

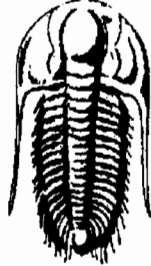
Release

APR 16 2003

From
Confidential

ORIGINAL

15-081-21404



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

KCC Prepared For: Harris Oil & Gas

AUG 02 2001

1125 17 street ste 2290 Denver Co 80202

CONFIDENTIAL

CONFIDENTIAL

ATTN: Vern Shroug

30 30 33 Haskell

~~Nanninga Trust #1-430~~

*Nanninga Trust
1-430*

Start Date: 2001.05.12 @ 09:45

End Date: 2001.05.19 @ 10:51

Job Ticket #: 14534 DST #: 1

RECEIVED

1 AUG -6 2001

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Harris Oil & Gas

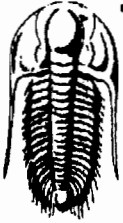
Nanninga Trust #1-430

30 30 33 Haskell

DST # 1

Lansing

2001.05.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14534 **DST#: 1**
Test Start: 2001.05.12 @ 03:27:45

Tool Information

Drill Pipe:	Length: 3816.00 ft	Diameter: 3.80 inches	Volume: 53.53 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: 30000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 86000.00 lb
			Total Volume: 54.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4096.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

KCC

AUG 02 2001

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CONFIDENTIAL

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4070.00	
S.I. Tool	5.00			4075.00	
HMV	5.00			4080.00	
Jars	5.00			4085.00	
Safety Joint	2.00			4087.00	
Packer	5.00			4092.00	27.00 Bottom Of Top Packer
Packer	4.00			4096.00	
Stubb	1.00			4097.00	
Perforations	2.00			4099.00	
Recorder	0.00	2350	Inside	4099.00	
P.O. Sub	5.00			4104.00	
C.O. Sub	1.00			4105.00	
Recorder	0.00	2357	Inside	4105.00	
Blank Spacing	31.00			4136.00	
C.O. Sub	1.00			4137.00	
Perforations	3.00			4140.00	
Recorder	0.00	13277	Outside	4140.00	
Bullnose	2.00			4142.00	46.00 Bottom Packers & Anchor

ORIGINAL

Total Tool Length: 73.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14534 **DST#: 1**
Test Start: 2001.05.12 @ 03:27:45

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:	ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.69 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

100% > 0 OUA

Recovery Table

Length ft	Description	Volume bbl
100.00	OMG 50%g 10%o 40%m	0.492
120.00	10% gas 40% oil 50% mud	0.590
109.00	Oily gas 5%g 95%o	1.092

Total Length: 329.00 ft Total Volume: 2.174 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 2350

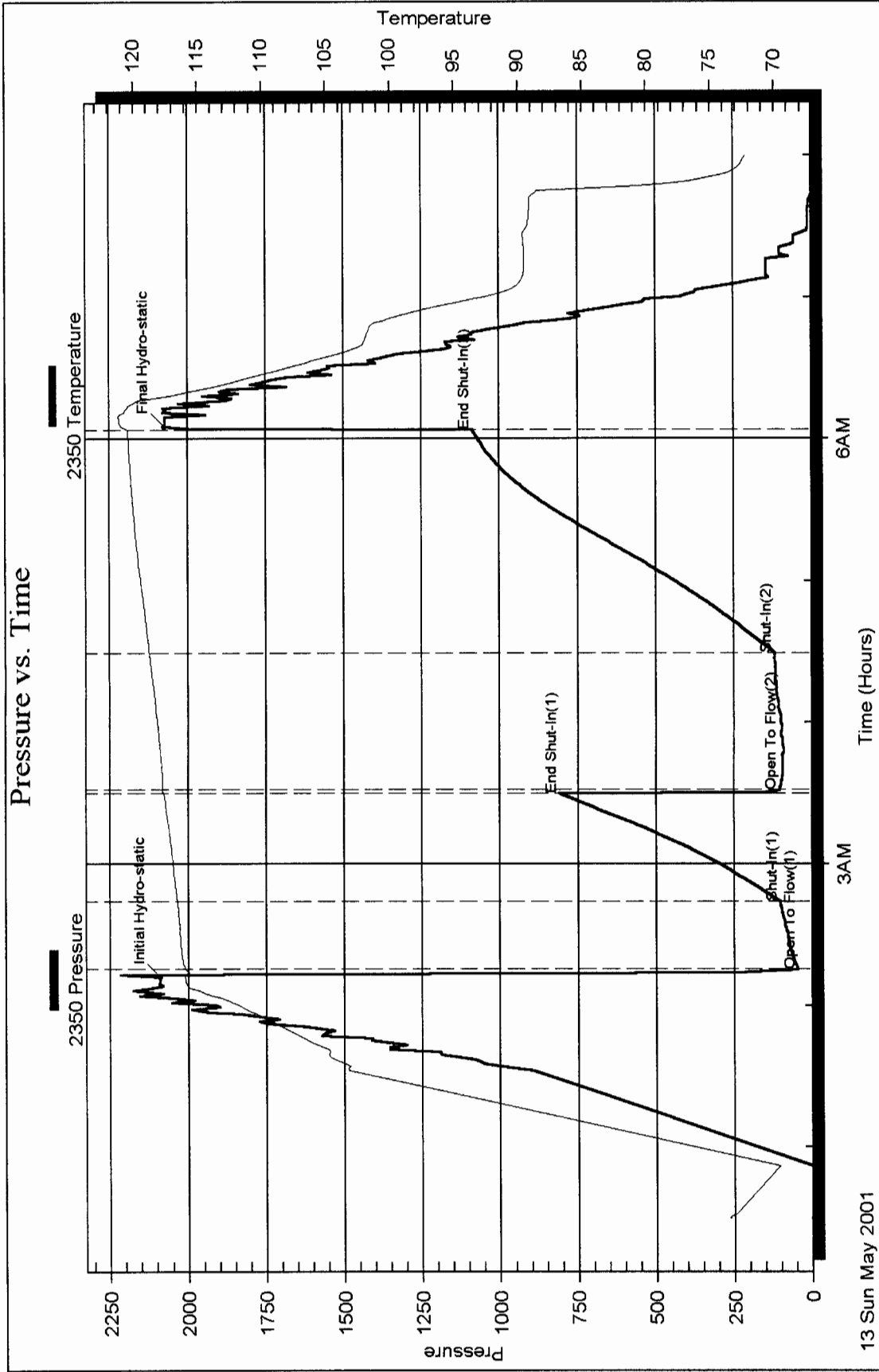
Inside

Harris Oil & Gas

30 30 33 Hastell

DST Test Number: 1

Pressure vs. Time

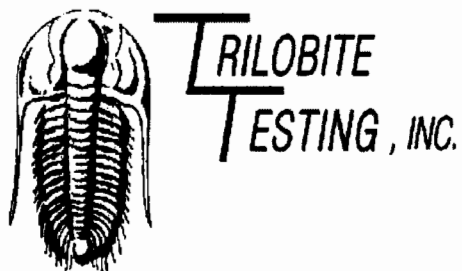


13 Sun May 2001

Trilobite Testing, Inc

Ref. No: 14534

Printed: 2001.05.22 @ 09:40:19 Page 5



DRILL STEM TEST REPORT

Prepared For: **Harris Oil & Gas**

1125 17 street ste 2290 Denver Co 80202

ATTN: Vern Shroug

30 30 33 Haskell

Nanninga Trust #1-430

Start Date: 2001.05.13 @ 00:29:40

End Date: 2001.05.13 @ 05:58:25

Job Ticket #: 14535 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

TOOL DIAGRAM

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14535 **DST#: 2**
Test Start: 2001.05.13 @ 00:29:40

Tool Information

Drill Pipe:	Length: 4096.00 ft	Diameter: 3.80 inches	Volume: 57.46 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: 30000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.78 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4363.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	43.01 ft			
Tool Length:	70.01 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4337.00	
S.I. Tool	5.00			4342.00	
HMV	5.00			4347.00	
Jars	5.00			4352.00	
Safety Joint	2.00			4354.00	
Packer	5.00			4359.00	27.00 Bottom Of Top Packer
Packer	4.00			4363.00	
Stubb	1.00			4364.00	
Perforations	2.00			4366.00	
C.O. Sub	1.00			4367.00	
Recorder	0.00	2350	Inside	4367.00	
Blank Spacing	31.00			4398.00	
C.O. Sub	1.00			4399.00	
Perforations	5.00			4404.00	
Recorder	0.01	13277	Outside	4404.01	
Bullnose	2.00			4406.01	43.01 Bottom Packers & Anchor
Total Tool Length:	70.01				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14535 **DST#: 2**
Test Start: 2001.05.13 @ 00:29:40

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil APl:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.74 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

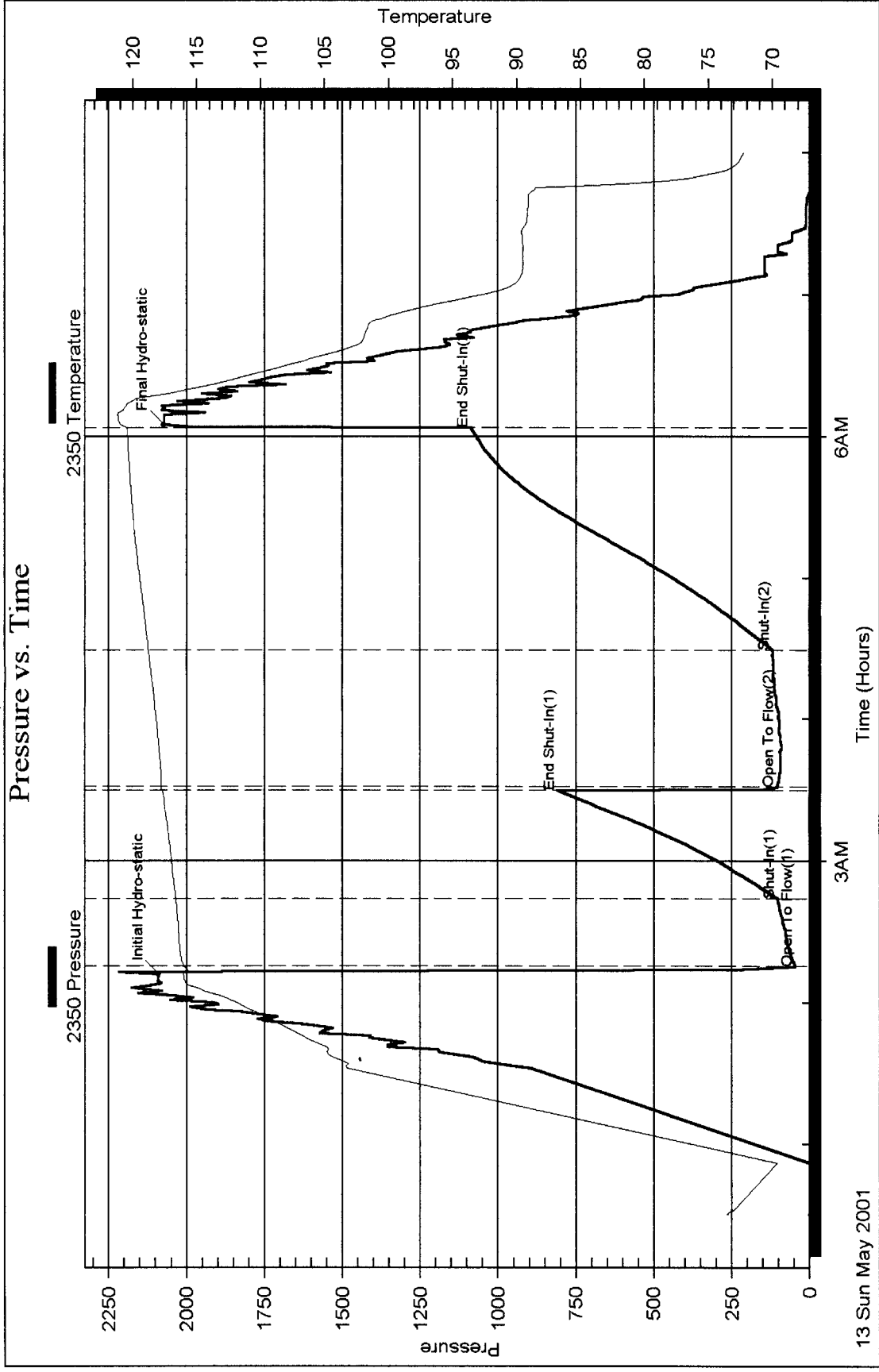
Recovery Information

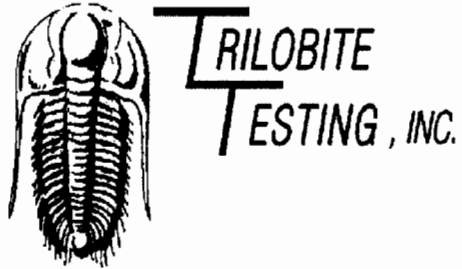
Recovery Table

Length ft	Description	Volume bbl
268.00	Sltly OCGassy M 40%g 3%o 57%m	1.318
60.00	Gassy mud 40% g 60% m	0.842

Total Length: 328.00 ft Total Volume: 2.160 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Gas to surface just before final shut in

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harris Oil & Gas**

1125 17 street ste 2290 Denver Co 80202

ATTN: Vern Shroug

30 30 33 Haskell

Nanninga Trust #1-430

Start Date: 2001.05.13 @ 19:52:38

End Date: 2001.05.14 @ 04:10:08

Job Ticket #: 14536 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Harris Oil & Gas

Nanninga Trust #1-430

30 30 33 Haskell

DST # 3

LKC

2001.05.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

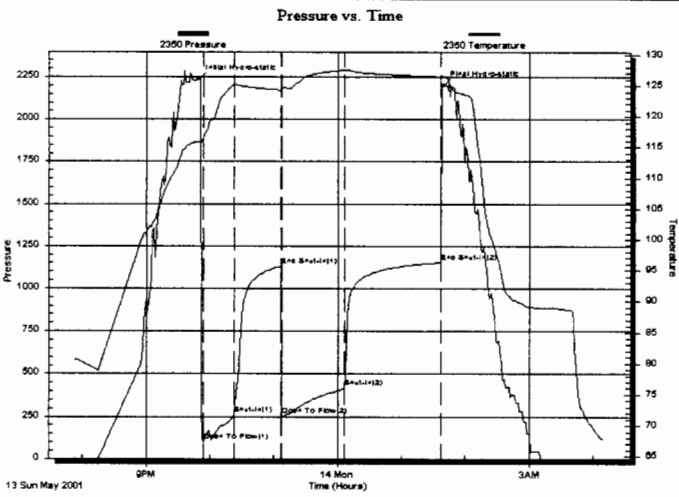
Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14536 **DST#: 3**
Test Start: 2001.05.13 @ 19:52:38

GENERAL INFORMATION:

Formation: **LKC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 21:54:08
Time Test Ended: 04:10:08
Interval: **4546.00 ft (KB) To 4601.00 ft (KB) (TVD)**
Total Depth: **4601.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **21**
Reference Elevations: **2966.00 ft (KB)**
2953.00 ft (CF)
KB to GR/CF: **13.00 ft**

Serial #: 2350 **Inside**
Press@RunDepth: **415.69 psig @ 4550.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2001.05.13** End Date: **2001.05.14** Last Calib.: **2001.01.22**
Start Time: **19:52:39** End Time: **04:10:08** Time On Btm: **2001.05.13 @ 21:48:53**
Time Off Btm: **2001.05.14 @ 01:39:53**

TEST COMMENT: IF-Strong BOB in 30 sec
IS-Weak building to 4"
FF-Strong BOB in 45 sec
FS-Weak building to 6"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.52	115.90	Initial Hydro-static
6	99.90	116.70	Open To Flow (1)
34	257.03	125.21	Shut-In(1)
78	1130.18	124.29	End Shut-In(1)
79	254.93	124.37	Open To Flow (2)
138	415.69	127.52	Shut-In(2)
229	1152.63	126.46	End Shut-In(2)
231	2199.43	126.44	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
279.00	Water Rw .18@80=45000	1.47
372.00	Muddy gassy water 20%g 30%w 50% m	5.22
372.00	Gassy mdu 40%g 60%m	5.22

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harris Oil & Gas

Nanninga Trust #1-430

1125 17 street ste 2290 Denver Co 80202

30 30 33 Haskell

Job Ticket: 14536

DST#: 3

ATTN: Vern Shroug

Test Start: 2001.05.13 @ 19:52:38

Tool Information

Drill Pipe:	Length: 4266.00 ft	Diameter: 3.80 inches	Volume: 59.84 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.16 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4546.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.01 ft			
Tool Length:	83.01 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4519.00	
S.I. Tool	5.00			4524.00	
HMV	5.00			4529.00	
Jars	5.00			4534.00	
Safety Joint	2.00			4536.00	
Packer	5.00			4541.00	28.00 Bottom Of Top Packer
Packer	5.00			4546.00	
Stubb	1.00			4547.00	
Perforations	2.00			4549.00	
C.O. Sub	1.00			4550.00	
Recorder	0.00	2350	Inside	4550.00	
Blank Spacing	31.00			4581.00	
C.O. Sub	1.00			4582.00	
Perforations	17.00			4599.00	
Recorder	0.01	13277	Outside	4599.01	
Bullnose	2.00			4601.01	55.01 Bottom Packers & Anchor
Total Tool Length:	83.01				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14536 DST#: 3
Test Start: 2001.05.13 @ 19:52:38

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.53 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
279.00	Water Rw .18@80=45000	1.472
372.00	Muddy gassy w ater 20%g 30%w 50%m	5.218
372.00	Gassy mdu 40%g 60%m	5.218

Total Length: 1023.00 ft Total Volume: 11.908 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gts on 2nd open TSTM

Serial #: 2350

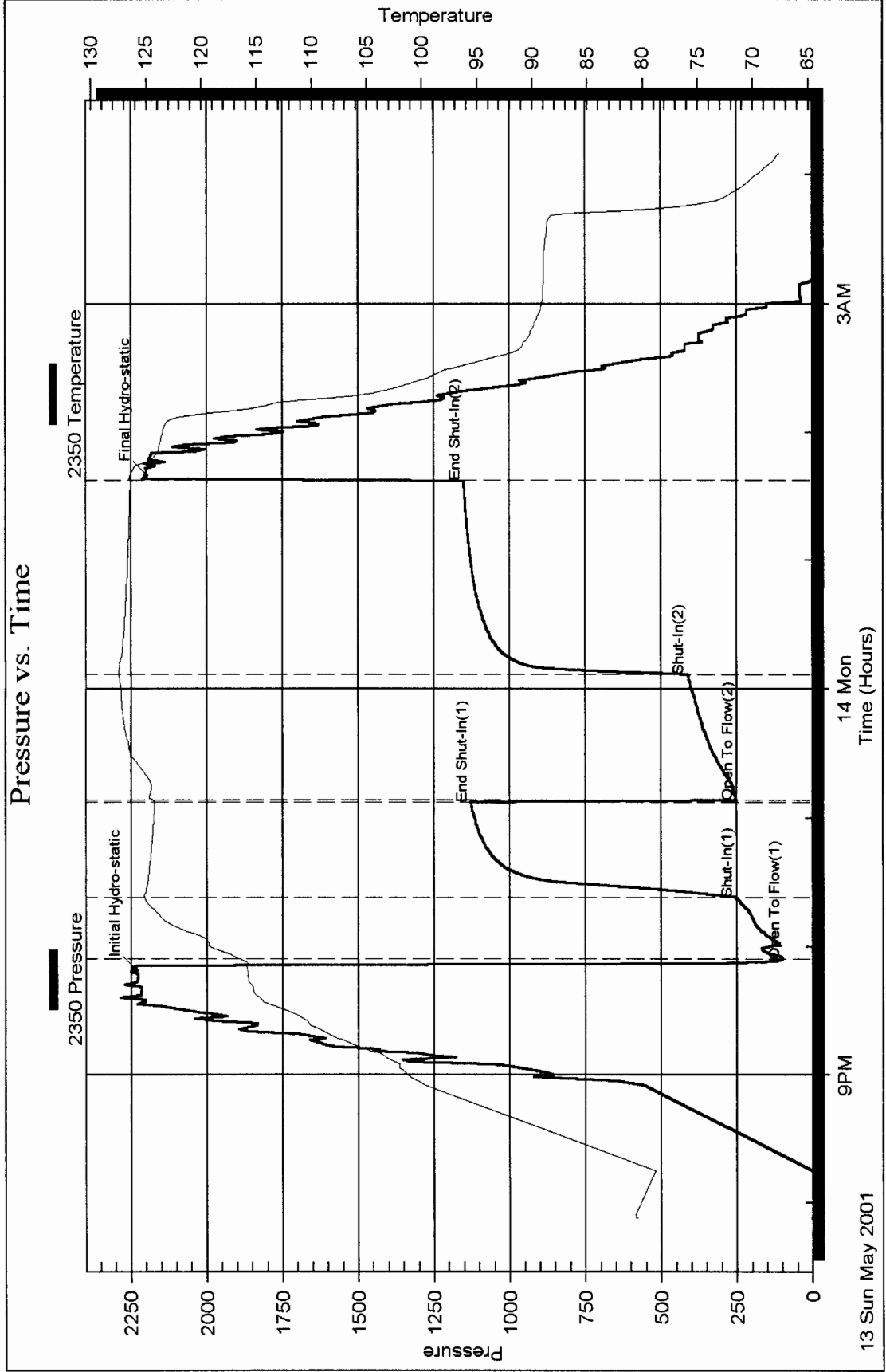
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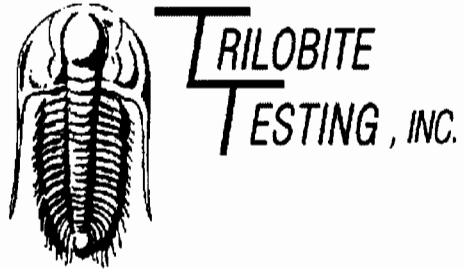
Harris Oil & Gas

30 30 33 Haskell

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harris Oil & Gas**

1125 17 street ste 2290 Denver Co 80202

ATTN: Vern Shroug

30 30 33 Haskell

Nanninga Trust #1-430

Start Date: 2001.05.14 @ 12:31:16

End Date: 2001.05.14 @ 20:27:31

Job Ticket #: 14537 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Harris Oil & Gas

Nanninga Trust #1-430

30 30 33 Haskell

DST # 4

KC

2001.05.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

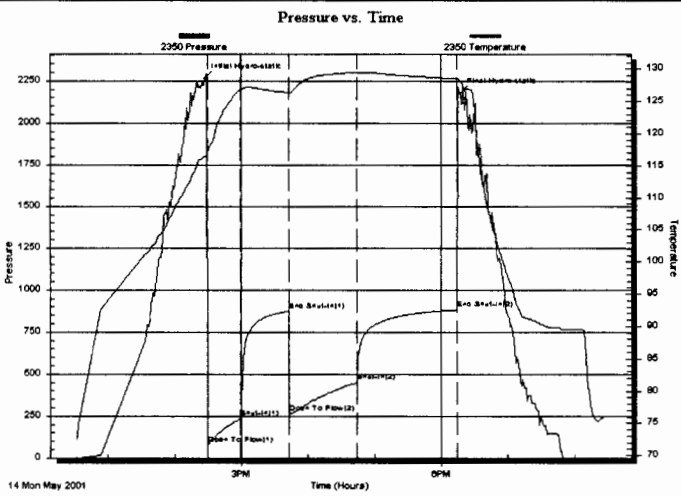
Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14537 **DST#: 4**
Test Start: 2001.05.14 @ 12:31:16

GENERAL INFORMATION:

Formation: **KC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 14:30:01
Time Test Ended: 20:27:31
Interval: **4620.00 ft (KB) To 4658.00 ft (KB) (TVD)**
Total Depth: **4658.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **21**
Reference Elevations: **2966.00 ft (KB)**
2953.00 ft (CF)
KB to GR/CF: **13.00 ft**

Serial #: 2350 **Inside**
Press@RunDepth: **454.40 psig @ 4623.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2001.05.14** End Date: **2001.05.14** Last Calib.: **2001.01.22**
Start Time: **12:31:17** End Time: **20:27:31** Time On Btm: **2001.05.14 @ 14:27:31**
Time Off Btm: **2001.05.14 @ 18:17:31**

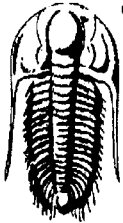
TEST COMMENT: IF-Strong BOB in 1 min
ISI-Weak building to 1/2"
FF-Strong BOB in 6 min-GTS in 25 min TSTM
FSI-Weak building to BOB in 20 min



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.72	116.50	Initial Hydro-static
3	78.69	117.37	Open To Flow (1)
32	238.29	126.86	Shut-In(1)
76	875.39	126.36	End Shut-In(1)
76	266.58	126.25	Open To Flow (2)
138	454.40	129.47	Shut-In(2)
227	882.56	128.54	End Shut-In(2)
230	2177.38	128.13	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
733.00	Water	7.84
153.00	Gassy mud 20%g 80%m	2.15

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14537 **DST#: 4**
Test Start: 2001.05.14 @ 12:31:16

Tool Information

Drill Pipe:	Length: 4343.00 ft	Diameter: 3.80 inches	Volume: 60.92 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: 30000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.24 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4620.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.02 ft			
Tool Length:	66.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4593.00	
S.I. Tool	5.00			4598.00	
HMV	5.00			4603.00	
Jars	5.00			4608.00	
Safety Joint	2.00			4610.00	
Packer	5.00			4615.00	28.00 Bottom Of Top Packer
Packer	5.00			4620.00	
Stubb	1.00			4621.00	
Perforations	2.00			4623.00	
Recorder	0.01	2350	Inside	4623.01	
Perforations	33.00			4656.01	
Recorder	0.01	13277	Outside	4656.02	
Bullnose	2.00			4658.02	38.02 Bottom Packers & Anchor

Total Tool Length: 66.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14537 **DST#: 4**
Test Start: 2001.05.14 @ 12:31:16

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	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
733.00	Water	7.841
153.00	Gassy mud 20%g 80%m	2.146

Total Length: 886.00 ft Total Volume: 9.987 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 2350

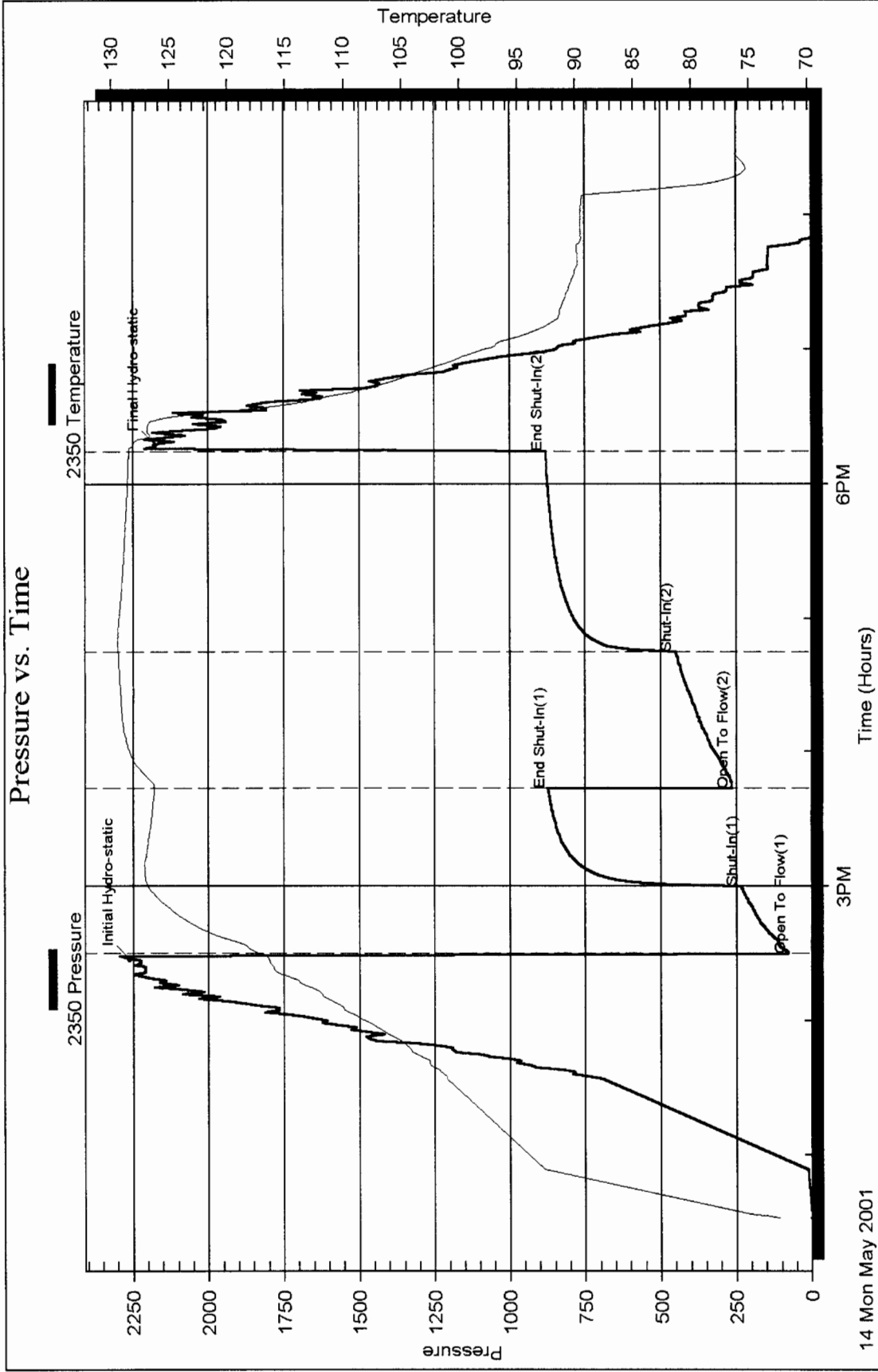
Inside

Harris Oil & Gas

30 30 33 Haskell

DST Test Number: 4

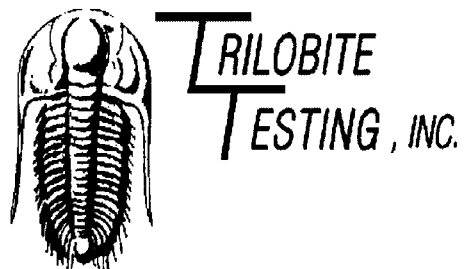
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 14537

Printed: 2001.05.22 @ 09:48:32 Page 5



DRILL STEM TEST REPORT

Prepared For: **Harris Oil & Gas**

1125 17 street ste 2290 Denver Co 80202

ATTN: Vern Shroug

30 30 33 Haskell

Nanninga Trust #1-430

Start Date: 2001.05.15 @ 23:20:26

End Date: 2001.05.16 @ 08:28:10

Job Ticket #: 14538 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

Harris Oil & Gas
 1125 17 street ste 2290 Denver Co 80202
 ATTN: Vern Shroug

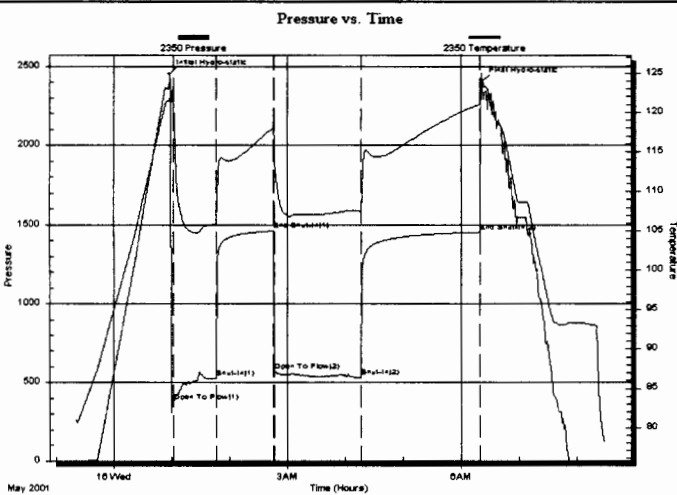
Nanninga Trust #1-430
30 30 33 Haskell
 Job Ticket: 14538 **DST#: 5**
 Test Start: 2001.05.15 @ 23:20:26

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:01:55
 Time Test Ended: 08:28:10
 Interval: **4962.00 ft (KB) To 4987.00 ft (KB) (TVD)**
 Total Depth: 4987.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Blake Wallace
 Unit No: 20
 Reference Elevations: 2966.00 ft (KB)
 2953.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 2350 **Inside**
 Press@RunDepth: 533.05 psig @ 4965.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.05.15 End Date: 2001.05.16 Last Calib.: 2001.01.22
 Start Time: 23:20:26 End Time: 08:28:10 Time On Btm: 2001.05.16 @ 00:57:40
 Time Off Btm: 2001.05.16 @ 06:21:25

TEST COMMENT: IF-strong blow bottom of bucket in 30 sec gas to surface in 6 min
 IS- bled off in 26 min
 FF-strong blow BOB as soon as open
 FS- bled off in 30 min



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2452.38	121.50	Initial Hydro-static
5	373.73	121.56	Open To Flow (1)
49	525.40	105.89	Shut-In(1)
108	1460.51	118.08	End Shut-In(1)
109	570.46	113.42	Open To Flow (2)
199	533.05	107.50	Shut-In(2)
322	1448.71	121.07	End Shut-In(2)
324	2402.13	124.47	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)

Gas Rates			
	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	86.00	2869.82
Last Gas Rate	1.00	160.00	4985.03
Max. Gas Rate	1.00	160.00	4985.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202
ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14538 **DST#: 5**
Test Start: 2001.05.15 @ 23:20:26

Tool Information

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 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: 30000.00 lb
Drill Collar:	Length: 631.00 ft	Diameter: 2.25 inches	Volume: 3.10 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 63.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	4962.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4936.00	
S.I. Tool	5.00			4941.00	
HMV	5.00			4946.00	
Jars	5.00			4951.00	
Safety Joint	2.00			4953.00	
Packer	5.00			4958.00	27.00 Bottom Of Top Packer
Packer	4.00			4962.00	
Stubb	1.00			4963.00	
Perforations	2.00			4965.00	
Recorder	0.00	2350	Inside	4965.00	
Perforations	20.00			4985.00	
Recorder	0.00	13277	Outside	4985.00	
Bullnose	2.00			4987.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harris Oil & Gas
1125 17 street ste 2290 Denver Co 80202

ATTN: Vern Shroug

Nanninga Trust #1-430
30 30 33 Haskell
Job Ticket: 14538 **DST#: 5**
Test Start: 2001.05.15 @ 23:20:26

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

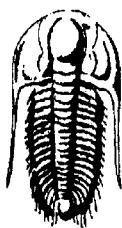
Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Harris Oil & Gas

Nanninga Trust #1-430

1125 17 street ste 2290 Denver Co 80202

30 30 33 Haskell

Job Ticket: 14538

DST#: 5

ATTN: Vern Shroug

Test Start: 2001.05.15 @ 23:20:26

Gas Rates Information

Temperature: 65 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	1.00	86.00	2869.82
1	15	1.00	125.00	3984.59
1	20	1.00	150.00	4699.19
1	25	1.00	150.00	4699.19
1	30	1.00	150.00	4699.19
1	35	1.00	150.00	4699.19
1	40	1.00	150.00	4699.19
1	45	1.00	150.00	4699.19
2	5	1.00	125.00	3984.59
2	10	1.00	150.00	4699.19
2	15	1.00	160.00	4985.03
2	20	1.00	160.00	4985.03
2	25	1.00	160.00	4985.03
2	30	1.00	160.00	4985.03
2	35	1.00	160.00	4985.03
2	40	1.00	160.00	4985.03
2	45	1.00	160.00	4985.03
2	50	1.00	160.00	4985.03
2	55	1.00	160.00	4985.03
2	60	1.00	160.00	4985.03
2	65	1.00	160.00	4985.03
2	70	1.00	160.00	4985.03
2	75	1.00	160.00	4985.03
2	80	1.00	160.00	4985.03
2	85	1.00	160.00	4985.03
2	90	1.00	160.00	4985.03

Serial #: 2350

Inside

Harris Oil & Gas

30 30 33 Haskell

DST Test Number: 5

