

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
Wichita KS 67601

ATTN: David Doyel

17-5-29-Decatur-Ks

Brantley # 2 -17 KCC

Start Date: 2005.12.28 @ 07:40:31

End Date: 2005.12.28 @ 15:12:31

Job Ticket #: 23875 DST #: 1

Murfin Drlg Co Inc

Brantley # 2

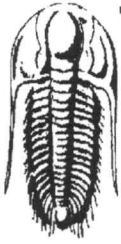
17-5-29-Decatur-Ks

DST # 1

Toronto/A-B

2005.12.28

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 Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 23875

DST#: 1

ATTN: David Doyel

Test Start: 2005.12.28 @ 07:40:31

GENERAL INFORMATION:

Formation: **Toronto/A-B**

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

Time Tool Opened: 09:36:31

Time Test Ended: 15:12:31

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3827.00 ft (KB) To 3910.00 ft (KB) (TVD)**

Total Depth: **3910.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2791.00 ft (KB)**

2786.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6672 **Inside**

Press@RunDepth: **282.02 psig @ 3830.00 ft (KB)**

Start Date: **2005.12.28**

End Date: **2005.12.28**

Capacity: **7000.00 psig**

Last Calib.: **2005.12.28**

Start Time: **07:40:32**

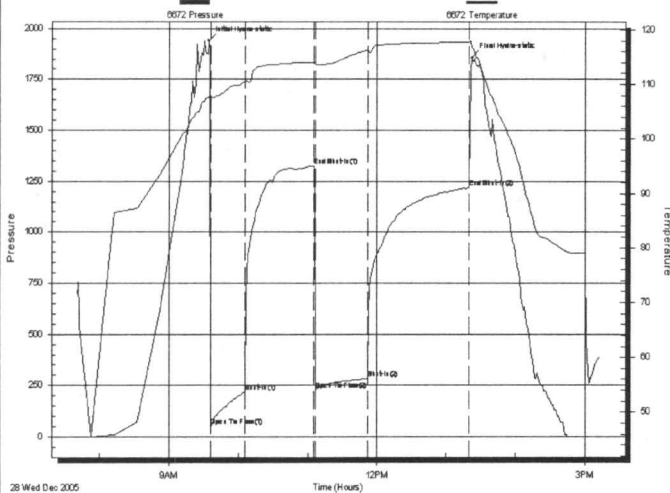
End Time: **15:12:31**

Time On Btm: **2005.12.28 @ 09:34:31**

Time Off Btm: **2005.12.28 @ 13:22:31**

TEST COMMENT: IF-Weak building to fair - B-B in 18 min
FF-Weak building to 4"
Times-30-60-45-90

Pressure vs. Time



PRESSURE SUMMARY

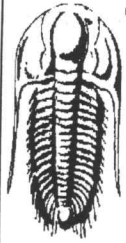
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.83	107.56	Initial Hydro-static
2	52.84	107.60	Open To Flow (1)
31	218.36	110.53	Shut-In(1)
91	1324.94	113.99	End Shut-In(1)
92	225.90	113.75	Open To Flow (2)
137	282.02	116.27	Shut-In(2)
226	1216.55	117.79	End Shut-In(2)
228	1855.58	116.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	W&StlyOCM 1%o 30%w 69%m	1.52
248.00	DM	1.84
0.00	Rw .24 @ 80 = 68000ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 23875

DST#: 1

ATTN: David Doyel

Test Start: 2005.12.28 @ 07:40:31

Tool Information

Drill Pipe:	Length: 3333.00 ft	Diameter: 3.80 inches	Volume: 46.75 bbl	Tool Weight: 2800.00 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: 490.00 ft	Diameter: 2.25 inches	Volume: 2.41 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 49.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3827.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	112.00 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			3799.00	
Shut In Tool	5.00			3804.00	
Hydraulic tool	5.00			3809.00	
Jars	5.00			3814.00	
Safety Joint	3.00			3817.00	
Packer	5.00			3822.00	29.00 Bottom Of Top Packer
Packer	5.00			3827.00	
Stubb	1.00			3828.00	
Perforations	1.00			3829.00	
Change Over Sub	1.00			3830.00	
Recorder	0.00	6672	Inside	3830.00	
Drill Pipe	62.00			3892.00	
Change Over Sub	1.00			3893.00	
Recorder	0.00	13254	Outside	3893.00	
Perforations	14.00			3907.00	
Bullnose	3.00			3910.00	83.00 Bottom Packers & Anchor
Total Tool Length:	112.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 23875

DST#: 1

ATTN: David Doyel

Test Start: 2005.12.28 @ 07:40:31

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:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	W&SiltyOCM 1%o 30%w 69%m	1.525
248.00	DM	1.839
0.00	Rw .24 @ 80 = 68000ppm	0.000

Total Length: 558.00 ft

Total Volume: 3.364 bbl

Num Fluid Samples: 0

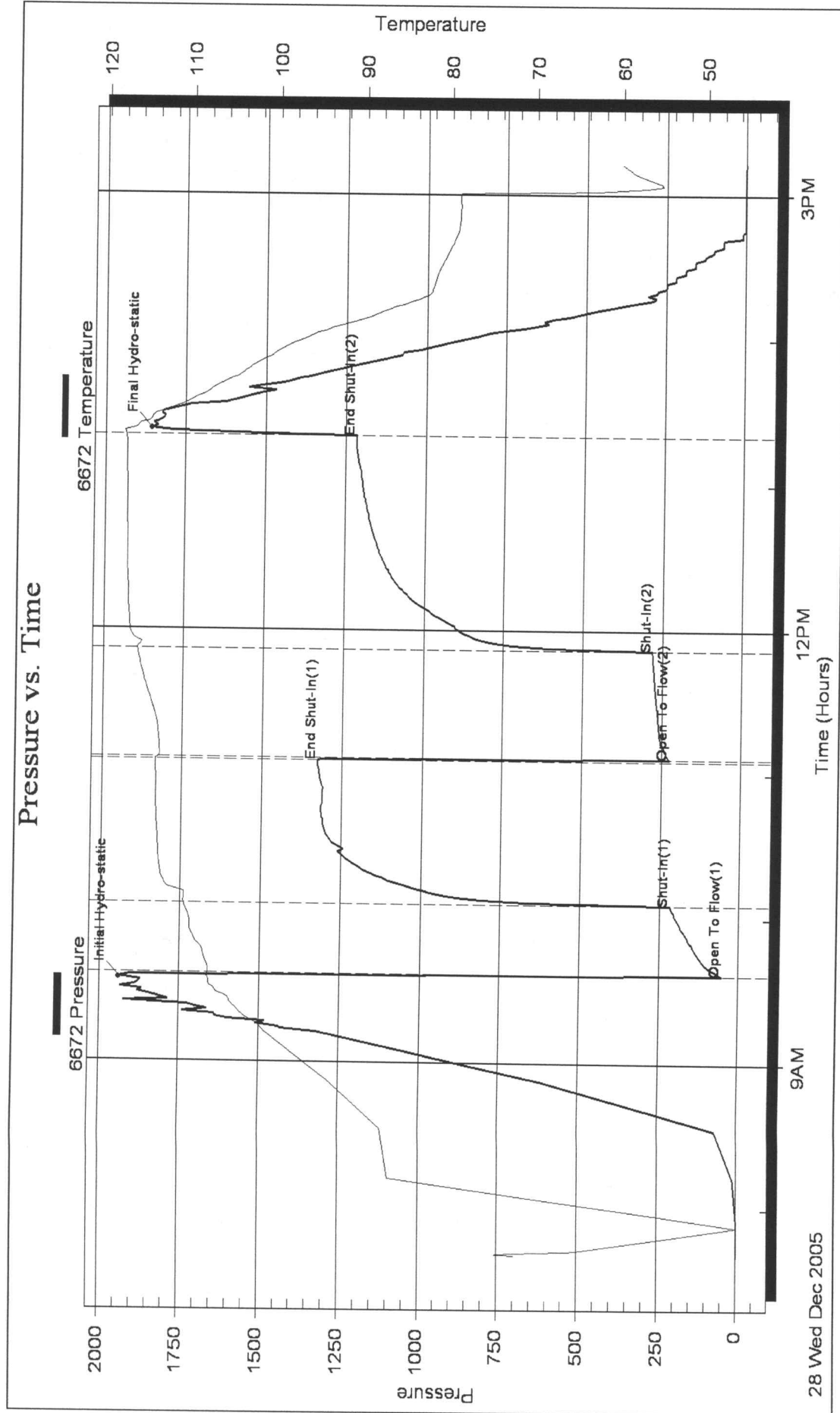
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
Wichita KS 67601

ATTN: David Doyel

17-5-29-Decatur-Ks

Brantley # 2 -17 KCC

Start Date: 2005.12.28 @ 21:30:03

End Date: 2005.12.29 @ 05:12:33

Job Ticket #: 24401 DST #: 2

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

Murfin Drlg Co Inc

Brantley # 2

17-5-29-Decatur-Ks

DST # 2

C-D

LKC

2005.12.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drig Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24401

DST#: 2

ATTN: David Doyel

Test Start: 2005.12.28 @ 21:30:03

GENERAL INFORMATION:

Formation: **C-D LKC**

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

Time Tool Opened: 23:23:03

Time Test Ended: 05:12:33

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3907.00 ft (KB) To 3926.00 ft (KB) (TVD)**

Reference Elevations: 2791.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2786.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6672 Inside

Press@RunDepth: 310.50 psig @ 3913.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.12.28

End Date: 2005.12.29

Last Calib.: 2005.12.29

Start Time: 21:30:04

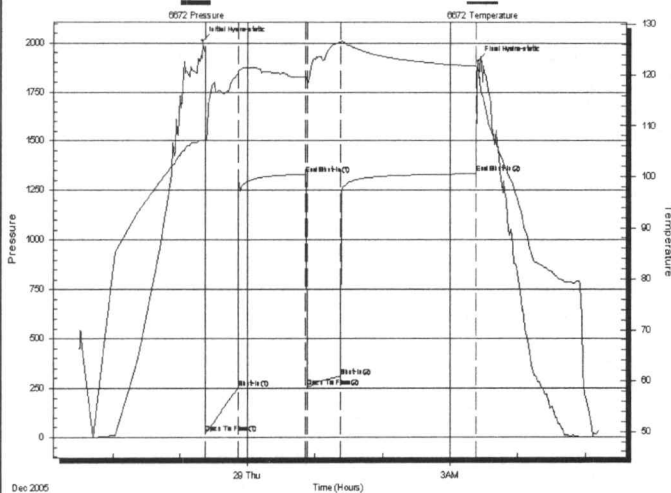
End Time: 05:12:33

Time On Btm: 2005.12.28 @ 23:20:03

Time Off Btm: 2005.12.29 @ 03:24:33

TEST COMMENT: IF-Weak building to B-B in 19 min
FF-Weak building to B-B in 30 min
Times-30-60-30-120

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.63	107.03	Initial Hydro-static
3	21.99	106.76	Open To Flow (1)
32	250.10	120.31	Shut-In(1)
92	1332.62	119.56	End Shut-In(1)
93	254.10	118.60	Open To Flow (2)
123	310.50	126.48	Shut-In(2)
243	1334.55	121.73	End Shut-In(2)
245	1907.06	120.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
495.00	Mdy Wtr 50% m 50% w	2.48
0.00	Rw .10 @ 80 = 80000ppm	0.00
124.00	DM	1.74

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24401

DST#: 2

ATTN: David Doyel

Test Start: 2005.12.28 @ 21:30:03

Tool Information

Drill Pipe:	Length: 3396.00 ft	Diameter: 3.80 inches	Volume: 47.64 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 490.00 ft	Diameter: 2.25 inches	Volume: 2.41 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 50.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3907.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	48.00 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			3884.00	
Shut In Tool	5.00			3889.00	
Hydraulic tool	5.00			3894.00	
Jars	5.00			3899.00	
Safety Joint	3.00			3902.00	
Packer	5.00			3907.00	24.00 Bottom Of Top Packer
Packer - Shale	5.00			3912.00	
Stubb	1.00			3913.00	
Recorder	0.00	6672	Inside	3913.00	
Perforations	15.00			3928.00	
Recorder	0.00	13254	Outside	3928.00	
Bullnose	3.00			3931.00	24.00 Anchor Tool

Total Tool Length: 48.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24401

DST#: 2

ATTN: David Doyel

Test Start: 2005.12.28 @ 21:30:03

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
495.00	Mdy Wtr 50% _m 50% _w	2.480
0.00	Rw .10 @ 80 = 80000ppm	0.000
124.00	DM	1.739

Total Length: 619.00 ft Total Volume: 4.219 bbl

Num Fluid Samples: 0

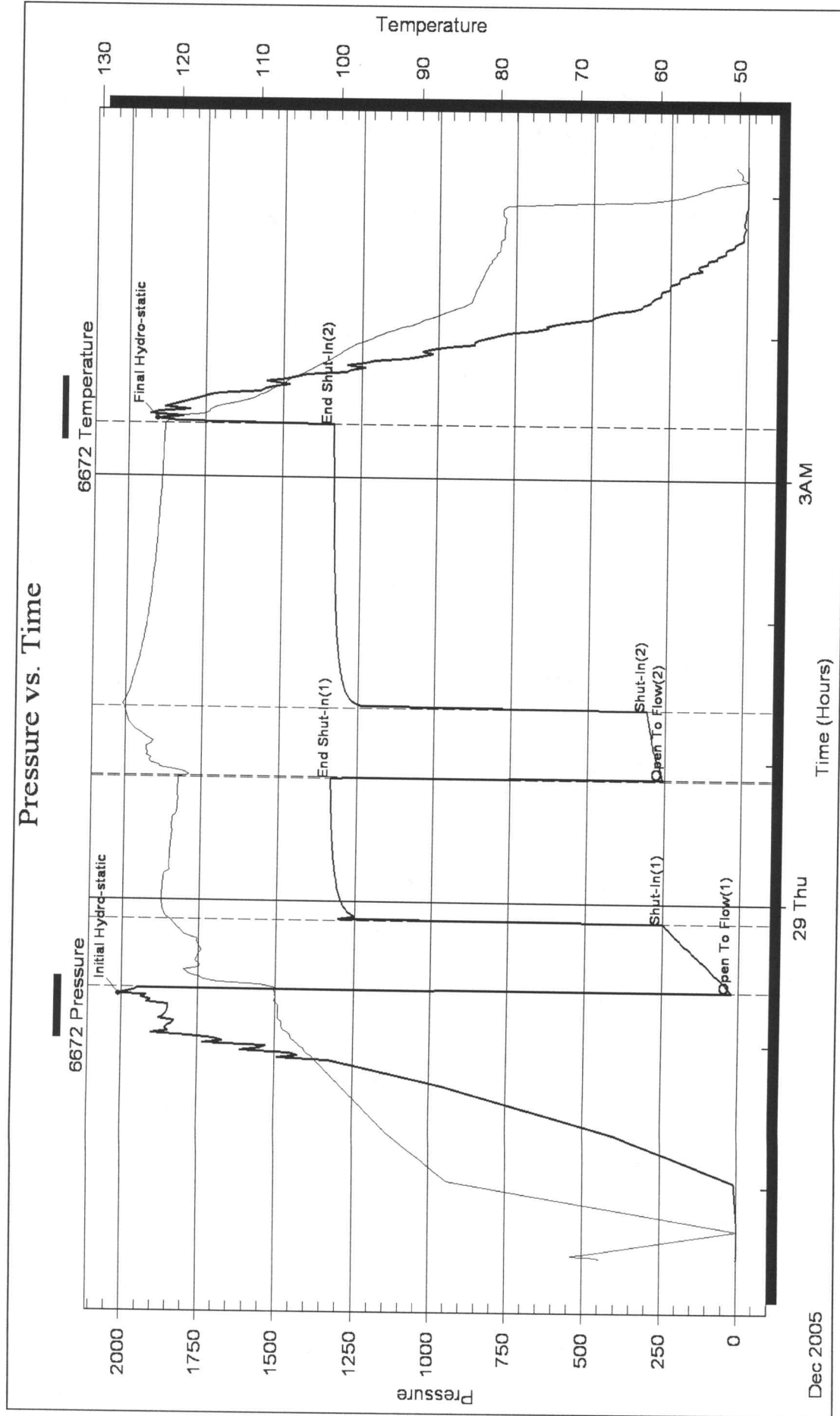
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
Wichita KS 67601

ATTN: David Doyel

17-5-29-Decatur-Ks

Brantley # 2 - 17 KCC

Start Date: 2005.12.29 @ 12:10:43

End Date: 2005.12.29 @ 19:22:13

Job Ticket #: 24402 DST #: 3

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

Murfin Drlg Co Inc

Brantley # 2

17-5-29-Decatur-Ks

DST # 3

E-F

2005.12.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drlg Co Inc

250 N Water
Wichita KS 67601

ATTN: David Doyel

Brantley # 2

17-5-29-Decatur-Ks

Job Ticket: 24402

DST#: 3

Test Start: 2005.12.29 @ 12:10:43

GENERAL INFORMATION:

Formation: E-F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:49:43

Time Test Ended: 19:22:13

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3926.00 ft (KB) To 3955.00 ft (KB) (TVD)

Total Depth: 3955.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2791.00 ft (KB)

2786.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 196.16 psig @ 3927.00 ft (KB)

Start Date: 2005.12.29

End Date:

2005.12.29

Start Time: 12:10:44

End Time:

19:22:13

Capacity: 7000.00 psig

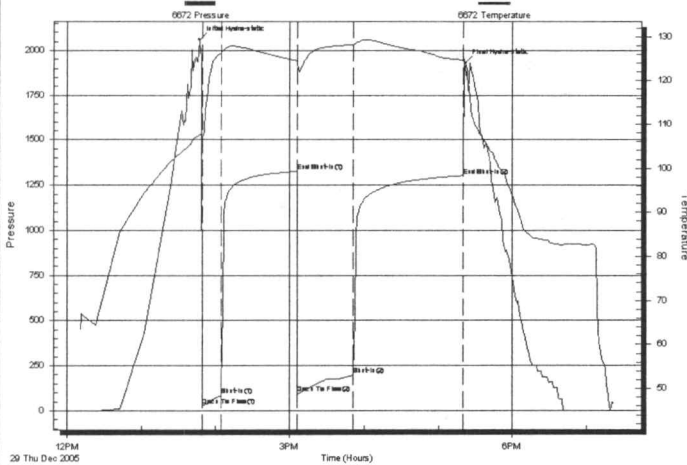
Last Calib.: 2005.12.29

Time On Btm: 2005.12.29 @ 13:47:13

Time Off Btm: 2005.12.29 @ 17:21:43

TEST COMMENT: IF-Weak building to fair B-B in 11 min
IS-Weak steady blow back
FF-Weak building to fair B-B in 30 min
FSI-Weak steady surface blow - building to 1 1/2"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.97	107.61	Initial Hydro-static
3	24.36	106.94	Open To Flow (1)
18	83.74	126.34	Shut-In(1)
79	1324.96	124.49	End Shut-In(1)
79	95.33	123.76	Open To Flow (2)
124	196.16	128.17	Shut-In(2)
213	1301.89	124.68	End Shut-In(2)
215	1928.69	122.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCGsyM 10%g 40%o 50%m	0.30
475.00	CGsyO 20%g 80%o	2.76
0.00	511 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

ATTN: David Doyel

Job Ticket: 24402

DST#: 3

Test Start: 2005.12.29 @ 12:10:43

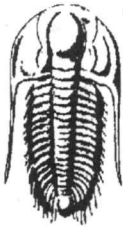
Tool Information

Drill Pipe:	Length: 3427.00 ft	Diameter: 3.80 inches	Volume: 48.07 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: 490.00 ft	Diameter: 2.25 inches	Volume: 2.41 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3926.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	29.00 ft			
Tool Length:	58.00 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			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00			3908.00	
Jars	5.00			3913.00	
Safety Joint	3.00			3916.00	
Packer	5.00			3921.00	29.00 Bottom Of Top Packer
Packer	5.00			3926.00	
Stubb	1.00			3927.00	
Recorder	0.00	6672	Inside	3927.00	
Perforations	25.00			3952.00	
Recorder	0.00	13254	Outside	3952.00	
Bullnose	3.00			3955.00	29.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24402

DST#: 3

ATTN: David Doyel

Test Start: 2005.12.29 @ 12:10:43

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCGsyM 10%g 40%o 50%m	0.305
475.00	CGsyO 20%g 80%o	2.764
0.00	511 GIP	0.000

Total Length: 537.00 ft Total Volume: 3.069 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6672

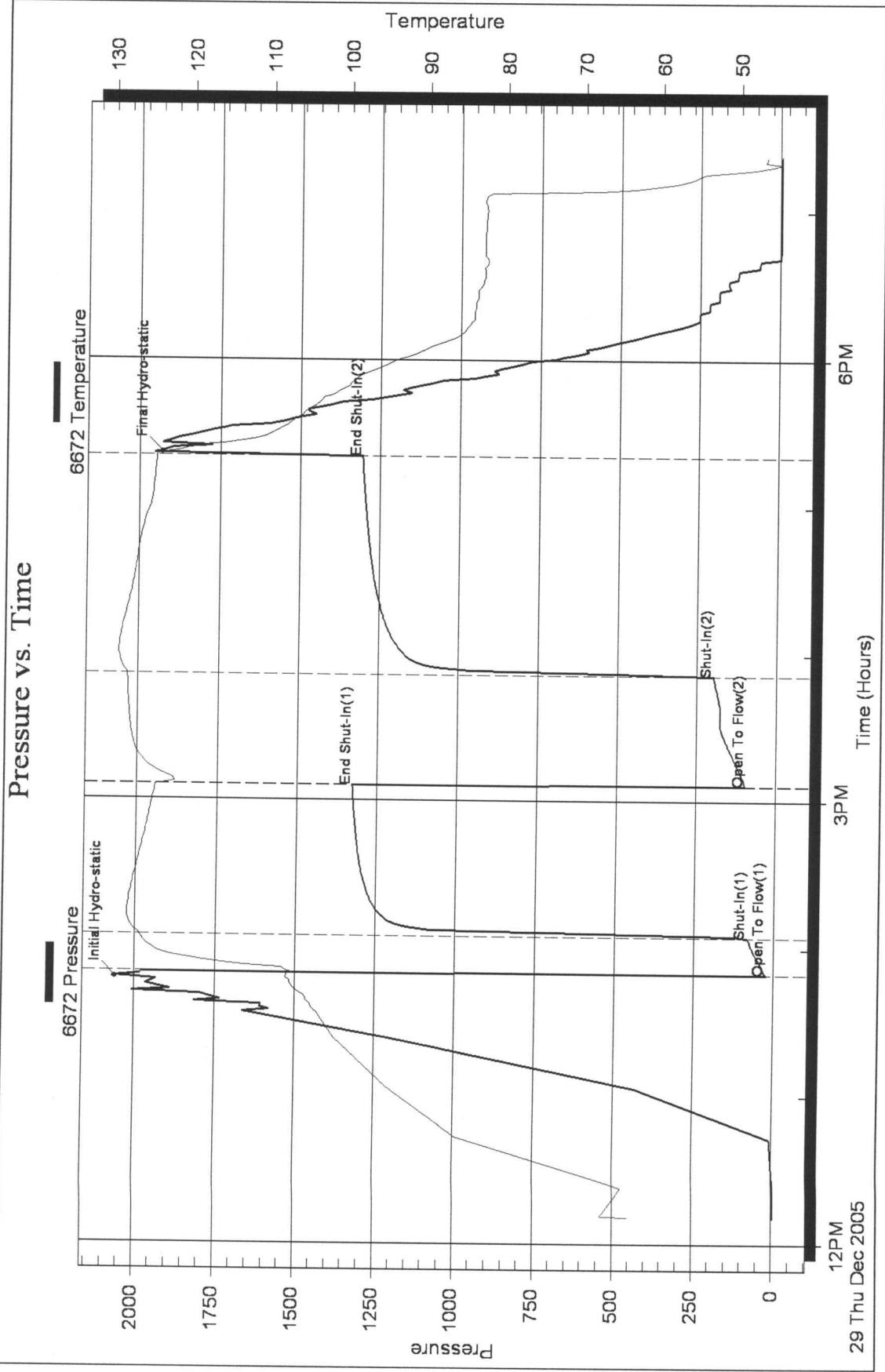
Inside

Murfin Drig Co Inc

17-5-29-Decatur-Ks

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
Wichita KS 67601

ATTN: David Doyel

17-5-29-Decatur-Ks

Brantley # 2 -17 KCC

Start Date: 2005.12.30 @ 04:55:17

End Date: 2005.12.30 @ 12:55:17

Job Ticket #: 24403 DST #: 4

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



**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drlg Co Inc

250 N Water
Wichita KS 67601

ATTN: David Doyel

Brantley # 2

17-5-29-Decatur-Ks

Job Ticket: 24403

DST#: 4

Test Start: 2005.12.30 @ 04:55:17

GENERAL INFORMATION:

Formation: **G-H LKC**

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

Time Tool Opened: 06:40:47

Time Test Ended: 12:55:17

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3957.00 ft (KB) To 4010.00 ft (KB) (TVD)**

Total Depth: **4010.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2791.00 ft (KB)**

2786.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6672

Inside

Press@RunDepth: **152.16 psig @ 3966.00 ft (KB)**

Start Date: **2005.12.30**

End Date: **2005.12.30**

Start Time: **04:55:18**

End Time: **12:55:17**

Capacity: **7000.00 psig**

Last Calib.: **2005.12.30**

Time On Btm: **2005.12.30 @ 06:35:47**

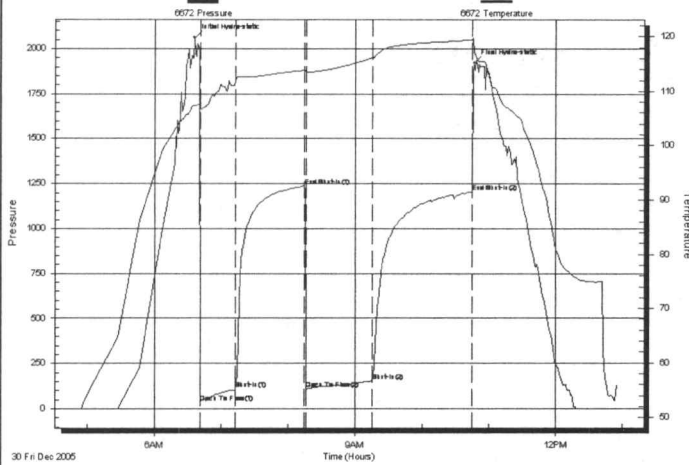
Time Off Btm: **2005.12.30 @ 10:46:47**

TEST COMMENT: **IF-Weak building to 2" in 15 min then decreasing to 1" in 30 min**

FF-Weak steady 1/2" blow

Times-30-60-60-90

Pressure vs. Time



PRESSURE SUMMARY

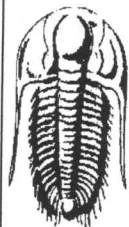
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.29	107.37	Initial Hydro-static
5	33.93	107.03	Open To Flow (1)
37	105.46	112.01	Shut-In(1)
99	1236.65	113.85	End Shut-In(1)
100	108.93	113.54	Open To Flow (2)
160	152.16	116.11	Shut-In(2)
249	1204.63	119.41	End Shut-In(2)
251	1920.98	117.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Silty OCM 3% @ 97% m	0.61
140.00	OCM 10% @ 90% m	0.69
5.00	CO	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24403

DST#: 4

ATTN: David Doyel

Test Start: 2005.12.30 @ 04:55:17

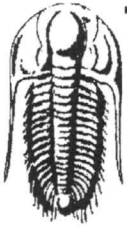
Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 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: 490.00 ft	Diameter: 2.25 inches	Volume: 2.41 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 50.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3957.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	82.00 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			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Jars	5.00			3949.00	
Safety Joint	3.00			3952.00	
Packer	5.00			3957.00	24.00 Bottom Of Top Packer
Packer - Shale	5.00			3962.00	
Stubb	1.00			3963.00	
Perforations	2.00			3965.00	
Change Over Sub	1.00			3966.00	
Recorder	0.00	6672	Inside	3966.00	
Drill Pipe	30.00			3996.00	
Change Over Sub	1.00			3997.00	
Recorder	0.00	13254	Outside	3997.00	
Perforations	15.00			4012.00	
Bullnose	3.00			4015.00	58.00 Anchor Tool
Total Tool Length:	82.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

ATTN: David Doyel

Job Ticket: 24403

DST#: 4

Test Start: 2005.12.30 @ 04:55:17

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Sltly OCM 3%o 97%m	0.610
140.00	OCM 10%o 90%m	0.688
5.00	CO	0.025

Total Length: 269.00 ft

Total Volume: 1.323 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

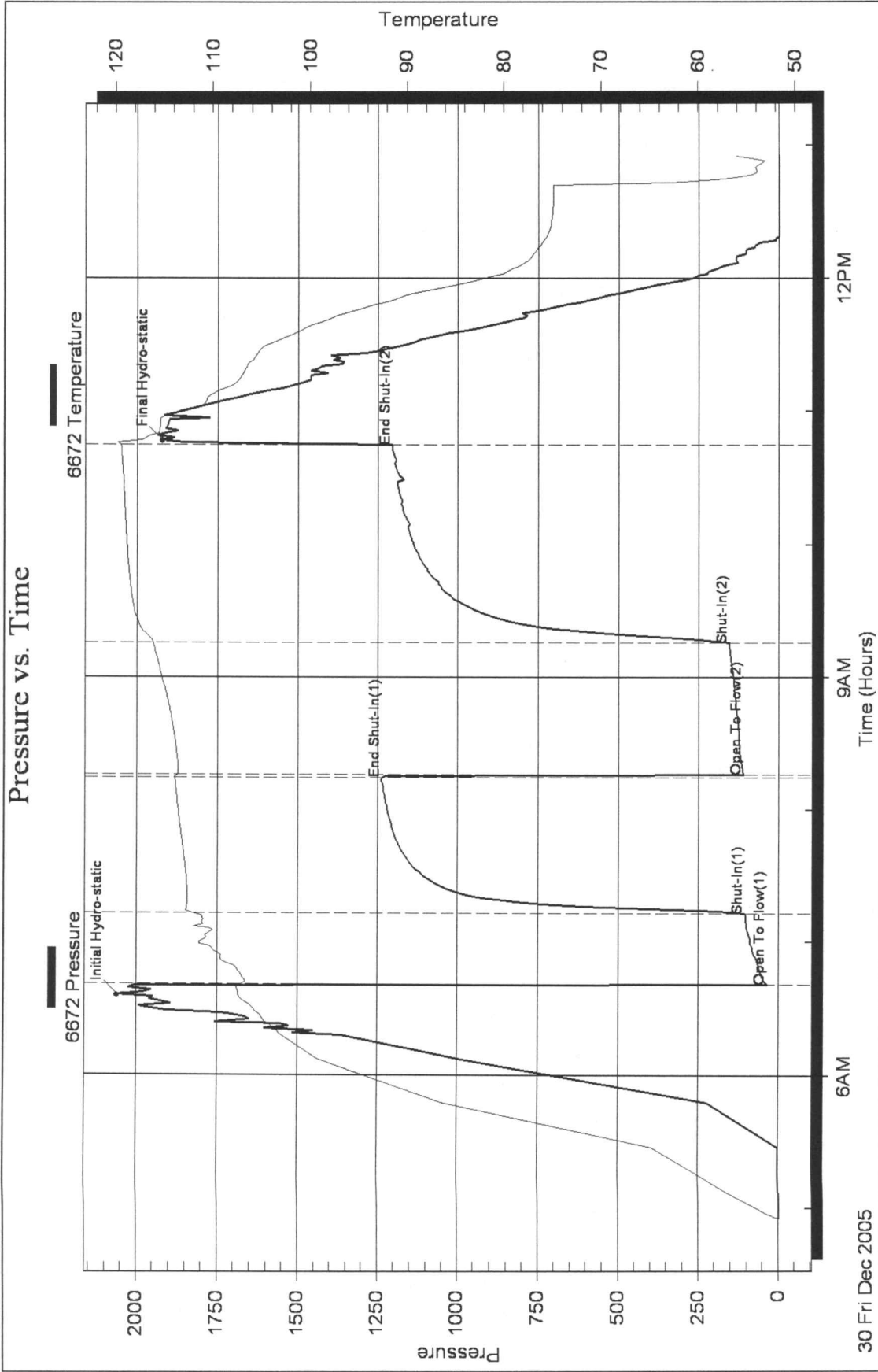
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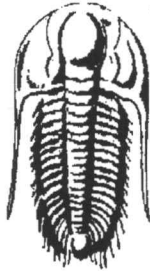
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
Wichita KS 67601

ATTN: David Doyel

17-5-29-Decatur-Ks

Brantley # 2-17 KCC

Start Date: 2005.12.31 @ 00:20:43

End Date: 2005.12.31 @ 07:25:13

Job Ticket #: 24404 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg Co Inc

Brantley # 2

17-5-29-Decatur-Ks

DST # 5

J-K-L

LKC

2005.12.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drlg Co Inc

250 N Water
Wichita KS 67601

ATTN: David Doyel

Brantley # 2

17-5-29-Decatur-Ks

Job Ticket: 24404

DST#: 5

Test Start: 2005.12.31 @ 00:20:43

GENERAL INFORMATION:

Formation: **J-K-L LKC**

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

Time Tool Opened: 02:05:43

Time Test Ended: 07:25:13

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3998.00 ft (KB) To 4080.00 ft (KB) (TVD)**

Total Depth: **4080.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2791.00 ft (KB)**

2786.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6672

Inside

Press@RunDepth: **116.92 psig @ 4006.00 ft (KB)**

Start Date: **2005.12.31**

End Date:

2005.12.31

Start Time: **00:20:44**

End Time:

07:25:13

Capacity: **7000.00 psig**

Last Calib.: **2005.12.31**

Time On Btm: **2005.12.31 @ 02:02:43**

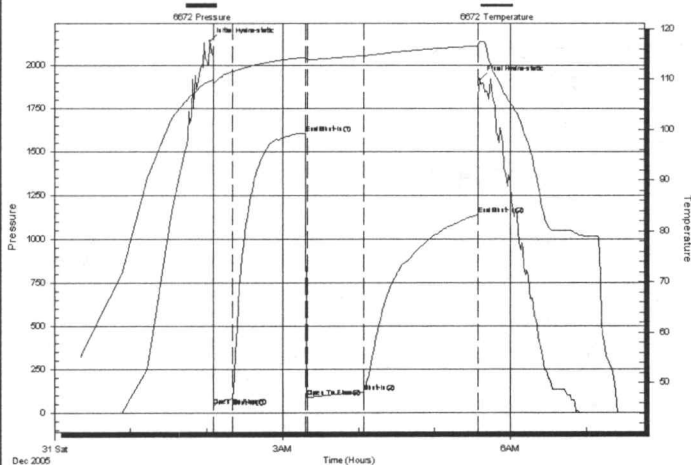
Time Off Btm: **2005.12.31 @ 05:36:13**

TEST COMMENT: **IF-Weak building to 4" fair bow**

FF-Weak building to 1/2"

Times-15-60-45-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.10	109.58	Initial Hydro-static
3	38.82	109.17	Open To Flow (1)
18	81.81	111.48	Shut-In(1)
76	1607.23	114.33	End Shut-In(1)
77	87.80	113.94	Open To Flow (2)
121	116.92	114.62	Shut-In(2)
212	1141.03	116.58	End Shut-In(2)
214	1919.89	117.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Silty OCM 2%o 98%m	0.61
62.00	OCM 10%o 90%m	0.30
10.00	CO	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24404

DST#: 5

ATTN: David Doyel

Test Start: 2005.12.31 @ 00:20:43

Tool Information

Drill Pipe:	Length: 3492.00 ft	Diameter: 3.80 inches	Volume: 48.98 bbl	Tool Weight: 2800.00 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: 490.00 ft	Diameter: 2.25 inches	Volume: 2.41 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 51.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3998.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	111.00 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			3975.00	
Shut In Tool	5.00			3980.00	
Hydraulic tool	5.00			3985.00	
Jars	5.00			3990.00	
Safety Joint	3.00			3993.00	
Packer	5.00			3998.00	24.00 Bottom Of Top Packer
Packer - Shale	5.00			4003.00	
Stubb	1.00			4004.00	
Perforations	1.00			4005.00	
Change Over Sub	1.00			4006.00	
Recorder	0.00	6672	Inside	4006.00	
Drill Pipe	62.00			4068.00	
Change Over Sub	1.00			4069.00	
Recorder	0.00	13254	Outside	4069.00	
Perforations	13.00			4082.00	
Bullnose	3.00			4085.00	87.00 Anchor Tool
Total Tool Length:	111.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Brantley # 2

250 N Water
Wichita KS 67601

17-5-29-Decatur-Ks

Job Ticket: 24404

DST#: 5

ATTN: David Doyel

Test Start: 2005.12.31 @ 00:20:43

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Sltly OCM 2%o 98%m	0.610
62.00	OCM 10%o 90%m	0.305
10.00	CO	0.049

Total Length: 196.00 ft Total Volume: 0.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

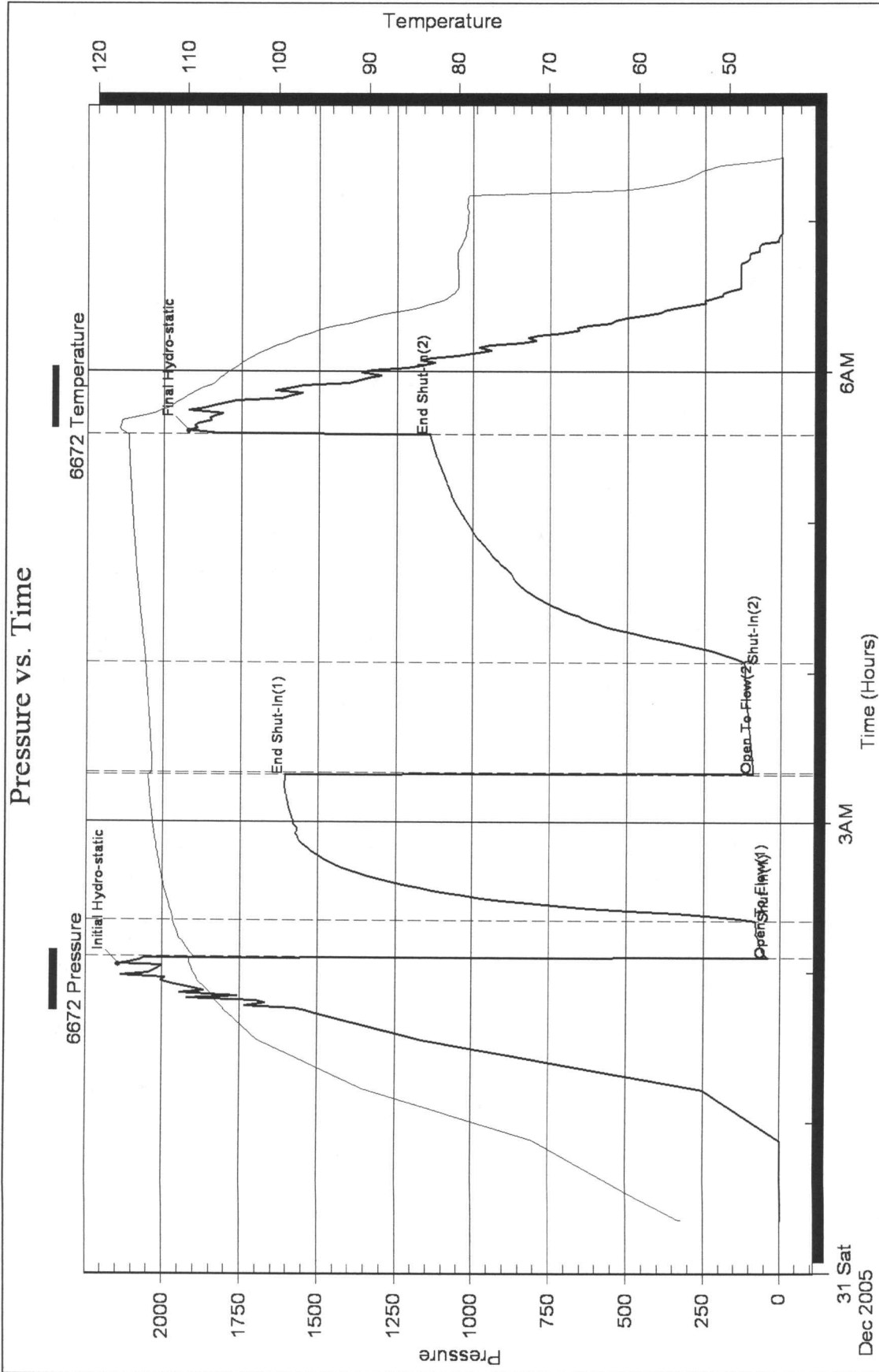
Inside

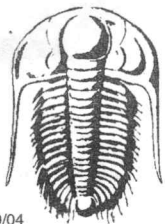
Murfin Drig Co Inc

17-5-29-Decatur-Ks

DST Test Number: 5

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8259 X
No 23875

9/04

Test Ticket

Well Name & No. Brantley #2 Test No. 1 Date 12-28-05
 Company Murfin Drilling Co. Inc Zone Tested Toronto-A-B LKC
 Address 250 N. W. ST. WICHITA, KS. 67202 Elevation 2791 KB 2786 GL
 Co. Rep / Geo. Don Blankenau Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 17 Twp. 5 Rge. 29 Co. Decatur State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3827 ——— 3910 Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 69,000
 Anchor Length 83 Wt. Set Lbs. 25,500 Wt. Pulled Loose/Lbs. 109,000
 Top Packer Depth 3822 Tool Weight 2800
 Bottom Packer Depth 3827 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3910 Wt. Pipe Run _____ Drill Collar Run 490
 Mud Wt. 9.2 LCM _____ Vis. 64 WL 6 Drill Pipe Size 4.5XH Ft. Run _____
 Blow Description I.F. Weak-building to fair - 6-B in 18 min.

F.F. Weak-building to 4"

Recovery - Total Feet 558 GIP _____ Ft. in DC 490 Ft. in DP 68
 Rec. 248 Feet of D.M %gas _____ %oil _____ %water _____ %mud _____
 Rec. 310 Feet of ~~248~~ WTA + SITY %gas 1 %oil 30 %water 69 %mud _____
 Rec. _____ Feet of OCM %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 117 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .24 @ 80 °F Chlorides 68,000 ppm Recovery _____ Chlorides 800 ppm System

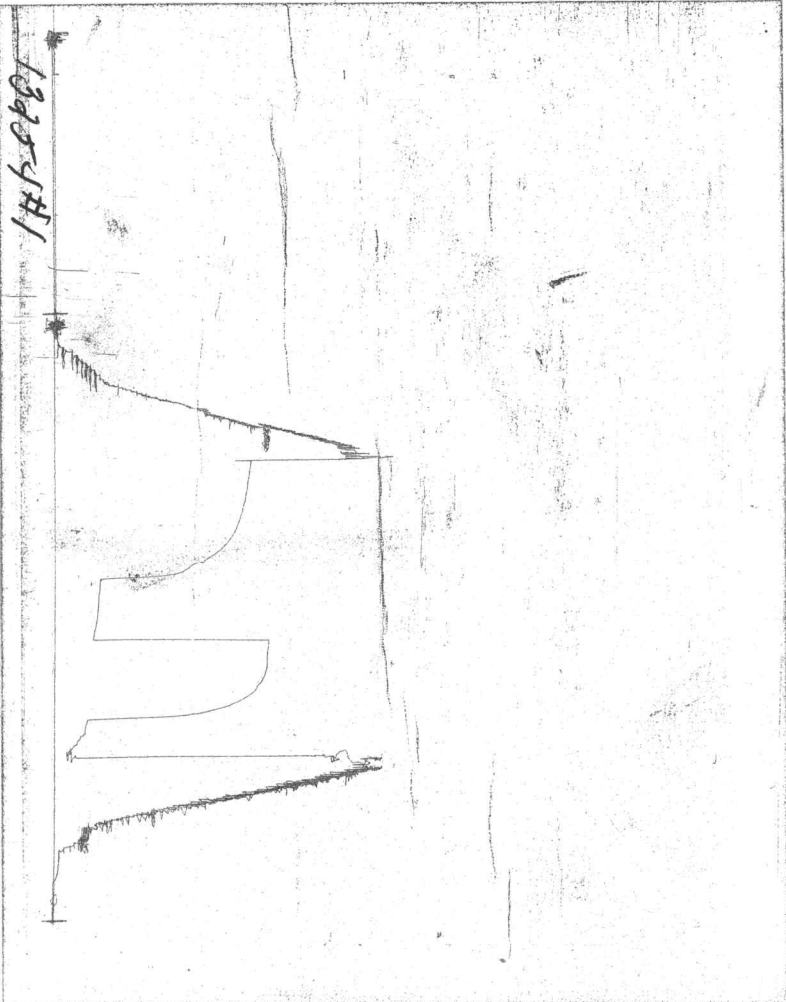
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1938</u> PSI	<u>6672</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>52</u> PSI	(depth) <u>3830</u>	Jars <u>X</u> <u>200</u>
(C) First Final Flow Pressure		<u>218</u> PSI	Recorder No. <u>13254</u>	Safety Jt. <u>X</u> <u>50</u>
(D) Initial Shut-In Pressure		<u>1324</u> PSI	(depth) <u>3893</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>225</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>282</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1216</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1865</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
			Final Flow <u>45</u>	Ruined Packer _____
			Final Shut-In <u>90</u>	Mileage <u>232</u> <u>232</u>
			T-On Location <u>07:15</u>	Sub Total: <u>1482</u>
			T-Started <u>07:40</u>	Std. By _____
			T-Open <u>09:35</u>	Other _____
			T-Pulled <u>13:20</u>	Total: _____
			T-Out <u>15:12</u>	

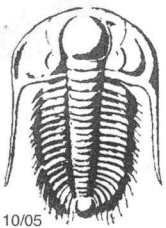
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Approved By [Signature]
Our Representative Don Blankenau

CHART PAGE

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





TRILOBITE TESTING INC.

No 24401

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Brantley #2 Test No. 2 Date 12-28-05
 Company Murfin Dalg Co. Inc Zone Tested C-D LHC
 Address _____ Elevation 2791 KB 2786 GL _____
 Co. Rep / Geo. Dan Blankenau Rig Murfin #3
 Location: Sec. 17 Twp. 5 Rge. 29 Co. Decatur State KS
 Comment: _____ Release date / time: _____

Interval Tested 3907 ————— 3926 Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 69,000
 Anchor Length 19 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 89,000
 Top Packer Depth 3902 Tool Weight 1900
 Bottom Packer Depth 3907 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3926 Wt. Pipe Run _____ Drill Collar Run 490
 Mud Wt. 9.2 LCM _____ Vis. 64 WL 6 Drill Pipe Size 4.5 xH Ft. Run 3396
 Blow Description I.F. weak - building to B-B in 19 min.
F.F. weak - building to B-B in 30 min.

Recovery - Total Feet 619 GIP _____ Ft. in DC 490 Ft. in DP 129
 Rec. 124 Feet of D.M. %gas _____ %oil _____ %water _____ %mud _____
 Rec. 495 Feet of mdy WTR. %gas _____ %oil 50 %water 50 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 121 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API _____
 RW 110 @ 80 °F Chlorides 80,000 ppm Recovery _____ Chlorides 800 ppm System _____

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2009</u> PSI	<u>6672</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>21</u> PSI	(depth) <u>3908</u>	Jars <u>X</u> <u>200</u>
(C) First Final Flow Pressure		<u>250</u> PSI	Recorder No. <u>13254</u>	Safety Jt. <u>X</u> <u>50</u>
(D) Initial Shut-In Pressure		<u>1332</u> PSI	(depth) <u>3923</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>254</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>310</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1334</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1907</u> PSI	Initial Shut-In <u>60</u>	Shale Packer <u>X</u> <u>150</u>

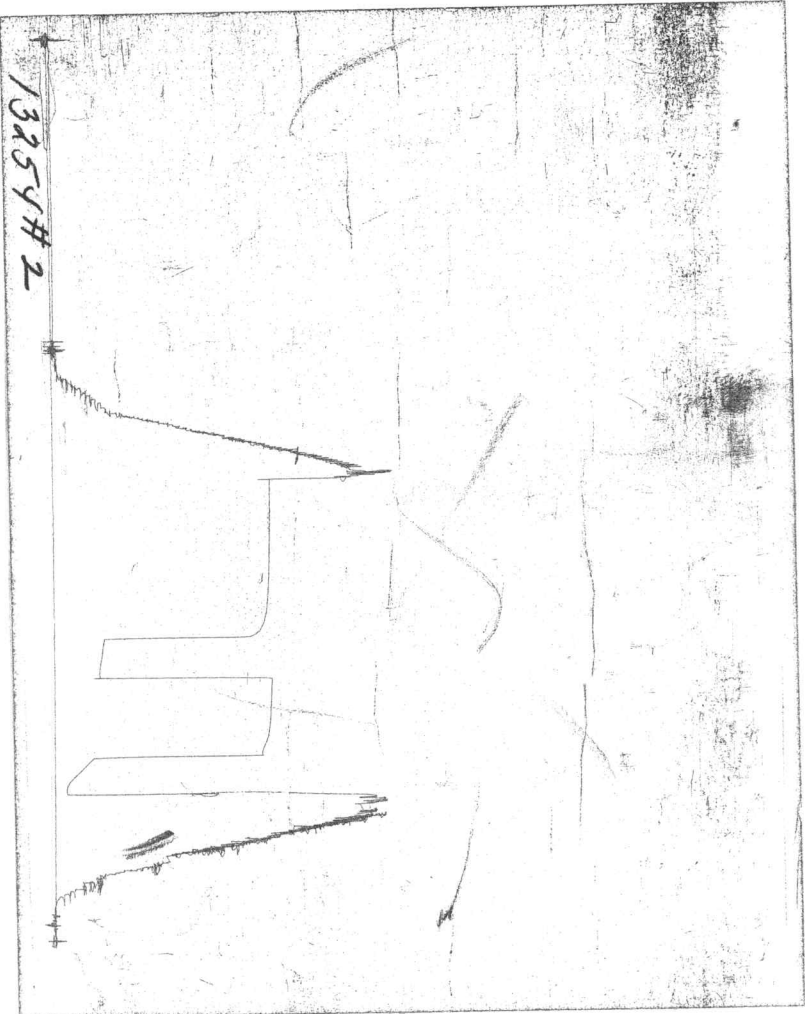
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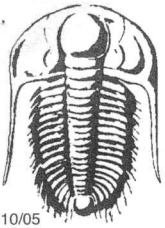
Approved By [Signature]
 Our Representative Dan Bangle

Final Flow	<u>30</u>	Ruined Packer	_____
Final Shut-In	<u>120</u>	Mileage	<u>36</u> <u>36</u>
T-On Location	<u>21:00</u>	Sub Total:	<u>1436</u>
T-Started	<u>21:35</u>	Std. By	_____
T-Open	<u>23:30</u>	Acc. Chg:	_____
T-Pulled	<u>03:30</u>	Other:	_____
T-Out	<u>05:12</u>	Total:	_____

CHART PAGE

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





TRILOBITE TESTING INC.

No 24402

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Brantley #2 Test No. 3 Date 12-29-05
 Company Murfin Drilg Co. Inc Zone Tested E-F LKC
 Address _____ Elevation 2791 KB 2786 GL _____
 Co. Rep / Geo. Dan Blankenau Rig Murfin #3
 Location: Sec. 17 Twp. 5 Rge. 29 Co. Decatur State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3926 ————— 3955 Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 76,000
 Anchor Length 29 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 3921 Tool Weight 2200
 Bottom Packer Depth 3926 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3955 Wt. Pipe Run _____ Drill Collar Run 490
 Mud Wt. 9.2 LCM _____ Vis. 64 WL 6 Drill Pipe Size 4.5XH Ft. Run 3427

Blow Description I.F. Weak building to fair B-B in 11 min.
ISI- Weak steady blow back
F.F. Weak building to fair B-B in 30 min.
FSI- Weak steady surface blow-building to 1 1/2"

Recovery - Total Feet 537 GIP 511 Ft. in DC 490 Ft. in DP 47
 Rec. 475 Feet of CGSYO 20 %gas 80 %oil %water %mud
 Rec. 62 Feet of OCBSYM 10 %gas 40 %oil %water 50 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 124 °F Gravity _____ °API D @ _____ °F Corrected Gravity 30 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 800 ppm System

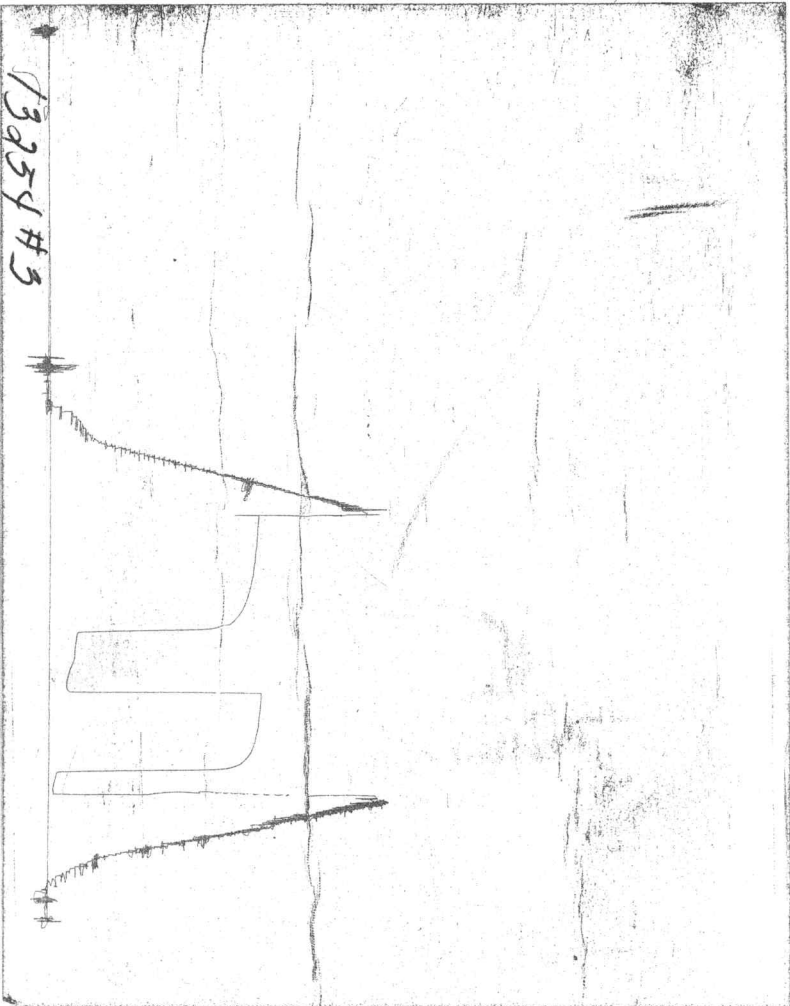
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2058</u>	PSI	<u>6672</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>24</u>	PSI	(depth) <u>3927</u>	Jars <u>X</u> <u>200</u>
(C) First Final Flow Pressure	<u>83</u>	PSI	Recorder No. <u>13254</u>	Safety Jt. <u>X</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1324</u>	PSI	(depth) <u>3952</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>95</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>196</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1301</u>	PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1928</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>X</u> <u>150</u>
			Final Flow <u>45</u>	Ruined Packer _____
			Final Shut-In <u>90</u>	Mileage <u>36</u> <u>36</u>
			T-On Location <u>11:45</u>	Sub Total: <u>1436</u>
			T-Started <u>12:10</u>	Std. By _____
			T-Open <u>13:50</u>	Acc. Chg: _____
			T-Pulled <u>17:20</u>	Other: _____
			T-Out <u>19:22</u>	Total: _____

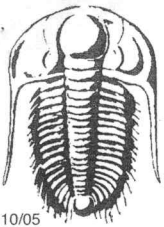
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Approved By [Signature]
 Our Representative Dan Blankenau

CHART PAGE

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





TRILOBITE TESTING INC.

No 24403

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Brantley #2 Test No. 4 Date 12-30-05
 Company Murfin Drilg Co. Inc Zone Tested G-H LKC
 Address _____ Elevation 2791 KB 2786 GL _____
 Co. Rep / Geo. Dan Blankenau Rig Murfin #3
 Location: Sec. 17 Twp. 5 Rge. 29 Co. Decatur State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3957 ——— 4010 Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 68,000
 Anchor Length 53 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth _____ Tool Weight 2500
 Bottom Packer Depth 3957 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4010 Wt. Pipe Run _____ Drill Collar Run 490
 Mud Wt. 9.2 LCM _____ Vis. 55 WL 6.4 Drill Pipe Size 4.5x14 Ft. Run 3457
 Blow Description I.F. Weak - building to 2" in 15 min then decreasing to 1" in 30 min.

E.F. Weak steady 1/2" blow

Recovery - Total Feet 269 GIP _____ Ft. in DC 269 Ft. in DP _____
 Rec. 5 Feet of CO %gas _____ %oil _____ %water _____ %mud _____
 Rec. 140 Feet of OCM %gas 10 %oil _____ %water _____ %mud 90
 Rec. 124 Feet of SIT/OCM %gas 3 %oil _____ %water _____ %mud 97
 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 _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1900 ppm System

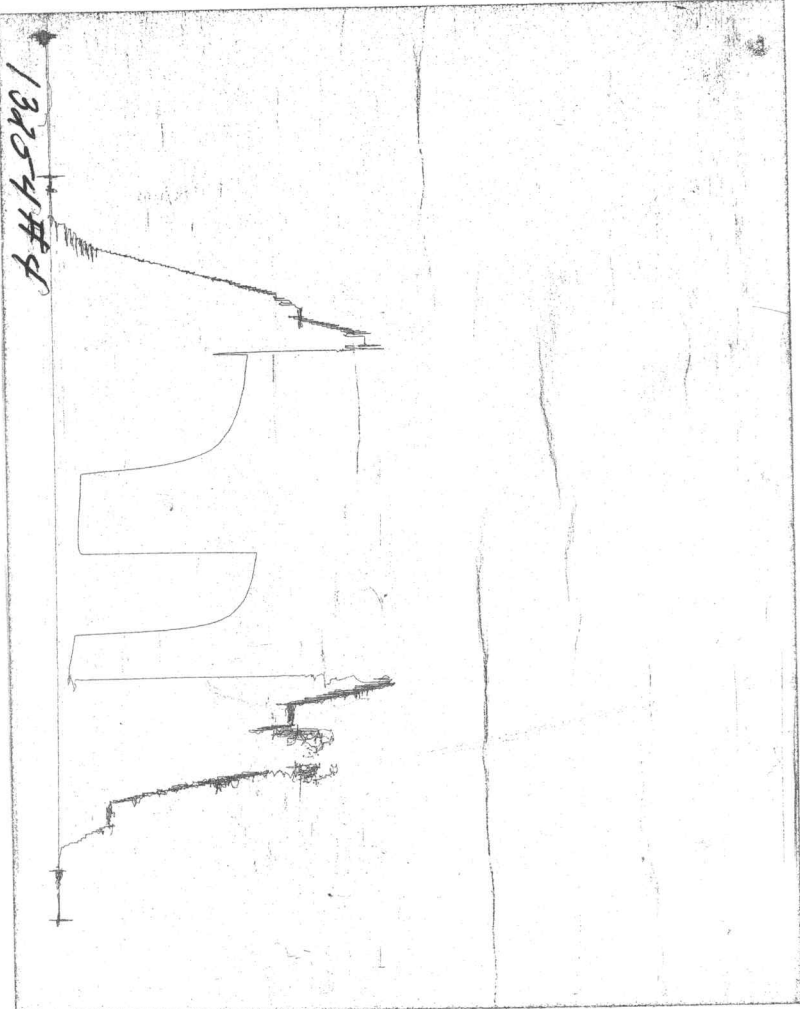
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2059</u>	PSI	<u>6672</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>33</u>	PSI	(depth) <u>3961</u>	Jars <u>X</u> <u>200</u>
(C) First Final Flow Pressure	<u>100</u>	PSI	Recorder No. <u>1325-4</u>	Safety Jt. <u>X</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1236</u>	PSI	(depth) <u>3992</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>108</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>152</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1204</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1920</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>X</u> <u>150</u>
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>90</u>	Mileage <u>36</u> <u>36</u>
			T-On Location <u>04:45</u>	Sub Total: <u>1536</u>
			T-Started <u>04:55</u>	Std. By _____
			T-Open <u>06:45</u>	Acc. Chg: _____
			T-Pulled <u>10:45</u>	Other: _____
			T-Out <u>12:55</u>	Total: _____

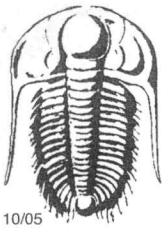
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Approved By [Signature]
Our Representative Dan Blankenau

CHART PAGE

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





TRILOBITE TESTING INC.

No 24404

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Brantley #2 Test No. 5 Date 12-31-05
 Company Murfin Drllg Co. Inc Zone Tested J-K-L LKC
 Address _____ Elevation 2791 KB 2786 GL _____
 Co. Rep / Geo. Dan Blankenau Rig Murfin #3
 Location: Sec. 17 Twp. 5 Rge. 29 Co. Decatur State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3998 ————— 4080 Initial Str Wt./Lbs. 69,000 Unseated Str Wt./Lbs. 69,000
 Anchor Length _____ 82 Wt. Set Lbs. 25,200 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth _____ 3993 Tool Weight 2800
 Bottom Packer Depth _____ 3998 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4080 Wt. Pipe Run _____ Drill Collar Run 490
 Mud Wt. 9.1 LCM _____ Vis. 50 WL 6 Drill Pipe Size 4.5x14 Ft. Run 3492
 Blow Description I.F. Weak- building to 4" fair blow

E.F. Weak- building to 1/2"

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>196</u>		<u>196</u>	
Rec. <u>10</u>	Feet of <u>CO</u>	%gas _____ %oil _____	%water _____ %mud _____
Rec. <u>62</u>	Feet of <u>OCM</u>	%gas <u>10</u> %oil _____	%water <u>90</u> %mud _____
Rec. <u>124</u>	Feet of <u>Slightly OCM</u>	%gas <u>2</u> %oil _____	%water <u>98</u> %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>116</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>1500</u> ppm System _____

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2142</u> PSI		<u>6672</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>38</u> PSI		<u>4006</u>	Jars <u>X</u> <u>200</u>
(C) First Final Flow Pressure	<u>81</u> PSI		<u>13254</u>	Safety Jt. <u>X</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1607</u> PSI		<u>4069</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>87</u> PSI			Sampler _____
(F) Second Final Flow Pressure	<u>116</u> PSI			Straddle _____
(G) Final Shut-In Pressure	<u>1141</u> PSI	Initial Opening	<u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1919</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer <u>X</u> <u>150</u>
		Final Flow	<u>45</u>	Ruined Packer _____
		Final Shut-In	<u>90</u>	Mileage <u>36</u> <u>36</u>
		T-On Location	<u>00:06</u>	Sub Total: <u>1536</u>
		T-Started	<u>00:20</u>	Std. By _____
		T-Open	<u>02:05</u>	Acc. Chg: _____
		T-Pulled	<u>05:35</u>	Other: _____
		T-Out	<u>07:25</u>	Total: _____

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Approved By [Signature]
 Our Representative Dan Blankenau

18 extra copies

CHART PAGE

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

