

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

3 11 21W Trego KS

Keja 1-3

Start Date: 2006.04.28 @ 19:28:31

End Date: 2006.04.29 @ 02:44:29

Job Ticket #: 24783

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Keja 1-3

3 11 21W Trego KS

DST # 1

Topeka

2006.04.28



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24783

DST#: 1

Test Start: 2006.04.28 @ 19:28:31

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:33:44

Time Test Ended: 02:44:29

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3155.00 ft (KB) To 3175.00 ft (KB) (TVD)**

Total Depth: 3175.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2106.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 60.50 psig @ 3157.01 ft (KB)

Start Date: 2006.04.28

End Date:

2006.04.29

Start Time: 19:28:31

End Time:

02:44:29

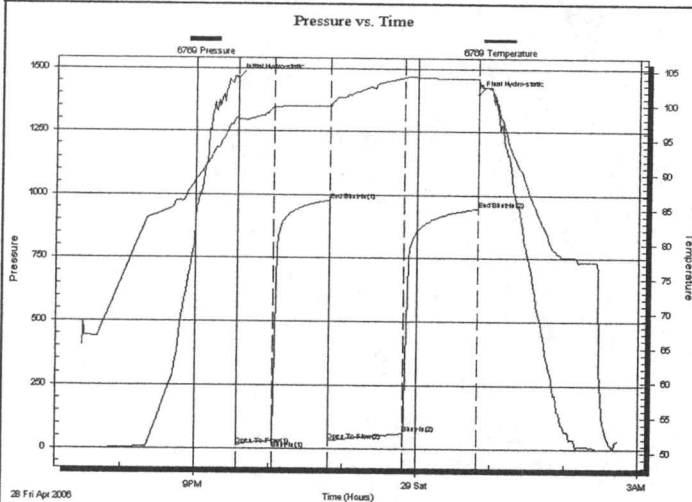
Capacity: 7000.00 psig

Last Calib.: 2006.04.29

Time On Btm: 2006.04.28 @ 21:33:29

Time Off Btm: 2006.04.29 @ 00:49:14

TEST COMMENT: IFP Weak blow throughout 1/4 in - 2 in
ISI No blow back
FFP No blow 10" built to 1in
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1461.02	98.29	Initial Hydro-static
1	12.18	97.40	Open To Flow (1)
30	32.32	99.77	Shut-In(1)
75	977.52	99.92	End Shut-In(1)
75	32.85	99.66	Open To Flow (2)
136	60.50	104.05	Shut-In(2)
196	947.78	103.99	End Shut-In(2)
196	1399.38	104.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02
60.00	WM show Oil 75%M 25%W	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

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24783

DST#: 1

Test Start: 2006.04.28 @ 19:28:31

Tool Information

Drill Pipe:	Length: 3011.00 ft	Diameter: 3.80 inches	Volume: 42.24 bbl	Tool Weight:	2500.00 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume:	42.85 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3155.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.02 ft				
Tool Length:	47.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3133.00	
HYD S.I. Tool	5.00			3138.00	
Jars	5.00			3143.00	
Safety Joint	2.00			3145.00	
Packer	5.00			3150.00	27.00 Bottom Of Top Packer
Packer	5.00			3155.00	
Stubb	1.00			3156.00	
Perforations	1.00			3157.00	
Recorder	0.01	6769	Inside	3157.01	
Perforations	15.00			3172.01	
Recorder	0.01	13548	Outside	3172.02	
Bullnose	3.00			3175.02	20.02 Bottom Packers & Anchor

Total Tool Length: 47.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Keja 1-3

250 N Water Ste 300
Wichita KS 67202

3 11 21W Trego KS

Job Ticket: 24783

DST#: 1

ATTN: Terry McLeod

Test Start: 2006.04.28 @ 19:28:31

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: 41500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%M	0.025
60.00	WM show Oil 75%M 25%W	0.295

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:

DST Test Number: 1

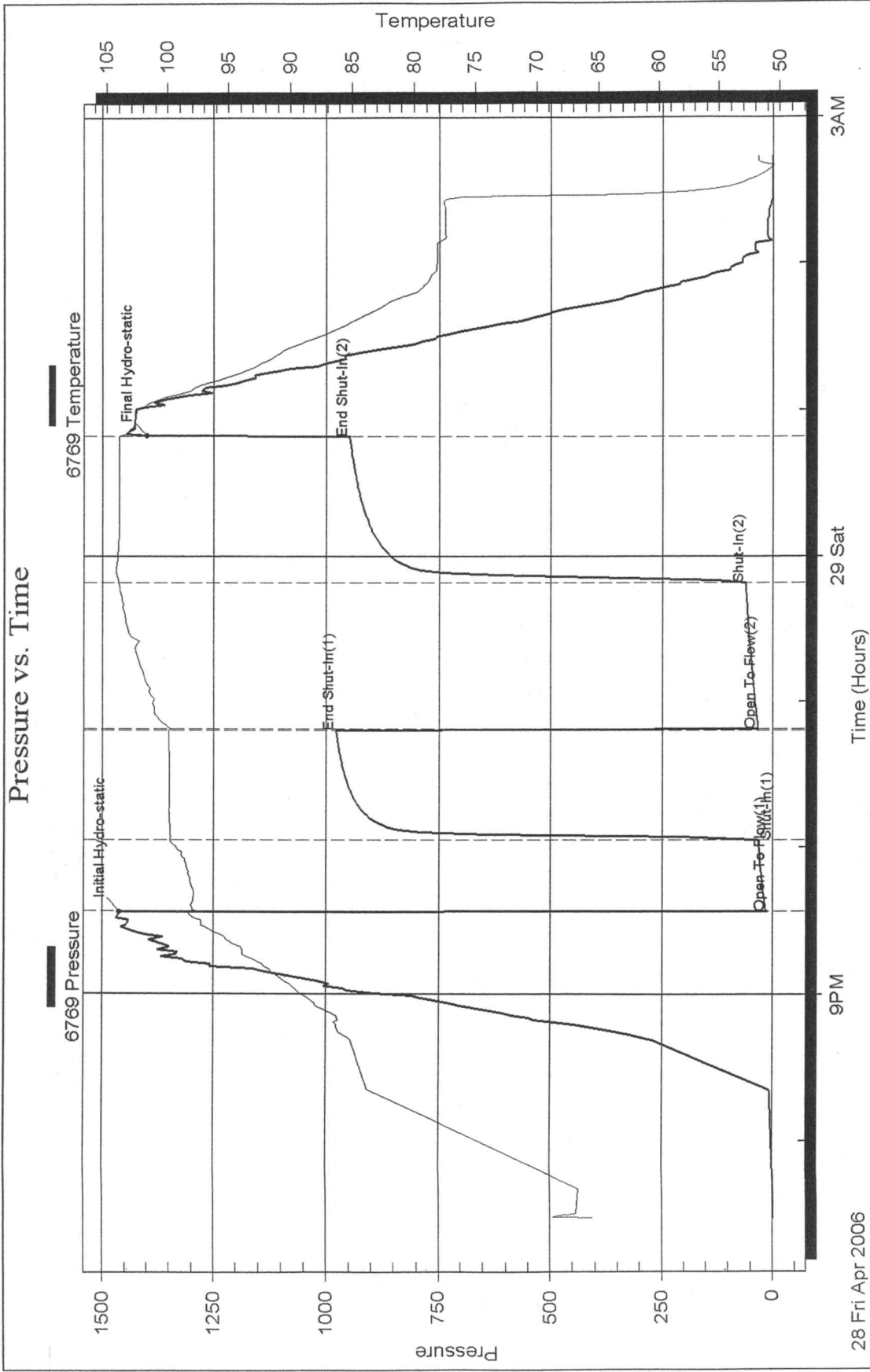
3 11 21W Trego KS

Murfin Drilling Co Inc

Inside

Serial #: 6769

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

3 11 21W Trego KS

Keja 1-3

Start Date: 2006.04.29 @ 23:48:19

End Date: 2006.04.30 @ 08:13:02

Job Ticket #: 24784

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

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24784

DST#: 2

Test Start: 2006.04.29 @ 23:48:19

GENERAL INFORMATION:

Formation: **LKC "B-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:39:32

Time Test Ended: 08:13:02

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3411.00 ft (KB) To 3482.00 ft (KB) (TVD)**

Total Depth: 3482.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2106.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 96.80 psig @ 3418.01 ft (KB)

Start Date: 2006.04.29

End Date: 2006.04.30

Capacity: 7000.00 psig

Last Calib.: 2006.04.30

Start Time: 23:48:19

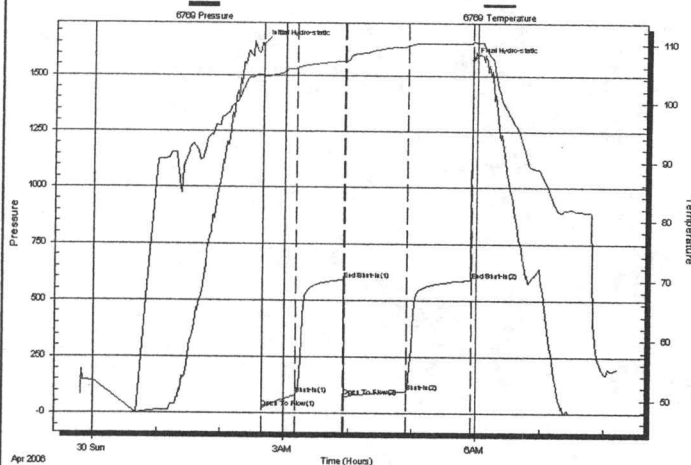
End Time: 08:13:02

Time On Btm: 2006.04.30 @ 02:39:17

Time Off Btm: 2006.04.30 @ 05:55:32

TEST COMMENT: IFP Weak to fair blow 1/4 in - 5 1/2 in
ISI No blow back
FFP BOB 35"
FSI Weak sur blow back

Pressure vs. Time



PRESSURE SUMMARY

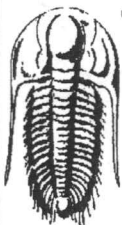
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.98	104.76	Initial Hydro-static
1	22.00	104.35	Open To Flow (1)
32	80.95	105.94	Shut-In (1)
76	589.57	107.10	End Shut-In (1)
77	74.73	106.99	Open To Flow (2)
136	96.80	109.72	Shut-In (2)
196	589.06	110.11	End Shut-In (2)
197	1570.51	110.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.02
30.00	MW show O 1%O 59%W 40%M	0.15
85.00	HOCM trace W 5%G 25%O 5%W 65%M	0.42
30.00	HOCM 5%G 40%O 55%M	0.38
2.00	FREE OIL	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24784

DST#: 2

Test Start: 2006.04.29 @ 23:48:19

Tool Information

Drill Pipe:	Length: 3291.00 ft	Diameter: 3.80 inches	Volume: 46.16 bbl	Tool Weight:	2500.00 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume:	46.77 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3411.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.02 ft				
Tool Length:	98.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					
60' GIP					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3389.00	
HYD S.I. Tool	5.00			3394.00	
Jars	5.00			3399.00	
Safety Joint	2.00			3401.00	
Packer	5.00			3406.00	27.00 Bottom Of Top Packer
Packer	5.00			3411.00	
Stubb	1.00			3412.00	
Perforations	5.00			3417.00	
C.O. Sub	1.00			3418.00	
Recorder	0.01	6769	Inside	3418.01	
Blank Spacing	31.00			3449.01	
C.O. Sub	1.00			3450.01	
Perforations	29.00			3479.01	
Recorder	0.01	13548	Outside	3479.02	
Bullnose	3.00			3482.02	71.02 Bottom Packers & Anchor

Total Tool Length: 98.02



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Keja 1-3

250 N Water Ste 300
Wichita KS 67202

3 11 21W Trego KS

Job Ticket: 24784

DST#: 2

ATTN: Terry McLeod

Test Start: 2006.04.29 @ 23:48:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.17 in³

Resistivity: ohm.m

Salinity: 2400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

70000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.025
30.00	MW show O 1%O 59%W 40%M	0.148
85.00	HOCM trace W 5%G 25%O 5%W 65%M	0.418
30.00	HOCM 5%G 40%O 55%M	0.375
2.00	FREE OIL	0.028

Total Length: 152.00 ft

Total Volume: 0.994 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

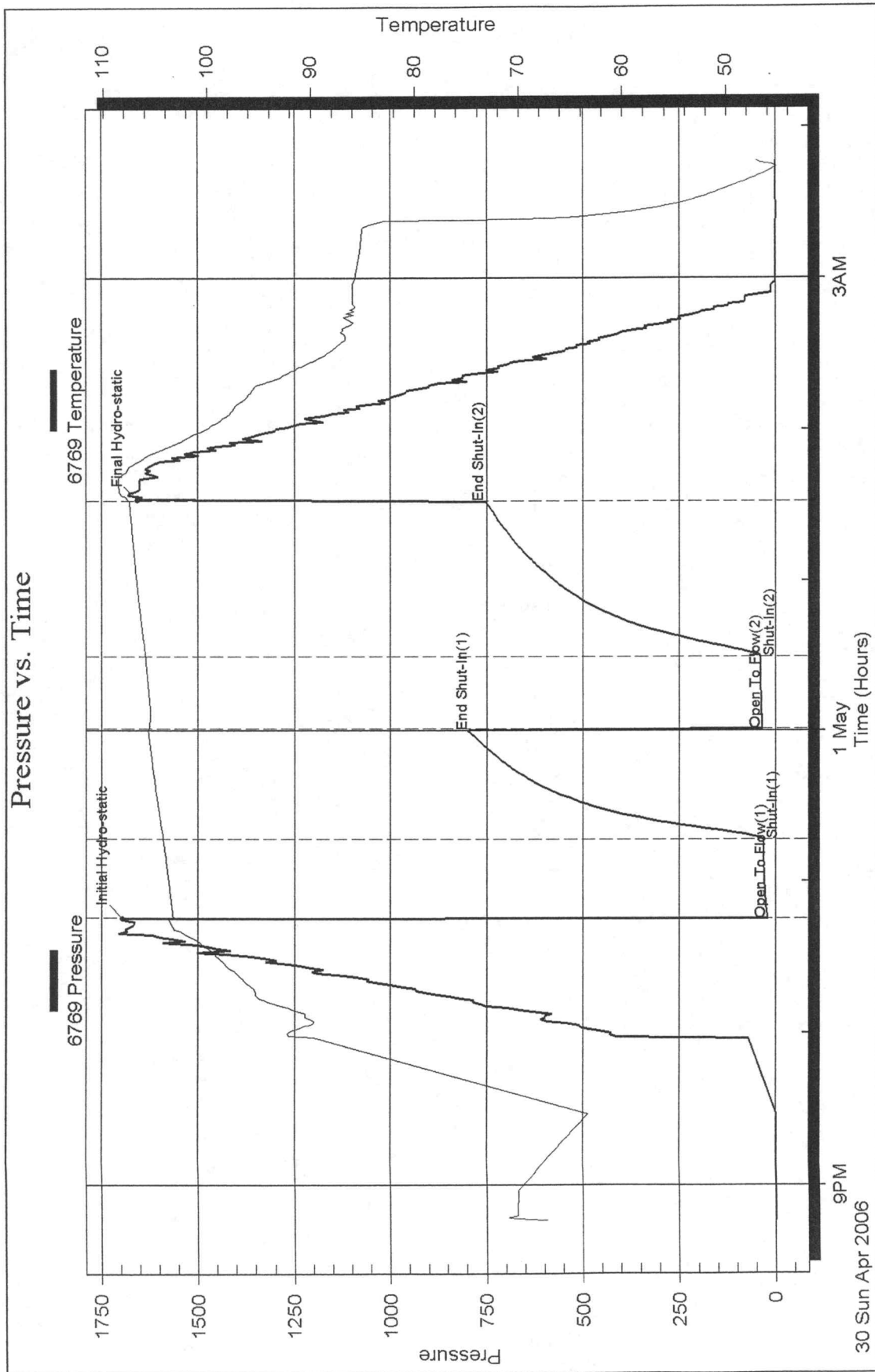
Serial #: 6769

Inside

Murfin Drilling Co Inc

3 11 21W Trego KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 24784

Printed: 2006.05.01 @ 11:40:44 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

3 11 21W Trego KS

Keja 1-3

Start Date: 2006.04.30 @ 20:45:38

End Date: 2006.05.01 @ 03:46:51

Job Ticket #: 24785 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

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24785

DST#: 3

Test Start: 2006.04.30 @ 20:45:38

GENERAL INFORMATION:

Formation: **LKC "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:45:06

Time Test Ended: 03:46:51

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: 3510.00 ft (KB) To 3622.00 ft (KB) (TVD)

Total Depth: 3622.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2106.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 38.69 psig @ 3515.01 ft (KB)

Start Date: 2006.04.30

End Date: 2006.05.01

Capacity: 7000.00 psig

Last Calib.: 2006.05.01

Start Time: 20:45:38

End Time: 03:46:51

Time On Btm: 2006.04.30 @ 22:44:51

Time Off Btm: 2006.05.01 @ 01:32:06

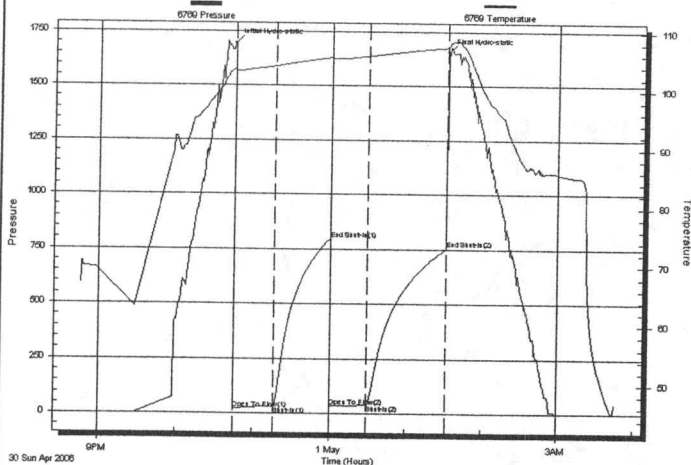
TEST COMMENT: IFP Weak blow throughout 1/2" - 1"

ISI No blow back

FFP No blow

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.99	103.78	Initial Hydro-static
1	20.18	103.06	Open To Flow (1)
32	31.22	104.25	Shut-In(1)
76	793.08	105.68	End Shut-In(1)
76	33.33	105.53	Open To Flow (2)
105	38.69	105.95	Shut-In(2)
167	752.38	107.48	End Shut-In(2)
168	1655.73	107.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mw/show O 100%M	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24785

DST#: 3

Test Start: 2006.04.30 @ 20:45:38

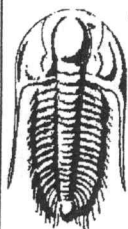
Tool Information

Drill Pipe:	Length: 3387.00 ft	Diameter: 3.80 inches	Volume: 47.51 bbl	Tool Weight:	2500.00 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 48.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3510.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	112.02 ft				
Tool Length:	139.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3488.00	
HYD S.I. Tool	5.00			3493.00	
Jars	5.00			3498.00	
Safety Joint	2.00			3500.00	
Packer	5.00			3505.00	27.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	3.00			3514.00	
C.O. Sub	1.00			3515.00	
Recorder	0.01	6769	Inside	3515.01	
Blank Spacing	93.00			3608.01	
C.O. Sub	1.00			3609.01	
Perforations	10.00			3619.01	
Recorder	0.01	13548	Outside	3619.02	
Bullnose	3.00			3622.02	112.02 Bottom Packers & Anchor

Total Tool Length: 139.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Keja 1-3

250 N Water Ste 300
Wichita KS 67202

3 11 21W Trego KS

Job Ticket: 24785

DST#: 3

ATTN: Terry McLeod

Test Start: 2006.04.30 @ 20:45:38

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 4400.00 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:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M w/show O 100%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

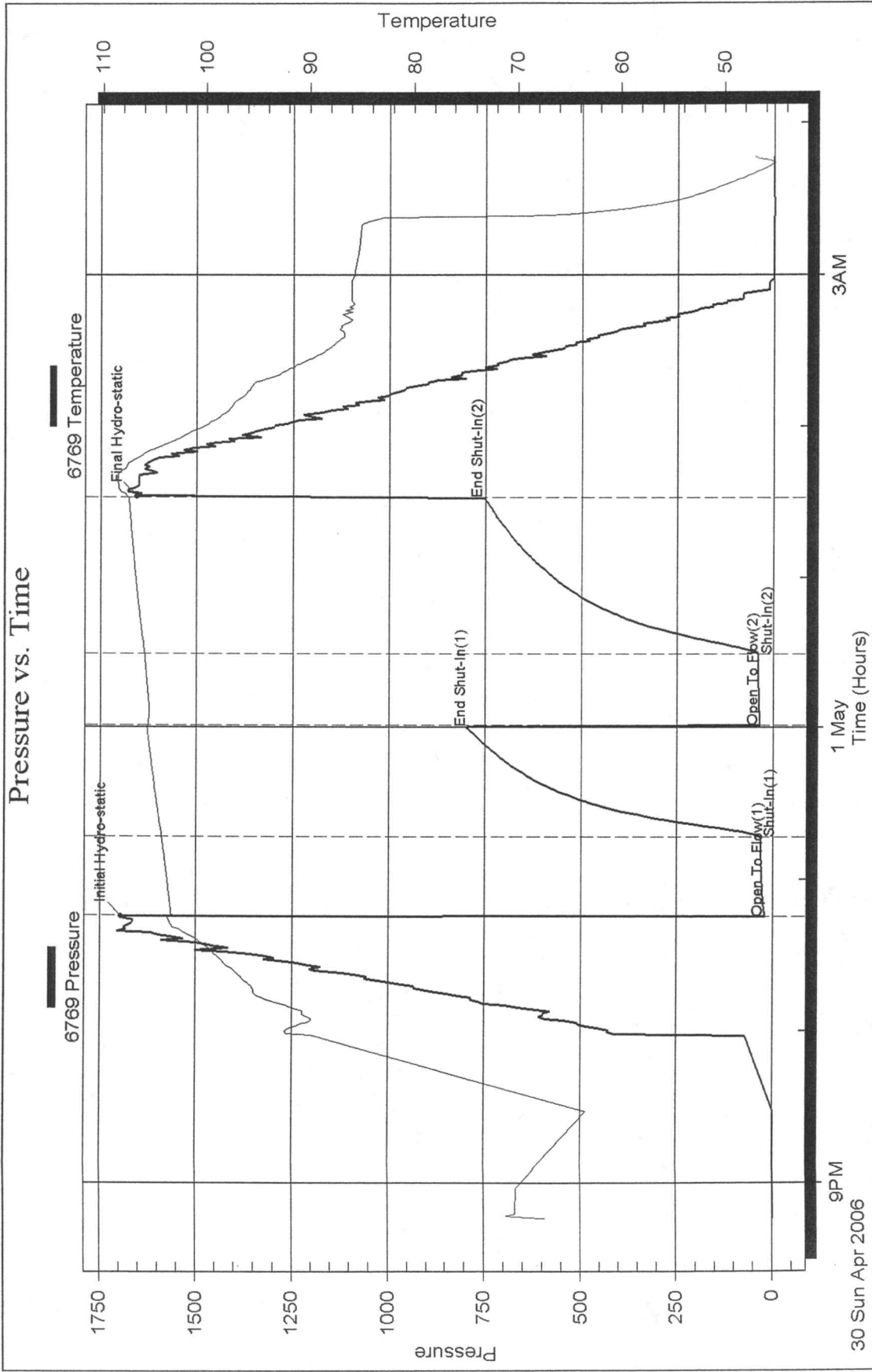
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water St Ste 300
Wichita KS 67202

ATTN: Terry McLeod

3 11 21W Trego KS

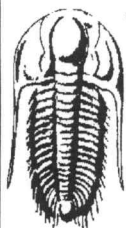
Keja 1-3

Start Date: 2006.05.03 @ 10:27:44

End Date: 2006.05.03 @ 18:58:42

Job Ticket #: 24786 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

Murfin Drilling Co Inc
250 N Water St Ste 300
Wichita KS 67202
ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24786

DST#: 4

Test Start: 2006.05.03 @ 10:27:44

GENERAL INFORMATION:

Formation: **Arbuckle (1)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:38:27

Time Test Ended: 18:58:42

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 24

Interval: **3714.00 ft (KB) To 3736.00 ft (KB) (TVD)**

Total Depth: 3839.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2106.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 77.45 psig @ 3715.01 ft (KB)

Start Date: 2006.05.03

End Date:

2006.05.03

Capacity: 7000.00 psig

Last Calib.: 2006.05.03

Start Time: 10:27:44

End Time:

18:58:42

Time On Btm: 2006.05.03 @ 12:38:12

Time Off Btm: 2006.05.03 @ 16:40:12

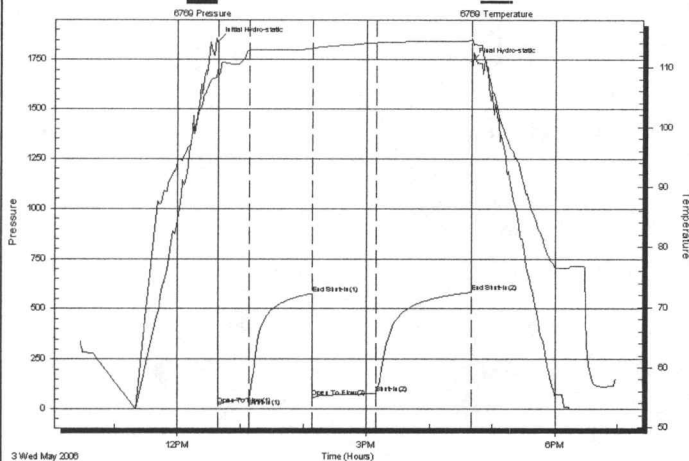
TEST COMMENT: IFP Weak to fair blow 1/2" - 4 1/2"

ISI No blow back

FFP Weak blow throughout sur 3"

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.25	109.75	Initial Hydro-static
1	20.45	109.21	Open To Flow (1)
31	54.63	112.83	Shut-In (1)
91	575.53	113.03	End Shut-In (1)
91	58.33	112.99	Open To Flow (2)
151	77.45	114.10	Shut-In (2)
242	583.47	114.46	End Shut-In (2)
243	1740.72	114.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SOCM 10%O 90%M thin w /M possible tilt	0.44
30.00	MO 80%O 20%M	0.15
30.00	FREE OIL 97% O 3%M	0.38

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water St Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24786

DST#: 4

Test Start: 2006.05.03 @ 10:27:44

Tool Information

Drill Pipe:	Length: 3570.00 ft	Diameter: 3.80 inches	Volume: 50.08 bbl	Tool Weight: 2500.00 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 50.69 bbl	Tool Chased 1.50 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3714.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3736.02 ft			
Interval between Packers:	22.02 ft			
Tool Length:	153.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3692.00	
HYD S.I. Tool	5.00			3697.00	
Jars	5.00			3702.00	
Safety Joint	2.00			3704.00	
Packer	5.00			3709.00	27.00 Bottom Of Top Packer
Packer	5.00			3714.00	
Stubb	1.00			3715.00	
Recorder	0.01	6769	Inside	3715.01	
Perforations	16.00			3731.01	
Recorder	0.01	13546	Outside	3731.02	
Blank Off Sub	1.00			3732.02	
Blank Spacing	4.00			3736.02	22.02 Tool Interval
Packer	5.00			3741.02	
Stubb	1.00			3742.02	
C.O. Sub	1.00			3743.02	
Blank Spacing	93.00			3836.02	
C.O. Sub	1.00			3837.02	
Recorder	0.01	13760	Below	3837.03	
Bullnose	3.00			3840.03	104.01 Bottom Packers & Anchor
Total Tool Length:		153.03			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Keja 1-3

250 N Water St Ste 300
Wichita KS 67202

3 11 21W Trego KS

Job Ticket: 24786

DST#: 4

ATTN: Terry McLeod

Test Start: 2006.05.03 @ 10:27:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SOCM 10%O 90%M thin w /M possible filtrat	0.443
30.00	MO 80%O 20%M	0.148
30.00	FREE OIL 97% O 3%M	0.375

Total Length: 150.00 ft

Total Volume: 0.966 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

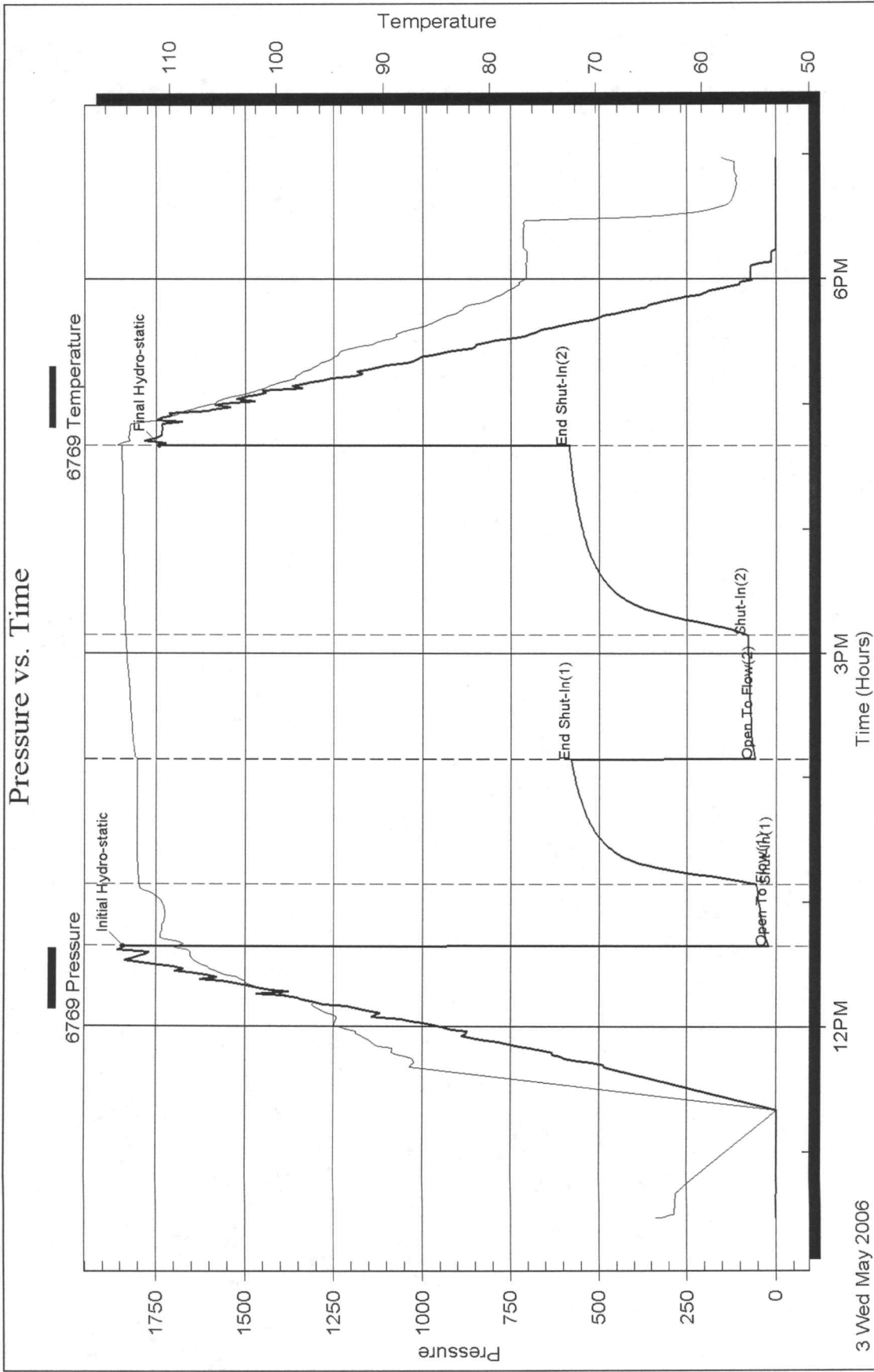
Serial #: 6769

Inside

Murfin Drilling Co Inc

3 11 21W Trego KS

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water St Ste 300
Wichita KS 67202

ATTN: Terry McLeod

3 11 21W Trego KS

Keja 1-3

Start Date: 2006.05.03 @ 19:16:00

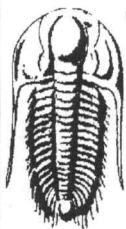
End Date: 2006.05.04 @ 04:10:13

Job Ticket #: 24787 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

Murfin Drilling Co Inc

250 N Water St Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Keja 1-3

3 11 21W Trego KS

Job Ticket: 24787

DST#: 5

Test Start: 2006.05.03 @ 19:16:00

GENERAL INFORMATION:

Formation: **Arbuckle (2)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:15:43

Time Test Ended: 04:10:13

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 24

Interval: **3740.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Total Depth: 3839.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2106.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 207.81 psig @ 3741.01 ft (KB)

Start Date: 2006.05.03

End Date:

2006.05.04

Capacity: 7000.00 psig

Last Calib.: 2006.05.04

Start Time: 19:16:00

End Time:

04:10:13

Time On Btm: 2006.05.03 @ 21:15:13

Time Off Btm: 2006.05.04 @ 01:16:28

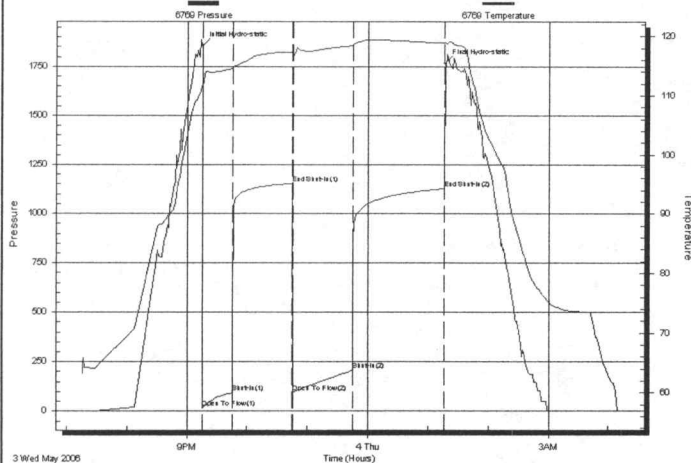
TEST COMMENT: IFP BOB 22"

ISI No blow back

FFP BOB 25"

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.98	111.78	Initial Hydro-static
1	18.76	111.57	Open To Flow (1)
30	93.75	114.58	Shut-In (1)
90	1152.94	117.37	End Shut-In (1)
91	96.64	117.04	Open To Flow (2)
150	207.81	118.43	Shut-In (2)
241	1127.61	118.85	End Shut-In (2)
242	1768.78	118.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100%M	0.05
350.00	MW 80%W 20%M	3.86
45.00	WM show Oil 30%W 70%M	0.63

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water St Ste 300
Wichita KS 67202
ATTN: Terry McLeod

Keja 1-3
3 11 21W Trego KS
Job Ticket: 24787 **DST#: 5**
Test Start: 2006.05.03 @ 19:16:00

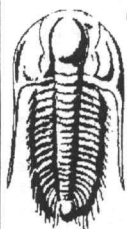
Tool Information

Drill Pipe:	Length: 3603.00 ft	Diameter: 3.80 inches	Volume: 50.54 bbl	Tool Weight: 2500.00 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 51.15 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3740.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3750.01 ft			
Interval between Packers:	10.01 ft			
Tool Length:	131.02 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				
60' GIP				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

S.I. Tool	5.00			3718.00	
HYD S.I. Tool	5.00			3723.00	
Jars	5.00			3728.00	
Safety Joint	2.00			3730.00	
Packer	5.00			3735.00	27.00 Bottom Of Top Packer
Packer	5.00			3740.00	
Stubb	1.00			3741.00	
Recorder	0.01	6769	Inside	3741.01	
Perforations	4.00			3745.01	
Blank Off Sub	1.00			3746.01	
Blank Spacing	4.00			3750.01	10.01 Tool Interval
Packer	5.00			3755.01	
Stubb	1.00			3756.01	
Perforations	21.00			3777.01	
C.O. Sub	1.00			3778.01	
Blank Spacing	62.00			3840.01	
C.O. Sub	1.00			3841.01	
Recorder	0.01	13760	Below	3841.02	
Bullnose	3.00			3844.02	94.01 Bottom Packers & Anchor

Total Tool Length: 131.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Keja 1-3

250 N Water St Ste 300
Wichita KS 67202

3 11 21W Trego KS

Job Ticket: 24787

DST#: 5

ATTN: Terry McLeod

Test Start: 2006.05.03 @ 19:16:00

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:

32000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M 100%M	0.049
350.00	MW 80%W 20%M	3.862
45.00	WM show Oil 30%W 70%M	0.631

Total Length: 405.00 ft

Total Volume: 4.542 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

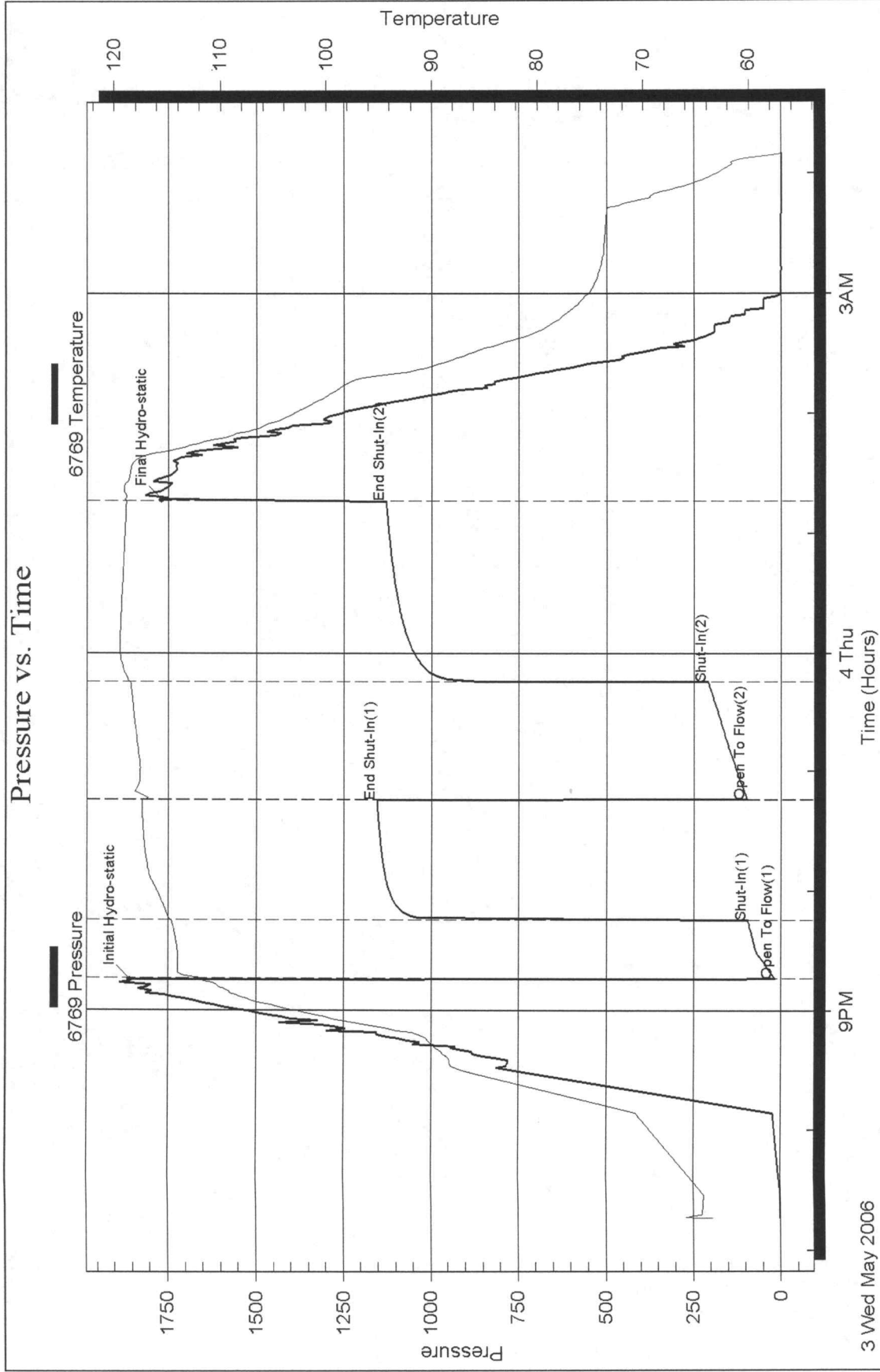
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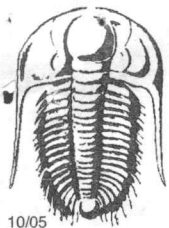
Inside

Murfin Drilling Co Inc

3 11 21W Trego KS

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24783

Test Ticket

Well Name & No. Murfin Drilling Rege 1-3 Test No. 1 Date 4-28-06
 Company Murfin Drilling Zone Tested Topeka
 Address 250 N. Water Ste. 300 Wichita, Ks 67202 Elevation 2106 KB 2101 GL
 Co. Rep / Geo. Terry McLead Rig Murfin 24
 Location: Sec. 3 Twp. 11^s Rge. 21^w Co. Trego State K
 Comment: _____ Release date / time: _____

Interval Tested 3155 Initial Str Wt./Lbs. 41,000 Unseated Str Wt./Lbs. 41,000
 Anchor Length 3175 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3150 Tool Weight 2500
 Bottom Packer Depth 3155 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3175 Wt. Pipe Run _____ Drill Collar Run 125
 Mud Wt. 8.6 LCM _____ Vis. 56 WL 6.8 Drill Pipe Size 4 1/2 X H Ft. Run 3011
 Blow Description IFP - weak blow throughout 1/4" - 2"
ISI - no blow back
FFP - no blow 10 min built to 1"
FST - no blow back

Recovery - Total Feet 65 GIP _____ Ft. in DC 65 Ft. in DP _____
 Rec. 60 Feet of WM show oil %gas show %oil 25 %water 75 %mud
 Rec. 5 Feet of mud %gas _____ %oil _____ %water 100 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 104 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .228 @ 54 °F Chlorides 41,800 ppm Recovery _____ Chlorides 1200 ppm System

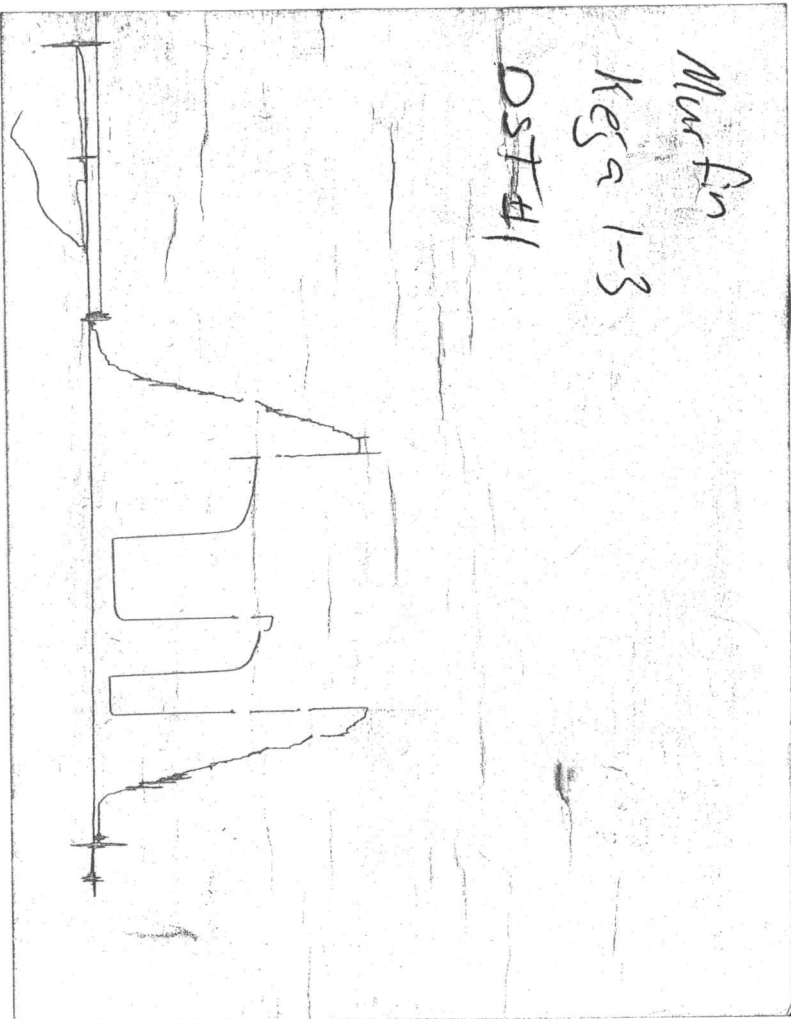
AK-1	Alpine	Recorder No.	<u>6769</u>	Test	☒	<u>1000.00</u>
(A) Initial Hydrostatic Mud	<u>1444</u> PSI	(depth)	<u>3157</u>	Jars	☒	<u>250.0</u>
(B) First Initial Flow Pressure	<u>12</u> PSI	Recorder No.	<u>13548</u>	Safety Jt.	☒	<u>75.00</u>
(C) First Final Flow Pressure	<u>32</u> PSI	(depth)	<u>3172</u>	Circ Sub	_____	_____
(D) Initial Shut-In Pressure	<u>978</u> PSI	Recorder No.	_____	Sampler	_____	_____
(E) Second Initial Flow Pressure	<u>33</u> PSI	(depth)	_____	Straddle	_____	_____
(F) Second Final Flow Pressure	<u>61</u> PSI	Initial Opening	<u>30</u>	Ext. Packer	_____	_____
(G) Final Shut-In Pressure	<u>948</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer	_____	_____
(Q) Final Hydrostatic Mud	<u>1426</u> PSI	Final Flow	<u>4860</u>	Ruined Packer	_____	_____
		Final Shut-In	<u>60</u>	Mileage	☒	<u>85.00</u> <u>18 R</u>
		T-On Location	<u>1720</u>	Sub Total:	_____	<u>1410.00</u>
		T-Started	<u>1928</u>	Std. By	<u>lhr</u>	<u>56</u>
		T-Open	<u>2133</u>	Acc. Chg:	_____	_____
		T-Pulled	<u>0033 0048</u>	Other:	_____	_____
		T-Out	<u>0244</u>	Total:	_____	<u>1560.00</u>

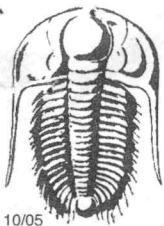
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Approved By [Signature]
 Our Representative Brian Fairbank (Tha 4)

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24784

Test Ticket

Well Name & No. Keja 1-3 Test No. 2 Date 4-29-06
 Company Murfin Drilling Zone Tested LKC "B-F"
 Address 250 N. Water St, 300 Wichita, KS 67202 Elevation 2106 KB 2101 GL
 Co. Rep / Geo. Terry McLeod Rig Murfin 24
 Location: Sec. 3 Twp. 11^s Rge. 21^w Co. Trego State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3411-3482 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 71 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3406 Tool Weight 2500
 Bottom Packer Depth 3411 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3482 Wt. Pipe Run _____ Drill Collar Run 125
 Mud Wt. 8.9 LCM _____ Vis. 54 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3291
 Blow Description IFP- weak to fair blow 1/4"- 5/2"
ISI- no blow back
FFP- BOB 35 min
FSI- weak sur. blow back

Recovery - Total Feet 152 GIP 60 Ft. in DC 125 Ft. in DP 27
 1 Rec. 2 Feet of Free Oil %gas _____ %oil _____ %water _____ %mud _____
 3 Rec. 85 Feet of HOCM trace w 5 %gas 25 %oil 5 %water 65 %mud
 2 Rec. 30 Feet of HOCM 5 %gas 40 %oil _____ %water 55 %mud
 4 Rec. 30 Feet of MW show 0 %gas _____ %oil 59 %water 40 %mud
 5 Rec. 5 Feet of mud 100% %gas _____ %oil _____ %water _____ %mud
 BHT 110 °F Gravity _____ °API D @ _____ °F Corrected Gravity TSTG °API
 RW .168 @ 48 °F Chlorides 70,000 ppm Recovery _____ Chlorides 2400 ppm System

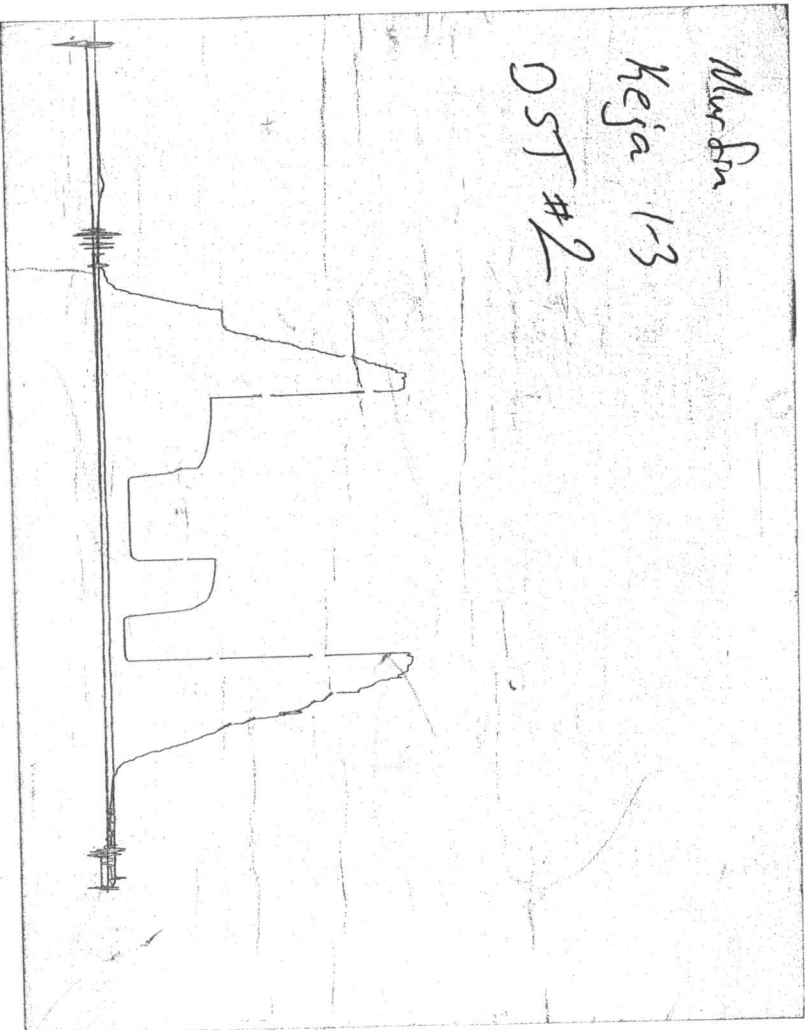
AK-1		Alpine					
(A) Initial Hydrostatic Mud	<u>1606</u> PSI	Recorder No.	<u>6769</u>	Test	☒	<u>1000.00</u>	
(B) First Initial Flow Pressure	<u>22</u> PSI	(depth)	<u>3418</u>	Jars	☒	<u>250.00</u>	
(C) First Final Flow Pressure	<u>81</u> PSI	Recorder No.	<u>13548</u>	Safety Jt.	☒	<u>75.00</u>	
(D) Initial Shut-In Pressure	<u>590</u> PSI	(depth)	<u>3479</u>	Circ Sub			
(E) Second Initial Flow Pressure	<u>75</u> PSI	Recorder No.		Sampler			
(F) Second Final Flow Pressure	<u>97</u> PSI	(depth)		Straddle			
(G) Final Shut-In Pressure	<u>589</u> PSI	Initial Opening	<u>30</u>	Ext. Packer			
(Q) Final Hydrostatic Mud	<u>1595</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer			
		Final Flow	<u>60</u>	Ruined Packer			
		Final Shut-In	<u>60</u>	Mileage	☒	<u>85.01</u>	
		T-On Location	<u>2244</u>	Sub Total:		<u>1410.4</u>	
		T-Started	<u>0235 2348</u>	Std. By	<u>1.5</u>	<u>75</u>	
		T-Open	<u>0239</u>	Acc. Chg:			
		T-Pulled	<u>0554</u>	Other:			
		T-Out	<u>0812</u>	Total:		<u>1485.00</u>	

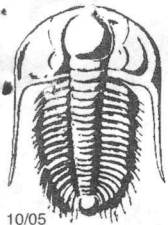
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Approved By Terry McLeod
 Our Representative Brian Fairbank

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24785

Test Ticket

Well Name & No. <u>Keja 1-3</u>	Test No. <u>3</u>	Date <u>4-30-06</u>
Company <u>Murfin Drilling</u>	Zone Tested <u>LKC "H-L"</u>	
Address <u>250 N. Market Ste. 300 Wichita, KS 67202</u>	Elevation <u>2106</u>	KB <u>2101</u> GL
Co. Rep / Geo. <u>Terry McLeod</u>	Rig <u>Murfin 24</u>	
Location: Sec. <u>3</u> Twp. <u>11^s</u> Rge. <u>21^w</u>	Co. <u>Trego</u>	State <u>K</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3510-3622</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>44,000</u>
Anchor Length <u>112</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3505</u>	Tool Weight <u>2500</u>	
Bottom Packer Depth <u>3510</u>	Hole Size 7 7/8" <u>-</u>	Rubber Size 6 3/4" <u>-</u>
Total Depth <u>3622</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>125</u>
Mud Wt. <u>8.9</u> LCM <u>-</u> Vis. <u>55</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3387</u>
Blow Description <u>TFP- weak blow throughout 1/2"-1"</u>		
<u>ISI- no blow back</u>		
<u>FFP- no blow</u>		
<u>FSI- no blow back</u>		

Recovery - Total Feet <u>30</u>	GIP <u>-</u>	Ft. in DC <u>30</u>	Ft. in DP <u>-</u>
Rec. <u>30</u>	Feet of <u>mud show oil</u>	%gas <u>show</u>	%oil <u>100</u> %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 <u>107</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>4400</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1666</u> PSI	Alpine	Recorder No. <u>6769</u>	Test ☒	<u>1000.00</u>
(B) First Initial Flow Pressure	<u>20</u> PSI		(depth) <u>3515</u>	Jars ☒	<u>250.00</u>
(C) First Final Flow Pressure	<u>31</u> PSI		Recorder No. <u>13548</u>	Safety Jt. ☒	<u>75.00</u>
(D) Initial Shut-In Pressure	<u>793</u> PSI		(depth) <u>3622</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>33</u> PSI		Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>39</u> PSI		(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>752</u> PSI	Initial Opening	<u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1650</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer _____	

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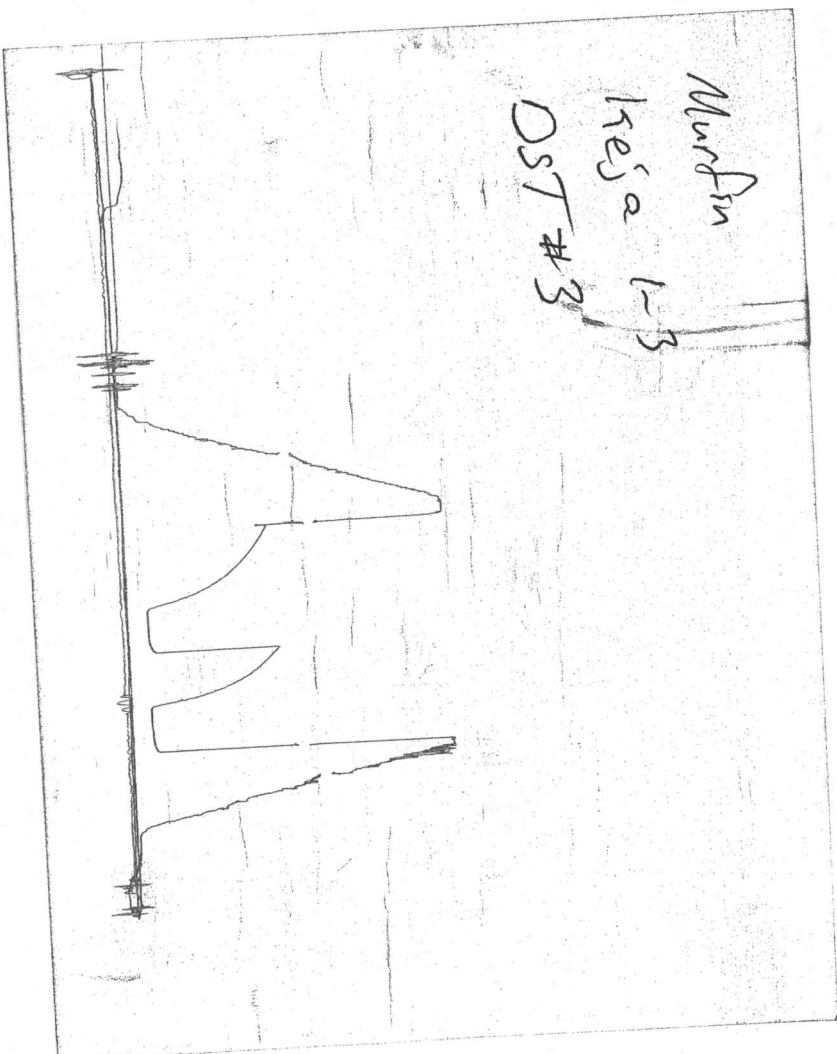
Approved By _____

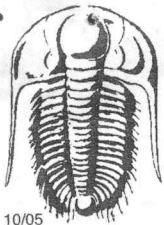
Our Representative Brian Fairbank (Thinks)

Final Flow	<u>30</u>	Ruined Packer	<u>85.00</u>
Final Shut-In	<u>60</u>	Mileage ☒	<u>68 R</u>
T-On Location	<u>1936</u>	Sub Total:	<u>1410.00</u>
T-Started	<u>2045</u>	Std. By	<u>_____</u>
T-Open	<u>2245</u>	Acc. Chg:	<u>_____</u>
T-Pulled	<u>0130</u>	Other:	<u>_____</u>
T-Out	<u>0346</u>	Total:	<u>_____</u>

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24786

Test Ticket

Well Name & No. Keja 1-3 Test No. 4 Date 5-3-06
 Company Murfin Drilling Zone Tested Arbuckle (1)
 Address 250 N. Market St. 300 Wichita, KS 67202 Elevation 2106 KB 2101 GL
 Co. Rep / Geo. Terry McLeod Rig Murfin 24
 Location: Sec. 3 Twp. 11^s Rge. 21^w Co. Trego State KU
 Comment: _____ Release date / time: _____

Interval Tested 3714-3736 Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48,000
 Anchor Length 22 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3709 Tool Weight 2500
 Bottom Packer Depth 3714 - 3736 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3839 Wt. Pipe Run - Drill Collar Run 125
 Mud Wt. 9.0 LCM - Vis. 55 WL 7.2 Drill Pipe Size 4 1/2 x 4 Ft. Run 3570
 Blow Description IFP- weak to fair blow 1/2" - 4 1/2"
ISI- no blow back
FFP- weak blow throughout sur - 3"
FSI- no blow back

Recovery - Total Feet 150 GIP - Ft. in DC 125 Ft. in DP 25
 Rec. 30' Feet of Free oil %gas 97 %oil - %water 3 %mud -
 Rec. 30' Feet of MO %gas 80 %oil - %water 20 %mud -
 Rec. 90' Feet of SOCM thin y/m %gas 10 %oil - %water 90 %mud -
 Rec. _____ Feet of Possible Citrate %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 114 °F Gravity 28 °API D @ 50 °F Corrected Gravity 27 °API
 RW 28 @ 50 °F Chlorides _____ ppm Recovery _____ Chlorides 5800 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1797	PSI	Recorder No.	6769	Test	✓	1000.00
(B) First Initial Flow Pressure			20	PSI	(depth)	3715	Jars		
(C) First Final Flow Pressure			55	PSI	Recorder No.	13548	Safety Jt.	✓	75.6
(D) Initial Shut-In Pressure			576	PSI	(depth)	3731	Circ Sub		
(E) Second Initial Flow Pressure			58	PSI	Recorder No.	13760	Sampler		
(F) Second Final Flow Pressure			77 583	PSI	(depth)	3832	Straddle	✓	350
(G) Final Shut-In Pressure			583 1735	PSI	Initial Opening	30	Ext. Packer	✓	200
(Q) Final Hydrostatic Mud			1735	PSI	Initial Shut-In	60	Shale Packer		
					Final Flow	60	Ruined Packer		
					Final Shut-In	90	Mileage	✓	85.00 681
					T-On Location	0930	Sub Total:		1710
					T-Started	1027	Std. By	1.5	75
					T-Open	1238	Acc. Chg:		
					T-Pulled	1638	Other:		
					T-Out	1858	Total:		\$1785

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 _____
 Our Representative Brian Fairbank (Thak)

CHART PAGE

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

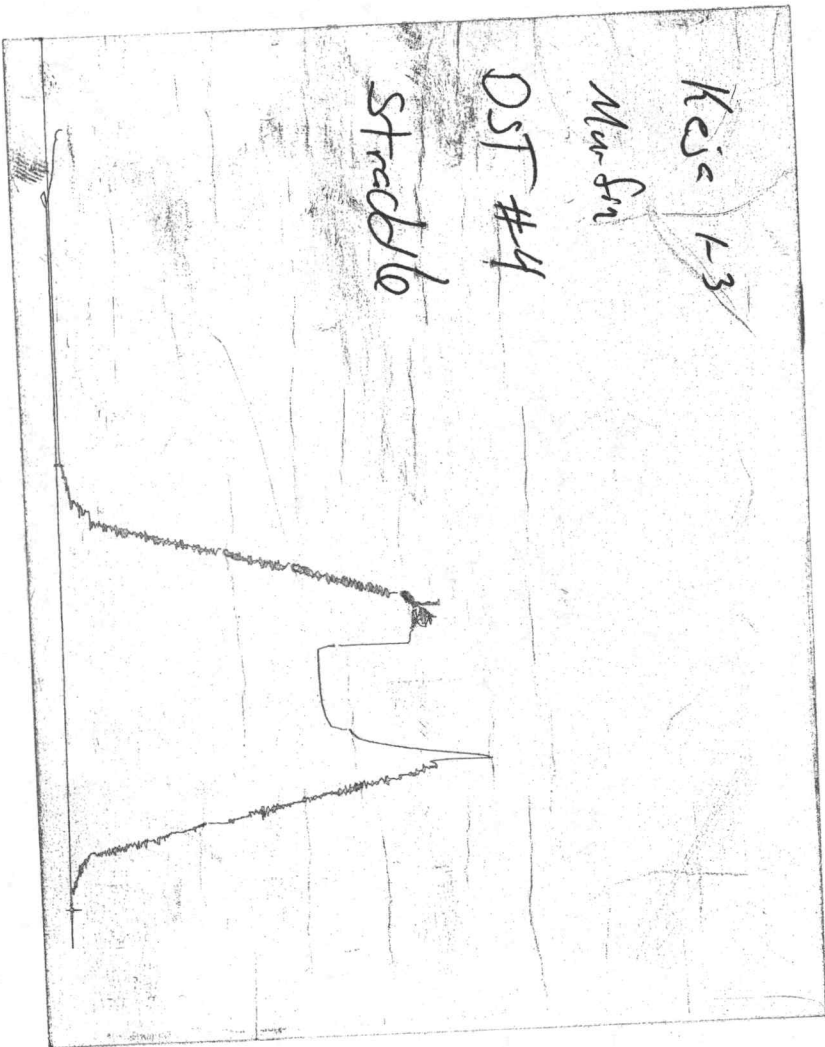
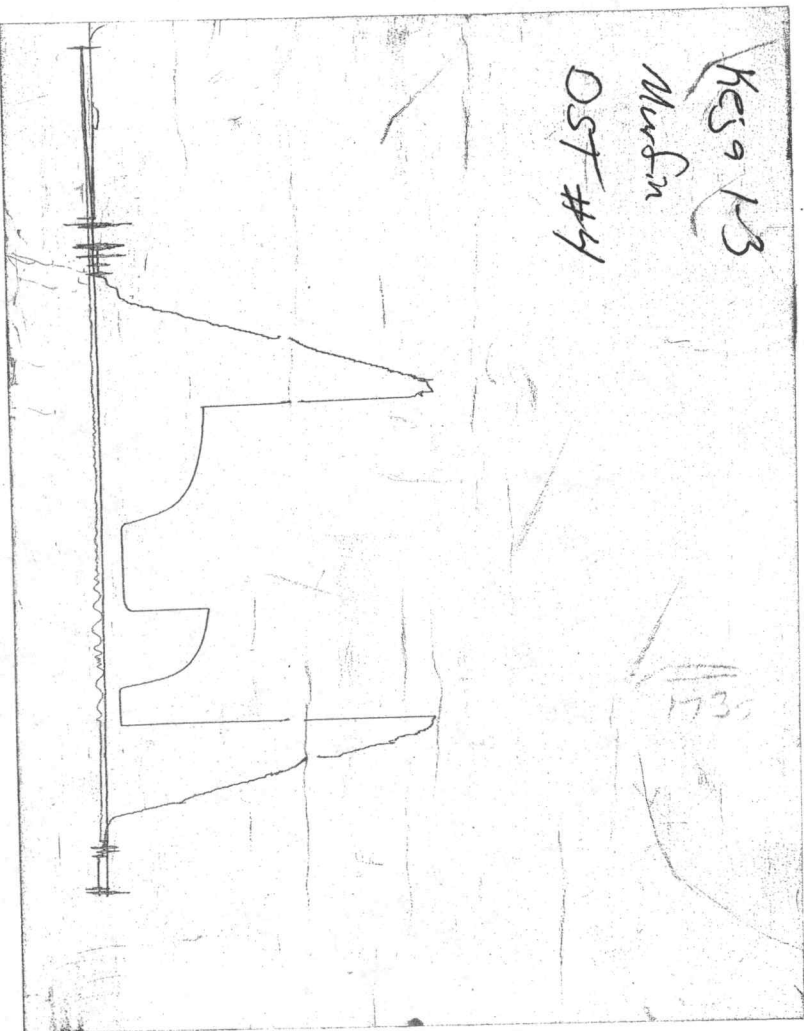
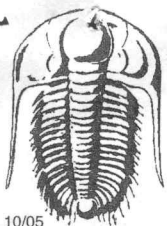


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24787

Test Ticket

Well Name & No. Keja 1-3 Test No. 5 Date 5-3-06
 Company Murfin Drilling Zone Tested Arbuckle (2)
 Address 250 N. Market Ste. 300 Wichita, Ks 67202 Elevation 2106 KB 2101 GL
 Co. Rep / Geo. Terry McLeod Rig Murfin 24
 Location: Sec. 3 Twp. 11 Rge. 21 Co. Trego State K
 Comment: _____ Release date / time: _____

Interval Tested 3740 - 3750 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 48,000
 Anchor Length 10 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3735 Tool Weight 2500
 Bottom Packer Depth 3740 - 3750 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3839 Wt. Pipe Run - Drill Collar Run 125
 Mud Wt. 9.0 LCM - Vis. 46 WL 7.2 Drill Pipe Size 4 1/2 x 4 Ft. Run 3603
 Blow Description IFP- BOB 22 min
ISI- no blow back
FFP- BOB 25 min.
FSI- no blow back

Recovery - Total Feet 405 GIP 60 Ft. in DC 125 Ft. in DP 280
 Rec. 45 Feet of WM show 0 %gas show %oil 30 %water 70 %mud
 Rec. 350 Feet of MW %gas - %oil 80 %water 20 %mud
 Rec. 10 Feet of mud %gas - %oil - %water 100 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 119 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .260 @ 58 °F Chlorides 32,000 ppm Recovery _____ Chlorides 5300 ppm System

AK-1 # _____ Alpine _____
 (A) Initial Hydrostatic Mud 1814 PSI Recorder No. 6769 Test ✓ 1000.00
 (B) First Initial Flow Pressure 19 PSI (depth) 3741 Jars _____
 (C) First Final Flow Pressure 94 PSI Recorder No. 13545 Safety Jt. ✓ 75.00
 (D) Initial Shut-In Pressure 1153 PSI (depth) _____ Circ Sub _____
 (E) Second Initial Flow Pressure 97 PSI Recorder No. 13760 Sampler _____
 (F) Second Final Flow Pressure 208 PSI (depth) 3836 Straddle ✓ 350
 (G) Final Shut-In Pressure 1128 PSI Initial Opening 30 Ext. Packer ✓ 200
 (Q) Final Hydrostatic Mud 1768 PSI Initial Shut-In 60 Shale Packer _____
 Final Flow 60 Ruined Packer _____
 Final Shut-In 90 Mileage _____
 T-On Location _____ Sub Total: 1425.00
 T-Started 1915 Std. By lhr 50
 T-Open 2115 Acc. Chg: _____
 T-Pulled 0115 Other: _____
 T-Out 0410 Total: 11675.00

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Approved By Terry McLeod
 Our Representative Brian Fairbank (Thanks)

CHART PAGE

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