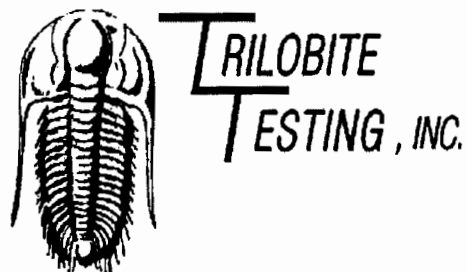


15-033-21394

8-35s-16w



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.18 @ 13:33:15

End Date: 2004.03.18 @ 22:00:15

Job Ticket #: 18646 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

Mcmoran #4

8-35s-16w

Job Ticket: 18646

DST#: 1

Test Start: 2004.03.18 @ 13:33:15

GENERAL INFORMATION:

Formation: **Lansing G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:15

Time Test Ended: 22:00:15

Test Type: Conventional Bottom Hole

Tester: Nick Budig

Unit No: 19

Interval: **4798.00 ft (KB) To 4819.00 ft (KB) (TVD)**

Total Depth: 4819.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1847.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6625

Inside

Press@RunDepth: 42.00 psig @ 4799.00 ft (KB)

Start Date: 2004.03.18

End Date: 2004.03.18

Start Time: 13:33:20

End Time: 22:00:14

Capacity: 7000.00 psig

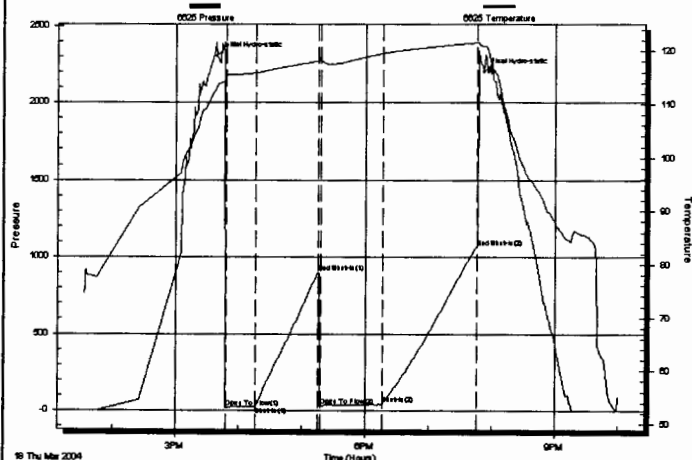
Last Calib.: 2004.03.18

Time On Btm: 2004.03.18 @ 15:39:15

Time Off Btm: 2004.03.18 @ 19:52:15

TEST COMMENT: IF- Strong Blow obb in 1 min
IS- No Blow
FF- Strong Blow obb as soon as tool opened
FSI- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.27	113.27	Initial Hydro-static
9	21.25	115.50	Open To Flow (1)
37	27.11	115.91	Shut-In(1)
96	903.36	118.15	End Shut-In(1)
99	34.70	118.28	Open To Flow (2)
157	42.00	119.55	Shut-In(2)
246	1065.66	121.62	End Shut-In(2)
253	2199.10	120.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mud 10% water 90% mud	0.30
	1300' gas in pipe	

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18646

DST#: 1

Test Start: 2004.03.18 @ 13:33:15

Tool Information

Drill Pipe:	Length: 4590.00 ft	Diameter: 3.38 inches	Volume: 50.94 bbl	Tool Weight: 2200.00 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume:	51.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4798.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 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			4772.00	
Shut In Tool	5.00			4777.00	
Hydraulic tool	5.00			4782.00	
Jars	5.00			4787.00	
Safety Joint	2.00			4789.00	
Packer	5.00			4794.00	27.00 Bottom Of Top Packer
Packer	4.00			4798.00	
Stubb	1.00			4799.00	
Recorder	0.00	6625	Inside	4799.00	
Perforations	17.00			4816.00	
Recorder	0.00	10991	Outside	4816.00	
Bullnose	3.00			4819.00	21.00 Bottom Packers & Anchor

Total Tool Length: 48.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market

8-35s-16w

Suite 1000

Job Ticket: 18646

DST#: 1

Wichita, Ks 67202

Test Start: 2004.03.18 @ 13:33:15

ATTN: Mike Maune

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: 11.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Mud 10% water 90% mud	0.305
	1300' gas in pipe	

Total Length: 62.00 ft

Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6625

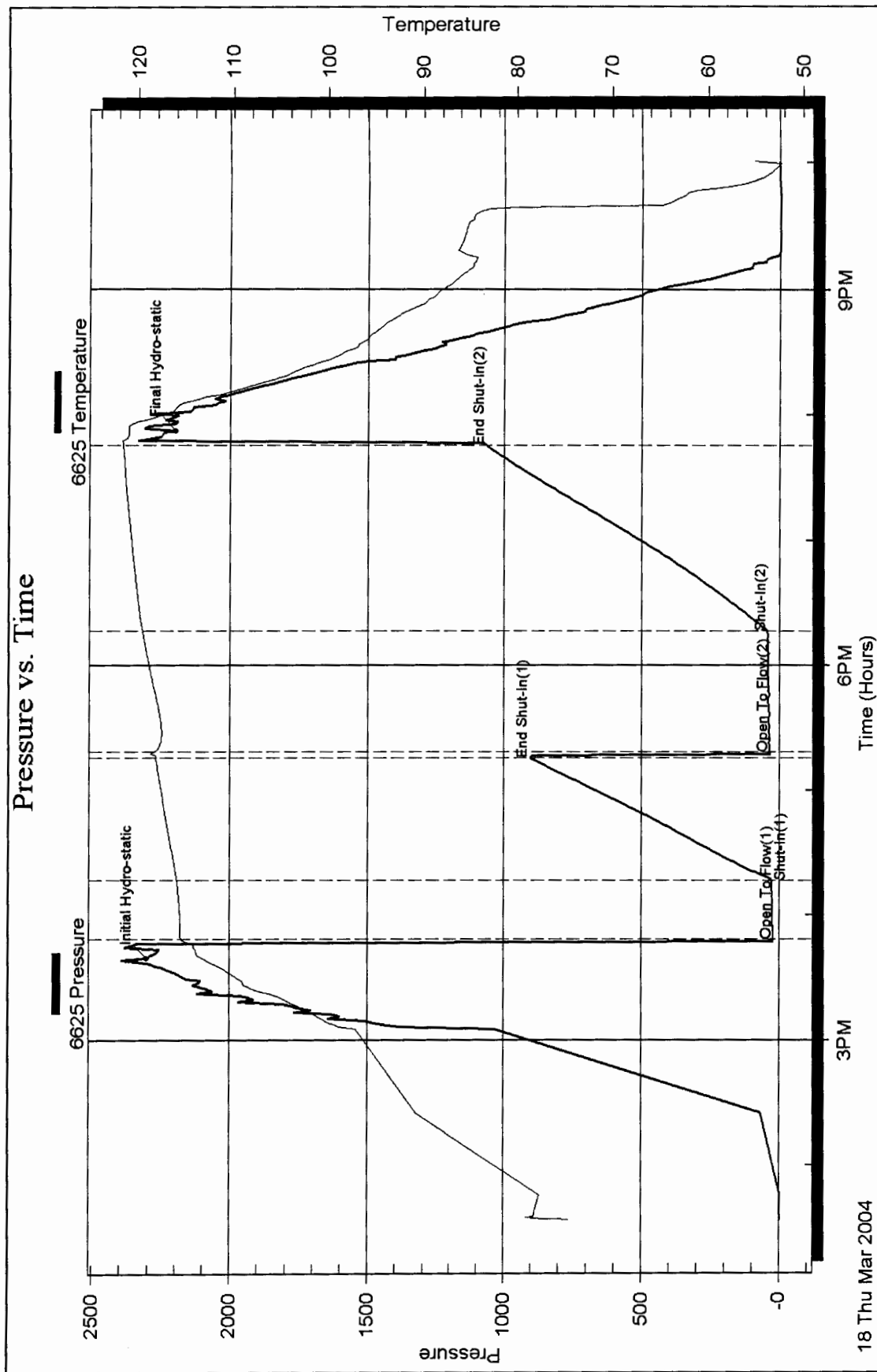
Inside

Woodsey Operating Co

8-35s-16w

DST Test Number: 1

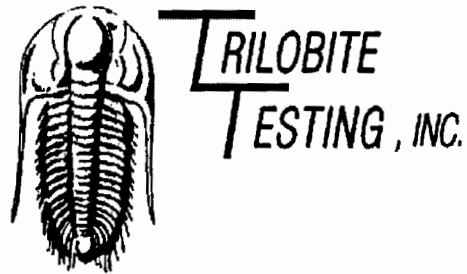
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 18646

Printed: 2004.04.06 @ 13:21:22 Page 5



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.19 @ 14:04:24

End Date: 2004.03.19 @ 22:38:09

Job Ticket #: 18647 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

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

Mcmoran #4

8-35s-16w

Job Ticket: 18647

DST#: 2

Test Start: 2004.03.19 @ 14:04:24

GENERAL INFORMATION:

Formation: **Swope**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:55:24

Time Test Ended: 22:38:09

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **4918.00 ft (KB) To 4953.00 ft (KB) (TVD)**

Total Depth: **4953.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **1860.00 ft (KB)**

1847.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **119.81 psig @ 4923.00 ft (KB)**

Start Date: **2004.03.19**

End Date:

2004.03.19

Start Time: **14:04:29**

End Time:

22:38:09

Capacity: **7000.00 psig**

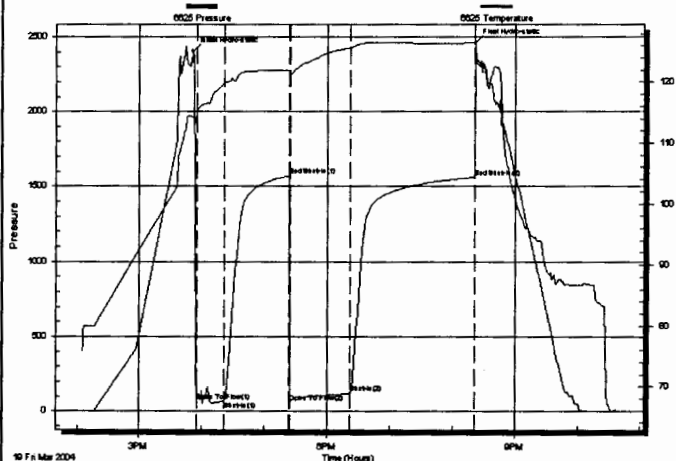
Last Calib.: **2004.03.19**

Time On Btm: **2004.03.19 @ 15:51:54**

Time Off Btm: **2004.03.19 @ 20:22:24**

TEST COMMENT: IF: Strong blow b.o.b in 30 sec.
IS: Bled down for 10 mins. no blow back.
FF: Strong blow b.o.b in 15 sec. GTS in 30 sec. gauge gas.
FS: Bled down for 10 mins. no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2403.79	114.27	Initial Hydro-static
4	62.89	115.22	Open To Flow (1)
31	63.17	119.89	Shut-In (1)
92	1569.97	121.92	End Shut-In (1)
93	60.54	121.33	Open To Flow (2)
150	119.81	125.72	Shut-In (2)
270	1560.27	126.50	End Shut-In (2)
271	2462.00	125.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4611' of gip	0.00
186.00	SG&MCW 8% gas 52% water 40% mud	0.91
105.00	SGCMW 4% gas 36% water 60% mud	1.47

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.50	25.22
Last Gas Rate	0.13	0.00	5.39
Max. Gas Rate	0.13	4.00	6.89



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18647

DST#: 2

Test Start: 2004.03.19 @ 14:04:24

Tool Information

Drill Pipe:	Length: 4715.66 ft	Diameter: 3.80 inches	Volume: 66.15 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.34 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 86000.00 lb
		Total Volume:	67.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4918.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4890.00	
Shut In Tool	5.00			4895.00	
Hydraulic tool	5.00			4900.00	
Jars	5.00			4905.00	
Safety Joint	3.00			4908.00	
Packer	5.00			4913.00	29.00 Bottom Of Top Packer
Packer	5.00			4918.00	
Stubb	1.00			4919.00	
Anchor	4.00			4923.00	
Recorder	0.00	6625	Inside	4923.00	
Anchor	27.00			4950.00	
Recorder	0.00	10991	Outside	4950.00	
Bullnose	3.00			4953.00	35.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market

8-35s-16w

Suite 1000

Job Ticket: 18647

DST#: 2

Wichita, Ks 67202

Test Start: 2004.03.19 @ 14:04:24

ATTN: Mike Maune

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:

90000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.34 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4611' of gip	0.000
186.00	SG&MCW 8% gas 52% water 40% mud	0.915
105.00	SGCMW 4% gas 36% water 60% mud	1.470

Total Length: 291.00 ft

Total Volume: 2.385 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: .09@75°degrees



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18647

DST#:2

Test Start: 2004.03.19 @ 14:04:24

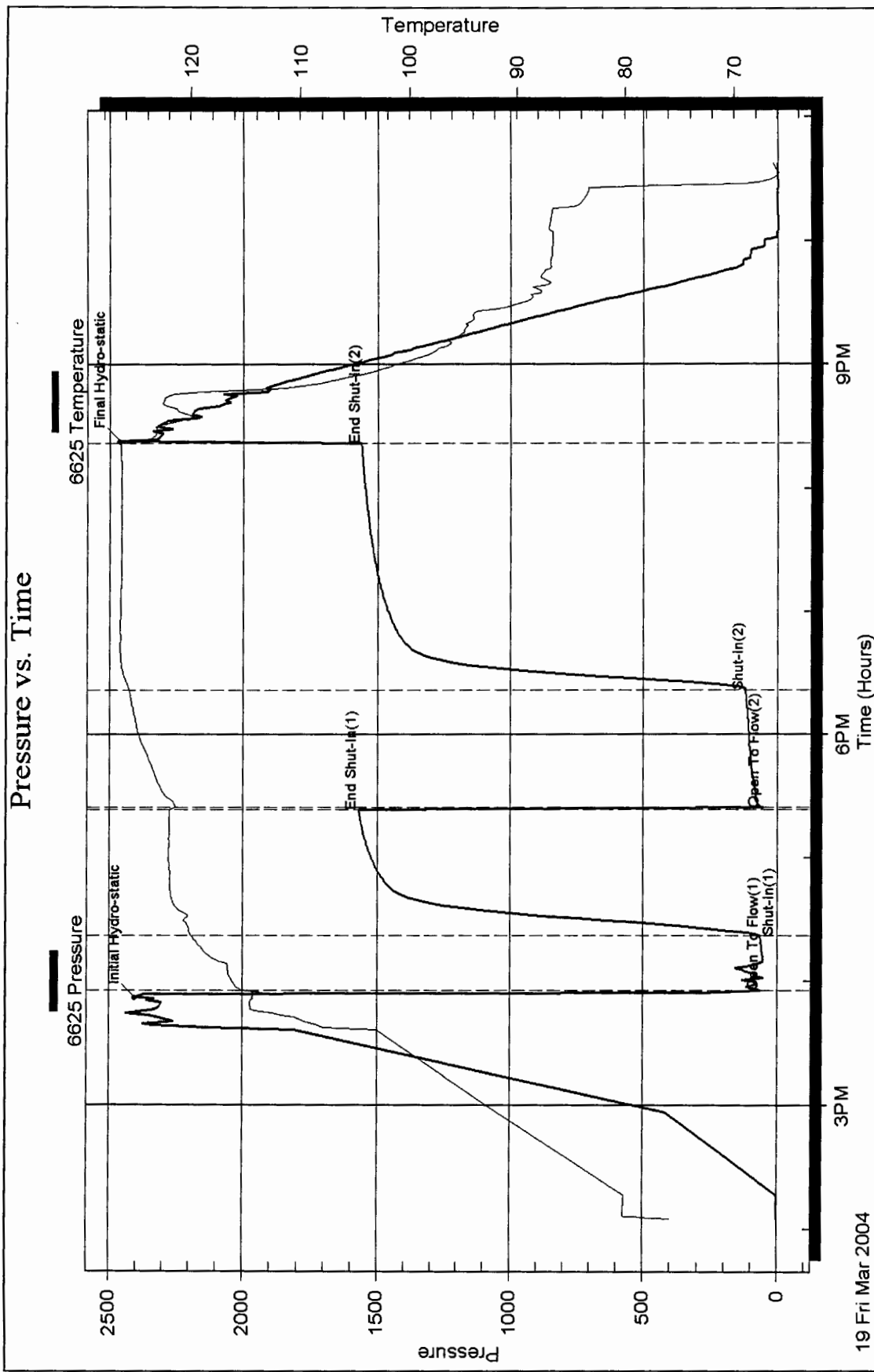
Gas Rates Information

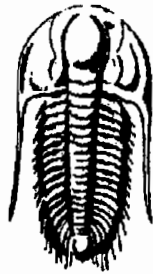
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	1.50	25.22
2	10	0.25	2.00	26.02
2	15	0.13	1.50	5.95
2	20	0.13	2.20	6.21
2	25	0.13	2.50	6.33
2	30	0.13	2.80	6.44
2	35	0.13	3.20	6.59
2	40	0.13	3.20	6.59
2	45	0.13	3.40	6.66
2	50	0.13	3.60	6.74
2	55	0.13	3.80	6.81
2	60	0.13	4.00	6.89
0	0	0.13	0.00	5.39

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.20 @ 10:02:01

End Date: 2004.03.20 @ 18:35:01

Job Ticket #: 18648 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

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

Mcmoran #4

8-35s-16w

Job Ticket: 18648

DST#: 3

Test Start: 2004.03.20 @ 10:02:01

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 11:48:31

Time Test Ended: 18:35:01

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **4966.00 ft (KB) To 5011.00 ft (KB) (TVD)**

Total Depth: **5011.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **1860.00 ft (KB)**

1847.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **93.97 psig @ 4971.00 ft (KB)**

Start Date: **2004.03.20**

End Date: **2004.03.20**

Start Time: **10:02:06**

End Time: **18:35:01**

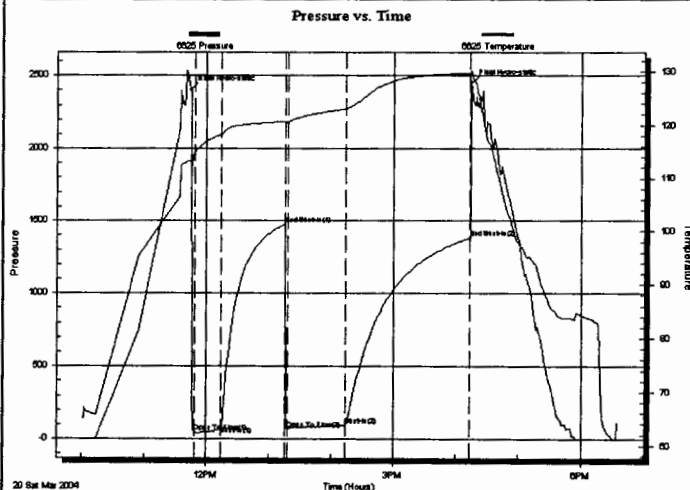
Capacity: **7000.00 psig**

Last Calib.: **2004.03.20**

Time On Btm: **2004.03.20 @ 11:44:46**

Time Off Btm: **2004.03.20 @ 16:14:46**

TEST COMMENT: IF: Strong blow b.o.b in 30 sec. GTS in 18 mins. Gauge gas
IS: Bled down n for 10 mins. no blow back
FF: Strong blow b.o.b in 10 sec. gauge gas.
FS: Bled down n for 10 mins. no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2402.11	113.29	Initial Hydro-static
4	49.74	114.84	Open To Flow (1)
30	88.69	118.33	Shut-In (1)
91	1477.12	120.74	End Shut-In (1)
94	69.85	120.67	Open To Flow (2)
150	93.97	123.08	Shut-In (2)
269	1380.53	129.62	End Shut-In (2)
270	2450.33	130.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4691' of gip	0.00
211.00	HG&CCM 30% gas 20% condensate 50% r1.26	
60.00	HGC&CCMW 20% gas 10% condensate 200.84 40% mud	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.00	6.14
Last Gas Rate	0.13	0.30	5.50
Max. Gas Rate	0.13	8.50	8.57



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18648

DST#: 3

Test Start: 2004.03.20 @ 10:02:01

Tool Information

Drill Pipe:	Length: 4775.66 ft	Diameter: 3.80 inches	Volume: 66.99 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.34 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 84000.00 lb
		Total Volume:	67.91 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4966.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	74.00 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			4938.00	
Shut In Tool	5.00			4943.00	
Hydraulic tool	5.00			4948.00	
Jars	5.00			4953.00	
Safety Joint	3.00			4956.00	
Packer	5.00			4961.00	29.00 Bottom Of Top Packer
Packer	5.00			4966.00	
Stubb	1.00			4967.00	
Anchor	4.00			4971.00	
Recorder	0.00	6625	Inside	4971.00	
Anchor	37.00			5008.00	
Recorder	0.00	10991	Outside	5008.00	
Bullnose	3.00			5011.00	45.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market

8-35s-16w

Suite 1000

Job Ticket: 18648

DST#: 3

Wichita, Ks 67202

Test Start: 2004.03.20 @ 10:02:01

ATTN: Mike Maune

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: 77000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.94 in³

Gas Cushion Type:

Resistivity: 0.09 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4691' of gip	0.000
211.00	HG&CCM 30%gas 20%condensate 50%mud	1.262
60.00	HGC&CCMW 20%gas 10%condensate 20%W	0.842

Total Length: 271.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: 0.19@75'=77000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18648

DST#: 3

Test Start: 2004.03.20 @ 10:02:01

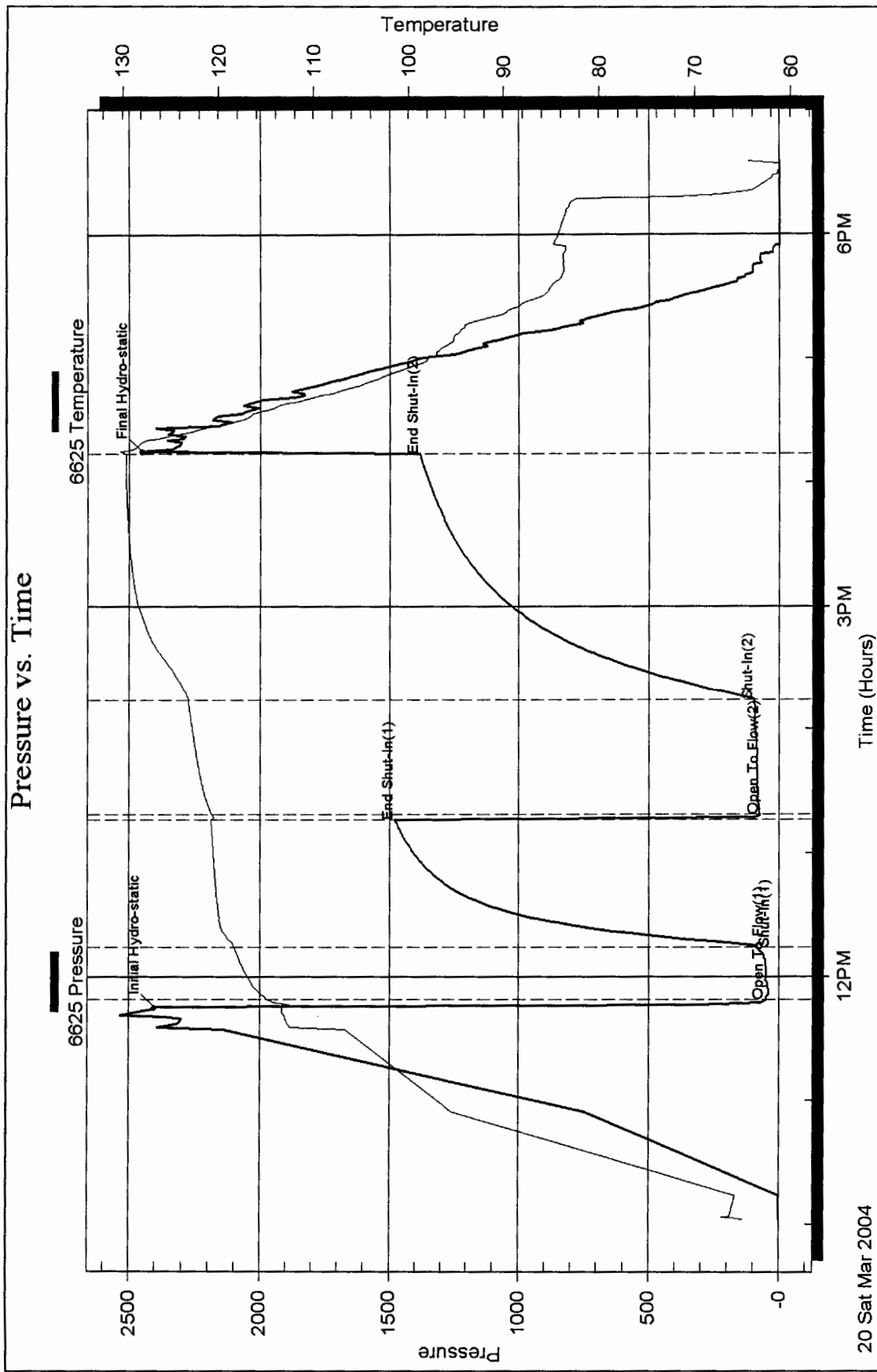
Gas Rates Information

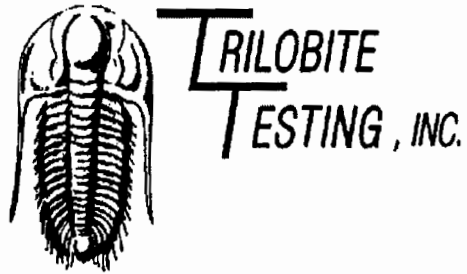
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	23	0.13	2.00	6.14
1	23	0.13	2.00	6.14
1	28	0.13	2.20	6.21
1	30	0.13	2.20	6.21
2	5	0.13	8.50	8.57
2	10	0.13	7.00	8.01
2	15	0.13	6.00	7.63
2	20	0.13	4.50	7.07
2	25	0.13	3.50	6.70
2	30	0.13	2.30	6.25
2	35	0.13	2.20	6.21
2	40	0.13	1.20	5.84
2	45	0.13	1.00	5.76
2	50	0.13	1.00	5.76
2	55	0.13	0.40	5.54
2	60	0.13	0.30	5.50

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.21 @ 18:09:08

End Date: 2004.03.22 @ 02:17:08

Job Ticket #: 18649 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

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

Mcmoran #4

8-35s-16w

Job Ticket: 18649

DST#: 4

Test Start: 2004.03.21 @ 18:09:08

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:11:08

Time Test Ended: 02:17:08

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **5142.00 ft (KB) To 5175.00 ft (KB) (TVD)**

Total Depth: **5175.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **1860.00 ft (KB)**

1847.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **35.91 psig @ 5145.00 ft (KB)**

Start Date: **2004.03.21**

End Date: **2004.03.22**

Capacity: **7000.00 psig**

Last Calib.: **2004.03.22**

Start Time: **18:09:13**

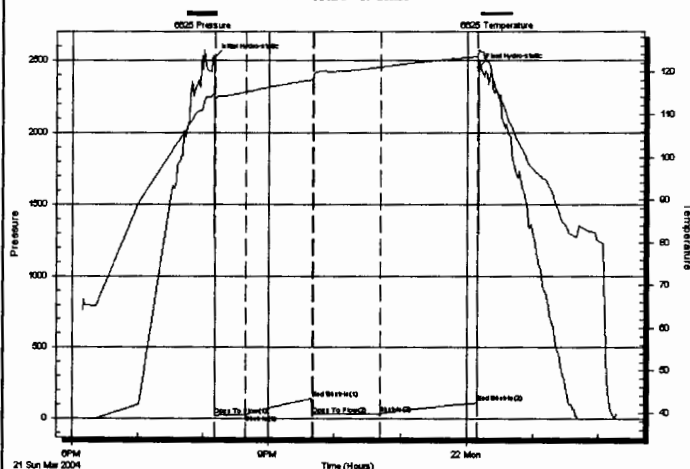
End Time: **02:17:07**

Time On Btm: **2004.03.21 @ 20:10:08**

Time Off Btm: **2004.03.22 @ 00:10:23**

TEST COMMENT: IF:Weak surface blow built to 2" in H₂O bucket.
IS:Bled down n for 5 mins.no blow back.
FF:Weak surface blow built to 1-1/2" in H₂O bucket.
FS:Bled down n for 10 mins.no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2517.36	114.70	Initial Hydro-static
1	20.23	113.74	Open To Flow (1)
30	28.79	115.20	Shut-In(1)
90	142.26	118.07	End Shut-In(1)
91	30.71	119.47	Open To Flow (2)
151	35.91	121.02	Shut-In(2)
240	112.80	123.48	End Shut-In(2)
241	2453.21	125.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
45.00	VSGM 4% gas 96% mud	0.22

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202

8-35s-16w

Job Ticket: 18649

DST#: 4

ATTN: Mike Maune

Test Start: 2004.03.21 @ 18:09:08

Tool Information

Drill Pipe:	Length: 4930.66 ft	Diameter: 3.80 inches	Volume: 69.16 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.34 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	70.08 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5142.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

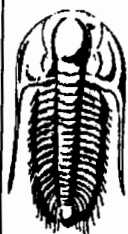
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			5114.00	
Shut In Tool	5.00			5119.00	
Hydraulic tool	5.00			5124.00	
Jars	5.00			5129.00	
Safety Joint	3.00			5132.00	
Packer	5.00			5137.00	29.00 Bottom Of Top Packer
Packer	5.00			5142.00	
Stubb	1.00			5143.00	
Anchor	2.00			5145.00	
Recorder	0.00	6625	Inside	5145.00	
Anchor	27.00			5172.00	
Recorder	0.00	10991	Outside	5172.00	
Bullnose	3.00			5175.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market

8-35s-16w

Suite 1000

Job Ticket: 18649

DST#: 4

Wichita, Ks 67202

Test Start: 2004.03.21 @ 18:09:08

ATTN: Mike Maune

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: 9.17 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
45.00	VSGCM 4%gas 96%mud	0.221

Total Length: 45.00 ft

Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

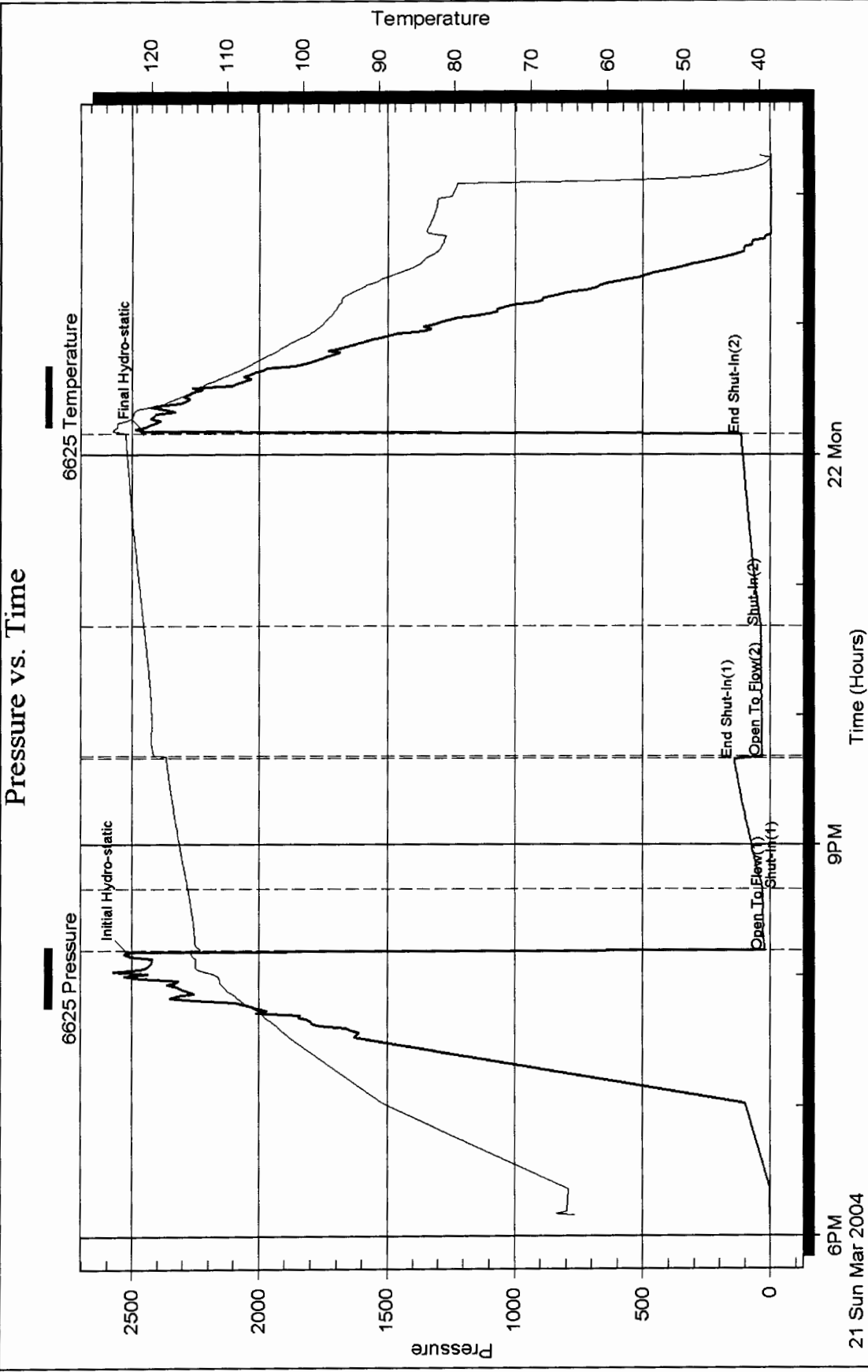
8-35s-16w

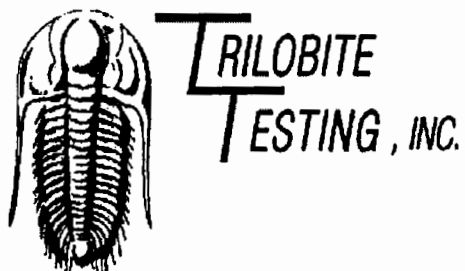
Woolsey Operating Co

Inside

Serial #: 6625

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.22 @ 22:39:22

End Date: 2004.03.23 @ 07:54:07

Job Ticket #: 18650 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

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

Mcmoran #4

8-35s-16w

Job Ticket: 18650

DST#: 5

Test Start: 2004.03.22 @ 22:39:22

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:57:07

Time Test Ended: 07:54:07

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No:

Interval: 5240.00 ft (KB) To 5300.00 ft (KB) (TVD)

Total Depth: 5300.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1847.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6625 Inside

Press@RunDepth: 95.62 psig @ 5242.00 ft (KB)

Start Date: 2004.03.22

End Date:

2004.03.23

Start Time: 22:39:27

End Time:

07:54:07

Capacity: 7000.00 psig

Last Calib.: 2004.03.23

Time On Btm: 2004.03.23 @ 00:53:37

Time Off Btm: 2004.03.23 @ 05:27:52

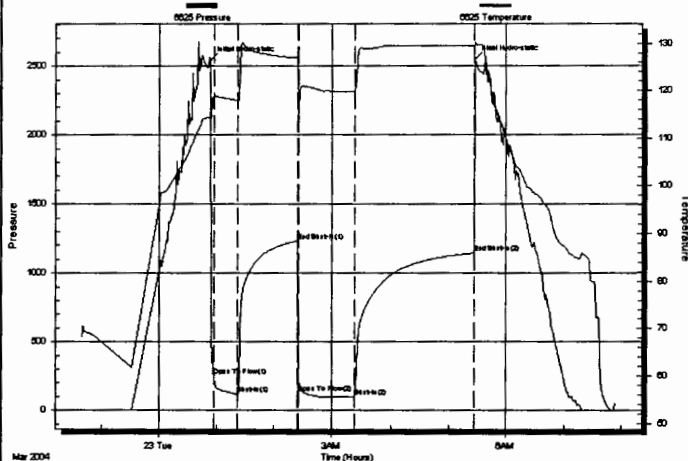
TEST COMMENT: IF: Strong blow b.o.b in 30 sec GTS in 3 mins. gauge gas.

IS: Bled down n for 10 mins. no blow back.

FF: Strong blow b.o.b in 10 sec. gauge gas.

FS: Bled down n for 10 mins. no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2546.07	114.44	Initial Hydro-static
4	250.42	118.82	Open To Flow (1)
28	118.55	118.00	Shut-In (1)
91	1232.68	127.04	End Shut-In (1)
93	128.93	115.96	Open To Flow (2)
150	95.62	119.79	Shut-In (2)
274	1146.16	129.54	End Shut-In (2)
275	2553.38	130.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5001' of gip	0.00
241.00	SGCM 10% gas 90% mud	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	20.20	540.45
Last Gas Rate	0.50	22.00	245.54
Max. Gas Rate	0.50	24.00	259.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18650

DST#: 5

Test Start: 2004.03.22 @ 22:39:22

Tool Information

Drill Pipe:	Length: 5056.66 ft	Diameter: 3.80 inches	Volume: 70.93 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.34 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	71.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5240.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	89.00 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			5212.00	
Shut In Tool	5.00			5217.00	
Hydraulic tool	5.00			5222.00	
Jars	5.00			5227.00	
Safety Joint	3.00			5230.00	
Packer	5.00			5235.00	29.00 Bottom Of Top Packer
Packer	5.00			5240.00	
Stubb	2.00			5242.00	
Recorder	0.00	6625	Inside	5242.00	
Anchor	23.00			5265.00	
Recorder	0.00	10991	Outside	5265.00	
Blank Spacing	32.00			5297.00	
Bullnose	3.00			5300.00	60.00 Bottom Packers & Anchor

Total Tool Length: 89.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market

8-35s-16w

Suite 1000

Job Ticket: 18650

DST#: 5

Wichita, Ks 67202

ATTN: Mike Maune

Test Start: 2004.03.22 @ 22:39:22

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: 7.58 in³

Gas Cushion Type:

Resistivity: 0.09 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 32.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5001' of gip	0.000
241.00	SGCM 10% gas 90% mud	1.683

Total Length:

241.00 ft

Total Volume:

1.683 bbl

Num Fluid Samples: 1

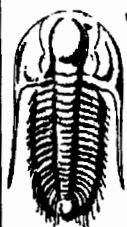
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18650

DST#: 5

Test Start: 2004.03.22 @ 22:39:22

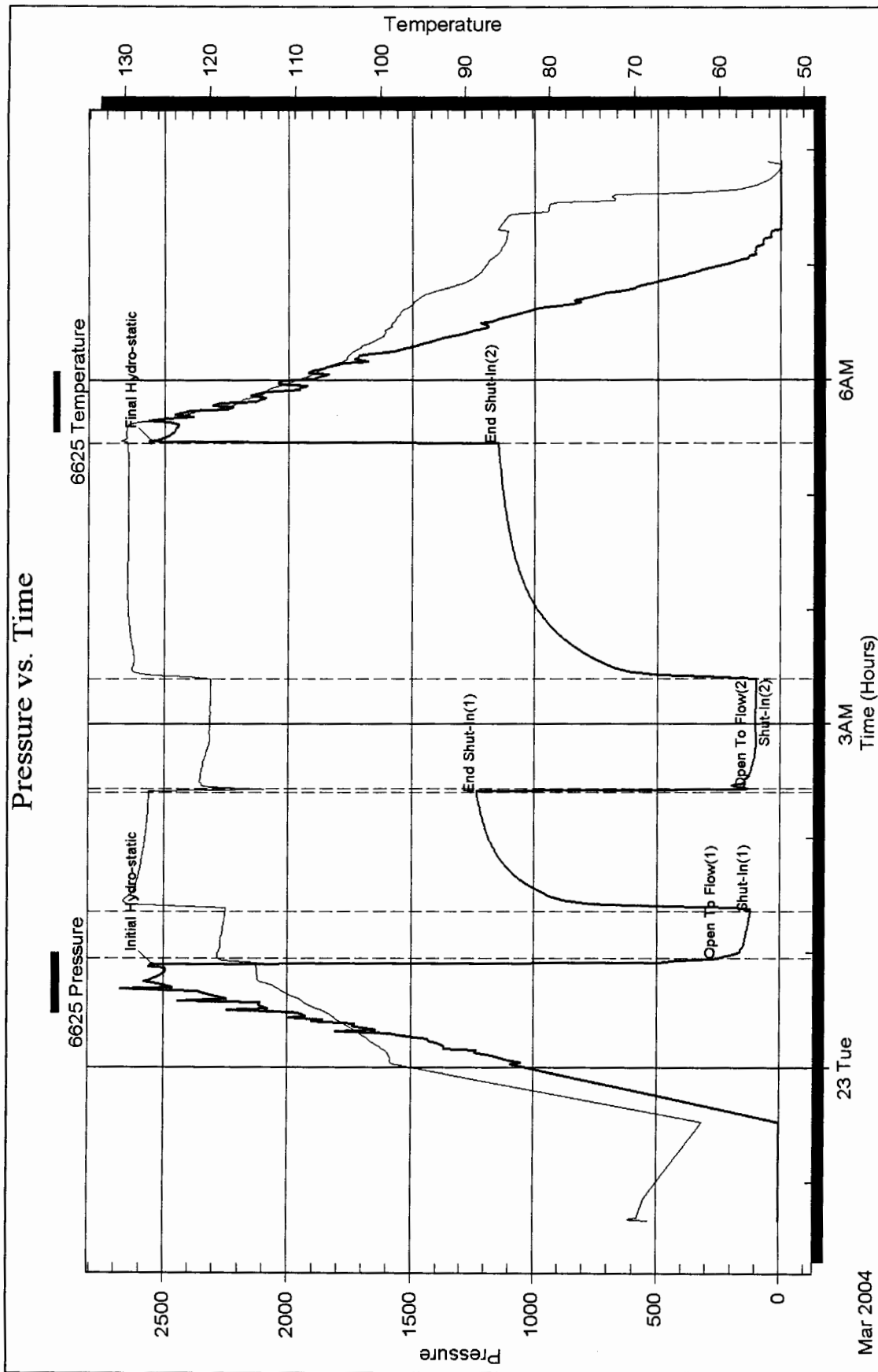
Gas Rates Information

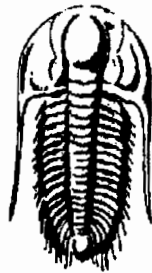
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.75	20.20	540.45
1	10	0.75	20.20	540.45
1	15	0.75	20.00	537.32
1	20	0.75	18.00	506.08
1	25	0.75	16.00	474.84
1	30	0.75	14.20	446.73
2	5	0.75	12.00	412.36
2	10	0.75	14.00	443.60
2	15	0.75	13.00	427.98
2	20	0.75	11.00	396.74
2	25	0.75	9.00	365.50
2	30	0.50	20.00	232.05
2	35	0.50	22.00	245.54
2	40	0.50	24.00	259.04
2	45	0.50	24.00	259.04
2	50	0.50	23.00	252.29
2	55	0.50	22.00	245.54

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.23 @ 17:55:26

End Date: 2004.03.24 @ 03:16:06

Job Ticket #: 19001 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

Mcmoran #4

8-35s-16w

Job Ticket: 19001

DST#: 6

Test Start: 2004.03.23 @ 17:55:26

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:00:06

Time Test Ended: 03:16:06

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **5303.00 ft (KB) To 5320.00 ft (KB) (TVD)**

Total Depth: 5320.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1847.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6625 Inside

Press@RunDepth: 35.20 psig @ 5306.00 ft (KB)

Start Date: 2004.03.23

End Date:

2004.03.24

Start Time: 17:55:26

End Time:

03:16:06

Capacity: 7000.00 psig

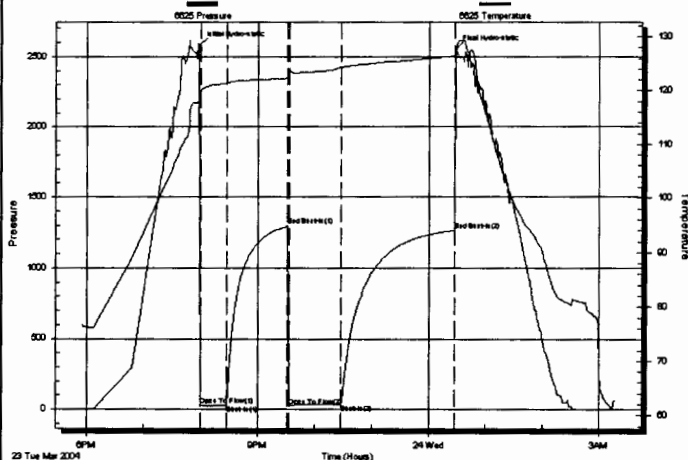
Last Calib.: 2004.03.24

Time On Btm: 2004.03.23 @ 19:58:21

Time Off Btm: 2004.03.24 @ 00:28:21

TEST COMMENT: IF: Strong blow b.o.b in 30 sec.
IS: Bled down for 10 mins. no blow back.
FF: Strong blow b.o.b in 10 sec. GTS Gauge gas.
FS: Bled down for 10 mins. no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2577.65	118.14	Initial Hydro-static
2	26.86	120.12	Open To Flow (1)
30	28.14	121.38	Shut-In(1)
93	1294.58	122.33	End Shut-In(1)
95	19.63	123.23	Open To Flow (2)
149	35.20	124.31	Shut-In(2)
270	1264.94	126.45	End Shut-In(2)
270	2551.87	127.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5246' of gip	0.00
60.00	GCM 10% gas 90% mud	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate		0.00	
Max. Gas Rate	0.13	1.20	5.84



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 19001

DST#: 6

Test Start: 2004.03.23 @ 17:55:26

Tool Information

Drill Pipe:	Length: 5119.66 ft	Diameter: 3.80 inches	Volume: 71.82 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.34 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 72.74 bbl		Tool Chased 2.50 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5303.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	46.00 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			5275.00	
Shut In Tool	5.00			5280.00	
Hydraulic tool	5.00			5285.00	
Jars	5.00			5290.00	
Safety Joint	3.00			5293.00	
Packer	5.00			5298.00	29.00 Bottom Of Top Packer
Packer	5.00			5303.00	
Stubb	1.00			5304.00	
Anchor	2.00			5306.00	
Recorder	0.00	6625	Inside	5306.00	
Anchor	11.00			5317.00	
Recorder	0.00	10991	Outside	5317.00	
Bullnose	3.00			5320.00	17.00 Bottom Packers & Anchor

Total Tool Length: 46.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 19001

DST#: 6

Test Start: 2004.03.23 @ 17:55:26

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.57 in³

Resistivity: 0.09 ohm.m

Salinity: 6500.00 ppm

Filter Cake: 0.32 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5246' of gip	0.000
60.00	GCM 10% gas 90% mud	0.295

Total Length: 60.00 ft

Total Volume: 0.295 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

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 19001

DST#: 6

Test Start: 2004.03.23 @ 17:55:26

Gas Rates Information

Temperature: 59 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)
2	15	0.13	1.00	5.76
2	20	0.13	1.20	5.84
2	25	0.13	1.20	5.84
2	30	0.13	1.10	5.80
2	35	0.13	1.20	5.84
2	40	0.13	1.00	5.76
2	45	0.13	0.80	5.69
2	50	0.13	0.60	5.61
2	55	0.13	0.40	5.54
2	60	0.13	0.30	5.50
0	0	-999999.00	0.00	-999999.00

Serial #: 6625

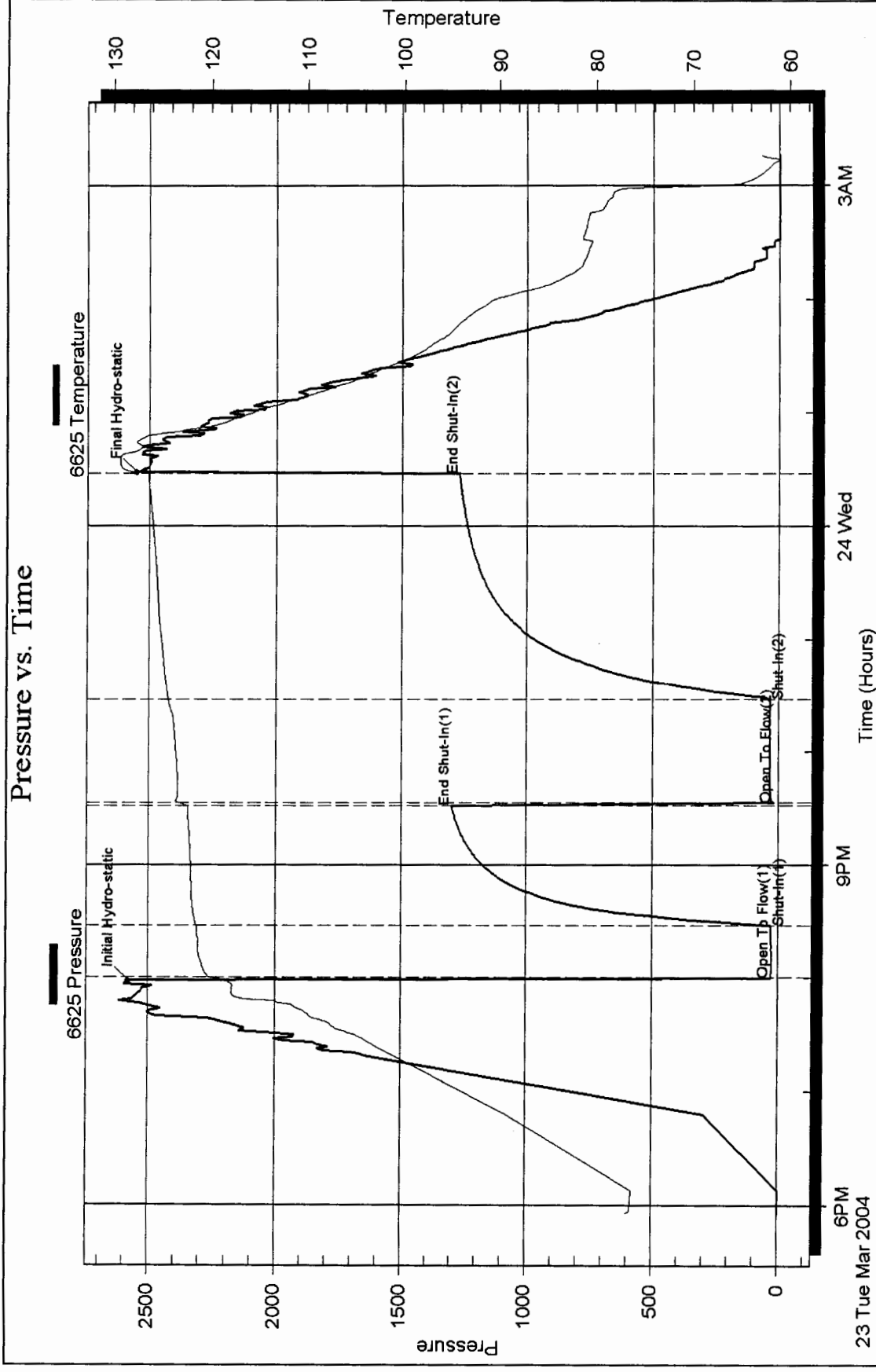
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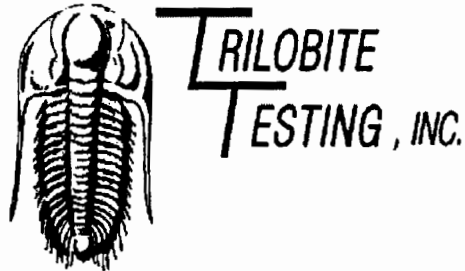
Woodsey Operating Co

8-35s-16w

DST Test Number: 6

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N. Market
Suite 1000
Wichita, Ks 67202

ATTN: Mike Maune

8-35s-16w

Mcmoran #4

Start Date: 2004.03.24 @ 15:48:21

End Date: 2004.03.25 @ 00:55:06

Job Ticket #: 18002 DST #: 7

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

McMoran #4

8-35s-16w

Job Ticket: 18002

DST#: 7

Test Start: 2004.03.24 @ 15:48:21

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:54:06

Time Test Ended: 00:55:06

Test Type: Conventional Bottom Hole

Tester: Darren L.Amerine

Unit No: 19

Interval: **5321.00 ft (KB) To 5360.00 ft (KB) (TVD)**

Total Depth: 5360.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1860.00 ft (KB)

1847.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6625

Inside

Press@RunDepth: 40.52 psig @ 5323.00 ft (KB)

Start Date: 2004.03.24

End Date:

2004.03.25

Start Time: 15:48:26

End Time:

00:55:06

Capacity: 7000.00 psig

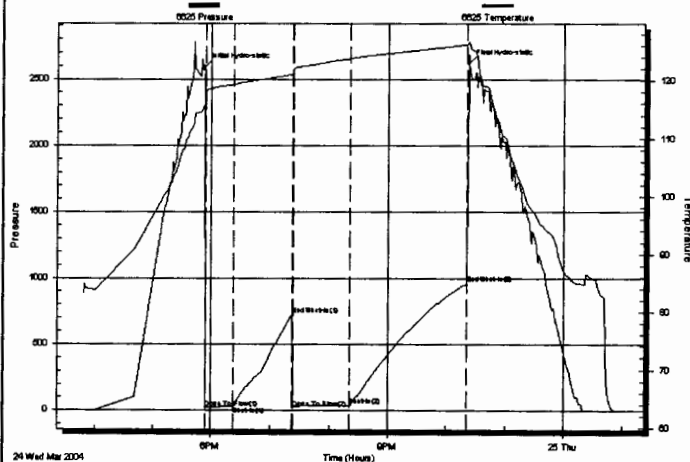
Last Calib.: 2004.03.25

Time On Btm: 2004.03.24 @ 17:52:36

Time Off Btm: 2004.03.24 @ 22:22:51

TEST COMMENT: IF:Weak blow bilt to b.o.b in 10 mins.
IS:Bled down n for 10 mins.built back to 1/2" in H2O bucket.
FF:Strong blow b.o.b in 20 sec.
FS:Bled down n for 10 mins.no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2590.92	115.60	Initial Hydro-static
2	18.89	117.91	Open To Flow (1)
31	28.56	119.35	Shut-In (1)
90	723.97	121.11	End Shut-In (1)
91	19.88	121.46	Open To Flow (2)
148	40.52	123.82	Shut-In (2)
269	961.20	126.20	End Shut-In (2)
271	2616.05	126.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120" of gip	0.00
65.00	SGCM5% gas 95% mud	0.32

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Mcmoran #4

125 N. Market
Suite 1000
Wichita, Ks 67202
ATTN: Mike Maune

8-35s-16w

Job Ticket: 18002

DST#: 7

Test Start: 2004.03.24 @ 15:48:21

Tool Information

Drill Pipe:	Length: 5120.66 ft	Diameter: 3.80 inches	Volume: 71.83 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.34 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume:	72.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5321.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5293.00	
Shut In Tool	5.00			5298.00	
Hydraulic tool	5.00			5303.00	
Jars	5.00			5308.00	
Safety Joint	3.00			5311.00	
Packer	5.00			5316.00	29.00 Bottom Of Top Packer
Packer	5.00			5321.00	
Stubb	2.00			5323.00	
Recorder	0.00	6625	Inside	5323.00	
Anchor	34.00			5357.00	
Recorder	0.00	10991	Outside	5357.00	
Bullnose	3.00			5360.00	39.00 Bottom Packers & Anchor

Total Tool Length: 68.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Mcmoran #4

125 N. Market

8-35s-16w

Suite 1000

Job Ticket: 18002

DST#: 7

Wichita, Ks 67202

Test Start: 2004.03.24 @ 15:48:21

ATTN: Mike Maune

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: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.80 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	120" of gip	0.000
65.00	SGCM5% gas 95% mud	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

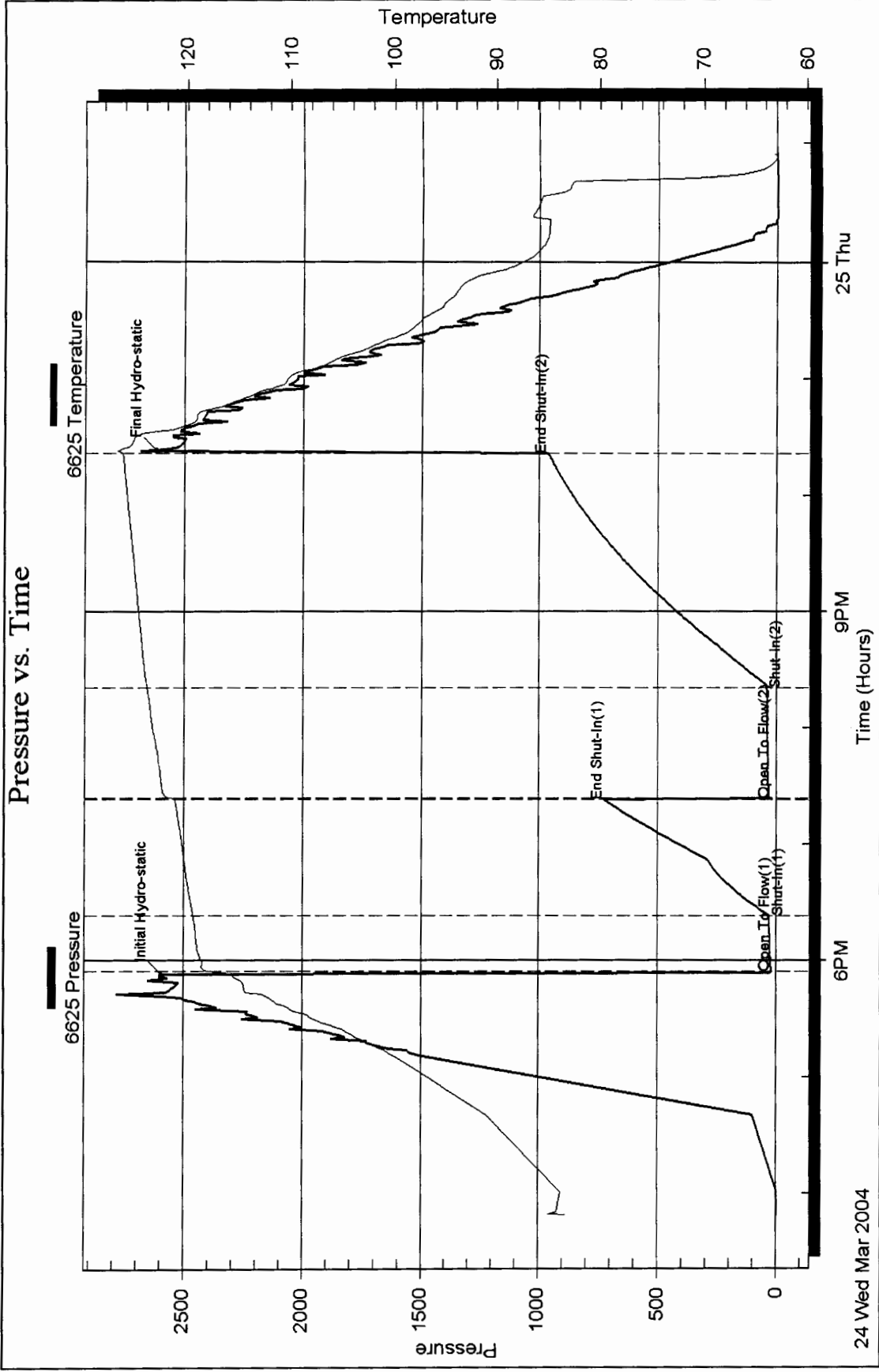
Serial #:

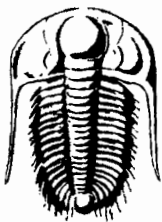
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18646

05/03

Test Ticket

Well Name & No. McMoran #4 Test No. 1 Date 3-18-01
 Company Woolsey Operating Co. Zone Tested Lansing G
 Address 125 N. Market Suite 1000 Wichita, KS 67202 Elevation 1860 KB 1847 GL
 Co. Rep / Geo. Mike Maune Cont. Duke #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 8 Twp. 35s Rge. 16 W Co. Comanche State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4798- 4819 Initial Str Wt./Lbs. 77,000 Unseated Str Wt./Lbs. 77,000
 Anchor Length 21' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4793 Tool Weight 2200
 Bottom Packer Depth 4798 Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth 4819 Wt. Pipe Run 0 Drill Collar Run 186
 Mud Wt. 9.3 LCM _____ Vis. 52 WL 12.0 Drill Pipe Size 4 1/2 Ft. Run 4590

Blow Description IF- Strong Blow OBB in 1 min
ISI- No Blow
FF- Strong Blow OBB as soon as tool opened
FST- No Blow

Recovery - Total Feet 62 GIP 1300 ft Ft. in DC 62 Ft. in DP 0
 Rec. 62 Feet of Mud %gas _____ %oil _____ 10%water 90 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 122 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 9.4 @ 55.3 °F Chlorides _____ ppm Recovery 800 Chlorides 5,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2302</u> PSI	<u>6625</u>	<u>800</u>	☒
(B) First Initial Flow Pressure	<u>21</u> PSI	<u>4799</u>	<u>150</u>	☒
(C) First Final Flow Pressure	<u>27</u> PSI	<u>10991</u>	<u>200</u>	☒
(D) Initial Shut-In Pressure	<u>903</u> PSI	<u>4816</u>	<u>50</u>	☒
(E) Second Initial Flow Pressure	<u>35</u> PSI			
(F) Second Final Flow Pressure	<u>42</u> PSI			
(G) Final Shut-In Pressure	<u>1066</u> PSI	Initial Opening	<u>30</u>	
(Q) Final Hydrostatic Mud	<u>2199</u> PSI	Initial Shut-In	<u>60</u>	
		Final Flow	<u>60</u>	
		Final Shut-In	<u>90</u>	

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Approved By Michael K. Maune

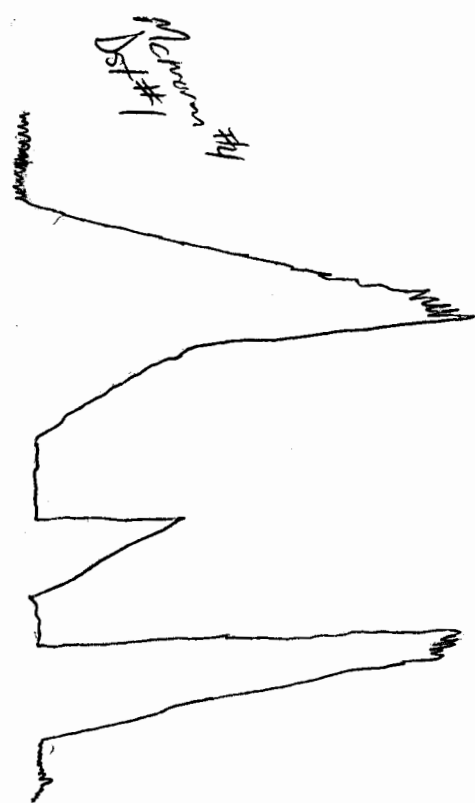
Our Representative Nick Boly

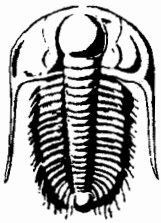
T-On Location 12:30 p.m.
 T-Started 13:33
 T-Open 15:46
 T-Pulled 19:46
 T-Out 21:50

Test ☒ 800
 Elec. Rec. ☒ 150
 Jars ☒ 200
 Safety Jt. ☒ 50
 Circ Sub _____
 Sampler _____
 Straddle _____
 Ext. Packer _____
 Shale Packer _____
 Mileage 166 83 141.10
 Sub Total: 1341.10
 Std. By 1/2 15
 Other _____
 Total: 1356.10

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18647

05/03

Test Ticket

Well Name & No.	<u>McMoran #4</u>		Test No.	<u>#2</u>	Date	<u>3-19-04</u>	
Company	<u>Woodsey Operating, Co. LLC 125 N.</u>			Zone Tested	<u>Swope</u>		
Address	<u>Market Suite 1000 Wichita, KS. 67202</u>			Elevation	<u>1860</u>	KB	<u>1847</u> GL
Co. Rep / Geo.	<u>Mike Maune</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay		Por.	%
Location: Sec.	<u>8</u>	Twp.	<u>35 S</u>	Rge.	<u>16 W</u>	Co.	<u>Comanche, Co.</u> State <u>KS</u>
No. of Copies	<u>5</u>	Disbtribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u>	Evaluation (Y, N)	<u>-</u>

Interval Tested	<u>4918' - 4953'</u>	Initial Str Wt./Lbs.	<u>78,000</u>	Unseated Str Wt./Lbs.	<u>78,000</u>
Anchor Length	<u>35'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>86,000</u>
Top Packer Depth	<u>4913'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>4918'</u>	Hole Size	<u>7 7/8" ✓</u>	Rubber Size	<u>6 3/4" ✓</u>
Total Depth	<u>4953'</u>	Wt. Pipe Run	<u>N/A</u>	Drill Collar Run	<u>186.34</u>
Mud Wt.	<u>9.3</u> LCM <u>-0-</u> Vis. <u>49</u> WL <u>10.4</u>	Drill Pipe Size	<u>4 1/2 x H</u>	Ft. Run	<u>4715.66</u>

Blow Description TF Strong blow b.o.b in 50 sec
ISI Bled down for 10 mins. No blow back
FF Strong blow b.g.k in 15 sec. BTS in 30 sec. Gauge Bas.
TSI Bled down for 10 mins No blow back.

Recovery - Total Feet	<u>291'</u>	GIP	<u>4611</u>	Ft. in DC	<u>186'</u>	Ft. in DP	<u>105'</u>
Rec.	<u>105'</u>	Feet of	<u>SGC MW</u>	<u>4</u>	%gas	%oil	<u>36%water 60% mud</u>
Rec.	<u>186'</u>	Feet of	<u>SGC NCW</u>	<u>8</u>	%gas	%oil	<u>52%water 40% mud</u>
Rec.	<u>4611'</u>	Feet of	<u>GIP</u>		%gas	%oil	%water %mud
Rec.		Feet of			%gas	%oil	%water %mud
Rec.		Feet of			%gas	%oil	%water %mud
BHT	<u>126°</u>	°F Gravity		API D @		°F Corrected Gravity	°API
RW	<u>.09</u>	@ <u>75</u> °F	Chlorides	<u>90,000</u> ppm Recovery	Chlorides	<u>5,000</u> ppm System	

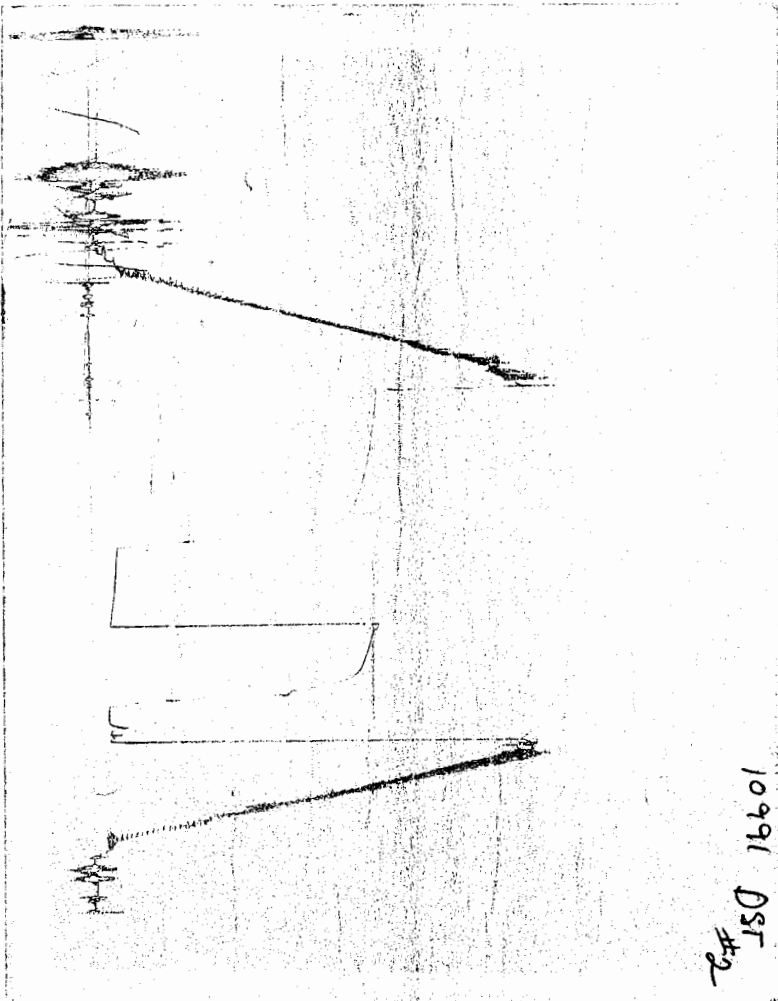
(A) Initial Hydrostatic Mud	<u>2404</u> PSI	Recorder No.	<u>6625-</u>	Test	<u>✓</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>63</u> PSI	(depth)	<u>4923'</u>	Elec. Rec.	<u>-</u>	<u>150</u>
(C) First Final Flow Pressure	<u>63</u> PSI	Recorder No.	<u>10991</u>	Jars	<u>-</u>	<u>200</u>
(D) Initial Shut-In Pressure	<u>1570</u> PSI	(depth)	<u>4950'</u>	Safety Jt.	<u>✓</u>	<u>50</u>
(E) Second Initial Flow Pressure	<u>61</u> PSI	Recorder No.		Circ Sub		
(F) Second Final Flow Pressure	<u>120</u> PSI	(depth)		Sampler		
(G) Final Shut-In Pressure	<u>1560</u> PSI	Initial Opening	<u>30</u>	Straddle		
(Q) Final Hydrostatic Mud	<u>2462</u> PSI	Initial Shut-In	<u>60</u>	Ext. Packer		
		Final Flow	<u>60</u>	Shale Packer		
		Final Shut-In	<u>120</u>	Mileage	<u>141.10</u>	
		T-On Location	<u>1345</u>	Sub Total:	<u>1341.10</u>	
		T-Started	<u>1404</u>	Std. By	<u>[Signature]</u>	
		T-Open	<u>1551</u>	Other		
		T-Pulled	<u>2021</u>	Total:		
		T-Out	<u>2238</u>			

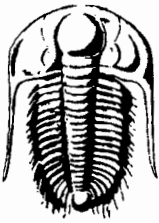
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Approved By Michael K. Maune
 Our Representative Darren [Signature]

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18648

05/03

Test Ticket

Well Name & No. <u>Memoran #4</u>	Test No. <u>#3</u>	Date <u>3-20-04</u>
Company <u>Woolsey Operating, Co. LLC. 125 N. Zone Tested <u>Hertha</u></u>		
Address <u>Market Suite 1000 Wichita, KS. 67202</u>	Elevation <u>1860</u>	KB <u>1847</u> GL
Co. Rep / Geo. <u>Mike Maune</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u> Twp. <u>35S</u> Rge. <u>16W</u> Co. <u>Comanche, Co.</u> State <u>KS</u>		
No. of Copies <u>5</u> Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>4966' - 5011'</u>	Initial Str Wt./Lbs. <u>80,000</u>	Unseated Str Wt./Lbs. <u>80,000</u>
Anchor Length <u>45'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>84,000</u>
Top Packer Depth <u>4961'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4966'</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>5011'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>186.34</u>
Mud Wt. <u>9.3</u> LCM <u>-0-</u> Vis. <u>62</u> WL <u>12.0</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>4775.66</u>
Blow Description <u>IF: Strong blow b.o.b in 30 sec. 67S in 18 mins. Gauge Gas</u> <u>IST: Blud down for 10 mins. No blow back.</u> <u>FF: Strong blow b.o.b in 10 sec. Gauge Gas.</u> <u>FST: Blud down for 10 mins. No blow back.</u>		
Recovery - Total Feet <u>271'</u>	GIP <u>4691'</u>	Ft. in DC <u>186'</u> Ft. in DP <u>85'</u>
Rec. <u>Bottom</u> <u>60'</u>	Feet of <u>AK-1CC MW</u> <u>20</u> %gas <u>108</u> %oil <u>20</u> %water <u>40</u> %mud	
Rec. <u>Top</u> <u>211'</u>	Feet of <u>AK-1CC MW</u> <u>30</u> %gas <u>208</u> %oil <u>20</u> %water <u>50</u> %mud	
Rec. <u>4691</u>	Feet of <u>GTP</u> <u>20</u> %gas <u>108</u> %oil <u>20</u> %water <u>50</u> %mud	
Rec. _____	Feet of _____ %gas _____ %oil _____ %water _____ %mud	
Rec. _____	Feet of _____ %gas _____ %oil _____ %water _____ %mud	
BHT <u>130°</u> °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API		
RW <u>0.19</u> @ <u>75</u> °F Chlorides <u>27,000</u> ppm Recovery _____ Chlorides <u>7,000</u> ppm System		

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2402</u>	PSI	<u>6625</u>	✓ <u>900</u>
(B) First Initial Flow Pressure	<u>50</u>	PSI	(depth) <u>4971'</u>	✓ <u>150</u>
(C) First Final Flow Pressure	<u>89</u>	PSI	Recorder No. <u>10991</u>	✓ <u>200</u>
(D) Initial Shut-In Pressure	<u>1477</u>	PSI	(depth) <u>5008'</u>	✓ <u>60</u>
(E) Second Initial Flow Pressure	<u>70</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>94</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1381</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2450</u>	PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>60</u>	Shale Packer _____
			Final Shut-In <u>120</u>	Mileage <u>141.10</u>
			T-On Location <u>0915</u>	Sub Total: <u>1441.10</u>
			T-Started <u>1062</u>	Std. By _____
			T-Open <u>1142</u>	Other _____
			T-Pulled <u>1612</u>	Total: _____
			T-Out <u>1835</u>	

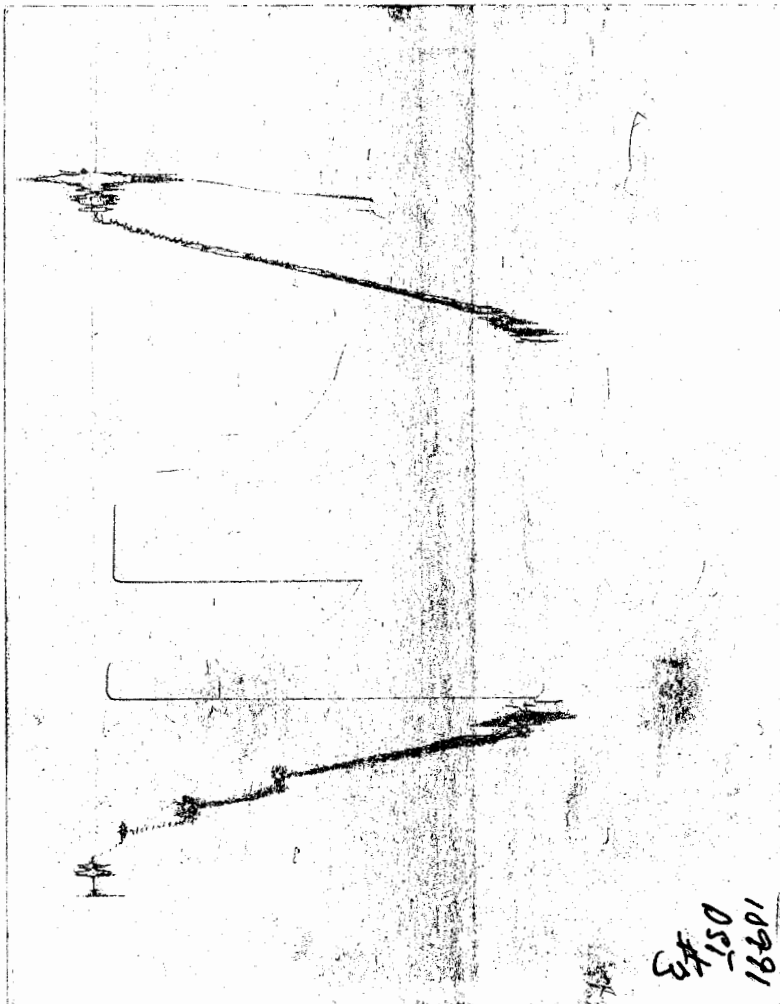
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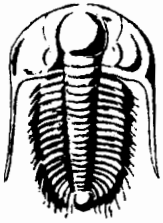
Approved By Michael K. Maune

Our Representative Darren Schmeider

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18649

05/03

Test Ticket

Well Name & No.	McMoran #4	Test No.	#4	Date	3-21-04
Company	Wooksey Operating, Co. LLC 125 W.	Zone Tested	Pawnee		
Address	Market Suite 1000 Wichita, KS 67202	Elevation	1860	KB	1847
Co. Rep / Geo.	Mike Maune	Cont.	Duke #7	Est. Ft. of Pay	
Location: Sec.	B	Twp.	35S	Rge.	16 W
		Co.	Comanche, Co.	State	KS
No. of Copies	5	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	5142' - 5175'	Initial Str Wt./Lbs.	80000	Unseated Str Wt./Lbs.	80,000
Anchor Length	33'	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	90,000
Top Packer Depth	5137'	Tool Weight	2100		
Bottom Packer Depth	5142'	Hole Size	7 7/8" ✓	Rubber Size	6 3/4" ✓
Total Depth	5175'	Wt. Pipe Run	N/A	Drill Collar Run	186.34
Mud Wt.	9.1	Drill Pipe Size	4 1/2 XH	Ft. Run	4930.66
LCM	3#				
Vis.	53				
WL	9.2				
Blow Description	IF: Weak surface blow built to 2" in #120 bucket. IST: Bled down for 5 mins. No blow back. EF: Weak surface blow built to 1 1/2" in #120 bucket. FST: Bled down for 10 mins. No blow back.				
Recovery - Total Feet		GIP		Ft. in DC	
Rec.		Feet of		%gas	%oil
				%water	%mud
Rec.		Feet of		%gas	%oil
				%water	%mud
Rec.		Feet of		%gas	%oil
				%water	%mud
Rec.		Feet of		%gas	%oil
				%water	%mud
Rec.		Feet of		%gas	%oil
				%water	%mud
BHT	123°	°F Gravity		°API D @	
				°F Corrected Gravity	
RW		@		°F	
		Chlorides		ppm Recovery	
				Chlorides	6,500
				ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	2517	PSI	Recorder No.	6625	Test	✓
(B) First Initial Flow Pressure			20	PSI	(depth)	5145'	Elec. Rec.	✓
(C) First Final Flow Pressure			29	PSI	Recorder No.	10991	Jars	✓
(D) Initial Shut-In Pressure			142	PSI	(depth)	5172'	Safety Jt.	✓
(E) Second Initial Flow Pressure			31	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure			36	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure			113	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud			2453	PSI	Initial Shut-In	60	Ext. Packer	

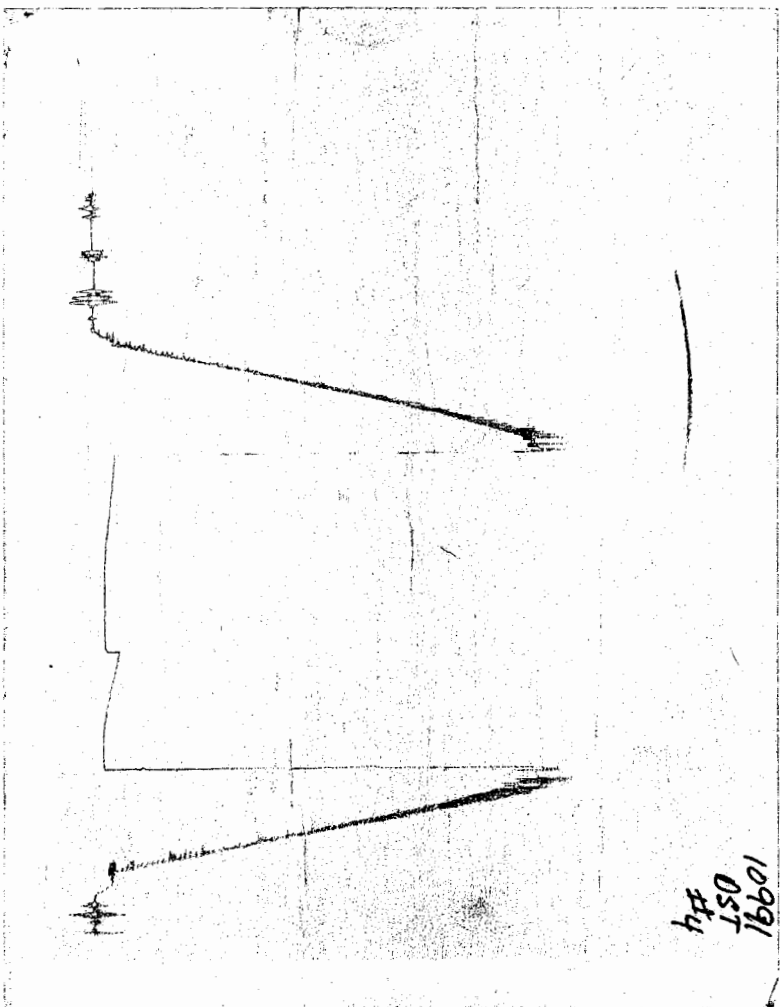
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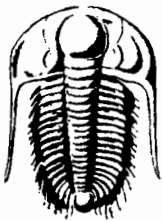
Approved By Mike K. Maune
Our Representative Dawn Schmeine

Final Flow	60	Shale Packer	
Final Shut-In	90	Mileage	
T-On Location	1800	Sub Total:	1441.10
T-Started	1809	Std. By	
T-Open	2007	Other	
T-Pulled	0007	Total:	
T-Out	0217		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18650

05/03

Test Ticket

Well Name & No. <u>Memoran #4</u>	Test No. <u>#5</u>	Date <u>3-22-04</u>
Company <u>Woolsey Operating, Co. LLC 125 N.</u>	Zone Tested <u>Conglomerate</u>	
Address <u>Market Suite 1000 Wichita, KS. 67202</u>	Elevation <u>1860</u>	KB <u>1847</u> GL
Co. Rep / Geo. <u>Mike Maune</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u> Twp. <u>35S</u> Rge. <u>16W</u>	Co. <u>Comanche, Co.</u>	State <u>KS</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>5240 - 5300'</u>	Initial Str Wt./Lbs. <u>80,000</u>	Unseated Str Wt./Lbs. <u>80,000</u>
Anchor Length <u>60'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>90,000</u>
Top Packer Depth <u>5235'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>5240'</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>5300'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>186.34</u>
Mud Wt. <u>9.1</u> LCM <u>3#</u> Vis. <u>52</u> WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>5088.66</u>
Blow Description <u>IF: Strong blow b.o.b in 30 sec. GTS in 3 1/2 mins Gauge Gas.</u>		
<u>IST: Bled down for 10 mins. No blow back.</u>		
<u>FF: Strong blow b.o.b in 10 sec. Gauge Gas.</u>		
<u>FST: Bled down for 10 mins. No blow back.</u>		
Recovery - Total Feet <u>241</u>	GIP <u>5001'</u>	Ft. in DC <u>186</u>
Rec. <u>241</u>	Feet of <u>SGCM</u>	10 %gas %oil %water <u>90</u> %mud
Rec. <u>5001'</u>	Feet of <u>GIP</u>	%gas %oil %water %mud
Rec. _____	Feet of _____	%gas %oil %water %mud
Rec. _____	Feet of _____	%gas %oil %water %mud
Rec. _____	Feet of _____	%gas %oil %water %mud
BHT <u>130°</u>	°F Gravity _____	°API D @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>6,500</u> ppm System

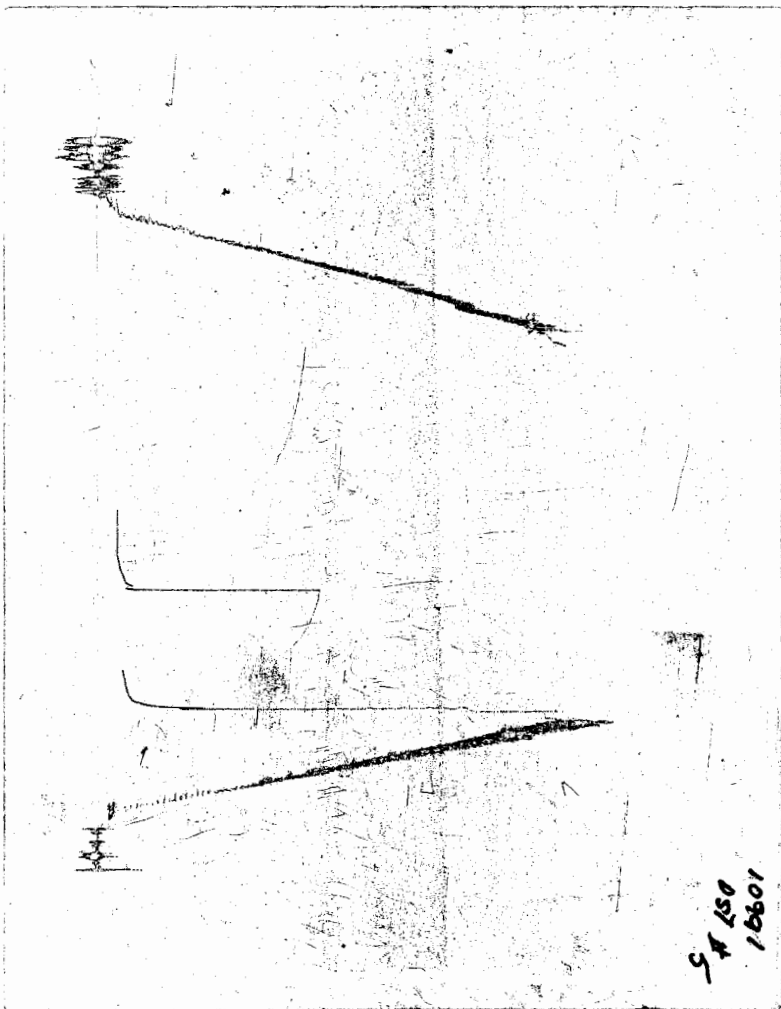
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2546</u>		<u>6625</u>	<u>✓</u>
(B) First Initial Flow Pressure		<u>250</u>		(depth) <u>5242'</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure		<u>118</u>		Recorder No. <u>10991</u>	Jars <u>✓</u>
(D) Initial Shut-In Pressure		<u>1233</u>		(depth) <u>5265'</u>	Safety Jt. <u>✓</u>
(E) Second Initial Flow Pressure		<u>129</u>		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>96</u>		(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>1146</u>		Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2553</u>		Initial Shut-In <u>60</u>	Ext. Packer _____
				Final Flow <u>60</u>	Shale Packer _____
				Final Shut-In <u>120</u>	Mileage _____
				T-On Location <u>2215</u>	Sub Total: <u>1441.10</u>
				T-Started <u>2239</u>	Std. By <u>✓</u>
				T-Open <u>0050</u>	Other _____
				T-Pulled <u>0520</u>	Total: _____
				T-Out <u>0754</u>	

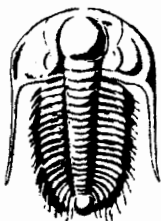
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Michael K Maune
Our Representative Darren Carneiro

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19001

05/03

Test Ticket

Well Name & No. <u>McMoran #4</u>	Test No. <u>#6</u>	Date <u>3-23-07</u>
Company <u>Woolsey Operating, Co. LLC 125 N.</u>	Zone Tested <u>M.55.</u>	
Address <u>Market Suite 1000 Wichita, KS. 67202</u>	Elevation <u>1860</u>	KB <u>1847</u> GL
Co. Rep / Geo. <u>Mike Maune</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u> Twp. <u>35S</u> Rge. <u>16W</u>	Co. <u>Comanche, Co.</u>	State <u>KS</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>5303 - 5320</u>	Initial Str Wt./Lbs. <u>80.00</u>	Unseated Str Wt./Lbs. <u>80.00</u>
Anchor Length <u>17'</u>	Wt. Set Lbs. <u>20.00</u>	Wt. Pulled Loose/Lbs. <u>80.00</u>
Top Packer Depth <u>5298</u>	Tool Weight <u>21.00</u>	
Bottom Packer Depth <u>5303'</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>5320'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>186.34</u>
Mud Wt. <u>9.1</u> LCM <u>3#</u> Vis. <u>50</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>5119.66</u>

Blow Description TF: Strong blow back in 30 sec.
1ST: Bleed down for 10 mins. No blow back.
FF: Strong blow back in 10 sec. 6TS
FSI: Bleed down for 10 mins. No blow back.

Recovery - Total Feet <u>60'</u>	GIP <u>5246'</u>	Ft. in DC <u>60'</u>	Ft. in DP <u>N/A</u>
Rec. <u>60'</u>	Feet of <u>6CM</u>	10 %gas	%oil %water 90 %mud
Rec. <u>5246'</u>	Feet of	%gas	%oil %water %mud
Rec.	Feet of	%gas	%oil %water %mud
Rec.	Feet of	%gas	%oil %water %mud
Rec.	Feet of	%gas	%oil %water %mud
BHT <u>126°</u>	°F Gravity	°API D @	°F Corrected Gravity °API
RW @ °F	Chlorides ppm	Recovery	Chlorides <u>6500</u> ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2578	PSI	Recorder No. <u>6625</u>	Test <u>✓</u>
(B) First Initial Flow Pressure			26	PSI	(depth) <u>5306'</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure			28	PSI	Recorder No. <u>10991</u>	Jars <u>✓</u>
(D) Initial Shut-In Pressure			1225	PSI	(depth) <u>5317'</u>	Safety Jt. <u>✓</u>
(E) Second Initial Flow Pressure			20	PSI	Recorder No.	Circ Sub
(F) Second Final Flow Pressure			35	PSI	(depth)	Sampler
(G) Final Shut-In Pressure			1265	PSI	Initial Opening <u>30</u>	Straddle
(Q) Final Hydrostatic Mud			2552	PSI	Initial Shut-In <u>60</u>	Ext. Packer

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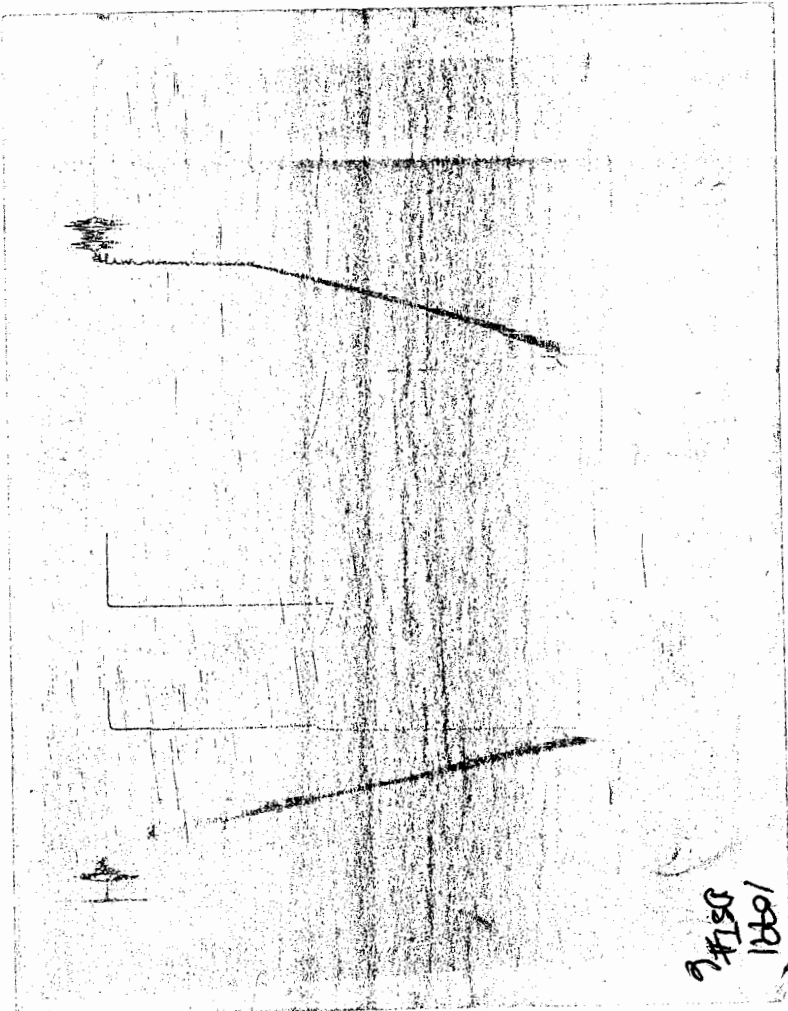
Approved By Michael R. Maune
 Our Representative Darren J. Gmeine

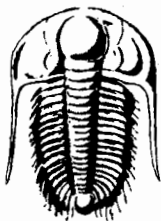
Final Flow 60
 Final Shut-In 120
 T-On Location 1730
 T-Started 1755
 T-Open 1955
 T-Pulled 0025
 T-Out 0316

Shale Packer _____
 Mileage _____
 Sub Total: 1441.10
 Std. By _____
 Other _____
 Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19002

05/03

Test Ticket

Well Name & No. <u>Memoran #4</u>	Test No. <u># 7</u>	Date <u>3-24-04</u>
Company <u>Woolsey Operating Co. LLC 125 N. Market</u>	Zone Tested <u>Mississippiqn</u>	
Address <u>Suite 1000 Wich. ta, Ks. 67202</u>	Elevation <u>1860</u>	KB <u>1847</u> GL
Co. Rep / Geo. <u>Mike Maune</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>35S</u>	Rge. <u>16W</u> Co. <u>Comanche Co.</u> State <u>Ks</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested <u>5321 - 5360</u>	Initial Str Wt./Lbs. <u>80,000</u>	Unseated Str Wt./Lbs. <u>80,000</u>
Anchor Length <u>39'</u>	Wt. Set Lbs. <u>29,000</u>	Wt. Pulled Loose/Lbs. <u>85,000</u>
Top Packer Depth <u>5316</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>5321</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>5360</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>186.34</u>
Mud Wt. <u>9.0+</u> LCM <u>4#</u> Vis. <u>61</u> WL <u>8.8</u>	Drill Pipe Size <u>7 1/2 X 14</u>	Ft. Run <u>5120.66</u>
Blow Description <u>IF: Weak blow built to b.o.b. in 10 mins</u>		
<u>IST: Bled down for 5 mins. built back to 1/2" in #120 bucket.</u>		
<u>FF: Strong blow p.b.o.b. in 20 sec.</u>		
<u>EST: Bled down for 10 mins. No blow back.</u>		
Recovery - Total Feet <u>65'</u>	GIP <u>120'</u>	Ft. in DC. <u>65'</u>
Rec. <u>65'</u>	Feet of <u>58CM</u>	5 %gas %oil %water <u>95</u> %mud
Rec. <u>120'</u>	Feet of <u>GIP</u>	%gas %oil %water %mud
Rec. _____	Feet of _____	%gas %oil %water %mud
Rec. _____	Feet of _____	%gas %oil %water %mud
Rec. _____	Feet of _____	%gas %oil %water %mud
BHT <u>126°</u>	°F Gravity _____	°API D @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>7,000</u> ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2591</u> PSI	Recorder No. <u>6625</u>	Test <u>✓</u>
(B) First Initial Flow Pressure	<u>19</u> PSI	(depth) <u>5323'</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>29</u> PSI	Recorder No. <u>10991</u>	Jars <u>✓</u>
(D) Initial Shut-In Pressure	<u>724</u> PSI	(depth) <u>5357'</u>	Safety Jt. <u>✓</u>
(E) Second Initial Flow Pressure	<u>20</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>41</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>961</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2616</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
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		Final Shut-In <u>120</u>	Mileage _____
		T-On Location <u>1515</u>	Sub Total: <u>1441.10</u>
		T-Started <u>1548</u>	Std. By _____
		T-Open <u>1750</u>	Other _____
		T-Pulled <u>2220</u>	Total: _____
		T-Out <u>0055</u>	
Approved By <u>Michael F. Maune</u>			
Our Representative <u>Darren L. Maune</u>			

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

