



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

31 14S 16W Ellis KS

Stramel #1-31

Start Date: 2006.05.09 @ 22:56:17

End Date: 2006.05.10 @ 05:51:32

Job Ticket #: 23970 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

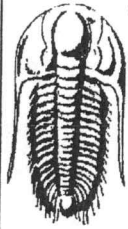
Stramel #1-31

31 14S 16W Ellis KS

DST # 1

"A-B-C-D-E-F"

2006.05.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23970

DST#: 1

ATTN: Brad Rine

Test Start: 2006.05.09 @ 22:56:17

GENERAL INFORMATION:

Formation: **"A-B-C-D-E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:58:02

Time Test Ended: 05:51:32

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3150.00 ft (KB) To 3285.00 ft (KB) (TVD)**

Total Depth: 3285.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1930.00 ft (KB)

1925.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 71.99 psig @ 3154.00 ft (KB)

Start Date: 2006.05.09

End Date:

2006.05.10

Capacity: 7000.00 psig

Last Calib.: 2006.05.10

Start Time: 22:56:19

End Time:

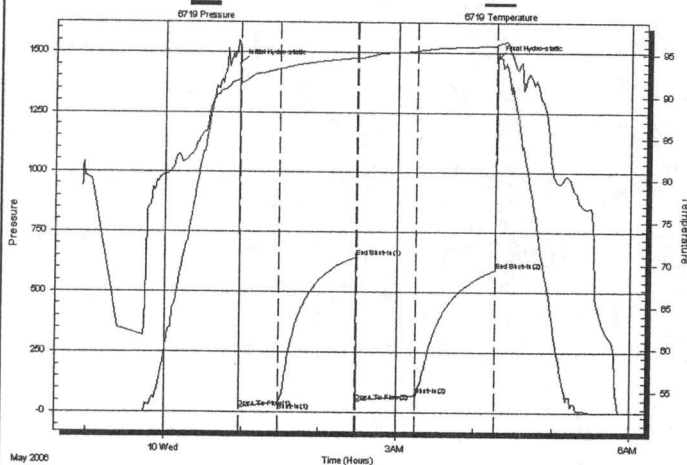
05:51:32

Time On Btm: 2006.05.10 @ 00:57:47

Time Off Btm: 2006.05.10 @ 04:16:47

TEST COMMENT: IFF Weak Blow Built to 3 in
ISI Dead
FFP Weak Blow Built to 3/4 in
FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1452.61	92.03	Initial Hydro-static
1	16.71	91.74	Open To Flow (1)
32	42.31	93.25	Shut-In(1)
91	642.93	94.60	End Shut-In(1)
92	45.91	94.48	Open To Flow (2)
138	71.99	95.47	Shut-In(2)
199	592.99	96.09	End Shut-In(2)
199	1477.13	96.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drilling Mud	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23970

DST#: 1

ATTN: Brad Rine

Test Start: 2006.05.09 @ 22:56:17

Tool Information

Drill Pipe:	Length: 2956.00 ft	Diameter: 3.80 inches	Volume: 41.46 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 36000.00 lb
			Total Volume: 42.36 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3150.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	135.00 ft			
Tool Length:	158.00 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			3128.00	
Shut In Tool	5.00			3133.00	
Hydraulic tool	5.00			3138.00	
Safety Joint	2.00			3140.00	
Packer	5.00			3145.00	23.00 Bottom Of Top Packer
Packer	5.00			3150.00	
Stubb	1.00			3151.00	
Perforations	2.00			3153.00	
Change Over Sub	1.00			3154.00	
Recorder	0.00	6719	Inside	3154.00	
Blank Spacing	93.00			3247.00	
Change Over Sub	1.00			3248.00	
Perforations	34.00			3282.00	
Recorder	0.00	13221	Outside	3282.00	
Bullnose	3.00			3285.00	135.00 Bottom Packers & Anchor

Total Tool Length: 158.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23970

DST#: 1

ATTN: Brad Rine

Test Start: 2006.05.09 @ 22:56:17

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Drilling Mud	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

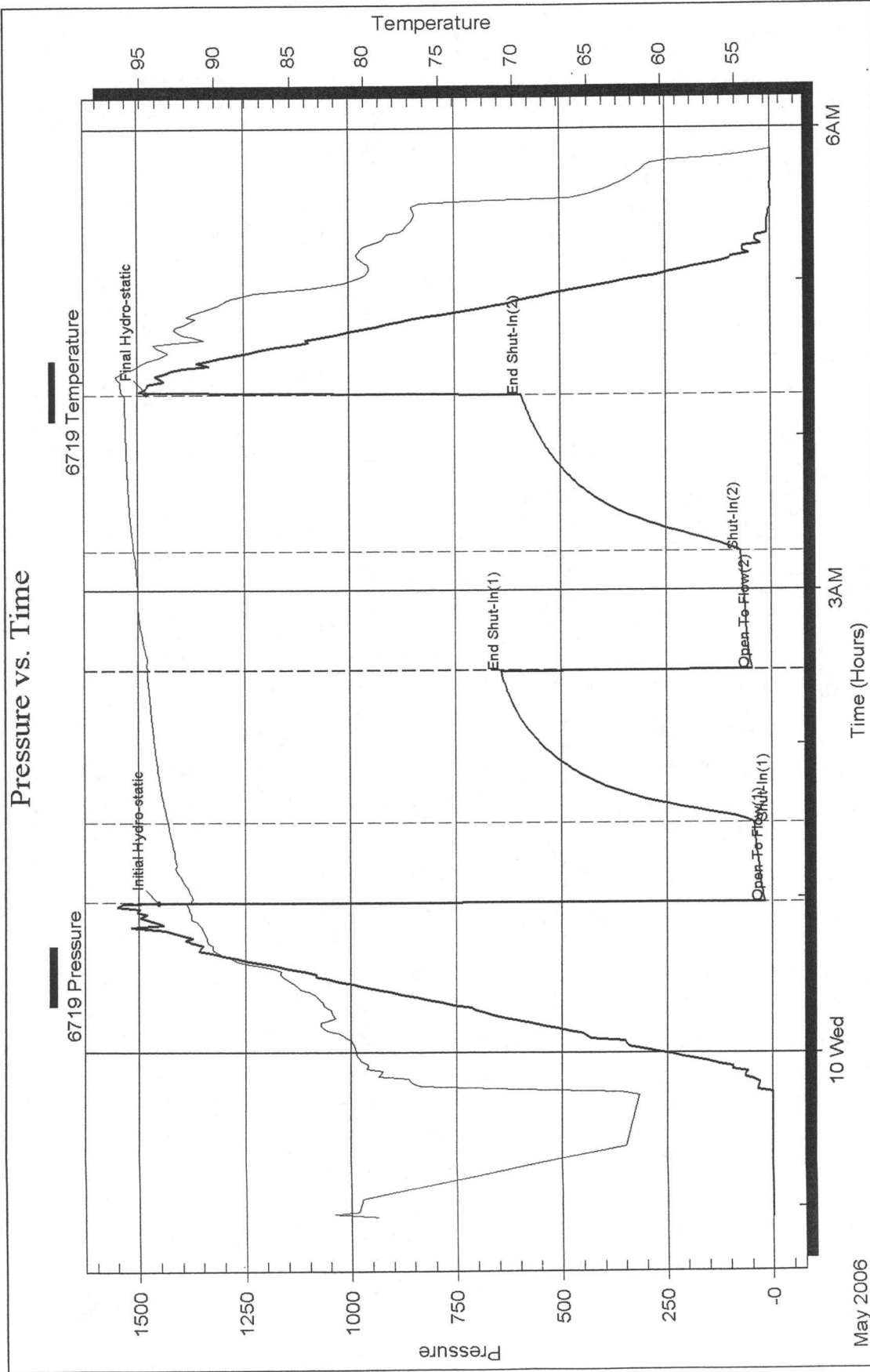
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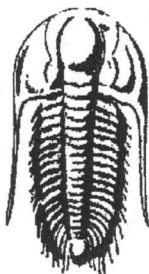
Murfin Drilling Company

31 14S 16W Ellis KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

31 14S 16W Ellis KS

Stramel #1-31

Start Date: 2006.05.10 @ 11:48:01

End Date: 2006.05.10 @ 17:45:46

Job Ticket #: 23971 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Stramel #1-31

31 14S 16W Ellis KS

DST # 2

LKC-"G"

2006.05.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Stramel #1-31

31 14S 16W Ellis KS

Job Ticket: 23971

DST#: 2

Test Start: 2006.05.10 @ 11:48:01

GENERAL INFORMATION:

Formation: **LKC-"G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:45:01
 Time Test Ended: 17:45:46

Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 32

Interval: **3289.00 ft (KB) To 3302.00 ft (KB) (TVD)**
 Total Depth: 3302.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1930.00 ft (KB)
 1925.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719

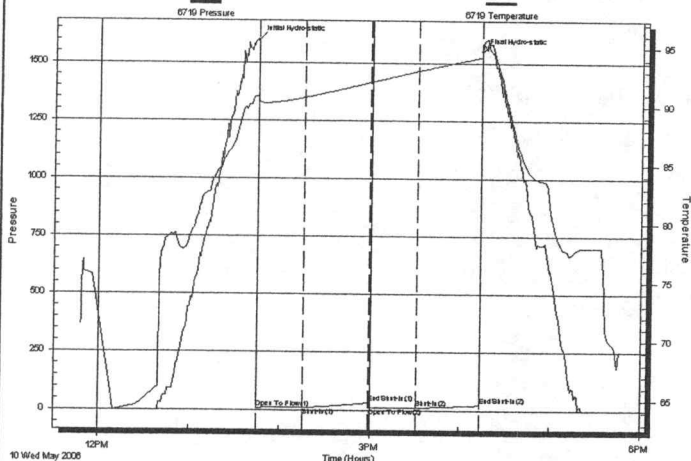
Inside

Press@RunDepth: 13.26 psig @ 3291.00 ft (KB)
 Start Date: 2006.05.10 End Date: 2006.05.10
 Start Time: 11:48:03 End Time: 17:45:46

Capacity: 7000.00 psig
 Last Calib.: 2006.05.10
 Time On Btm: 2006.05.10 @ 13:44:46
 Time Off Btm: 2006.05.10 @ 16:13:46

TEST COMMENT: IFP Intermittant Surf Blow Throughout
 ISI Dead
 FFP Dead
 FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

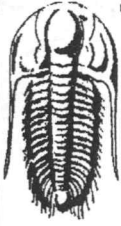
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.07	90.87	Initial Hydro-static
1	11.09	90.56	Open To Flow (1)
31	12.83	90.76	Shut-In(1)
75	34.34	92.07	End Shut-In(1)
75	12.99	92.09	Open To Flow (2)
106	13.26	93.04	Shut-In(2)
149	24.40	94.24	End Shut-In(2)
149	1550.60	94.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23971

DST#: 2

ATTN: Brad Rine

Test Start: 2006.05.10 @ 11:48:01

Tool Information

Drill Pipe:	Length: 3112.00 ft	Diameter: 3.80 inches	Volume: 43.65 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 36000.00 lb
		Total Volume:	44.55 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3289.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 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			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Safety Joint	2.00			3279.00	
Packer	5.00			3284.00	23.00 Bottom Of Top Packer
Packer	5.00			3289.00	
Stubb	1.00			3290.00	
Perforations	1.00			3291.00	
Recorder	0.00	6719	Inside	3291.00	
Perforations	8.00			3299.00	
Recorder	0.00	13221	Outside	3299.00	
Bullnose	3.00			3302.00	13.00 Bottom Packers & Anchor

Total Tool Length: 36.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23971

DST#: 2

ATTN: Brad Rine

Test Start: 2006.05.10 @ 11:48:01

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 0.06 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

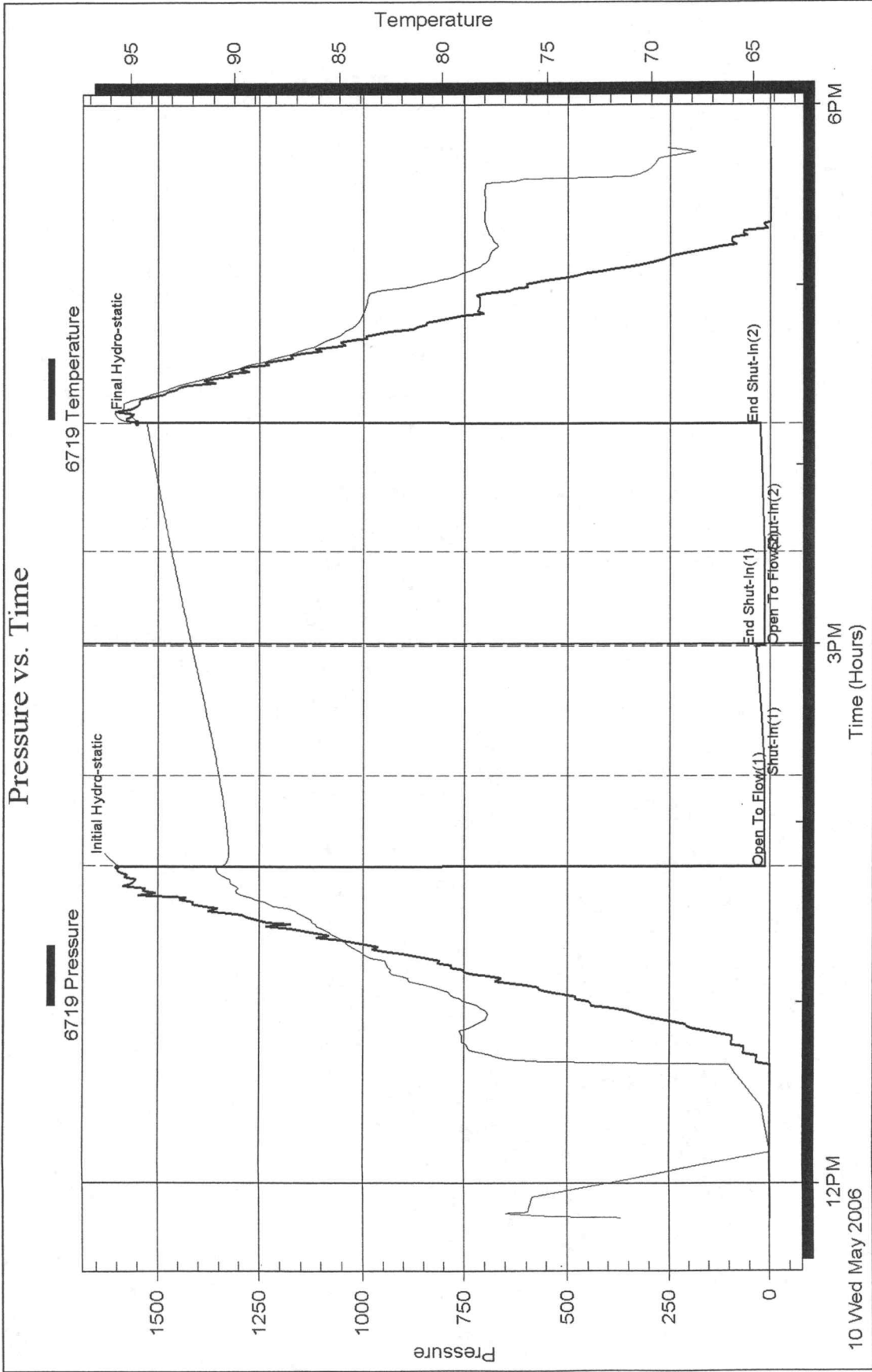
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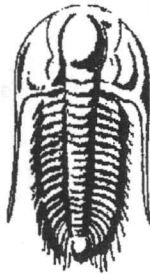
Murfin Drilling Company

31 14S 16W Ellis KS

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

31 14S 16W Ellis KS

Stramel #1-31

Start Date: 2006.05.11 @ 06:28:04

End Date: 2006.05.11 @ 12:21:19

Job Ticket #: 23972 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 Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Stramel #1-31

31 14S 16W Ellis KS

Job Ticket: 23972

DST#: 3

Test Start: 2006.05.11 @ 06:28:04

GENERAL INFORMATION:

Formation: **LKC-"H-I-J-K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:19

Time Test Ended: 12:21:19

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3326.00 ft (KB) To 3434.00 ft (KB) (TVD)**

Total Depth: 3434.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1930.00 ft (KB)

1925.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 36.75 psig @ 3329.00 ft (KB)

Start Date: 2006.05.11 End Date: 2006.05.11

Start Time: 06:28:06 End Time: 12:21:19

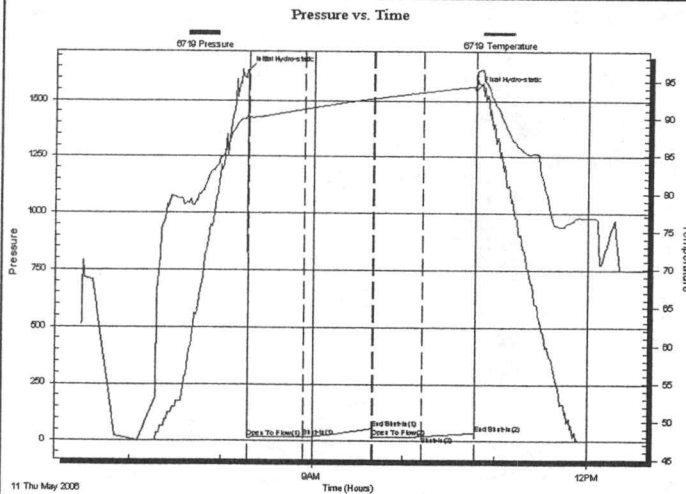
Capacity: 7000.00 psig

Last Calib.: 2006.05.11

Time On Btm: 2006.05.11 @ 08:17:04

Time Off Btm: 2006.05.11 @ 10:47:04

TEST COMMENT: IFP Weak Blow Built to 3/4 in
ISI Dead
FFP Dead
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.08	90.29	Initial Hydro-static
1	14.99	89.83	Open To Flow (1)
37	16.99	91.18	Shut-In(1)
83	56.03	92.64	End Shut-In(1)
84	17.27	92.63	Open To Flow (2)
116	21.92	93.46	Shut-In(2)
150	36.75	94.28	End Shut-In(2)
150	1549.75	94.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

ATTN: Brad Rine

Job Ticket: 23972

DST#: 3

Test Start: 2006.05.11 @ 06:28:04

Tool Information

Drill Pipe:	Length: 2961.00 ft	Diameter: 3.80 inches	Volume: 41.54 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 365.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 43.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3326.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	131.00 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			3304.00	
Shut In Tool	5.00			3309.00	
Hydraulic tool	5.00			3314.00	
Safety Joint	2.00			3316.00	
Packer	5.00			3321.00	23.00 Bottom Of Top Packer
Packer	5.00			3326.00	
Stubb	1.00			3327.00	
Perforations	1.00			3328.00	
Change Over Sub	1.00			3329.00	
Recorder	0.00	6719	Inside	3329.00	
Blank Spacing	93.00			3422.00	
Change Over Sub	1.00			3423.00	
Perforations	8.00			3431.00	
Recorder	0.00	13221	Outside	3431.00	
Bullnose	3.00			3434.00	108.00 Bottom Packers & Anchor

Total Tool Length: 131.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23972

DST#: 3

ATTN: Brad Rine

Test Start: 2006.05.11 @ 06:28:04

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 9800.00 ppm

Filter Cake: 2.00 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
3.00	Mud	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

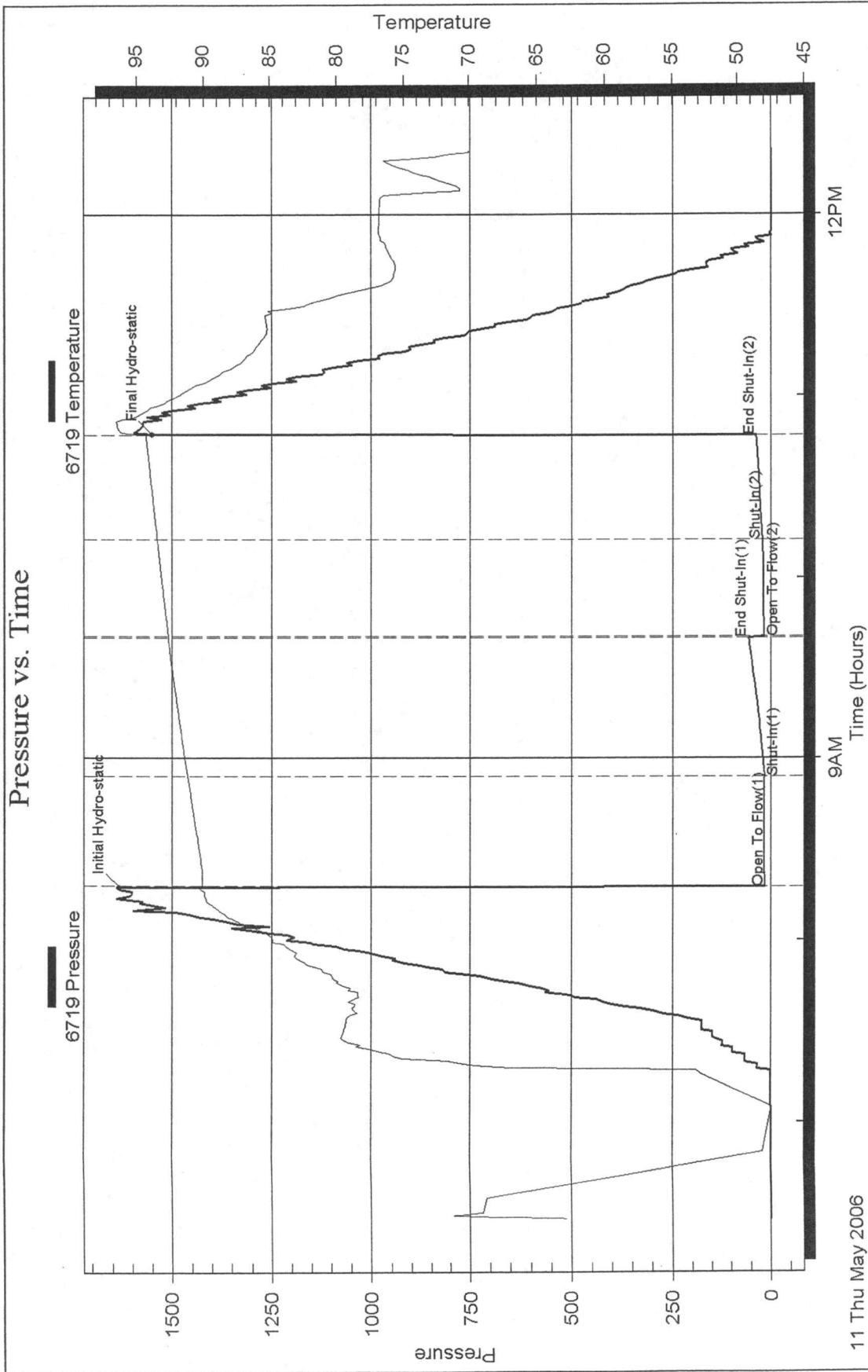
Inside

Murfin Drilling Company

31 14S 16W Ellis KS

DST Test Number: 3

Pressure vs. Time



11 Thu May 2006

Trilobite Testing, Inc

Ref. No: 23972

Printed: 2006.05.15 @ 12:45:52 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

31 14S 16W Ellis KS

Stramel #1-31

Start Date: 2006.05.11 @ 19:47:39

End Date: 2006.05.12 @ 02:29:54

Job Ticket #: 23973 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

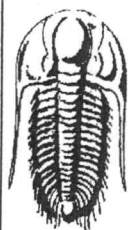
Stramel #1-31

31 14S 16W Ellis KS

DST # 4

Arbuckle

2006.05.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Stramel #1-31

31 14S 16W Ellis KS

Job Ticket: 23973

DST#: 4

Test Start: 2006.05.11 @ 19:47:39

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:39:09

Time Test Ended: 02:29:54

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3423.00 ft (KB) To 3460.00 ft (KB) (TVD)

Total Depth: 3460.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1930.00 ft (KB)

1925.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 41.92 psig @ 3425.00 ft (KB)

Start Date: 2006.05.11

End Date: 2006.05.12

Start Time: 19:47:41

End Time: 02:29:54

Capacity: 7000.00 psig

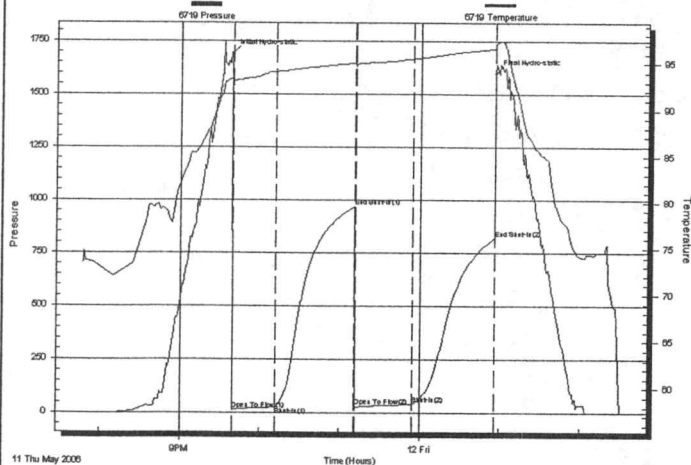
Last Calib.: 2006.05.12

Time On Btm: 2006.05.11 @ 21:38:54

Time Off Btm: 2006.05.12 @ 00:56:39

TEST COMMENT: IFP Weak Blow Built to 1-1/4 in
ISI Dead
FFP Dead for 30" Weak Surf Blow Last 15"
FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.29	93.49	Initial Hydro-static
1	14.92	93.19	Open To Flow (1)
33	27.60	94.15	Shut-In(1)
93	968.94	95.06	End Shut-In(1)
93	31.25	94.73	Open To Flow(2)
136	41.92	95.51	Shut-In(2)
198	819.43	96.62	End Shut-In(2)
198	1598.50	96.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Clean Oil	0.10
60.00	OCM 25%O 75%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company
250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Stramel #1-31
31 14S 16W Ellis KS
Job Ticket: 23973 **DST#: 4**
Test Start: 2006.05.11 @ 19:47:39

Tool Information

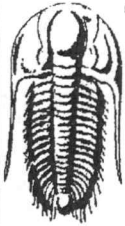
Drill Pipe:	Length: 3232.00 ft	Diameter: 3.80 inches	Volume: 45.34 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 46.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3423.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3401.00	
Shut In Tool	5.00			3406.00	
Hydraulic tool	5.00			3411.00	
Safety Joint	2.00			3413.00	
Packer	5.00			3418.00	23.00 Bottom Of Top Packer
Packer	5.00			3423.00	
Stubb	1.00			3424.00	
Perforations	1.00			3425.00	
Recorder	0.00	6719	Inside	3425.00	
Perforations	32.00			3457.00	
Recorder	0.00	13221	Outside	3457.00	
Bullnose	3.00			3460.00	37.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23973

DST#: 4

ATTN: Brad Rine

Test Start: 2006.05.11 @ 19:47:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Clean Oil	0.098
60.00	OCM 25%O 75%M	0.295

Total Length: 80.00 ft Total Volume: 0.393 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

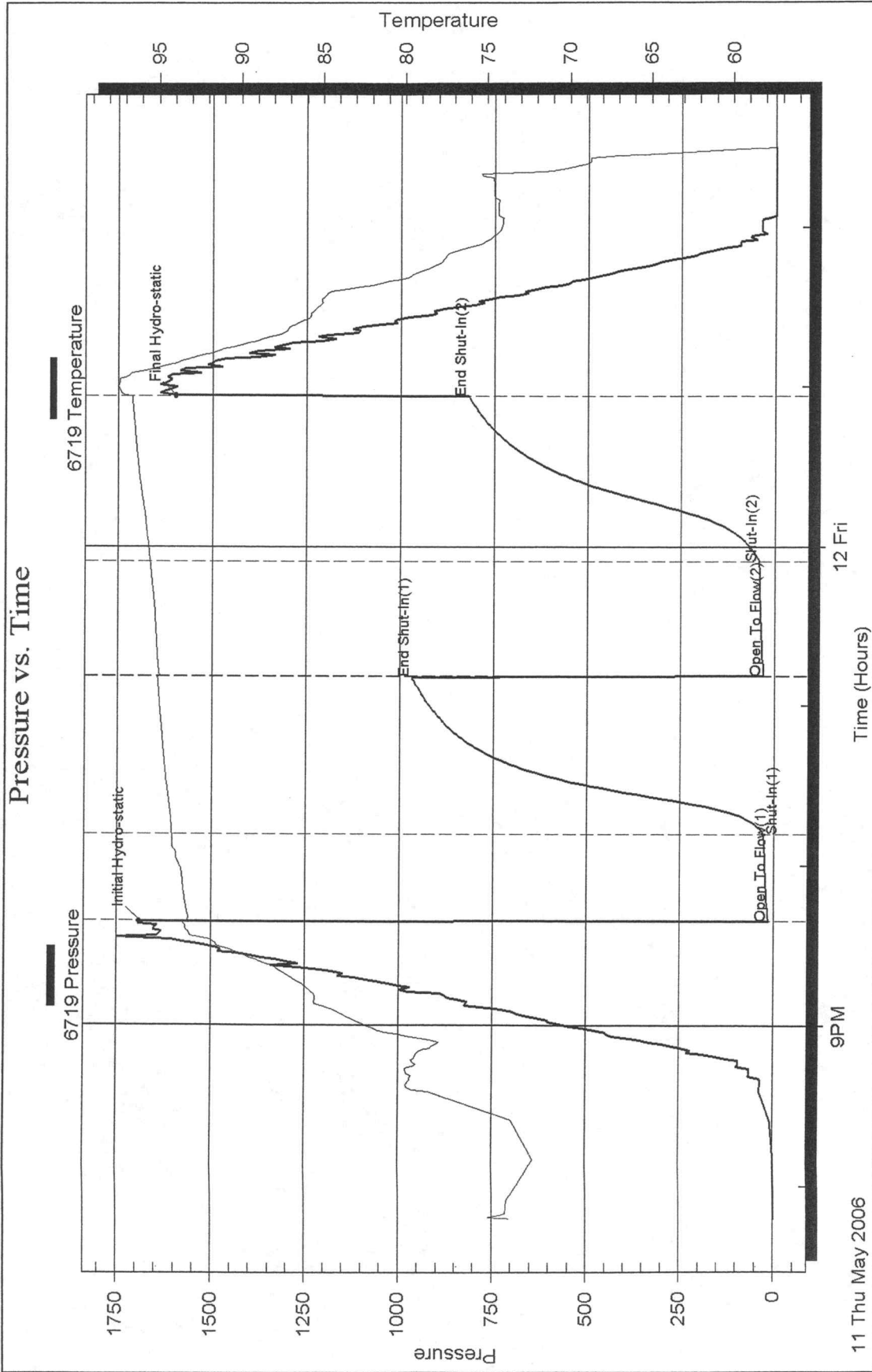
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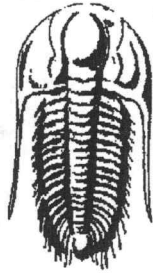
Laboratory Name:

Laboratory Location:

Recovery Comments: <1% water

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

31 14S 16W Ellis KS

Stramel #1-31

Start Date: 2006.05.12 @ 08:45:34

End Date: 2006.05.12 @ 15:44:19

Job Ticket #: 23974 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Stramel #1-31

31 14S 16W Ellis KS

DST # 5

Arbuckle

2006.05.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Stramel #1-31

31 14S 16W Ellis KS

Job Ticket: 23974

DST#: 5

Test Start: 2006.05.12 @ 08:45:34

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:19

Time Test Ended: 15:44:19

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3460.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Total Depth: 3470.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1930.00 ft (KB)

1925.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 58.24 psig @ 3462.00 ft (KB)

Start Date: 2006.05.12 End Date: 2006.05.12

Start Time: 08:45:36 End Time: 15:44:19

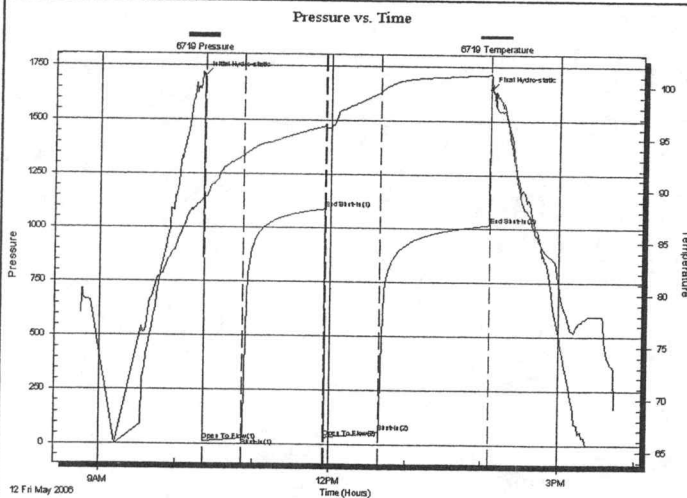
Capacity: 7000.00 psig

Last Calib.: 2006.05.12

Time On Btm: 2006.05.12 @ 10:21:04

Time Off Btm: 2006.05.12 @ 14:06:04

TEST COMMENT: IFF Weak Blow Built to 1-1/2 in
ISI Dead
FFP Weak Blow Built to 3/4 in
FSI Dead



PRESSURE SUMMARY

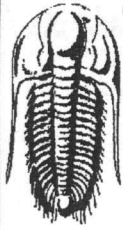
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1703.44	89.39	Initial Hydro-static
1	12.86	88.48	Open To Flow (1)
31	27.57	93.32	Shut-In(1)
95	1089.89	96.24	End Shut-In(1)
95	33.99	96.04	Open To Flow (2)
138	58.24	99.47	Shut-In(2)
225	1018.08	101.21	End Shut-In(2)
225	1646.55	101.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Stramel #1-31

31 14S 16W Ellis KS

Job Ticket: 23974

DST#: 5

Test Start: 2006.05.12 @ 08:45:34

Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 46.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3460.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 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			3438.00	
Shut In Tool	5.00			3443.00	
Hydraulic tool	5.00			3448.00	
Safety Joint	2.00			3450.00	
Packer	5.00			3455.00	23.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	1.00			3462.00	
Recorder	0.00	6719	Inside	3462.00	
Perforations	5.00			3467.00	
Recorder	0.00	13221	Outside	3467.00	
Bullnose	3.00			3470.00	10.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Stramel #1-31

250 N Water Ste 300
Wichita KS 67202

31 14S 16W Ellis KS

Job Ticket: 23974

DST#: 5

ATTN: Brad Rine

Test Start: 2006.05.12 @ 08:45:34

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:

19000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14700.00 ppm

Filter Cake: 0.06 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MW	0.443

Total Length:

90.00 ft

Total Volume:

0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

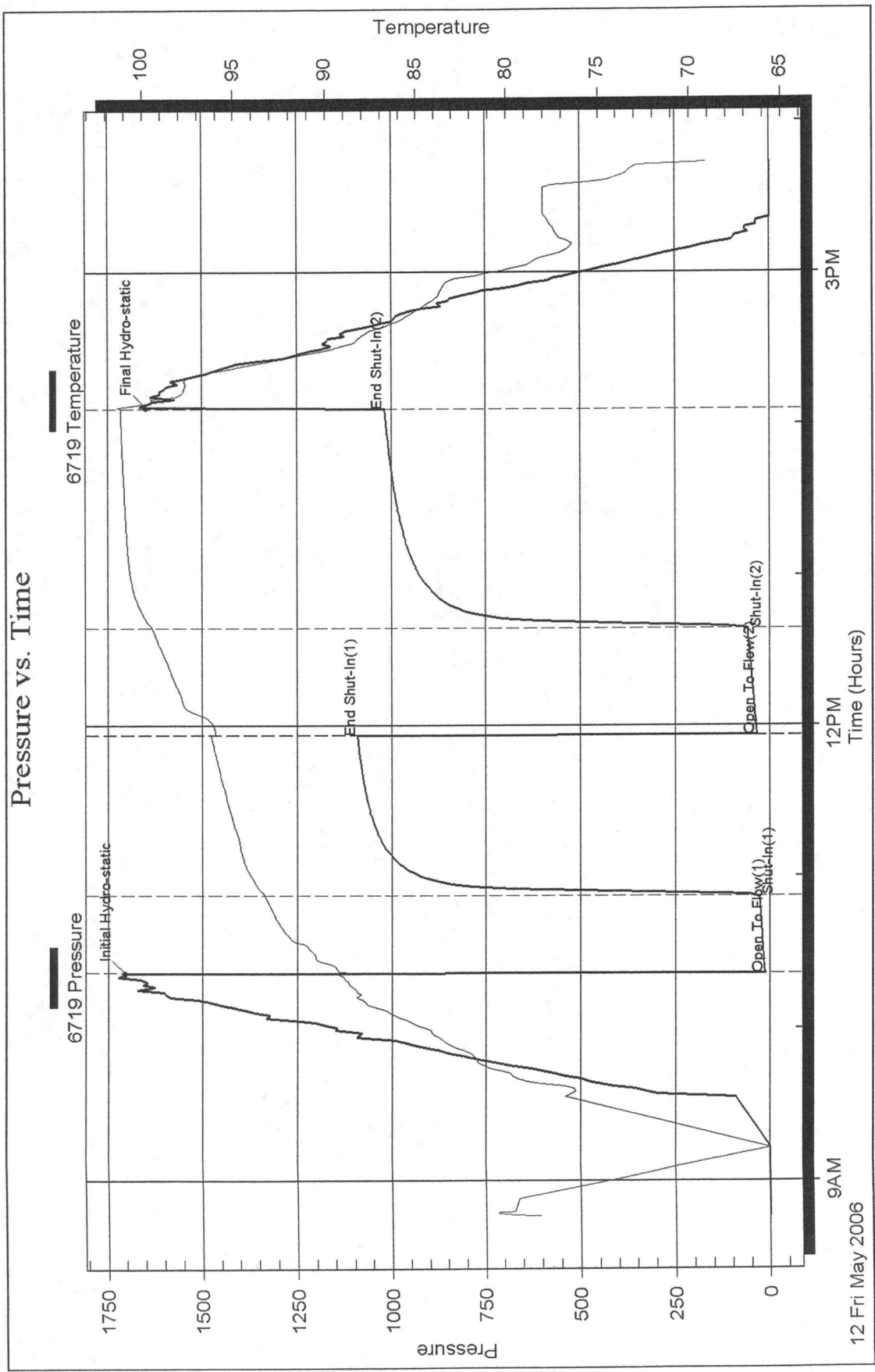
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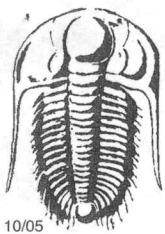
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8757

No 23970

Test Ticket

Well Name & No. Stramel #1-31 Test No. 1 Date 5-9-06
 Company Murfin Drilling Co. Inc Zone Tested "A-B-C-D-E-F"
 Address 250 N. Water, Ste. 300, Wichita, Ks. 67202 Elevation 1930 KB 1925 GL
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 31 Twp. 14s Rge. 16w Co. Ellis State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3150 - 3285 Initial Str Wt./Lbs. 35,000 Unseated Str Wt./Lbs. 35,000
 Anchor Length 135' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 36,000
 Top Packer Depth 3145 Tool Weight 2200
 Bottom Packer Depth 3150 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3285 Wt. Pipe Run 0 Drill Collar Run 183
 Mud Wt. 9.0 LCM -0- Vis. 51 WL 7.6 Drill Pipe Size 4 1/2 XH Ft. Run _____
 Blow Description IFP - Weak Blow, Built to 3"
ISI - Dead
FFP - Weak Blow 3/4"
FSI - Dead

Recovery - Total Feet 75 GIP _____ Ft. in DC 75 Ft. in DP 9
 Rec. 75 Feet of Mud %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 96 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5,900 ppm System

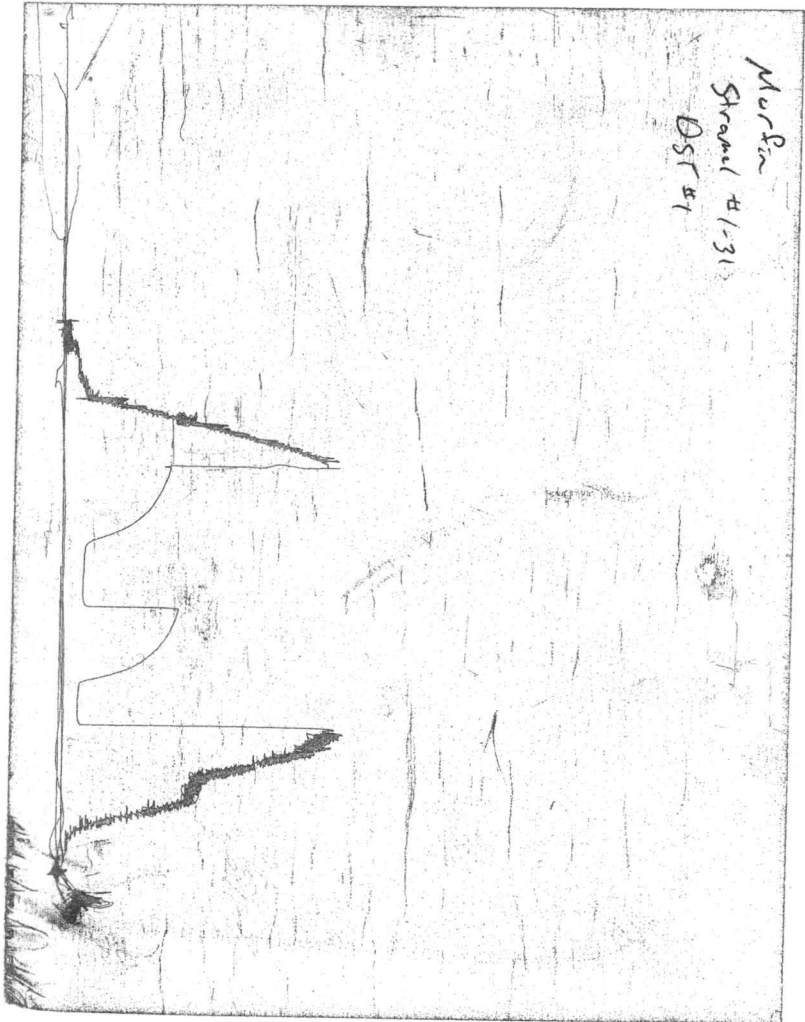
	AK-1	Alpine	PSI	Recorder No.	Test	
(A) Initial Hydrostatic Mud		1535		6719	1000	
(B) First Initial Flow Pressure		17		3154	Jars	
(C) First Final Flow Pressure		42		13221	Safety Jt.	15
(D) Initial Shut-In Pressure		643		3282	Circ Sub	
(E) Second Initial Flow Pressure		46			Sampler	
(F) Second Final Flow Pressure		72			Straddle	
(G) Final Shut-In Pressure		593		Initial Opening	30	Ext. Packer
(Q) Final Hydrostatic Mud		1477		Initial Shut-In	60	Shale Packer
				Final Flow	45	Ruined Packer
				Final Shut-In	60	Mileage

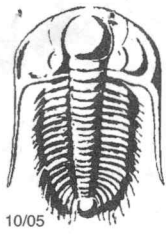
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Approved By _____
 Our Representative J. Mc Lomon
 T-On Location 21:45
 T-Started 22:52
 T-Open 1:00
 T-Pulled 4:15
 T-Out 5:53
 Sub Total: 1110
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23971

Test Ticket

Well Name & No. Stramel #1-31 Test No. 2 Date 5-10-06
 Company Murfin Drilling Co., Inc. Zone Tested "G"
 Address 250 N. Water, Suite 300, Wichita, 67202 Elevation 1930 KB 1925 GL
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 31 Twp. 14s Rge. 16w Co. Ellis State KS
 Comment: _____ Release date / time: _____

Interval Tested 3289-3302 Initial Str Wt./Lbs. 35,000 Unseated Str Wt./Lbs. 35,000
 Anchor Length 13' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 36,000
 Top Packer Depth 3284 Tool Weight 2200
 Bottom Packer Depth 3289 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3302 Wt. Pipe Run 0 Drill Collar Run 183
 Mud Wt. 9.0 LCM 0 Vis. 49 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3112
 Blow Description IFP - Intermittant Surface Blow Throughout
ISI - Dead
FFP - Dead
FSI - Dead

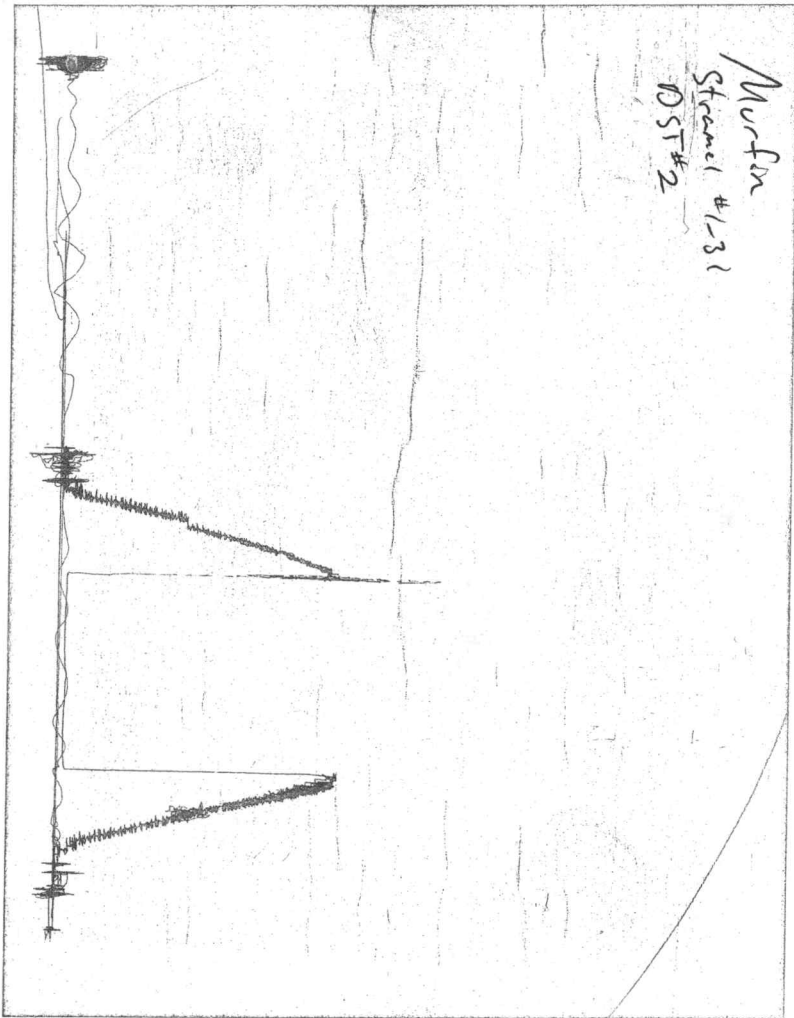
Recovery - Total Feet 2 GIP _____ Ft. in DC 2 Ft. in DP _____
 Rec. 2 Feet of Mud %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 94 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 9,800 ppm System

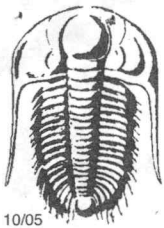
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1597 PSI	6719	1000
(B) First Initial Flow Pressure		11 PSI	(depth) 3291	Jars
(C) First Final Flow Pressure		13 PSI	Recorder No. 13221	Safety Jt. 75
(D) Initial Shut-In Pressure		34 PSI	(depth) 3299	Circ Sub
(E) Second Initial Flow Pressure		13 PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure		13 PSI	(depth)	Straddle
(G) Final Shut-In Pressure		24 PSI	Initial Opening 30	Ext. Packer
(Q) Final Hydrostatic Mud		1551 PSI	Initial Shut-In 45	Shale Packer

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Approved By _____
 Our Representative J. McJensen *Thank you!*
 Final Flow 30 Ruined Packer _____
 Final Shut-In 45 Mileage 28.1 35
 T-On Location 11:10 Sub Total: 1110
 T-Started 11:48 Std. By _____
 T-Open 13:45 Acc. Chg: _____
 T-Pulled 16:15 Other: _____
 T-Out 17:46 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 23972

Test Ticket

Well Name & No. Stramel # 1-31 Test No. 3 Date 5-11-06
 Company Murfin Drilling Co., Inc. Zone Tested LKC- "H-I-J-K-L"
 Address 250 N Water, Suite 300, Wichita, Ks. 67202 Elevation 1930 KB 1925 GL
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 31 Twp. 14s Rge. 16w Co. Ellis State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3326 - 3434 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 108' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 48,000
 Top Packer Depth 3321 Tool Weight 2200
 Bottom Packer Depth 3326 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3434 Wt. Pipe Run 0 Drill Collar Run ~~133~~ 365
 Mud Wt. 9.0 LCM 0 Vis. 49 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run ~~3143~~ 2961
 Blow Description IFP - Weak Blow, Built to 3/4"
ISI - Dead
FFP - Dead
FSI - Dead

Recovery - Total Feet 3 GIP _____ Ft. in DC 3 Ft. in DP _____
 Rec. 3 Feet of Mud %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 94° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 9800 ppm System

	AK-1	Alpine	Recorder No.	
(A) Initial Hydrostatic Mud		<u>1633</u> PSI	<u>6719</u>	<u>Test</u>
(B) First Initial Flow Pressure		<u>15</u> PSI	(depth) <u>3329</u>	Jars
(C) First Final Flow Pressure		<u>17</u> PSI	Recorder No. <u>13221</u>	<u>Safety Jt.</u>
(D) Initial Shut-In Pressure		<u>56</u> PSI	(depth) <u>3431</u>	Circ Sub
(E) Second Initial Flow Pressure		<u>17</u> PSI	Recorder No. _____	Sampler
(F) Second Final Flow Pressure		<u>22</u> PSI	(depth) _____	Straddle
(G) Final Shut-In Pressure		<u>37</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

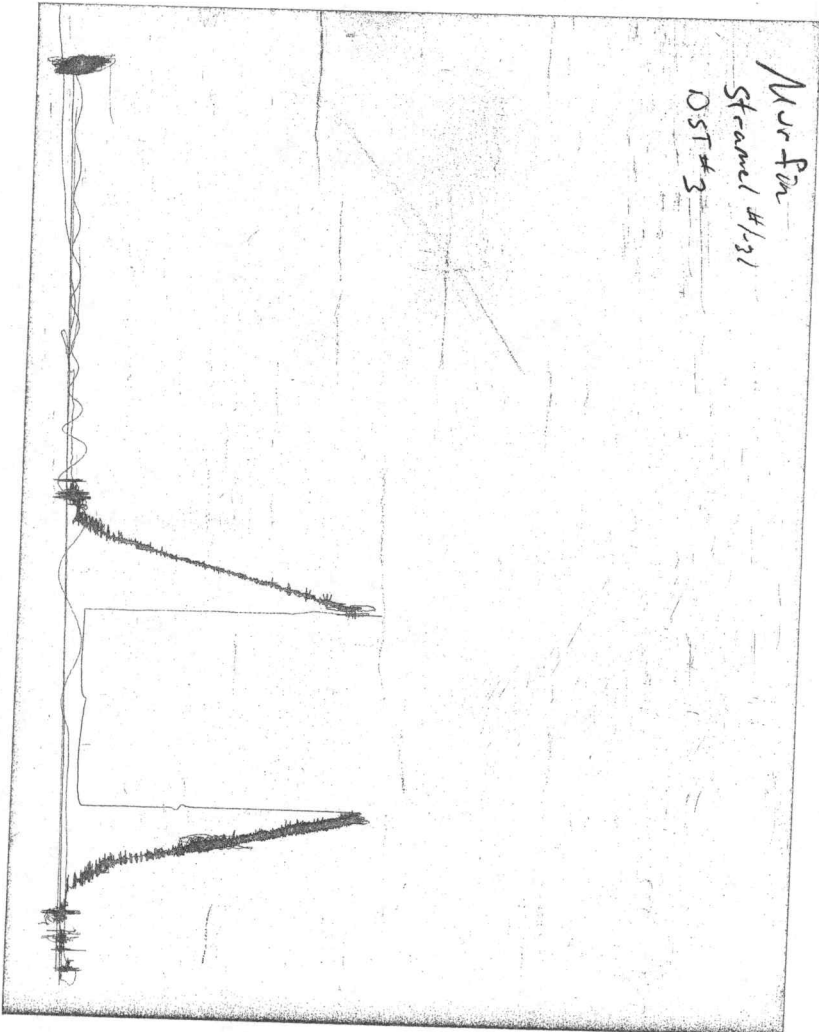
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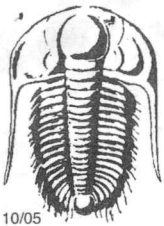
Approved By _____
 Our Representative G. McLamou *Thank you!*

Final Flow	<u>30</u>	Ruined Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>28 rt</u>
T-On Location	<u>6:10</u>	Sub Total:	<u>1110</u>
T-Started	<u>6:28</u>	Std. By	_____
T-Open	<u>8:17</u>	Acc. Chg:	_____
T-Pulled	<u>10:47</u>	Other:	_____
T-Out	<u>12:20</u>	Total:	_____

CHART PAGE

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





TRILOBITE TESTING INC.

No 23973

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Stramel # 1-31 Test No. 4 Date 5-11-06
 Company Murfin Drilling Co. Inc. Zone Tested Arbuckle
 Address 250 N. Water, Suite 300, Wichita, Ks. 67202 Elevation 1930 KB 1925 GL
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 31 Twp. 14s Rge. 16w Co. Ellis State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3423 - 3460 Initial Str Wt./Lbs. 34,000 Unseated Str Wt./Lbs. 35,000
 Anchor Length 37' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 38,000
 Top Packer Depth 3418 Tool Weight 2200
 Bottom Packer Depth 3423 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3460 Wt. Pipe Run 0 Drill Collar Run 183
 Mud Wt. 9.1 LCM 1# Vis. 57 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3232
 Blow Description IFP - Weak Blow, Built 1 1/4"
ISI - Dead
FFP - Dead for 30 min, Weak surface blow last 15 min.
FSI - Dead

Recovery - Total Feet 80 GIP _____ Ft. in DC 80 Ft. in DP _____
 Rec. 20 Feet of clean oil %gas _____ %oil _____ %water _____ %mud _____
 Rec. 60 Feet of OCM %gas 25 %oil < 1 %water 75 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT _____ °F Gravity 34 °API D @ 45 °F Corrected Gravity 35 °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 11,200 ppm System

	AK-1	Alpine	PSI	Recorder No.	
(A) Initial Hydrostatic Mud		<u>1690</u>		<u>6719</u>	<u>Test</u>
(B) First Initial Flow Pressure		<u>15</u>		<u>3425</u>	Jars
(C) First Final Flow Pressure		<u>28</u>		<u>13221</u>	<u>Safety Jt.</u>
(D) Initial Shut-In Pressure		<u>969</u>		<u>3457</u>	Circ Sub
(E) Second Initial Flow Pressure		<u>31</u>			Sampler
(F) Second Final Flow Pressure		<u>42</u>			Straddle
(G) Final Shut-In Pressure		<u>819</u>		<u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud		<u>1599</u>		<u>60</u>	Shale Packer

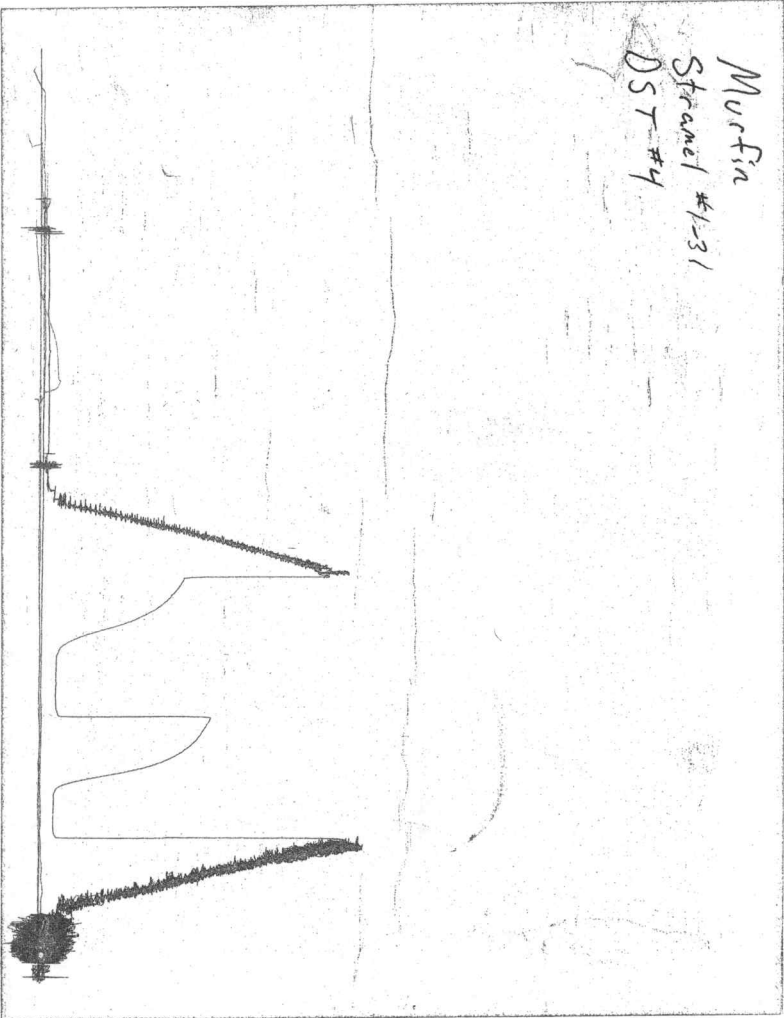
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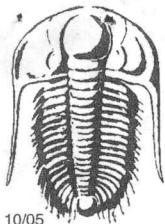
Approved By _____ T-Started 19:47 Std. By _____
 Our Representative J. Mc Lemore Thank You T-Open 21:39 Acc. Chg: _____
 T-Pulled 00:54 Other: _____
 T-Out 2:30 Total: _____

CHART PAGE

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

Murfin
Stramel #1-31
DST #4





TRILOBITE TESTING INC.

No 23974

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Stramel #1-31 Test No. 5 Date 5-12-06
 Company Murfin Drilling Co. Inc. Zone Tested Arbuckle
 Address 250 N. Water, Suite 300, Wichita, 67202 Elevation 1930 KB 1925 GL
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 31 Twp. 14s Rge. 16w Co. Ellis State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3460 - 3470 Initial Str Wt./Lbs. 35,000 Unseated Str Wt/Lbs. 35,000
 Anchor Length 10' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 38,000
 Top Packer Depth 3455 Tool Weight 2200
 Bottom Packer Depth 3460 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3470 Wt. Pipe Run 0 Drill Collar Run 183
 Mud Wt. 9.1 LCM 2# Vis. 50 WL 9.2 Drill Pipe Size 4 1/2 XH Ft. Run 3266
 Blow Description IFP-Weak Blow, Built to 1 1/2"
ISI-Dead
FFP-Weak Blow, Built to - 3/4"
FSI-Dead

Recovery - Total Feet _____ GIP _____ Ft. in DC 90 Ft. in DP _____
 Rec. 90 Feet of Muddy water %gas _____ %oil 70 %water 30 %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 _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 260 @ 91 °F Chlorides 19,000 ppm Recovery _____ Chlorides 14,700 ppm System

	AK-1	Alpine	PSI	Recorder No.	
(A) Initial Hydrostatic Mud		1703		6719	<u>Test</u>
(B) First Initial Flow Pressure		13		3462	Jars
(C) First Final Flow Pressure		28		13221	<u>Safety Jt.</u>
(D) Initial Shut-In Pressure		1090		3467	Circ Sub
(E) Second Initial Flow Pressure		34			Sampler
(F) Second Final Flow Pressure		58			Straddle
(G) Final Shut-In Pressure		1018		Initial Opening	30
(Q) Final Hydrostatic Mud		1647		Initial Shut-In	60
				Final Flow	45
				Final Shut-In	90

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Approved By _____ T-Started 8:45 Std. By _____
 Our Representative G. Mc Jensen T-Open 10:21 Acc. Chg: _____
 T-Pulled 14:06 Other: _____
 T-Out 15:43 Total: _____

12 extra copies

CHART PAGE

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

