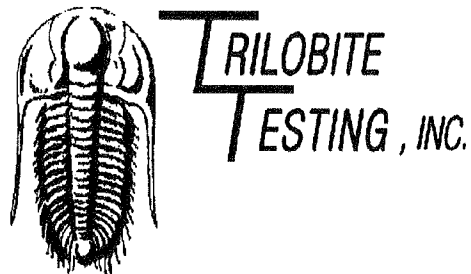


15-163-23714

35-8S-20W

IND

CONFIDENTIAL



DRILL STEM TEST REPORT

Prepared For: **Richland Oil Investments LLC**

608 E St
PO Box 166
Palco KS 67657

ATTN: Keith Lambert

35 8S 20W Rooks KS

K C # 1-35

Start Date: 2008.04.19 @ 16:13:55

End Date: 2008.04.19 @ 21:42:25

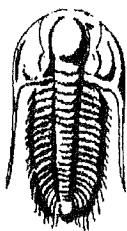
Job Ticket #: 30382 DST #: 1

RECEIVED
JUN 24 2009
KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Richland Oil Investments LLC

K C # 1-35

608 E St
PO Box 166
Palco KS 67657
ATTN: Keith Lambert

35 8S 20W Rooks KS

Job Ticket: 30382

DST#: 1

Test Start: 2008.04.19 @ 16:13:55

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:19:25

Time Test Ended: 21:42:25

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3556.00 ft (KB) To 3592.00 ft (KB) (TVD)**

Total Depth: 3592.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2051.00 ft (KB)

2046.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8369

Inside

Press@RunDepth: 21.44 psig @ 3558.00 ft (KB)

Start Date: 2008.04.19

End Date:

2008.04.19

Start Time: 16:14:00

End Time:

21:42:24

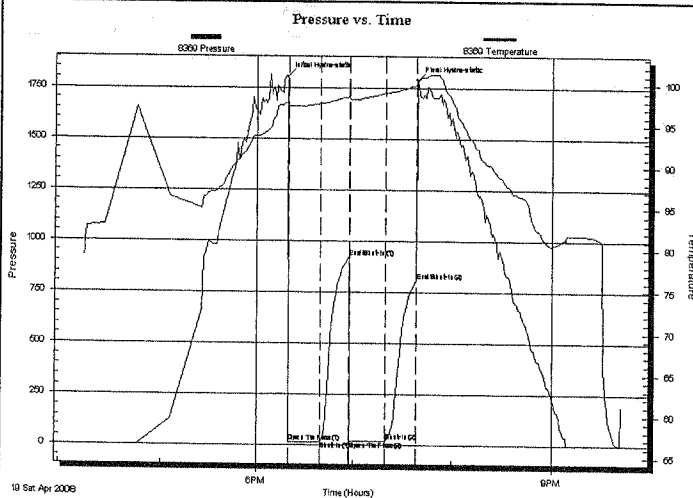
Capacity: 7000.00 psig

Last Calib.: 2008.04.19

Time On Btm: 2008.04.19 @ 18:18:55

Time Off Btm: 2008.04.19 @ 19:38:55

TEST COMMENT: IF Dead
ISI Dead
FF Dead
FSI Dead



PRESSURE SUMMARY

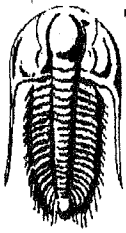
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.01	97.69	Initial Hydro-static
1	15.54	97.31	Open To Flow (1)
21	18.64	97.68	Shut-In (1)
39	921.79	98.52	End Shut-In (1)
39	18.31	98.12	Open To Flow (2)
61	21.44	98.93	Shut-In (2)
80	807.03	99.92	End Shut-In (2)
80	1787.42	100.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM	0.14

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Richland Oil Investments LLC

K C # 1-35

608 E St
PO Box 166
Palco KS 67657

35 8S 20W Rooks KS

Job Ticket: 30382

DST#: 1

ATTN: Keith Lambert

Test Start: 2008.04.19 @ 16:13:55

Tool Information

Drill Pipe:	Length: 3566.00 ft	Diameter: 3.80 inches	Volume: 50.02 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 30000.00 lb
			Total Volume: 50.02 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3556.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	56.00 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			3537.00	
Shut In Tool	5.00			3542.00	
Hydraulic tool	5.00			3547.00	
Packer	4.00			3551.00	20.00 Bottom Of Top Packer
Packer	5.00			3556.00	
Stubb	1.00			3557.00	
Perforations	1.00			3558.00	
Recorder	0.00	8369	Inside	3558.00	
Recorder	0.00	6669	Outside	3558.00	
Blank Spacing	29.00			3587.00	
Perforations	2.00			3589.00	
Bullnose	3.00			3592.00	36.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments LLC

K C # 1-35

608 E St
PO Box 166
Palco KS 67657

35 8S 20W Rooks KS

Job Ticket: 30382

DST#: 1

ATTN: Keith Lambert

Test Start: 2008.04.19 @ 16:13:55

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 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
10.00	DM	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

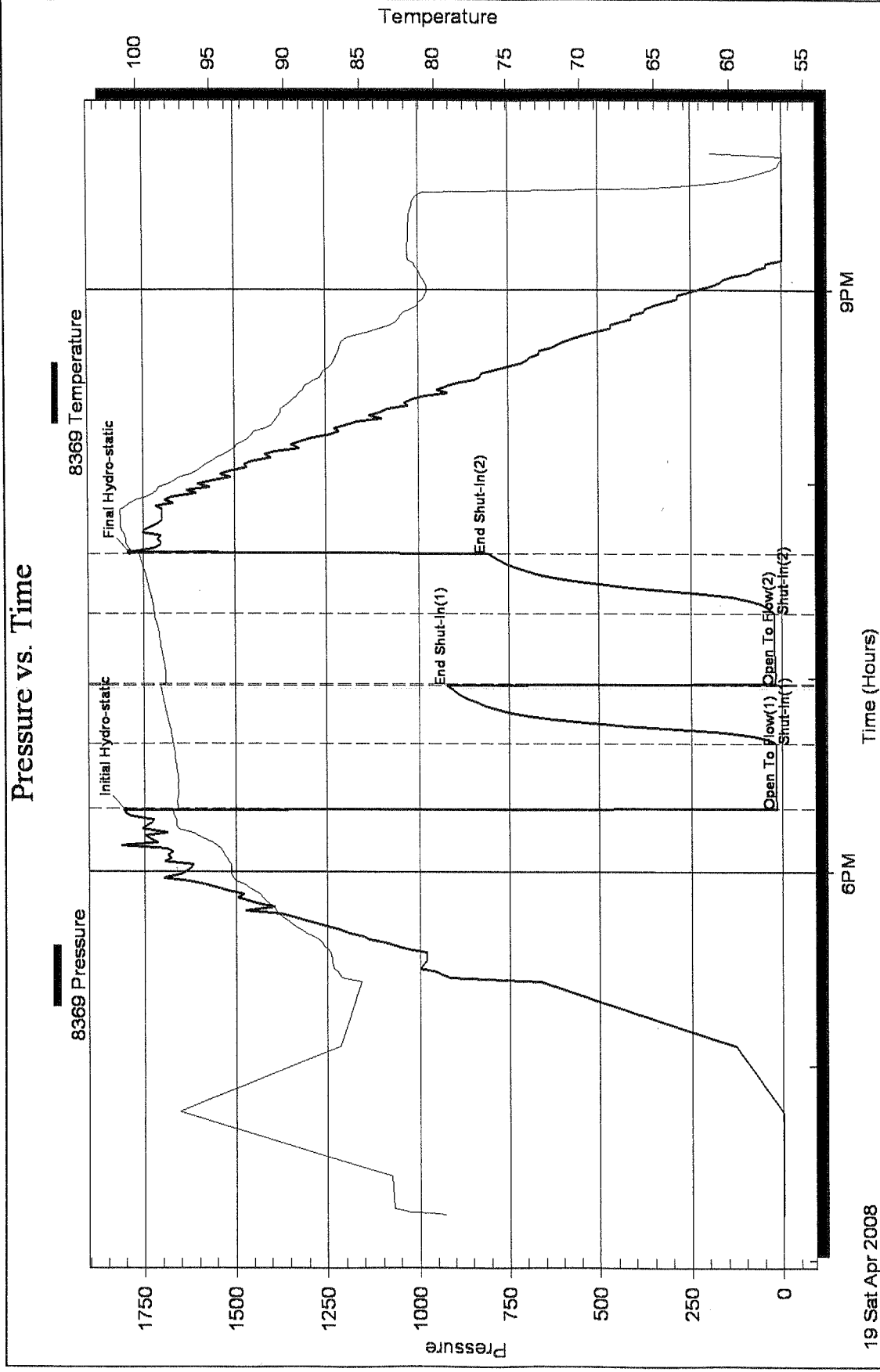
Serial #:

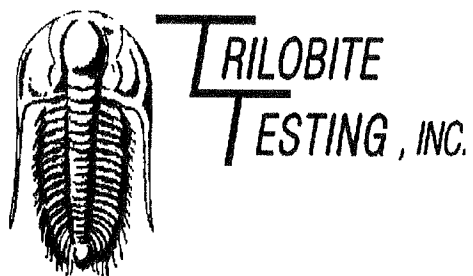
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Richland Oil Investments LLC**

608 E St
PO Box 166
Palco KS 67657

ATTN: Keith Lambert

35 8S 20W Rooks KS

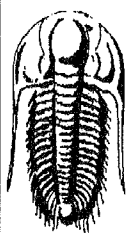
K C # 1-35

Start Date: 2008.04.20 @ 15:32:10

End Date: 2008.04.20 @ 22:49:40

Job Ticket #: 30383 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

Richland Oil Investments LLC

K C # 1-35

608 E St
PO Box 166
Palco KS 67657
ATTN: Keith Lambert

35 8S 20W Rooks KS

Job Ticket: 30383

DST#: 2

Test Start: 2008.04.20 @ 15:32:10

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:40:10

Time Test Ended: 22:49:40

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 31

Interval: **3542.00 ft (KB) To 3597.00 ft (KB) (TVD)**

Total Depth: 3592.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2051.00 ft (KB)

2046.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8369

Inside

Press@RunDepth: 37.72 psig @ 3546.00 ft (KB)

Start Date: 2008.04.20

End Date:

2008.04.20

Start Time: 15:32:15

End Time:

22:49:39

Capacity: 7000.00 psig

Last Calib.: 2008.04.20

Time On Btm: 2008.04.20 @ 17:39:40

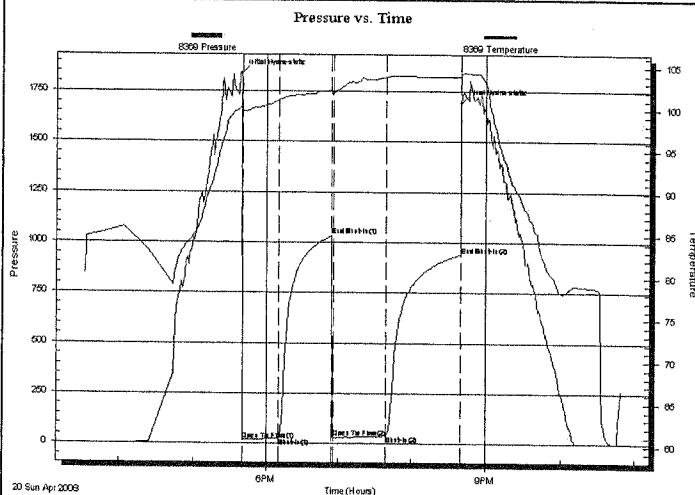
Time Off Btm: 2008.04.20 @ 20:40:10

TEST COMMENT: IF Weak built to 1" decrease to very weak surface

ISI Dead

FF Very Weak surface

FSI Dead



PRESSURE SUMMARY

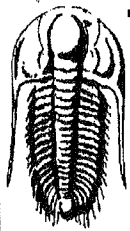
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.81	100.21	Initial Hydro-static
1	17.97	99.71	Open To Flow (1)
31	25.73	101.06	Shut-In(1)
75	1032.63	102.21	End Shut-In(1)
76	29.01	101.89	Open To Flow(2)
120	37.72	103.80	Shut-In(2)
180	939.73	103.88	End Shut-In(2)
181	1692.64	104.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	DM	0.56

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Richland Oil Investments LLC

K C # 1-35

608 E St
PO Box 166
Palco KS 67657

ATTN: Keith Lambert

35 8S 20W Rooks KS

Job Ticket: 30383

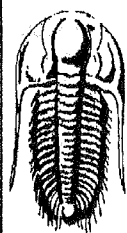
DST#: 2

Test Start: 2008.04.20 @ 15:32:10

Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 35000.00 lb
			Total Volume: 49.81 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3542.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	3597.00 ft			
Interval between Packers:	55.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3523.00	
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Packer	4.00			3537.00	20.00 Bottom Of Top Packer
Packer	5.00			3542.00	
Stubb	1.00			3543.00	
Perforations	3.00			3546.00	
Recorder	0.00	8369	Inside	3546.00	
Blank Spacing	31.00			3577.00	
Perforations	19.00			3596.00	
Recorder	0.00	13308	Outside	3596.00	
Blank Off Sub	1.00			3597.00	55.00 Tool Interval
Packer	0.00			3597.00	
Stubb	1.00			3598.00	
Perforations	1.00			3599.00	
Recorder	0.00	6669	Below	3599.00	
Blank Spacing	31.00			3630.00	33.00 Bottom Packers & Anchor
Total Tool Length:		108.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments LLC

K C # 1-35

608 E St
PO Box 166
Palco KS 67657

35 8S 20W Rooks KS

Job Ticket: 30383

DST#: 2

ATTN: Keith Lambert

Test Start: 2008.04.20 @ 15:32:10

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: 610.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	DM	0.561

Total Length: 40.00 ft

Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

