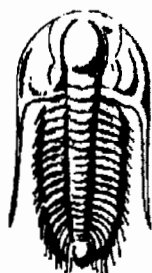


RELEASED
FROM
CONFIDENTIAL



TRILOBITE
TESTING, INC.

RECEIVED
SEP 02 2003
KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **Great Eastern**

PO Box 150
Bogue, Ks. 67625

CONFIDENTIAL
ATTN: Mike Davignon

23-7S-21W Graham Co

Bobbie Nell #1

Start Date: 2003.07.13 @ 14:38:32

End Date: 2003.07.13 @ 20:17:02

Job Ticket #: 17345

DST #: 1

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

Great Eastern

Bobbie Nell #1

23-7S-21W Graham Co

DST # 1

Toronto

2003.07.13

CONFIDENTIAL

ORIGINAL 93561


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

 Great Eastern
 PO Box 150
 Bogue, Ks. 67625

ATTN: Mike Davignon

Bobbie Nell #1

KCC

23-7S-21W Graham Co

23 2003

Job Ticket: 17345

DST#: 1

Test Start: 2003.07.13 @ 14:38:32

CONFIDENTIAL

GENERAL INFORMATION:

 Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:09:47
 Time Test Ended: 20:17:02

 Test Type: Conventional Bottom Hole
 Tester: Jason McEmore
 Unit No: 28

 Interval: **3305.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Total Depth: 3340.00 ft (KB) (TVD)
 Hole Diameter: 6.80 inches Hole Condition: Good

 Reference Elevations: 2016.00 ft (KB)
 2010.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6753

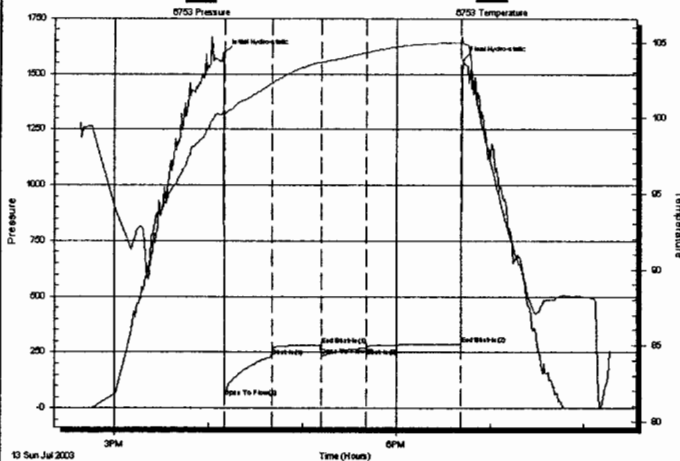
Inside

 Press@RunDepth: 270.97 psig @ 3311.00 ft (KB)
 Start Date: 2003.07.13 End Date: 2003.07.13
 Start Time: 14:38:34 End Time: 20:17:02

 Capacity: 7000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2003.07.13 @ 16:09:32
 Time Off Btm: 2003.07.13 @ 18:42:17

 TEST COMMENT: IFP BOB in 4 Min, No Blow back
 FFP Fair blow 10" in 30min, No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.24	100.49	Initial Hydro-static
1	47.63	100.11	Open To Flow (1)
31	231.73	102.29	Shut-In(1)
63	284.22	103.68	End Shut-In(1)
63	235.28	103.68	Open To Flow (2)
91	270.97	104.32	Shut-In(2)
152	286.05	105.01	End Shut-In(2)
153	1562.28	104.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Water Cut Mud 20% Mud 80% Salt water	0.15
510.00	Salt water	5.76

Gas Rates

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

CONFIDENTIAL

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern

Bobbie Nell #1

 PO Box 150
 Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17345

DST#: 1

ATTN: Mike Davignon

Test Start: 2003.07.13 @ 14:38:32

Tool Information

Drill Pipe:	Length: 3115.00 ft	Diameter: 3.80 inches	Volume: 43.70 bbl	Tool Weight: 2000.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	44.60 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3305.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

KCC

AUG 23 2003

CONFIDENTIAL

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3285.00	
Shut In Tool	5.00			3290.00	
Hydraulic tool	5.00			3295.00	
Packer	5.00			3300.00	21.00 Bottom Of Top Packer
Packer	5.00			3305.00	
Stubb	1.00			3306.00	
Perforations	5.00			3311.00	
Recorder	0.00	6753	Inside	3311.00	
Perforations	26.00			3337.00	
Recorder	0.00	13252	Outside	3337.00	
Bullnose	3.00			3340.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY									
	Great Eastern PO Box 150 Bogue, Ks. 67625 ATTN: Mike Davignon	Bobbie Nell #1 23-7S-21W Graham Co Job Ticket: 17345 DST#: 1 Test Start: 2003.07.13 @ 14:38:32										
Mud and Cushion Information												
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 72.00 sec/qt Water Loss: 7.98 in ³ Resistivity: ohm.m Salinity: 700.00 ppm Filter Cake: inches		Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig										
		Oil API: deg API Water Salinity: 7200 ppm										
Recovery Information												
Recovery Table												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 60%;">Description</th> <th style="width: 25%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">30.00</td> <td>Water Cut Mud 20% Mud 80% Saltwater</td> <td style="text-align: center;">0.148</td> </tr> <tr> <td style="text-align: center;">510.00</td> <td>Saltwater</td> <td style="text-align: center;">5.760</td> </tr> </tbody> </table>				Length ft	Description	Volume bbl	30.00	Water Cut Mud 20% Mud 80% Saltwater	0.148	510.00	Saltwater	5.760
Length ft	Description	Volume bbl										
30.00	Water Cut Mud 20% Mud 80% Saltwater	0.148										
510.00	Saltwater	5.760										
Total Length: 540.00 ft		Total Volume: 5.908 bbl										
Num Fluid Samples: 0		Num Gas Bombs: 0 Serial #:										
Laboratory Name:		Laboratory Location:										
Recovery Comments:												

DST Test Number: 1

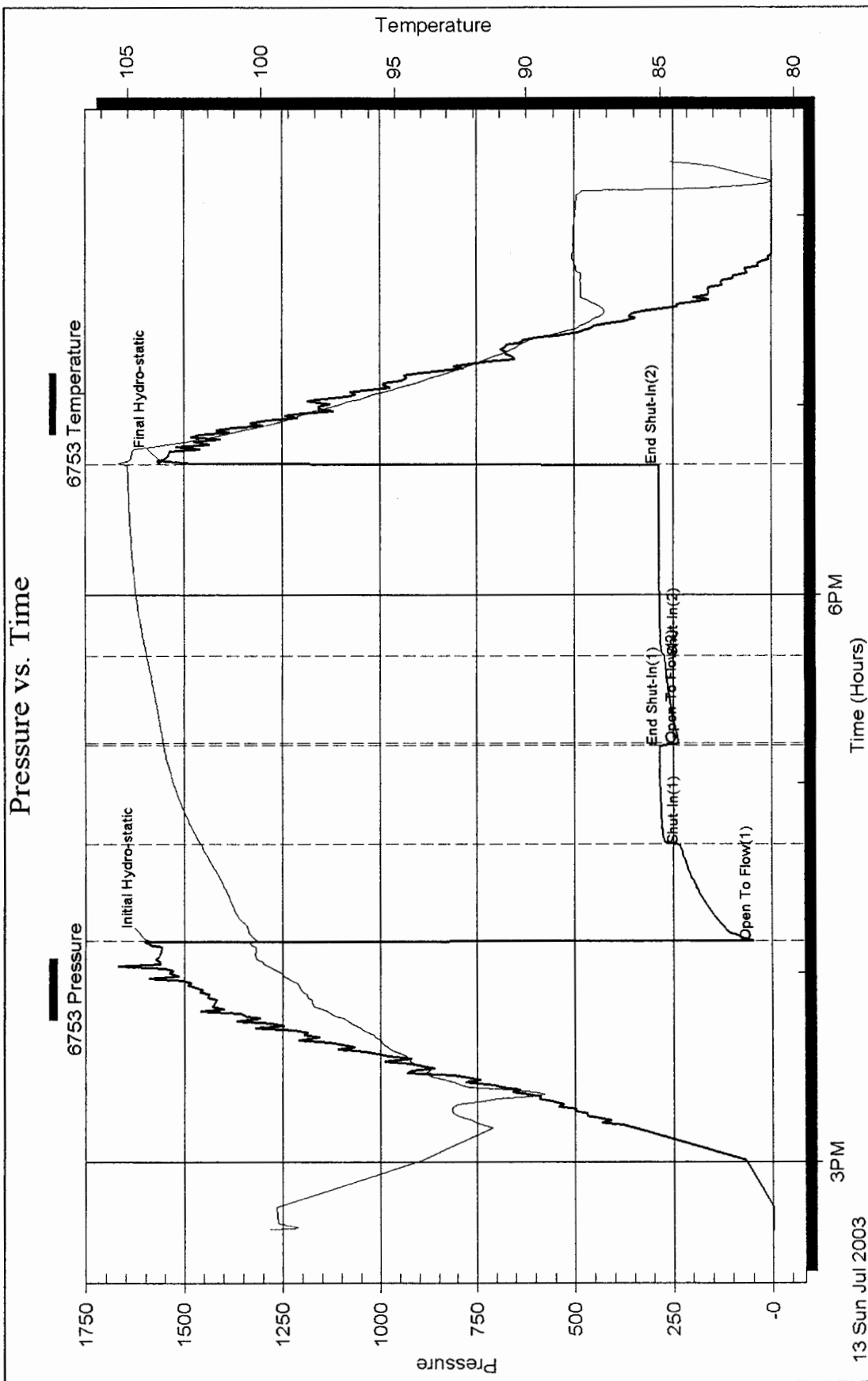
23-7S-21W Graham Co

Great Eastern

Inside

Serial #: 6753

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern**

PO Box 150
Bogue, Ks. 67625

ATTN: Mike Davignon

23-7S-21W Graham Co

Bobbie Nell #1

Start Date: 2003.07.14 @ 02:05:04

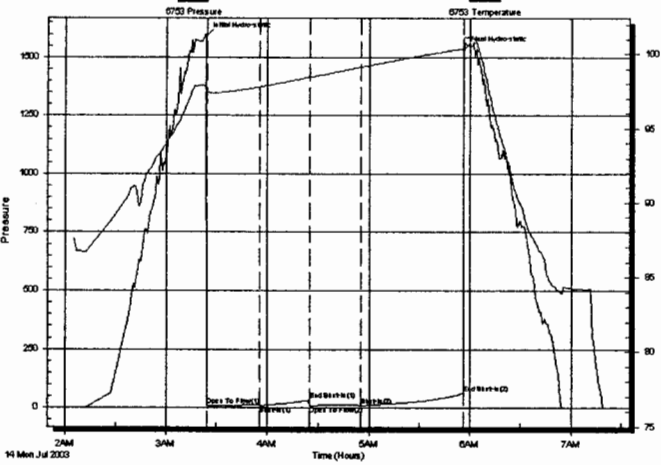
End Date: 2003.07.14 @ 07:19:34

Job Ticket #: 17346 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																																									
Great Eastern PO Box 150 Bogue, Ks. 67625 ATTN: Mike Davignon	Bobbie Nell #1 23-7S-21W Graham Co Job Ticket: 17346 DST#: 2 Test Start: 2003.07.14 @ 02:05:04																																									
GENERAL INFORMATION: Formation: LKC "A" Deviated: No Whipstock: ft (KB) Time Tool Opened: 03:24:19 Time Test Ended: 07:19:34 Interval: 3340.00 ft (KB) To 3360.00 ft (KB) (TVD) Total Depth: 3340.00 ft (KB) (TVD) Hole Diameter: 6.80 inches Hole Condition: Good Test Type: Conventional Bottom Hole Tester: Jason Mclemore Unit No: 28 Reference Elevations: 2016.00 ft (KB) 2010.00 ft (CF) KB to GR/CF: 6.00 ft																																										
Serial #: 6753 Inside Press@RunDepth: 10.39 psig @ 3341.00 ft (KB) Start Date: 2003.07.14 End Date: 2003.07.14 Start Time: 02:05:06 End Time: 07:19:34 Capacity: 7000.00 psig Last Calib.: 1899.12.30 Time On Btm: 2003.07.14 @ 03:23:49 Time Off Btm: 2003.07.14 @ 05:56:04																																										
TEST COMMENT: IFP Weak Surface Blow , No Blow back FFP No Blow																																										
Pressure vs. Time 		PRESSURE SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1590.51</td> <td>97.80</td> <td>Initial Hydro-static</td> </tr> <tr> <td>1</td> <td>9.27</td> <td>97.47</td> <td>Open To Flow (1)</td> </tr> <tr> <td>32</td> <td>10.63</td> <td>97.78</td> <td>Shut-In (1)</td> </tr> <tr> <td>61</td> <td>32.68</td> <td>98.46</td> <td>End Shut-In (1)</td> </tr> <tr> <td>62</td> <td>10.28</td> <td>98.45</td> <td>Open To Flow (2)</td> </tr> <tr> <td>91</td> <td>10.39</td> <td>99.12</td> <td>Shut-In (2)</td> </tr> <tr> <td>152</td> <td>62.97</td> <td>100.38</td> <td>End Shut-In (2)</td> </tr> <tr> <td>153</td> <td>1530.61</td> <td>101.08</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1590.51	97.80	Initial Hydro-static	1	9.27	97.47	Open To Flow (1)	32	10.63	97.78	Shut-In (1)	61	32.68	98.46	End Shut-In (1)	62	10.28	98.45	Open To Flow (2)	91	10.39	99.12	Shut-In (2)	152	62.97	100.38	End Shut-In (2)	153	1530.61	101.08	Final Hydro-static			
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Recovery <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>5.00</td> <td>Mud With Trace Amount of Oil</td> <td>0.02</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Length (ft)	Description	Volume (bbl)	5.00	Mud With Trace Amount of Oil	0.02																Gas Rates <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)															
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Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																								



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern

Bobbie Nell #1

PO Box 150
Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17346

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.07.14 @ 02:05:04

Tool Information

Drill Pipe:	Length: 3144.00 ft	Diameter: 3.80 inches	Volume: 44.10 bbl	Tool Weight: 1800.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 52000.00 lb
			Total Volume: 45.00 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3340.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 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			3320.00	
Shut In Tool	5.00			3325.00	
Hydraulic tool	5.00			3330.00	
Packer	5.00			3335.00	21.00 Bottom Of Top Packer
Packer	5.00			3340.00	
Stubb	1.00			3341.00	
Recorder	0.00	6753	Inside	3341.00	
Perforations	16.00			3357.00	
Recorder	0.00	13252	Outside	3357.00	
Bullnose	3.00			3360.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Great Eastern PO Box 150 Bogue, Ks. 67625 ATTN: Mike Davignon	Bobbie Nell #1 23-7S-21W Graham Co Job Ticket: 17346 DST#: 2 Test Start: 2003.07.14 @ 02:05:04	

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:
Viscosity: 72.00 sec/qt	Cushion Volume:	bbl	ppm
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:	psig	
Salinity: 700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table		
Length ft	Description	Volume bbl
5.00	Mud With Trace Amount 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:		

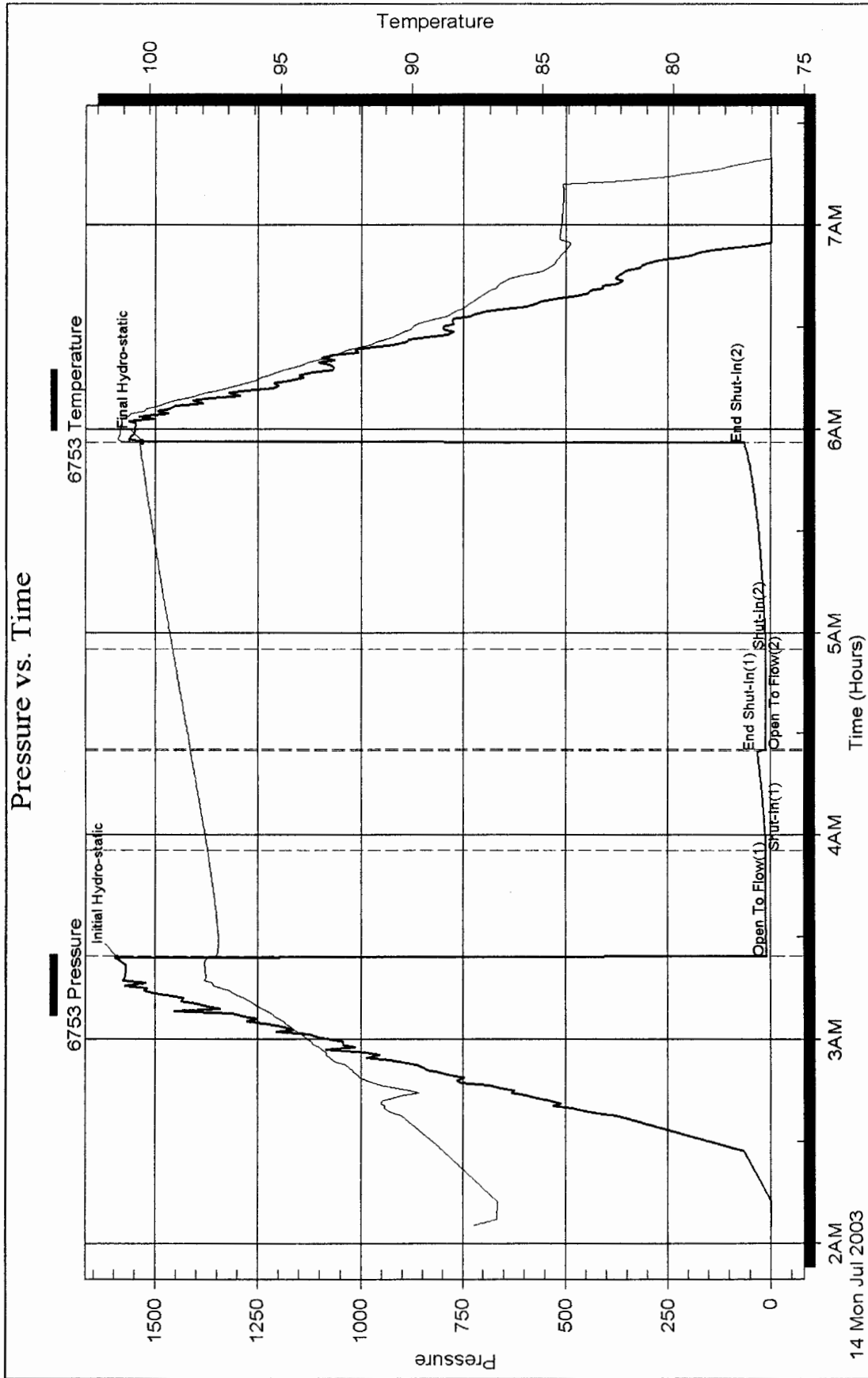
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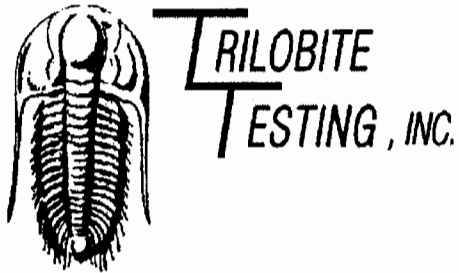
Inside Great Eastern

23-7S-21W Graham Co

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern**

PO Box 150
Bogue, Ks. 67625

ATTN: Mike Davignon

23-7S-21W Graham Co

Bobbie Nell #1

Start Date: 2003.07.14 @ 13:18:15

End Date: 2003.07.14 @ 20:29:45

Job Ticket #: 17347 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Great Eastern

Bobbie Nell #1

PO Box 150
Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17347

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.07.14 @ 13:18:15

GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:45

Time Test Ended: 20:29:45

Test Type: Conventional Bottom Hole

Tester: Jason McInmore

Unit No: 28

Interval: 3370.00 ft (KB) To 3390.00 ft (KB) (TVD)

Total Depth: 3340.00 ft (KB) (TVD)

Hole Diameter: 6.80 inches Hole Condition: Good

Reference Elevations: 2016.00 ft (KB)

2010.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6753

Inside

Press@RunDepth: 266.63 psig @ 3371.00 ft (KB)

Start Date: 2003.07.14

End Date:

2003.07.14

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 13:18:17

End Time:

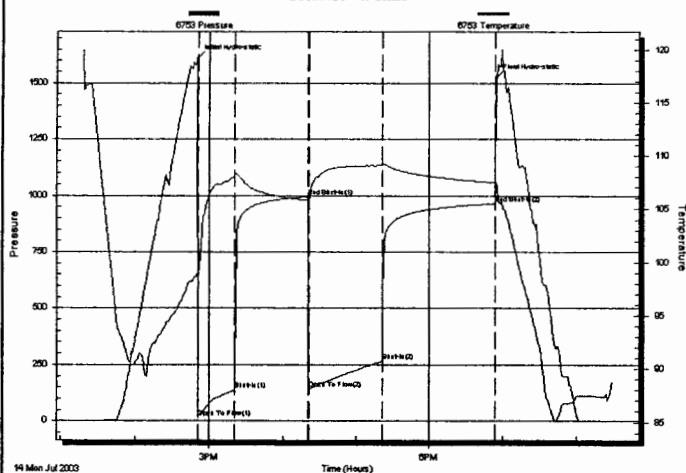
20:29:45

Time On Btm: 2003.07.14 @ 14:50:30

Time Off Btm: 2003.07.14 @ 18:54:30

TEST COMMENT: IFF- Strong Blow , BOB in 16 min, 2 min blow down n, Blow back on surface for 4 min
 FFP-Good Blow , BOB in 17 min, No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.63	98.86	Initial Hydro-static
1	15.40	98.47	Open To Flow (1)
31	137.36	108.12	Shut-In (1)
91	994.17	105.82	End Shut-In (1)
91	141.22	105.61	Open To Flow (2)
152	266.63	109.08	Shut-In (2)
244	965.15	107.48	End Shut-In (2)
244	1525.79	107.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
520.00	Salt water Slightly cut with mud	5.63

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern

Bobbie Nell #1

PO Box 150
Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17347

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.07.14 @ 13:18:15

Tool Information

Drill Pipe:	Length: 3176.00 ft	Diameter: 3.80 inches	Volume: 44.55 bbl	Tool Weight:	1800.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 45.45 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3370.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 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			3350.00	
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Packer	5.00			3365.00	21.00 Bottom Of Top Packer
Packer	5.00			3370.00	
Stubb	1.00			3371.00	
Recorder	0.00	6753	Inside	3371.00	
Perforations	16.00			3387.00	
Recorder	0.00	13252	Outside	3387.00	
Bullnose	3.00			3390.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Great Eastern		Bobbie Nell #1
	PO Box 150 Bogue, Ks. 67625		23-7S-21W Graham Co
	ATTN: Mike Davignon		Job Ticket: 17347 DST#: 3 Test Start: 2003.07.14 @ 13:18:15

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: bbl		
Water Loss: 7.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
520.00	Saltwater Slightly cut with mud	5.627

Total Length: 520.00 ft Total Volume: 5.627 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

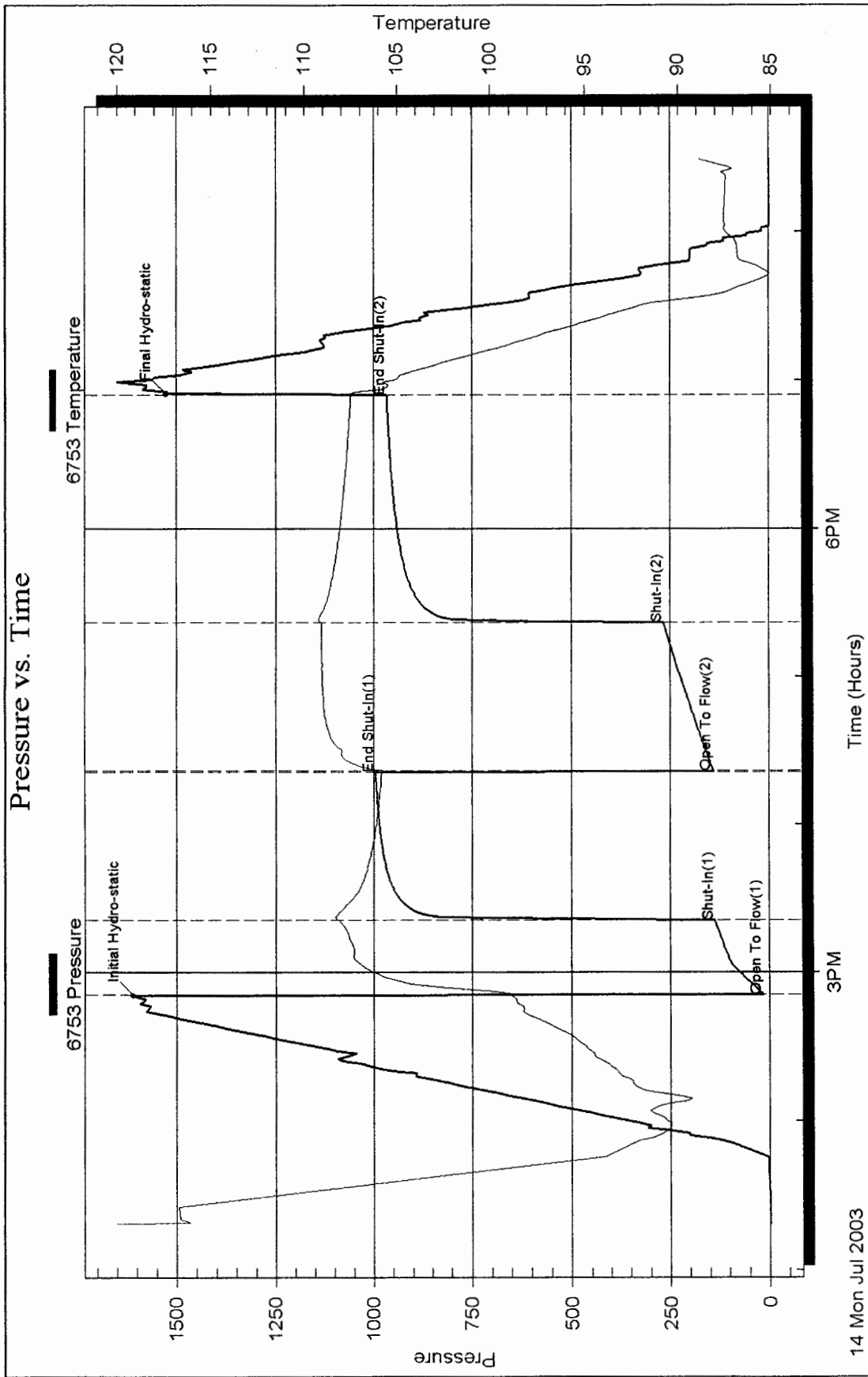
DST Test Number: 3

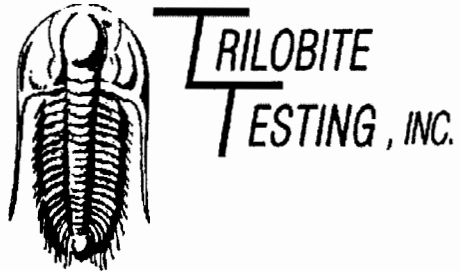
23-7S-21W Graham Co

Inside Great Eastern

Serial #: 6753

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern**

PO Box 150
Bogue, Ks. 67625

ATTN: Mike Davignon

23-7S-21W Graham Co

Bobbie Nell #1

Start Date: 2003.07.15 @ 02:30:39

End Date: 2003.07.15 @ 08:15:54

Job Ticket #: 17348 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Great Eastern	Bobbie Nell #1
	PO Box 150 Bogue, Ks. 67625	23-7S-21W Graham Co
	ATTN: Mike Davignon	Job Ticket: 17348 DST#: 4 Test Start: 2003.07.15 @ 02:30:39

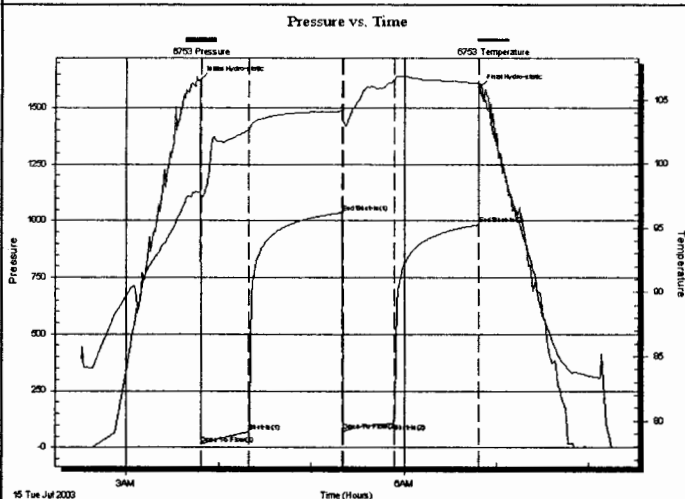
GENERAL INFORMATION:

Formation: LKC "D" Deviated: No Whipstock: ft (KB) Time Tool Opened: 03:48:24 Time Test Ended: 08:15:54 Interval: 3393.00 ft (KB) To 3410.00 ft (KB) (TVD) Total Depth: 3340.00 ft (KB) (TVD) Hole Diameter: 6.80 inches Hole Condition: Good	Test Type: Conventional Bottom Hole Tester: Jason McEmore Unit No: 28 Reference Elevations: 2016.00 ft (KB) 2010.00 ft (CF) KB to GR/CF: 6.00 ft
--	---

Serial #: 6753**Inside**

Press@RunDepth: 107.69 psig @ 3394.00 ft (KB)	Capacity: 7000.00 psig
Start Date: 2003.07.15	Last Calib.: 1899.12.30
Start Time: 02:30:41	Time On Btm: 2003.07.15 @ 03:48:09
End Date: 2003.07.15	Time Off Btm: 2003.07.15 @ 06:48:39
End Time: 08:15:54	

TEST COMMENT: IFP- Weak Blow ,3" ,No Blow back
 FFP- Weak Blow ,1/4" , No Blow back

**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.45	97.75	Initial Hydro-static
1	13.18	97.45	Open To Flow (1)
32	68.86	102.68	Shut-In(1)
92	1035.57	104.11	End Shut-In(1)
93	72.29	103.72	Open To Flow (2)
126	107.69	106.54	Shut-In(2)
181	983.34	106.31	End Shut-In(2)
181	1589.18	106.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Saltwater, 10% Mud	0.93

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern

Bobbie Nell #1

PO Box 150
Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17348

DST#: 4

ATTN: Mike Davignon

Test Start: 2003.07.15 @ 02:30:39

Tool Information

Drill Pipe:	Length: 3206.00 ft	Diameter: 3.80 inches	Volume: 44.97 bbl	Tool Weight: 2000.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 45.87 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3393.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3373.00	
Shut In Tool	5.00			3378.00	
Hydraulic tool	5.00			3383.00	
Packer	5.00			3388.00	21.00 Bottom Of Top Packer
Packer	5.00			3393.00	
Stubb	1.00			3394.00	
Recorder	0.00	6753	Inside	3394.00	
Perforations	13.00			3407.00	
Recorder	0.00	13252	Outside	3407.00	
Bullnose	3.00			3410.00	17.00 Bottom Packers & Anchor
Total Tool Length:	38.00				

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Great Eastern PO Box 150 Bogue, Ks. 67625 ATTN: Mike Davignon	Bobbie Nell #1 23-7S-21W Graham Co Job Ticket: 17348 DST#: 4 Test Start: 2003.07.15 @ 02:30:39	

Mud and Cushion Information			
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 72.00 sec/qt Water Loss: 7.98 in ³ Resistivity: ohm.m Salinity: 700.00 ppm Filter Cake: inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: deg API Water Salinity: 59000 ppm	

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
185.00	Saltwater, 10% Mud	0.928
Total Length: 185.00 ft Total Volume: 0.928 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments:		

Serial #: 6753

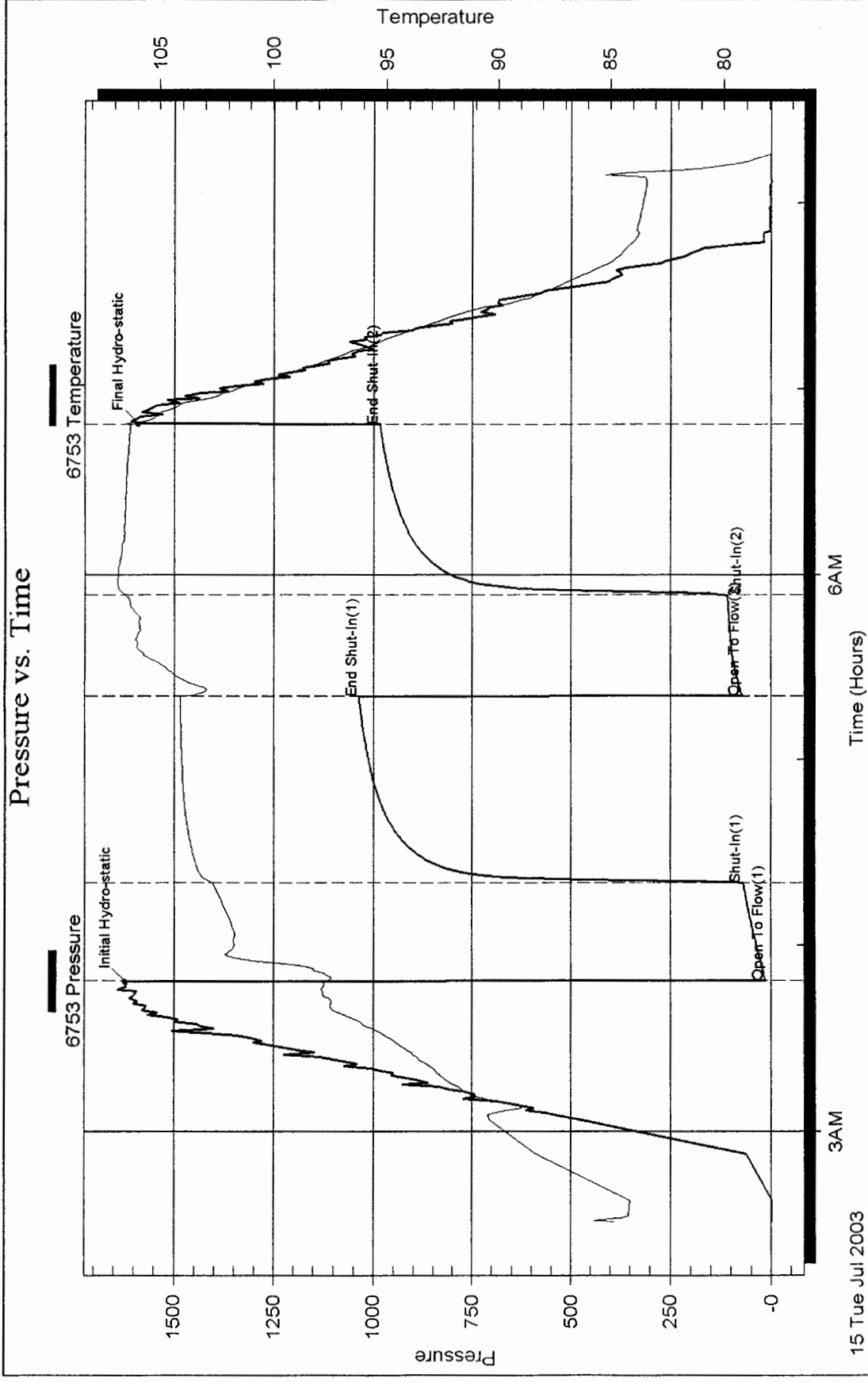
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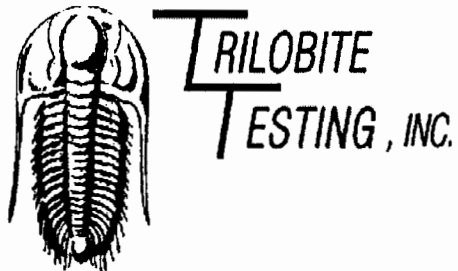
Great Eastern

23-7S-21W Graham Co

DST Test Number: 4

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern**

PO Box 150
Bogue, Ks. 67625

ATTN: Mike Davignon

23-7S-21W Graham Co

Bobbie Nell #1

Start Date: 2003.07.15 @ 17:55:31

End Date: 2003.07.15 @ 23:55:46

Job Ticket #: 17349 DST #: 5

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


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern

Bobbie Nell #1

PO Box 150
Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17349

DST#: 5

ATTN: Mike Davignon

Test Start: 2003.07.15 @ 17:55:31

GENERAL INFORMATION:

Formation: **LKC "Lower"**Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:37:31

Time Test Ended: 23:55:46

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 28

Interval: **3455.00 ft (KB) To 3542.00 ft (KB) (TVD)**Total Depth: **3542.00 ft (KB) (TVD)**Hole Diameter: **6.80 inches** Hole Condition: **Good**Reference Elevations: **2016.00 ft (KB)****2010.00 ft (CF)**KB to GR/CF: **6.00 ft**Serial #: **6753**

Inside

Press@RunDepth: **59.04 psig @ 3463.00 ft (KB)**Start Date: **2003.07.15**

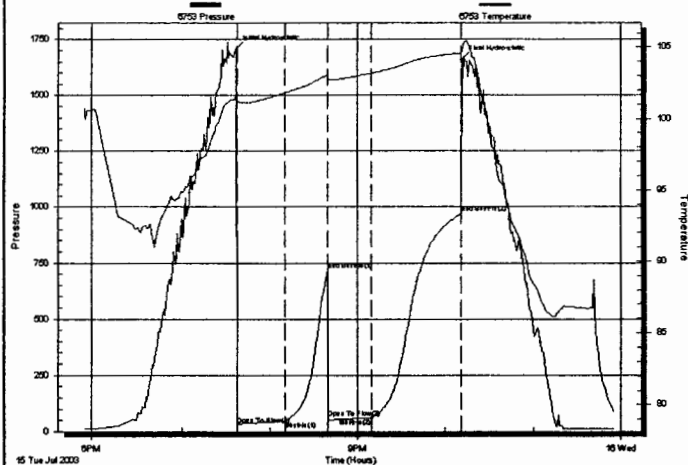
End Date:

2003.07.15Capacity: **7000.00 psig**Last Calib.: **1899.12.30**Start Time: **17:55:33**

End Time:

23:55:46Time On Btm: **2003.07.15 @ 19:37:16**Time Off Btm: **2003.07.15 @ 22:11:31**TEST COMMENT: IFP-Weak Blow 2", No Blow back
FFP- Weak Blow 2", No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.29	101.57	Initial Hydro-static
1	31.08	101.11	Open To Flow (1)
33	46.33	101.80	Shut-In (1)
63	717.59	103.03	End Shut-In (1)
63	60.17	102.78	Open To Flow (2)
93	59.04	103.18	Shut-In (2)
154	970.67	104.59	End Shut-In (2)
155	1660.10	104.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil With Trace of Water	0.15
60.00	Oil cut Mud , 30% Oil, 70% Mud	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern

Bobbie Nell #1

PO Box 150
Bogue, Ks. 67625

23-7S-21W Graham Co

Job Ticket: 17349

DST#: 5

ATTN: Mike Davignon

Test Start: 2003.07.15 @ 17:55:31

Tool Information

Drill Pipe:	Length: 3269.00 ft	Diameter: 3.80 inches	Volume: 45.86 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	58000.00 lb
			Total Volume: 46.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3455.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	87.00 ft				
Tool Length:	108.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3435.00	
Shut In Tool	5.00			3440.00	
Hydraulic tool	5.00			3445.00	
Packer	5.00			3450.00	21.00 Bottom Of Top Packer
Packer	5.00			3455.00	
Stubb	1.00			3456.00	
Perforations	6.00			3462.00	
Change Over Sub	1.00			3463.00	
Recorder	0.00	6753	Inside	3463.00	
Blank Spacing	62.00			3525.00	
Change Over Sub	1.00			3526.00	
Perforations	13.00			3539.00	
Recorder	0.00	13252	Outside	3539.00	
Bullnose	3.00			3542.00	87.00 Bottom Packers & Anchor

Total Tool Length: 108.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Great Eastern PO Box 150 Bogue, Ks. 67625 ATTN: Mike Davignon	Bobbie Nell #1 23-7S-21W Graham Co Job Ticket: 17349 DST#: 5 Test Start: 2003.07.15 @ 17:55:31	

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2750.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
30.00	Oil With Trace of Water	0.148
60.00	Oil cut Mud , 30% Oil, 70% Mud	0.295

Total Length: 90.00 ft	Total Volume: 0.443 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

Pressure vs. Time

