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 103 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

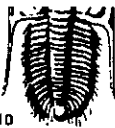
(A) Initial Hydrostatic 1718
(B) First Initial Flow 38
(C) First Final Flow 40
(D) Initial Shut-In 3666
(E) Second Initial Flow 42
(F) Second Final Flow 44
(G) Final Shut-In 258
(H) Final Hydrostatic 11695

☒ Test 1125 T-On Location 9:41
☐ Jars _____ T-Started 10:21
☐ Safety Joint _____ T-Open 12:08
☐ Circ Sub _____ T-Pulled 14:08
☐ Hourly Standby _____ T-Out 15:50
☒ Mileage 42 RT 58.80 Comments _____
☐ Sampler _____
☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
Sub Total 1183.80

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1183.80
MP/DST Disc't _____

Approved By _____ Our Representative Jeff Brown
TriLOBITE TESTING Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

MAR 05 2012

TEST TICKET

NO. 44803

Well Name & No. PHS #1-27 Test No. 2 Date 3-4-12
 Company De Ytcher Oil Operations Elevation 2179 KB 2174 GL
 Address 2334 130TH AVE ELLIS KS 66723
 Co. Rep / Geo. Richard Bell Rig LW #8
 Location: Sec. 27 Twp. 12s Rge. 20w Co. ELLIS State KS

Interval Tested 3614-3695 Zone Tested LKC-H-I-J
 Anchor Length 81 Drill Pipe Run 3483 Mud Wt. 9.0
 Top Packer Depth 3609 Drill Collars Run 124 Vis 69
 Bottom Packer Depth 3614 Wt. Pipe Run 0 WL 6.4
 Total Depth 3695 Chlorides 6000 ppm System LCM 3

Blow Description PP-Weak Blow Built TO 1 1/2 IN
IS-Dead No Blow Back
PP-Dead No Blow
IS-Dead NO BLOW BACK

RECEIVED
 NOV 05 2012
 KCC WICHITA

Rec <u>20</u>	Feet of <u>Mud with A Scum of oil</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 1046 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1790
 (B) First Initial Flow 54
 (C) First Final Flow 61
 (D) Initial Shut-In 426
 (E) Second Initial Flow 62
 (F) Second Final Flow 73
 (G) Final Shut-In 296
 (H) Final Hydrostatic 1760

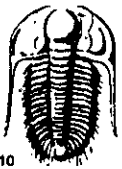
☒ Test 1125
☐ Jars _____
☐ Safety Joint _____
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage 42 RT 58.80
☐ Sampler _____
☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
 Sub Total 1183.80

T-On Location 2:07
 T-Started 2:32
 T-Open 4:14
 T-Pulled 6:14
 T-Out 7:48
 Comments _____
☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
 Sub Total 0
 Total 1183.80
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative Jeff Brown

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 44804

Well Name & No. PHS #1-27 BY: _____ Test No. 3 Date 3-4-12
 Company Deutscher oil operations Elevation 2179 KB 2174 GL _____
 Address 2334 130th Ave ELLIS KS 6674037
 Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 27 Twp. 12S Rge. 20W Co. ELLIS State KS

Interval Tested 3794-3810 Zone Tested Marm
 Core Length 16 Drill Pipe Run 3673 Mud Wt. 9.0
 Packer Depth 3789 Drill Collars Run 124 Vis 42
 From Packer Depth 3794 Wt. Pipe Run 0 WL 7.6
 I Depth 3810 Chlorides 9800 ppm System LCM 2

Description FP-Weak Blow Built To 1/4 IN Died Back To 1/8 IN **RECEIVED**
IS-Dead NO Blow Back **NOV 05 2012**
FP-Dead NO Blow
FS-Dead NO Blow Back **KCC WICHITA**

Feet of	%gas	%oil	%water	%mud
<u>5</u> Feet of <u>U30CM</u>	<u>2</u>	<u>98</u>	<u>0</u>	<u>0</u>
Feet of _____	%gas	%oil	%water	%mud
Feet of _____	%gas	%oil	%water	%mud
Feet of _____	%gas	%oil	%water	%mud
Feet of _____	%gas	%oil	%water	%mud

Total 5 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

Initial Hydrostatic 1845
 First Initial Flow 17
 First Final Flow 20
 Initial Shut-In 604
 Second Initial Flow 21
 Second Final Flow 22
 Final Shut-In 391
 Final Hydrostatic 1837

Open 30
 Shut-In 30
 Flow 30
 Shut-In 30

☒ Test 1125
☐ Jars _____
☐ Safety Joint _____
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage 42 RT 58.80
☐ Sampler _____
☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
 Sub Total 1183.80

T-On Location 17:43
 T-Started 18:27
 T-Open 20:15
 T-Pulled 22:15
 T-Out 23:34

Comments _____

☐ Ruined Shale Packer _____
☐ Ruined Packer _____ **RECEIVED**
☐ Extra Copies _____ **NOV 05 20**
 Sub Total 0
 Total 1183.80 **KCC WICHITA**
 MP/DST Disc't _____

Tested By _____ Our Representative Jeff Brown
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