

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Norstar Petro. Inc**

5 Inverness Drive East
Suite 120
Englewood, Colo 80112

ATTN: Norstar Petro. Inc

KCC

34-20-23 Ness, Ks JUL 26 2004

Byrom #2-34

CONFIDENTIAL

RECEIVED

Start Date: 2004.05.19 @ 21:00:05

End Date: 2004.05.20 @ 05:17:29

Job Ticket #: 19076

DST #: 1

JUL 28 2004

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Norstar Petro. Inc

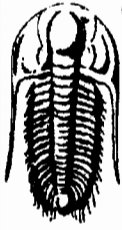
Byrom #2-34

34-20-23 Ness, Ks

DST # 1

Cherokee

2004.05.19



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Byrom #2-34
34-20-23 Ness, Ks
Job Ticket: 19076 **DST#: 1**
Test Start: 2004.05.19 @ 21:00:05

GENERAL INFORMATION:

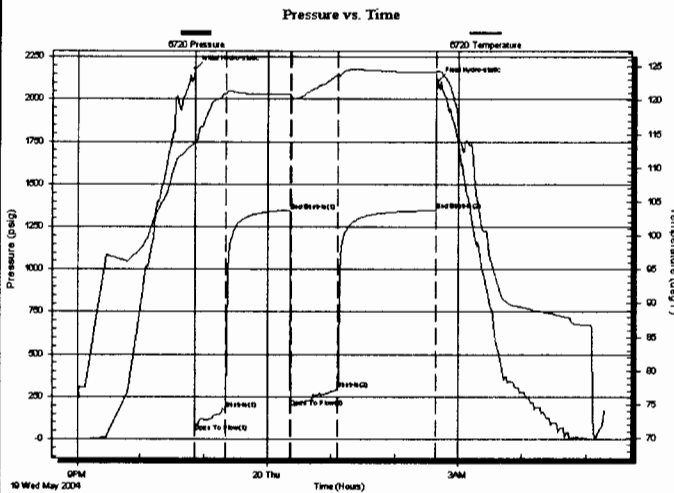
Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:51:15
Time Test Ended: 05:17:29
Interval: **4290.00 ft (KB) To 4368.00 ft (KB) (TVD)**
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 25
Reference Elevations: 2226.00 ft (KB)
2221.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6720

Inside

Press@RunDepth: 294.42 psig @ 4291.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.05.19 End Date: 2004.05.20 Last Calib.: 1899.12.30
Start Time: 21:00:05 End Time: 05:17:29 Time On Btm: 2004.05.19 @ 22:51:00
Time Off Btm: 2004.05.20 @ 02:40:15

TEST COMMENT: 1/2" in. @ open, B.O.B. in 13 min.
1" in. return blow, died in 40 min.
1/2" in. @ open, B.O.B. in 14 min.
1/2" in. return blow, died in 30 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.28	113.83	Initial Hydro-static
1	37.61	113.51	Open To Flow (1)
30	177.69	120.94	Shut-In(1)
90	1342.44	120.93	End Shut-In(1)
91	184.84	120.64	Open To Flow (2)
135	294.42	123.79	Shut-In(2)
228	1346.31	124.16	End Shut-In(2)
230	2111.07	124.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	s g & m c o 10%g 15%m 75%o	2.11
240.00	s g o c m 10%g 30%o 60%m	3.37
120.00	c g o 10%g 90%o	1.68

Gas Rates

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



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TOOL DIAGRAM

Norstar Petro. Inc
5 Inverness Drive East
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ATTN: Norstar Petro. Inc

Byrom #2-34
34-20-23 Ness, Ks
Job Ticket: 19076 **DST#: 1**
Test Start: 2004.05.19 @ 21:00:05

Tool Information

Drill Pipe:	Length: 4090.00 ft	Diameter: 3.80 inches	Volume: 57.37 bbl	Tool Weight: 1500.00 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: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4290.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	100.00 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			4269.00	
Shut In Tool	5.00			4274.00	
Hydraulic tool	5.00			4279.00	
Safety Joint	2.00			4281.00	
Packer	5.00			4286.00	22.00 Bottom Of Top Packer
Packer	4.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	6720	Inside	4291.00	
Perforations	8.00			4299.00	
Change Over Sub	1.00			4300.00	
Drill Pipe	62.00			4362.00	
Change Over Sub	1.00			4363.00	
Recorder	0.00	2023	Outside	4363.00	
Bullnose	5.00			4368.00	78.00 Bottom Packers & Anchor

Total Tool Length: 100.00

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FLUID SUMMARY

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5 Inverness Drive East
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Byrom #2-34
34-20-23 Ness, Ks
Job Ticket: 19076 DST#: 1
Test Start: 2004.05.19 @ 21:00:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.56 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	s g & m c o 10%g 15%m 75%o	2.111
240.00	s g o c m 10%g 30%o 60%m	3.367
120.00	c g o 10%g 90%o	1.683

Total Length: 630.00 ft Total Volume: 7.161 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

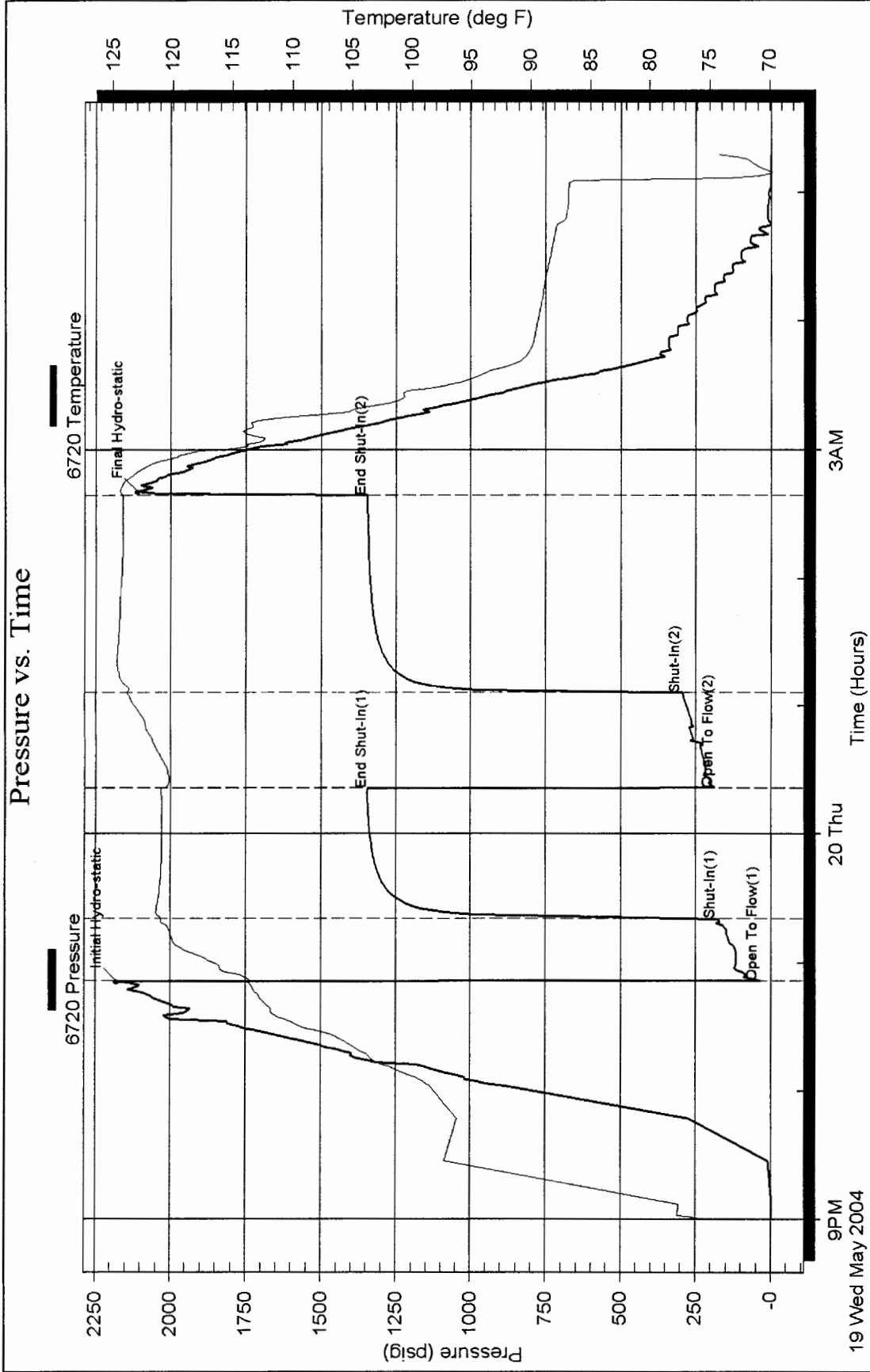
Serial #: 6720

Inside

Norstar Petro. Inc

34-20-23 Ness, Ks

DST Test Number: 1



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Trilobite Testing, Inc

Ref. No: 19076

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