

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil Co. inc.
605 S. 6th
PO Box 124
Kiowa, KS 67070+1912
ATTN: Arden Ratzlaff

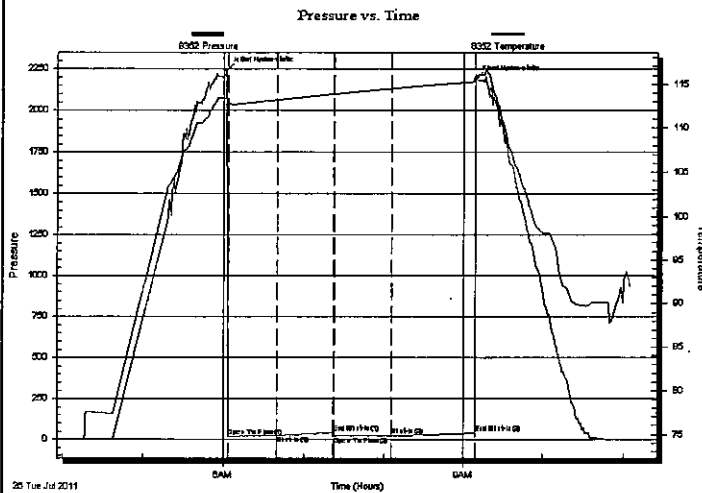
Jake #3
13-33s-11w Barber,KS
Job Ticket: 43519 **DST#: 1**
Test Start: 2011.07.26 @ 04:16:05

GENERAL INFORMATION:

Formation: **Hertha**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:03:10
Time Test Ended: 11:04:50
Interval: **4401.00 ft (KB) To 4449.00 ft (KB) (TVD)**
Total Depth: 4449.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 1596.00 ft (KB)
1588.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8352 Outside
Press@RunDepth: 23.16 psig @ 4408.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.26 End Date: 2011.07.26 Last Calib.: 2011.07.26
Start Time: 04:16:05 End Time: 11:04:50 Time On Btm: 2011.07.26 @ 06:01:50
Time Off Btm: 2011.07.26 @ 09:08:20

TEST COMMENT: IF:(30min) 1.5 inch blow in 20 min.
IS:(45min) No Return
FF:(45min) Weak, 1 inch blow, Died in 40 min.
FS:(60min) No Return



PRESSURE SUMMARY

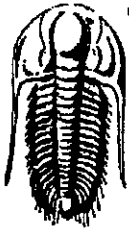
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.31	113.40	Initial Hydro-static
2	19.62	112.79	Open To Flow (1)
38	23.96	113.20	Shut-In(1)
80	44.09	113.89	End Shut-In(1)
81	19.91	113.88	Open To Flow (2)
124	23.16	114.50	Shut-In(2)
187	40.63	115.27	End Shut-In(2)
187	2188.00	116.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/ slight oil specks in tool	0.10

Gas Rates

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



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TOOL DIAGRAM

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ATTN: Arden Ratzlaff

Jake #3
13-33s-11w Barber,KS
Job Ticket: 43519 **DST#: 1**
Test Start: 2011.07.26 @ 04:16:05

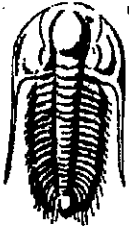
Tool Information

Drill Pipe:	Length: 4285.45 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 123.55 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 60.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4401.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	71.00 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			4379.00	
Shut In Tool	5.00			4384.00	
Hydraulic tool	5.00			4389.00	
Safety Joint	3.00			4392.00	
Packer	5.00			4397.00	23.00 Bottom Of Top Packer
Packer	4.00			4401.00	
Stubb	1.00			4402.00	
Perforations	5.00			4407.00	
Change Over Sub	1.00			4408.00	
Recorder	0.00	8017	Inside	4408.00	
Recorder	0.00	8352	Outside	4408.00	
Drill Pipe	31.00			4439.00	
Change Over Sub	1.00			4440.00	
Perforations	6.00			4446.00	
Bullnose	3.00			4449.00	48.00 Bottom Packers & Anchor

Total Tool Length: 71.00



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FLUID SUMMARY

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Kiowa, KS 67070+1912
ATTN: Arden Ratzlaff

13-33s-11w Barber,KS
Job Ticket: 43519 **DST#: 1**
Test Start: 2011.07.26 @ 04:16:05

Mud and Cushion Information

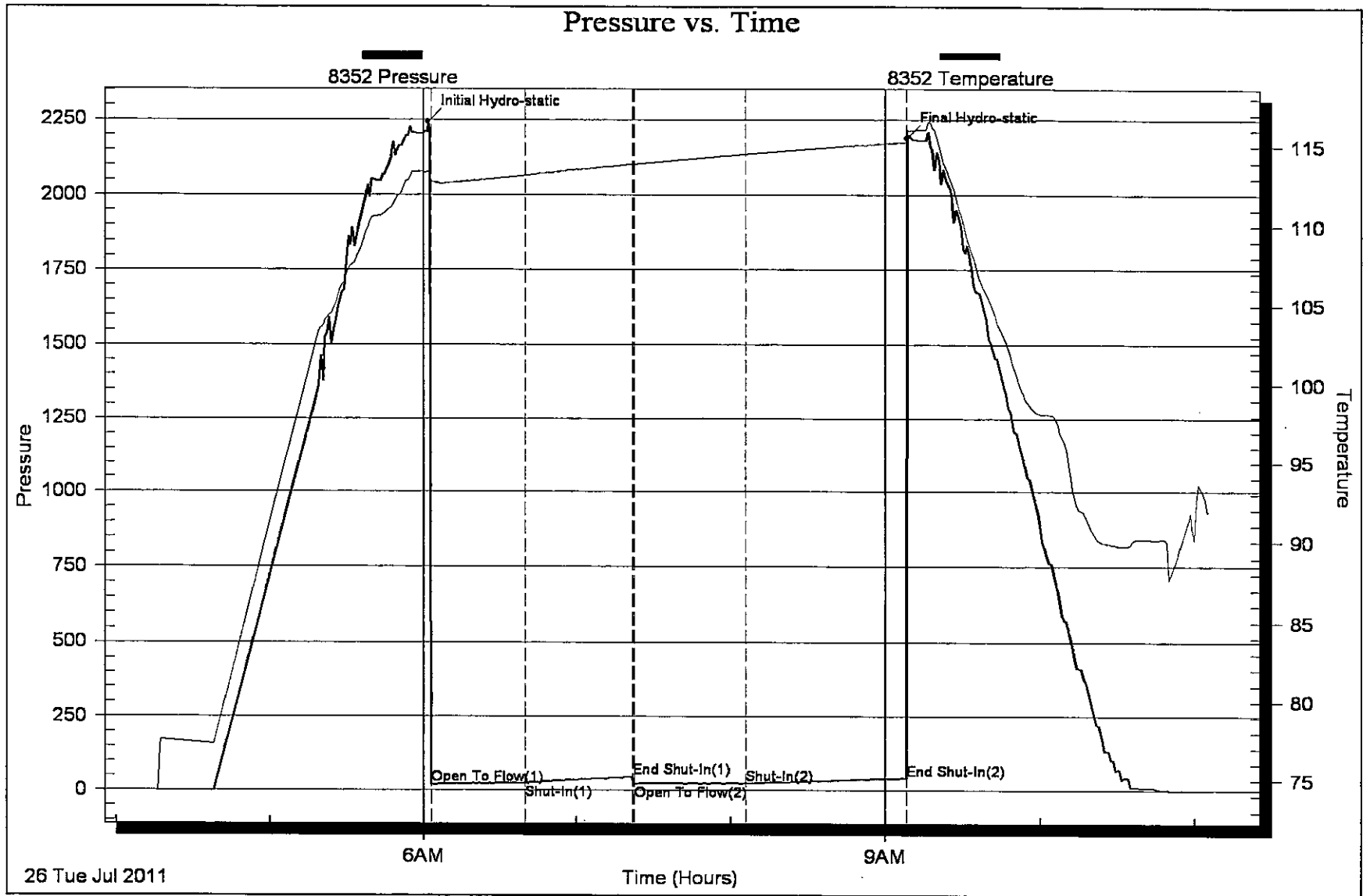
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

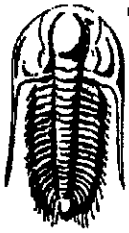
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w / slight oil specks in tool	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:





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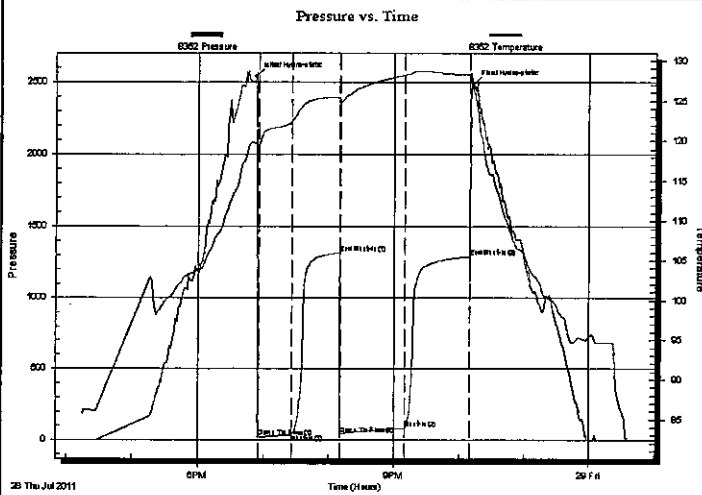
Jake #3
13-33s-11w Barber,KS
Job Ticket: 43520 **DST#: 2**
Test Start: 2011.07.28 @ 16:15:05

GENERAL INFORMATION:

Formation: **Misener**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:55:40
Time Test Ended: 00:35:20
Interval: **4932.00 ft (KB) To 4950.00 ft (KB) (TVD)**
Total Depth: 4950.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 1596.00 ft (KB)
1588.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8352 Outside
Press@RunDepth: 83.74 psig @ 4933.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.28 End Date: 2011.07.29 Last Calib.: 2011.07.29
Start Time: 16:15:05 End Time: 00:35:20 Time On Btm: 2011.07.28 @ 18:52:50
Time Off Btm: 2011.07.28 @ 22:13:20

TEST COMMENT: IF:(30min) 11 inches in 30 min.
IS:(45min) No Return
FF:(60min) BOB, 57 min.
FS:(60min) No Return



PRESSURE SUMMARY

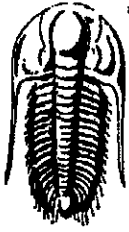
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2539.67	119.70	Initial Hydro-static
3	19.78	119.39	Open To Flow (1)
34	39.56	122.50	Shut-In(1)
77	1312.12	125.44	End Shut-In(1)
78	44.49	124.92	Open To Flow (2)
138	83.74	128.19	Shut-In(2)
198	1288.36	128.26	End Shut-In(2)
201	2487.45	126.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	MW/oil specks in tool m=20% w=80%	0.84
0.00	GIP= 100ft	0.00

Gas Rates

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



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ATTN: Arden Ratzlaff

Jake #3
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Job Ticket: 43520 **DST#: 2**
Test Start: 2011.07.28 @ 16:15:05

Tool Information

Drill Pipe:	Length: 4816.00 ft	Diameter: 3.80 inches	Volume: 67.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 123.55 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume: 68.17 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.55 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4932.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	41.00 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			4910.00	
Shut In Tool	5.00			4915.00	
Hydraulic tool	5.00			4920.00	
Safety Joint	3.00			4923.00	
Packer	5.00			4928.00	23.00 Bottom Of Top Packer
Packer	4.00			4932.00	
Stubb	1.00			4933.00	
Recorder	0.00	8017	Inside	4933.00	
Recorder	0.00	8352	Outside	4933.00	
Perforations	14.00			4947.00	
Bullnose	3.00			4950.00	18.00 Bottom Packers & Anchor

Total Tool Length: 41.00



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Job Ticket: 43520 **DST#: 2**
Test Start: 2011.07.28 @ 16:15:05

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:	7500 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	M/Ww /oil specks in tool m=20% w =80%	0.838
0.00	GIP= 100ft	0.000

Total Length: 140.00 ft Total Volume: 0.838 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

