**TRILOBITE
TESTING, INC.****DRILL STEM TEST REPORT**Prepared For: **Murfin Drilling Co. Inc.**250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

7 3s 26w Decatur KS**RGM #1-7**

Start Date: 2008.07.28 @ 08:04:08

End Date: 2008.07.28 @ 15:46:08

Job Ticket #: 32128 DST #: 1

KCC
NOV 13 2008
CONFIDENTIALRECEIVED
KANSAS CORPORATION COMMISSION**NOV 17 2008**CONSERVATION DIVISION
WICHITA, KSTrilobite Testing, Inc
PO Box 1733 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 Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

RGM #1-7

7 3s 26w Decatur KS

Job Ticket: 32128

DST#: 1

Test Start: 2008.07.28 @ 08:04:08

GENERAL INFORMATION:

Formation: **Topeka & Lans. "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:49:08

Time Test Ended: 15:46:08

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **3511.00 ft (KB) To 3569.00 ft (KB) (TVD)**

Total Depth: 3569.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2613.00 ft (KB)

2608.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 425.48 psig @ 3512.00 ft (KB)

Start Date: 2008.07.28

End Date:

2008.07.28

Capacity: 7000.00 psig

Last Calib.: 2008.07.28

Start Time: 08:04:13

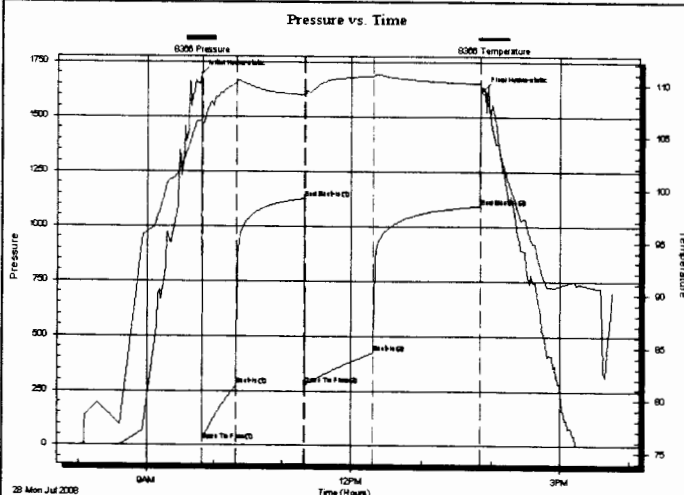
End Time:

15:46:07

Time On Btm: 2008.07.28 @ 09:48:38

Time Off Btm: 2008.07.28 @ 13:53:08

TEST COMMENT: IF Blow built to BOB in 11 min
ISI Bled off No blow back
FF Blow built to BOB in 16 min
FSI Bled off No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.79	106.66	Initial Hydro-static
1	20.92	106.09	Open To Flow (1)
31	273.18	110.20	Shut-In (1)
91	1125.91	109.07	End Shut-In (1)
91	278.11	108.89	Open To Flow (2)
150	425.48	110.81	Shut-In (2)
242	1092.72	110.15	End Shut-In (2)
245	1622.71	109.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
795.00	SMCW 93%w, 7% m	6.17
80.00	Muddy Water 55%w, 45% m	1.12
0.00	RW = .265 @ 93.5 deg F	0.00
0.00	chlorides = 19000 ppm	0.00

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.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32128

DST#: 1

ATTN: Bob Stolzie

Test Start: 2008.07.28 @ 08:04:08

Tool Information

Drill Pipe:	Length: 2949.00 ft	Diameter: 3.80 inches	Volume: 41.37 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose:	110000.0 lb
		Total Volume:	44.06 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	86000.00 lb
Depth to Top Packer:	3511.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	81.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3493.00	
Hydraulic tool	5.00			3498.00	
Safety Joint	3.00			3501.00	
Packer	5.00			3506.00	23.00 Bottom Of Top Packer
Packer	5.00			3511.00	
Stubb	1.00			3512.00	
Recorder	0.00	8366	Inside	3512.00	
Recorder	0.00	8320	Inside	3512.00	
Perforations	16.00			3528.00	
Blank Spacing	33.00			3561.00	
Perforations	5.00			3566.00	
Bullnose	3.00			3569.00	58.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32128

DST#: 1

ATTN: Bob Stolze

Test Start: 2008.07.28 @ 08:04:08

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 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
795.00	SMCW 93%w, 7%m	6.169
80.00	Muddy Water 55%w, 45%m	1.122
0.00	RW = .265 @ 93.5 deg F	0.000
0.00	chlorides = 19000 ppm	0.000

Total Length: 875.00 ft

Total Volume: 7.291 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

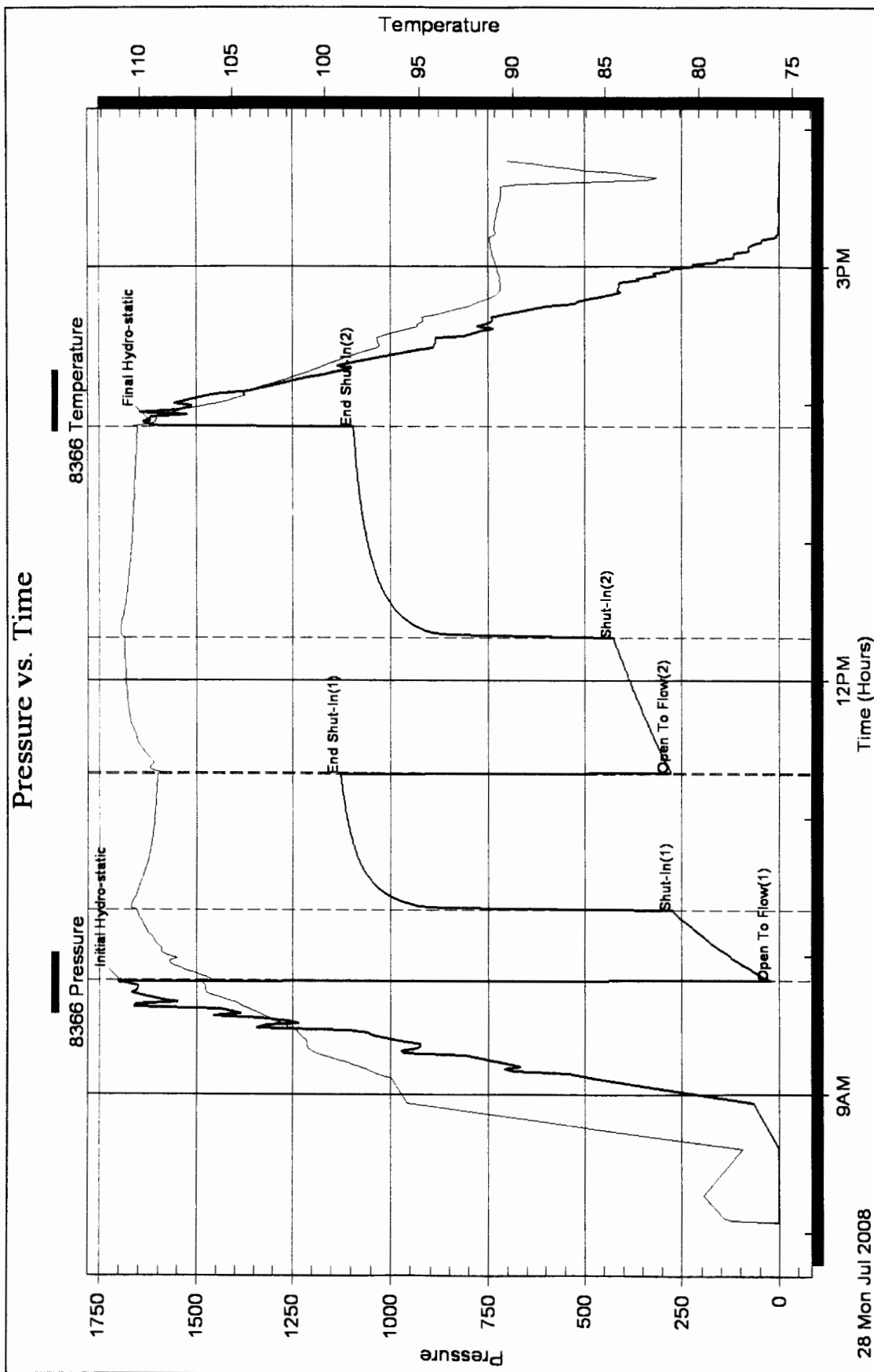
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

7 3s 26w Decatur KS

RGM #1-7

Start Date: 2008.07.28 @ 22:03:22

End Date: 2008.07.29 @ 04:10:22

Job Ticket #: 32129 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co. Inc.

RGM #1-7

7 3s 26w Decatur KS

DST # 2

Lans "B"

2008.07.28



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolzie

RGM #1-7

7 3s 26w Decatur KS

Job Ticket: 32129

DST#: 2

Test Start: 2008.07.28 @ 22:03:22

GENERAL INFORMATION:

Formation: **Lans "B"**

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

Time Tool Opened: 23:34:52

Time Test Ended: 04:10:22

Test Type: **Conventional Bottom Hole**

Tester: **James Winder JD Forb**

Unit No: **36**

Interval: **3570.00 ft (KB) To 3590.00 ft (KB) (TVD)**

Total Depth: **3590.00 ft (KB) (TVD)**

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

Reference Elevations: **2613.00 ft (KB)**

2608.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **59.64 psig @ 3571.00 ft (KB)**

Start Date: **2008.07.28**

End Date:

2008.07.29

Capacity: **7000.00 psig**

Last Calib.: **2008.07.29**

Start Time: **22:03:27**

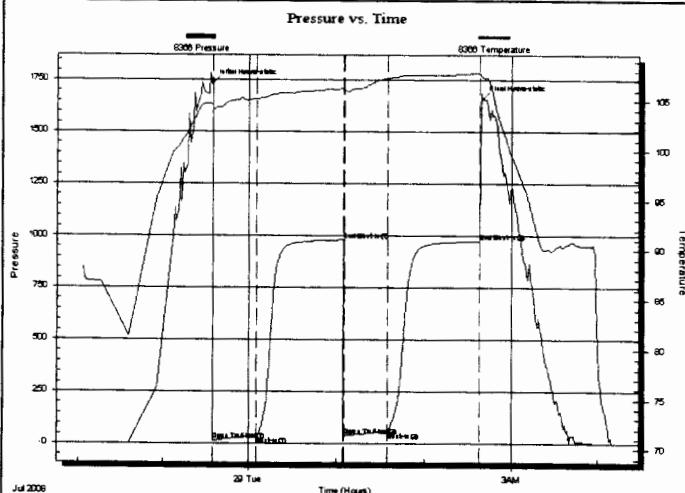
End Time:

04:10:21

Time On Btm: **2008.07.28 @ 23:34:22**

Time Off Btm: **2008.07.29 @ 02:39:52**

TEST COMMENT: IF Weak blow built to 2"
ISI Bled off No blow back
FF @ 17 min surface blow through open
FSI Bled off No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.66	104.67	Initial Hydro-static
1	15.04	104.05	Open To Flow (1)
31	35.81	105.23	Shut-In (1)
90	981.46	106.23	End Shut-In (1)
91	41.12	106.05	Open To Flow (2)
121	59.64	107.31	Shut-In (2)
184	975.55	107.83	End Shut-In (2)
186	1659.53	107.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWCM 75% m, 15% w, 10% o	0.30
15.00	OCM 86% m, 14% o	0.07
3.00	Clean oil 100%	0.01

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.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32129

DST#: 2

ATTN: Bob Stolzle

Test Start: 2008.07.28 @ 22:03:22

Tool Information

Drill Pipe:	Length: 3012.00 ft	Diameter: 3.80 inches	Volume: 42.25 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 105000.0 lb
		Total Volume: 44.94 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	3570.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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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Shut In Tool	5.00			3552.00	
Hydraulic tool	5.00			3557.00	
Safety Joint	3.00			3560.00	
Packer	5.00			3565.00	23.00 Bottom Of Top Packer
Packer	5.00			3570.00	
Stubb	1.00			3571.00	
Recorder	0.00	8366	Inside	3571.00	
Recorder	0.00	8320	Inside	3571.00	
Perforations	16.00			3587.00	
Bullnose	3.00			3590.00	20.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32129

DST#: 2

ATTN: Bob Stolze

Test Start: 2008.07.28 @ 22:03:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.38 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OWCM 75% _m , 15% _w , 10% _o	0.295
15.00	OCM 86% _m , 14% _o	0.074
3.00	Clean oil 100%	0.015

Total Length: 78.00 ft

Total Volume: 0.384 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

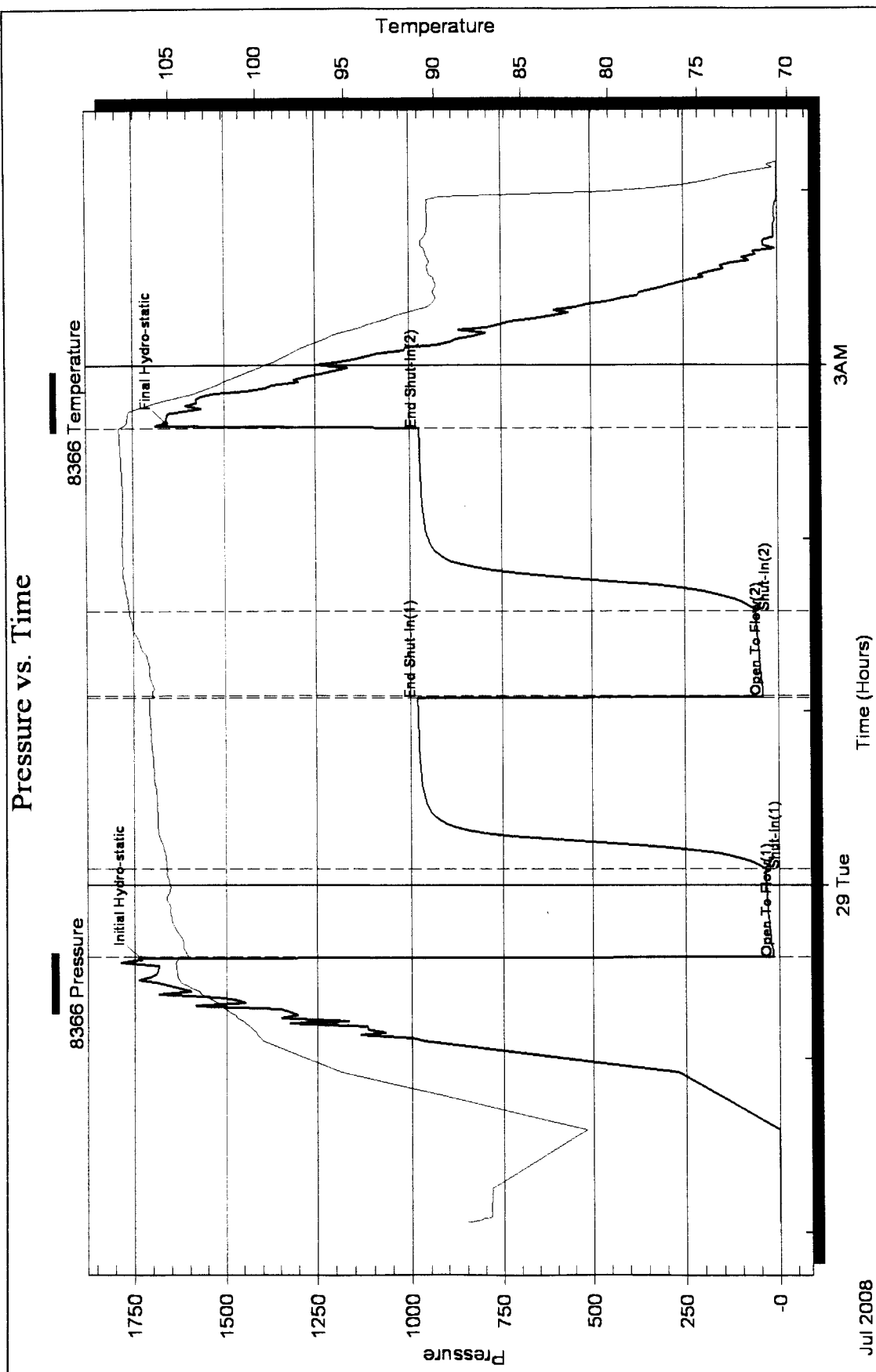
Serial #:

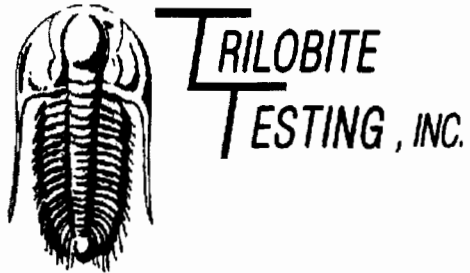
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

7 3s 26w Decatur KS

RGM #1-7

Start Date: 2008.07.29 @ 14:03:17

End Date: 2008.07.29 @ 21:26:47

Job Ticket #: 32130 DST #: 3

Trilobite Testing, Inc

PO Box 1733 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 Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

RGM #1-7

7 3s 26w Decatur KS

Job Ticket: 32130

DST#: 3

Test Start: 2008.07.29 @ 14:03:17

GENERAL INFORMATION:

Formation: **LKC D,F,G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:42:47

Time Test Ended: 21:26:47

Test Type: Conventional Bottom Hole

Tester: James Winder / James

Unit No: 36

Interval: **3589.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Total Depth: 3660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2613.00 ft (KB)

2608.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 103.38 psig @ 3590.00 ft (KB)

Start Date: 2008.07.29

End Date:

2008.07.29

Capacity: 7000.00 psig

Last Calib.: 2008.07.29

Start Time: 14:03:22

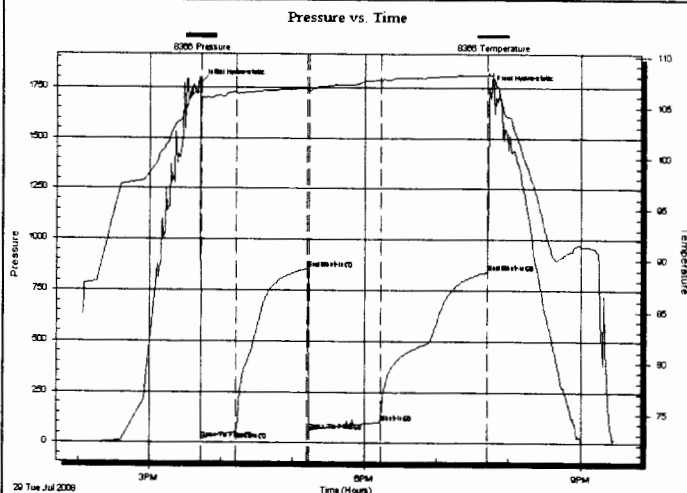
End Time:

21:26:46

Time On Btm: 2008.07.29 @ 15:42:17

Time Off Btm: 2008.07.29 @ 19:44:17

TEST COMMENT: IF 1/4" Blow Built to 3"
ISI Bled off no blow back
FF Surface blow @ 13 min Built to 1 1/2"
FSI Bled off No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.62	106.54	Initial Hydro-static
1	17.31	105.58	Open To Flow (1)
30	53.50	106.44	Shut-In (1)
90	856.07	106.90	End Shut-In (1)
91	57.77	106.67	Open To Flow (2)
151	103.38	107.74	Shut-In (2)
241	841.98	108.23	End Shut-In (2)
242	1742.74	108.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 63% m, 37% w	0.30
105.00	Mud	0.52

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.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32130

DST#: 3

ATTN: Bob Stolze

Test Start: 2008.07.29 @ 14:03:17

Tool Information

Drill Pipe:	Length: 3042.00 ft	Diameter: 3.80 inches	Volume: 42.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 108000.0 lb
			<u>Total Volume: 45.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	3589.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3571.00	
Hydraulic tool	5.00			3576.00	
Safety Joint	3.00			3579.00	
Packer	5.00			3584.00	23.00 Bottom Of Top Packer
Packer	5.00			3589.00	
Stubb	1.00			3590.00	
Recorder	0.00	8366	Inside	3590.00	
Recorder	0.00	8320	Inside	3590.00	
Perforations	30.00			3620.00	
Blank Spacing	32.00			3652.00	
Perforations	5.00			3657.00	
Bullnose	3.00			3660.00	71.00 Bottom Packers & Anchor

Total Tool Length: 94.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32130

DST#: 3

ATTN: Bob Stolze

Test Start: 2008.07.29 @ 14:03:17

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 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
60.00	WCM 63% _m , 37% _w	0.295
105.00	Mud	0.516

Total Length: 165.00 ft

Total Volume: 0.811 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

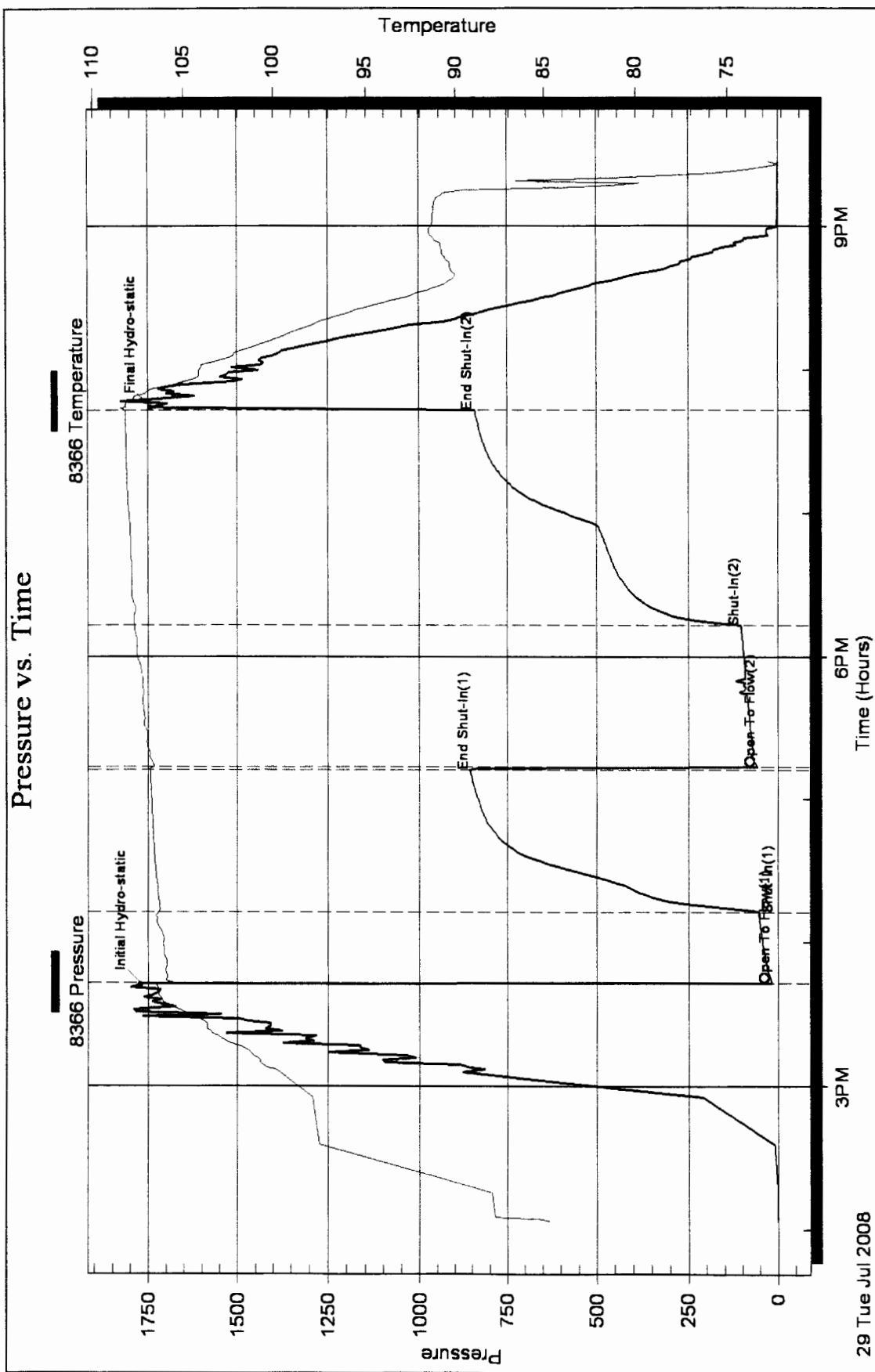
Serial #:

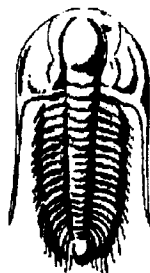
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

7 3s 26w Decatur KS

RGM #1-7

Start Date: 2008.07.30 @ 03:15:58

End Date: 2008.07.30 @ 10:26:28

Job Ticket #: 32131 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co. Inc.

RGM #1-7

7 3s 26w Decatur KS

DST # 4

LKC 'H'

2008.07.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolzie

RGM #1-7

7 3s 26w Decatur KS

Job Ticket: 32131

DST#: 4

Test Start: 2008.07.30 @ 03:15:58

GENERAL INFORMATION:

Formation: **LKC 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:58

Time Test Ended: 10:26:28

Test Type: Conventional Bottom Hole

Tester: James Winder/James F

Unit No: 36

Interval: **3684.00 ft (KB) To 3690.00 ft (KB) (TVD)**

Total Depth: 3569.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2613.00 ft (KB)

2608.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 677.30 psig @ 3685.00 ft (KB)

Start Date: 2008.07.30

End Date: 2008.07.30

Start Time: 03:16:03

End Time: 10:26:27

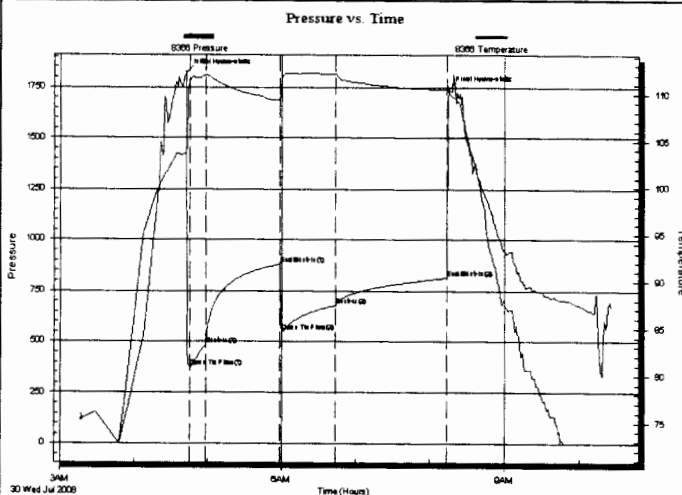
Capacity: 7000.00 psig

Last Calib.: 2008.07.30

Time On Btm: 2008.07.30 @ 04:42:58

Time Off Btm: 2008.07.30 @ 08:15:28

TEST COMMENT: IF Blow built to BOB in 40 sec. (Slid 3' to bottom chased 1' at open)
ISI Blow back built to 2" in 33 min then died
FF Blow built to BOB in 1 1/2 min
FSI Bled off No blow back



PRESSURE SUMMARY

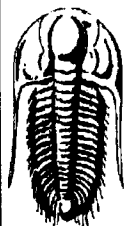
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.34	103.84	Initial Hydro-static
3	373.49	111.43	Open To Flow (1)
16	483.97	112.03	Shut-In (1)
76	878.90	109.38	End Shut-In (1)
78	550.34	111.76	Open To Flow (2)
121	677.30	112.13	Shut-In (2)
211	813.35	110.45	End Shut-In (2)
213	1736.87	110.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
615.00	Clean water	3.64
495.00	SGOMCW 88%w, 5%m, 4%o, 3%g	6.94
185.00	SGMCW 64%w, 30%m, 6%g	2.60
62.00	SGOMCW 58%w, 36%m, 3%o, 3%g	0.87
3.00	Clean Oil	0.04

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.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32131

DST#: 4

ATTN: Bob Stolzle

Test Start: 2008.07.30 @ 03:15:58

Tool Information

Drill Pipe:	Length: 3141.00 ft	Diameter: 3.80 inches	Volume: 44.06 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose:	115000.0 lb
			<u>Total Volume: 46.75 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	86000.00 lb
Depth to Top Packer:	3684.00 ft			Final	92000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3666.00	
Hydraulic tool	5.00			3671.00	
Safety Joint	3.00			3674.00	
Packer	5.00			3679.00	23.00 Bottom Of Top Packer
Packer	5.00			3684.00	
Stubb	1.00			3685.00	
Recorder	0.00	8366	Inside	3685.00	
Recorder	0.00	8320	Inside	3685.00	
Perforations	38.00			3723.00	
Bullnose	3.00			3726.00	42.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32131

DST#: 4

ATTN: Bob Stolze

Test Start: 2008.07.30 @ 03:15:58

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:

bbl

Water Loss: 6.38 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
615.00	Clean water	3.644
495.00	SGOMCW 88%w, 5%m, 4%o, 3%g	6.944
185.00	SGMCW 64%w, 30%m, 6%g	2.595
62.00	SGOMCW 58%w, 36%m, 3%o, 3%g	0.870
3.00	Clean Oil	0.042

Total Length: 1360.00 ft

Total Volume: 14.095 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

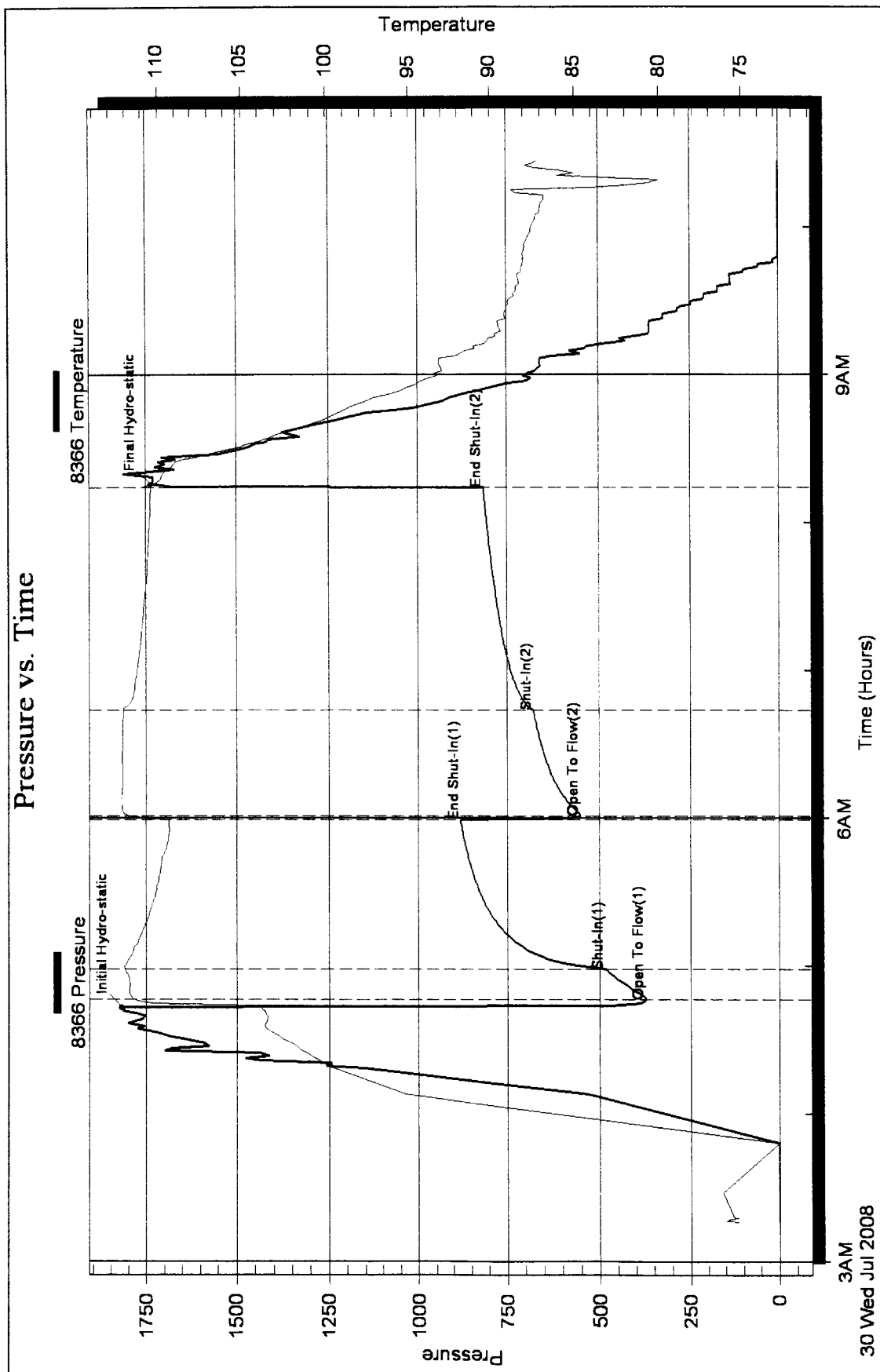
Laboratory Name:

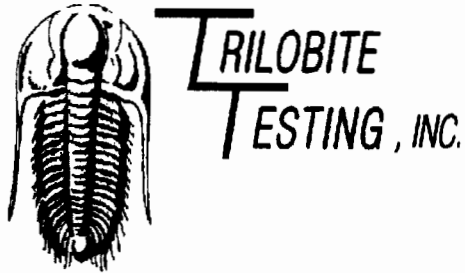
Laboratory Location:

Recovery Comments: RW= .132 @ 91.2 deg F

Chlorides = 49,000 ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

7 3s 26w Decatur KS

RGM #1-7

Start Date: 2008.07.30 @ 19:49:43

End Date: 2008.07.31 @ 02:12:13

Job Ticket #: 32132 DST #: 5

Trilobite Testing, Inc

PO Box 1733 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 Suite 300
Wichita, Ks 67202

ATTN: Bob Stolzie

RGM #1-7

7 3s 26w Decatur KS

Job Ticket: 32132

DST#: 5

Test Start: 2008.07.30 @ 19:49:43

GENERAL INFORMATION:

Formation: **LKC 'JKL'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:43

Time Test Ended: 02:12:13

Test Type: Conventional Bottom Hole

Tester: James W /James F

Unit No: 36

Interval: **3686.00 ft (KB) To 3765.00 ft (KB) (TVD)**

Total Depth: 3765.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2613.00 ft (KB)

2608.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 284.97 psig @ 3687.00 ft (KB)

Start Date: 2008.07.30

End Date:

2008.07.31

Capacity:

7000.00 psig

Last Calib.:

2008.07.31

Start Time: 19:49:48

End Time:

02:12:12

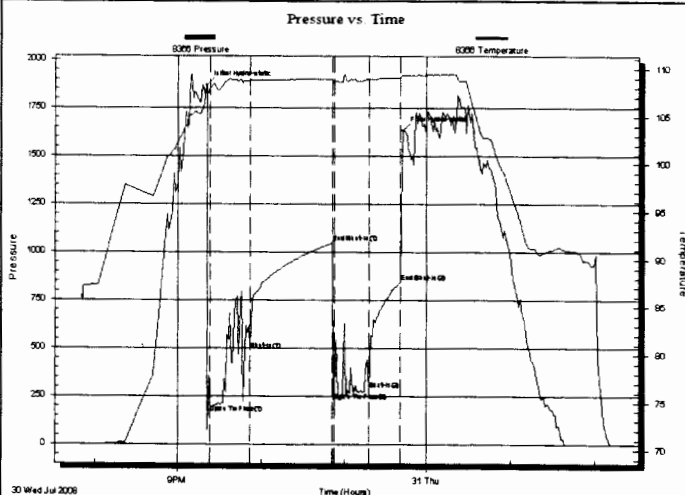
Time On Btm:

2008.07.30 @ 21:20:43

Time Off Btm:

2008.07.30 @ 23:42:43

TEST COMMENT: IF Hole taking M @open Pulled up Bled off Reset tool Taking M slowly Bled off @5 min from BOB blow
ISI Bled off No blow back
FF At 9 min Surface blow built to 2" Slow M seeping on open & closes
FSI



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.21	107.91	Initial Hydro-static
2	163.16	108.08	Open To Flow (1)
32	492.21	108.70	Shut-In(1)
91	1048.18	108.88	End Shut-In(1)
92	228.90	108.58	Open To Flow (2)
117	284.97	108.84	Shut-In(2)
140	844.26	109.05	End Shut-In(2)
142	1632.00	109.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Mud 100%	1.97

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.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32132

DST#: 5

ATTN: Bob Stolzie

Test Start: 2008.07.30 @ 19:49:43

Tool Information

Drill Pipe:	Length: 3134.00 ft	Diameter: 3.80 inches	Volume: 43.96 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	46.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	3686.00 ft			Final	92000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 ft				
Tool Length:	102.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

IF cont Surging blow built to 1" took approx 50' M total

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Safety Joint	3.00			3676.00	
Packer	5.00			3681.00	23.00 Bottom Of Top Packer
Packer	5.00			3686.00	
Stubb	1.00			3687.00	
Recorder	0.00	8366	Inside	3687.00	
Recorder	0.00	8320	Inside	3687.00	
Perforations	10.00			3697.00	
Blank Spacing	64.00			3761.00	
Perforations	1.00			3762.00	
Bullnose	3.00			3765.00	79.00 Bottom Packers & Anchor

Total Tool Length: 102.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

RGM #1-7

250 N. Water Suite 300
Wichita, Ks 67202

7 3s 26w Decatur KS

Job Ticket: 32132

DST#: 5

ATTN: Bob Stolze

Test Start: 2008.07.30 @ 19:49:43

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: 64.00 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
400.00	Mud 100%	1.967

Total Length: 400.00 ft

Total Volume: 1.967 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

