



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

23-12-33 Logan,Ks

Kuhlman 'C' #1-23

Start Date: 2006.02.28 @ 01:00:29

End Date: 2006.02.28 @ 09:05:08

Job Ticket #: 23261 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kuhlman 'C' #1-23

23-12-33 Logan, Ks

Job Ticket: 23261

DST#: 1

Test Start: 2006.02.28 @ 01:00:29

GENERAL INFORMATION:

Formation: **Lans 'E'**

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

Time Tool Opened: 03:08:24

Time Test Ended: 09:05:08

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **4120.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Reference Elevations: **3089.00 ft (KB)**

Total Depth: **4140.00 ft (KB) (TVD)**

3079.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **10.00 ft**

Serial #: 6667

Inside

Press@RunDepth: **113.54 psig @ 4121.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2006.02.28**

End Date:

2006.02.28

Last Calib.: **2006.02.28**

Start Time: **01:00:29**

End Time:

08:54:08

Time On Btm: **2006.02.28 @ 03:07:39**

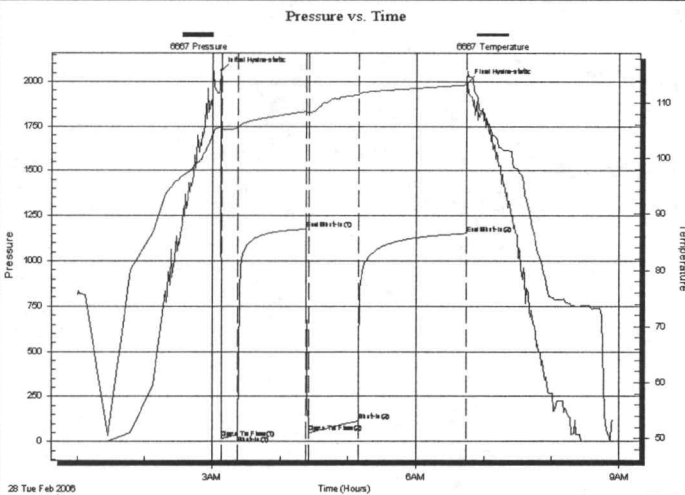
Time Off Btm: **2006.02.28 @ 06:44:39**

TEST COMMENT: **1/4" in. @ open built to 2 1/4" in.**

No return

Surface blow built to 1 1/4" in.

No return



PRESSURE SUMMARY

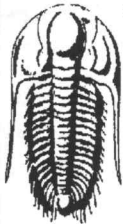
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.84	105.68	Initial Hydro-static
1	16.14	105.25	Open To Flow (1)
15	35.75	105.55	Shut-In(1)
75	1176.17	108.44	End Shut-In(1)
78	47.60	108.27	Open To Flow (2)
121	113.54	111.40	Shut-In(2)
216	1152.44	113.20	End Shut-In(2)
217	1992.48	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	m c w 20m 80w	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23261

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2006.02.28 @ 01:00:29

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 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: 2500.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 52.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4120.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4099.00	
Shut In Tool	5.00			4104.00	
Hydraulic tool	5.00			4109.00	
Safety Joint	2.00			4111.00	
Packer	5.00		Fluid	4116.00	22.00 Bottom Of Top Packer
Packer	4.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	6667	Inside	4121.00	
Perforations	14.00			4135.00	
Recorder	0.00	11058	Inside	4135.00	
Bullnose	5.00			4140.00	20.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23261

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2006.02.28 @ 01:00:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	m c w 20m 80w	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

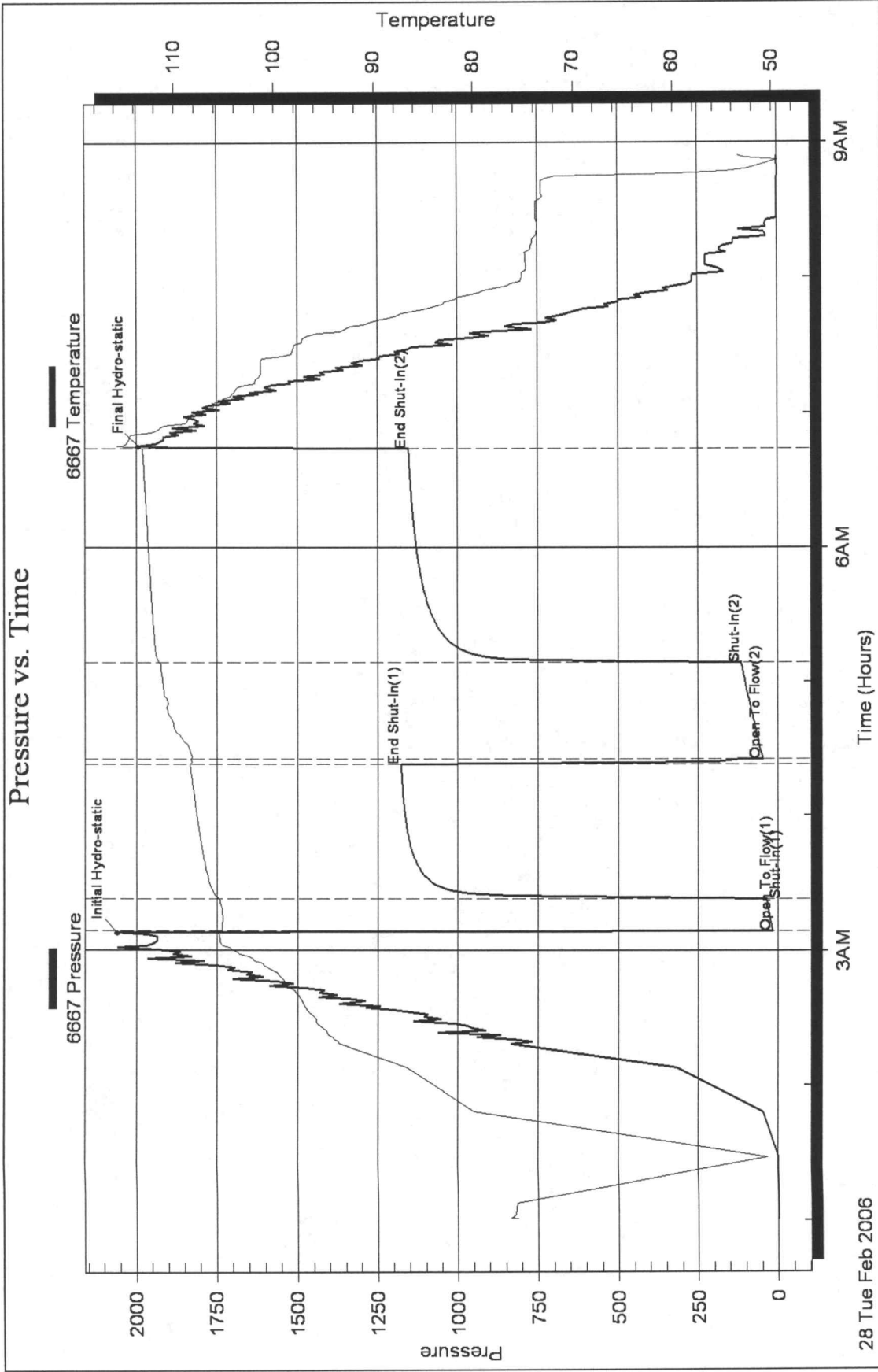
Serial #:

Laboratory Name:

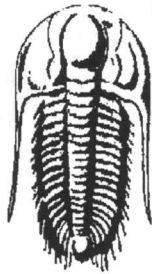
Laboratory Location:

Recovery Comments: rw .261 @ 50*f = 38,500

Pressure vs. Time



28 Tue Feb 2006



**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

23-12-33 Logan,Ks

Kuhlman 'C' #1-23

Start Date: 2006.02.28 @ 19:50:58

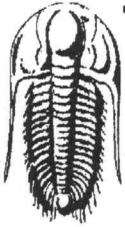
End Date: 2006.03.01 @ 04:40:38

Job Ticket #: 23262 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kuhlman 'C' #1-23

23-12-33 Logan, Ks

Job Ticket: 23262

DST#: 2

Test Start: 2006.02.28 @ 19:50:58

GENERAL INFORMATION:

Formation: **Lans 'H'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:50:38
 Time Test Ended: 04:40:38

Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 25

Interval: **4194.00 ft (KB) To 4227.00 ft (KB) (TVD)**
 Total Depth: 4227.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3089.00 ft (KB)
 3079.00 ft (CF)
 KB to GR/CF: 10.00 ft

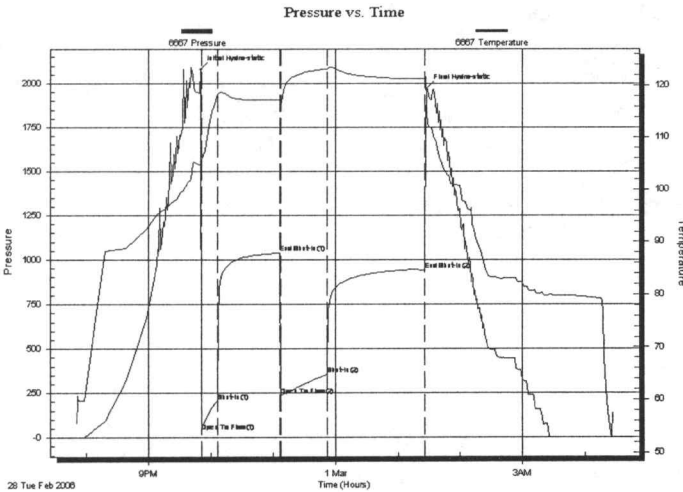
Serial #: 6667

Inside

Press@RunDepth: 355.49 psig @ 4195.00 ft (KB)
 Start Date: 2006.02.28 End Date: 2006.03.01
 Start Time: 19:50:58 End Time: 04:26:38

Capacity: 7000.00 psig
 Last Calib.: 2006.03.01
 Time On Btrn: 2006.02.28 @ 21:50:23
 Time Off Btrn: 2006.03.01 @ 01:27:38

TEST COMMENT: B.O.B. in 6 1/2min.
 Bled off for 2 min. return blow in 2 min built to 4" in.
 4" in. @ open B.O.B. in 6 min.
 Bled off for 2 min return in 3 min. built to 2 1/2" in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.64	104.87	Initial Hydro-static
1	35.70	103.95	Open To Flow (1)
17	204.25	118.23	Shut-In(1)
77	1038.46	117.25	End Shut-In(1)
78	236.84	116.89	Open To Flow (2)
122	355.49	123.12	Shut-In(2)
216	941.31	121.23	End Shut-In(2)
218	1971.40	114.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	m c g o 30m 20g 50o	0.15
1005.00	c g o 20g 80o	9.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

ATTN: Paul Gunzelman

Job Ticket: 23262

DST#: 2

Test Start: 2006.02.28 @ 19:50:58

Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.80 inches	Volume: 51.13 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	100000.0 lb
		Total Volume: 53.87 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	83000.00 lb
Depth to Top Packer:	4194.00 ft			Final	84000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	55.00 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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Stubb	1.00			4173.00	
Shut In Tool	5.00			4178.00	
Hydraulic tool	5.00			4183.00	
Safety Joint	2.00			4185.00	
Packer	5.00		Fluid	4190.00	22.00 Bottom Of Top Packer
Packer	4.00			4194.00	
Stubb	1.00			4195.00	
Recorder	0.00	6667	Inside	4195.00	
Perforations	27.00			4222.00	
Recorder	0.00	11058	Inside	4222.00	
Bullnose	5.00			4227.00	33.00 Bottom Packers & Anchor

Total Tool Length: 55.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23262

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2006.02.28 @ 19:50:58

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:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	m c g o 30m 20g 50o	0.148
1005.00	c g o 20g 80o	9.288

Total Length: 1035.00 ft Total Volume: 9.436 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

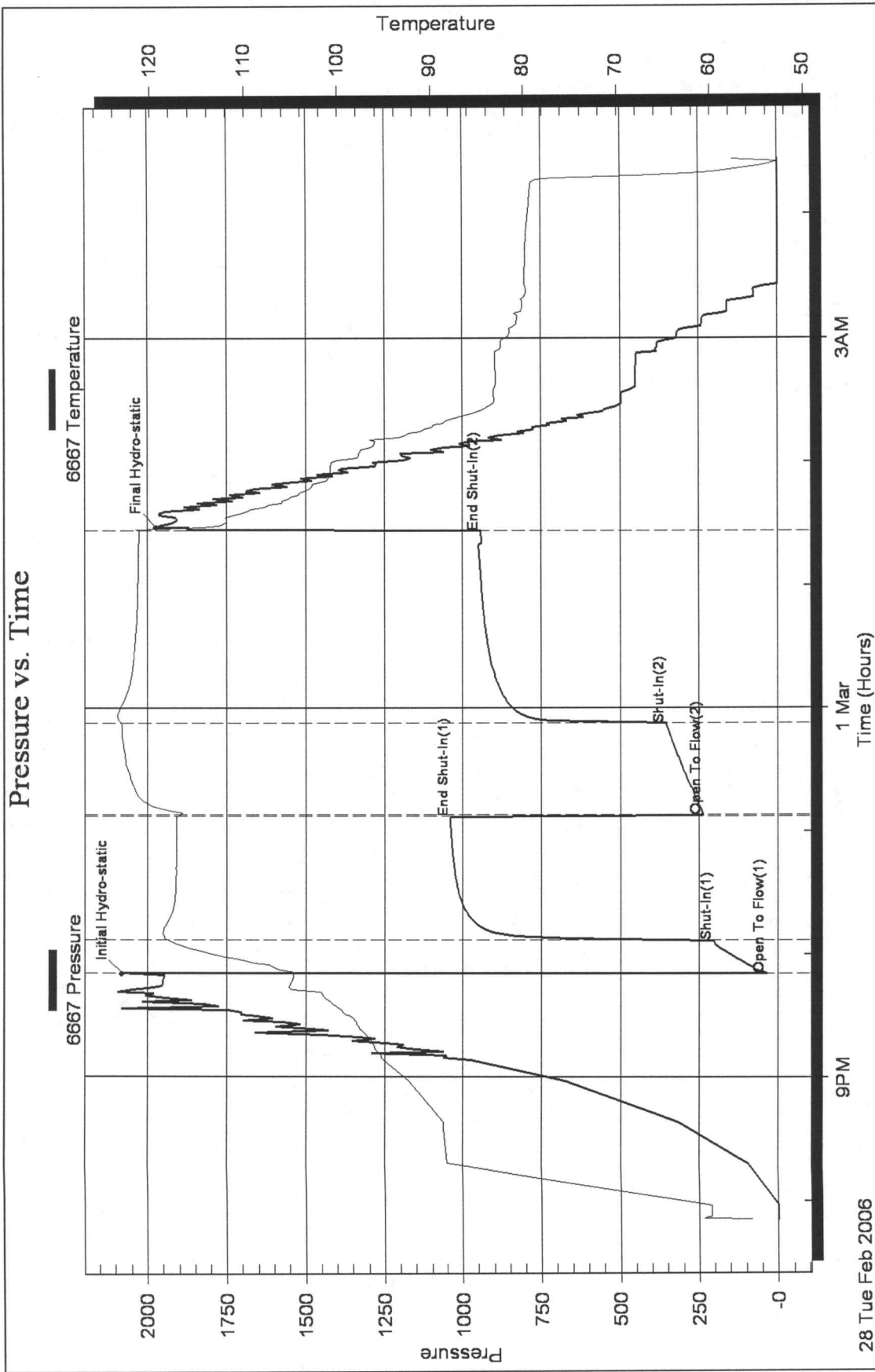
Inside

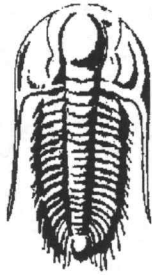
Murfin Drilling Co Inc

23-12-33 Logan, Ks

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

23-12-33 Logan,Ks

Kuhlman 'C' #1-23

Start Date: 2006.03.01 @ 15:45:42

End Date: 2006.03.01 @ 21:45:36

Job Ticket #: 23263 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

23-12-33 Logan,Ks

DST # 3

Lans 'I-J'

2006.03.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kuhlman 'C' #1-23

23-12-33 Logan, Ks

Job Ticket: 23263

DST#: 3

Test Start: 2006.03.01 @ 15:45:42

GENERAL INFORMATION:

Formation: **Lans 'I-J'**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 17:48:07
 Time Test Ended: 21:45:36

Test Type: **Conventional Bottom Hole**
 Tester: **Shane McBride**
 Unit No: **25**

Interval: **4226.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Total Depth: **4280.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3089.00 ft (KB)**
3079.00 ft (CF)
 KB to GR/CF: **10.00 ft**

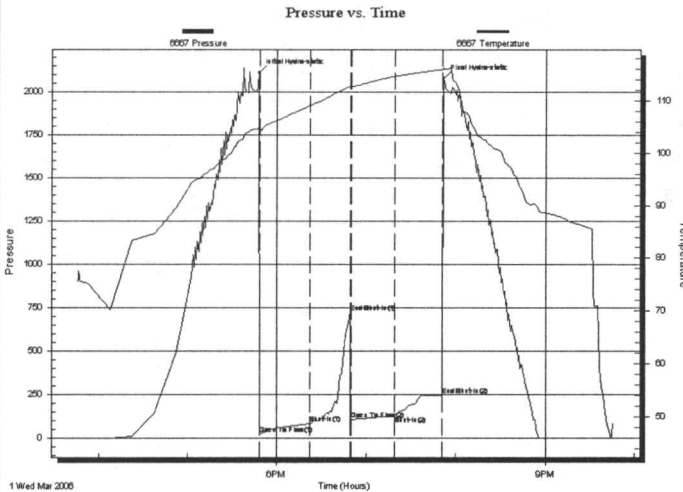
Serial #: 6667

Inside

Press@RunDepth: **130.21 psig @ 4227.00 ft (KB)**
 Start Date: **2006.03.01** End Date: **2006.03.01**
 Start Time: **15:45:42** End Time: **21:45:36**

Capacity: **7000.00 psig**
 Last Calib.: **2006.03.01**
 Time On Btm: **2006.03.01 @ 17:47:52**
 Time Off Btm: **2006.03.01 @ 19:51:52**

TEST COMMENT: **1/4" in. @ open built to 2 3/4" in.**
No return
Surface blow built to 1 1/2" in.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.73	104.69	Initial Hydro-static
1	23.66	104.22	Open To Flow (1)
34	84.49	109.03	Shut-In(1)
62	723.12	112.66	End Shut-In(1)
63	107.58	112.57	Open To Flow (2)
92	130.21	114.59	Shut-In(2)
124	246.26	115.91	End Shut-In(2)
124	2079.19	116.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	free oil 100o	0.01
267.00	o & w c m 12%o 30%w 58%m	1.31

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23263

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2006.03.01 @ 15:45:42

Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4226.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4205.00	
Shut In Tool	5.00			4210.00	
Hydraulic tool	5.00			4215.00	
Safety Joint	2.00			4217.00	
Packer	5.00		Fluid	4222.00	22.00 Bottom Of Top Packer
Packer	4.00			4226.00	
Stubb	1.00			4227.00	
Recorder	0.00	6667	Inside	4227.00	
Perforations	14.00			4241.00	
Change Over Sub	1.00			4242.00	
Drill Pipe	32.00			4274.00	
Change Over Sub	1.00			4275.00	
Recorder	0.00	11058	Inside	4275.00	
Bullnose	5.00			4280.00	54.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23263

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2006.03.01 @ 15:45:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	free oil 100o	0.015
267.00	o & w c m 12%o 30%w 58%m	1.313

Total Length: 270.00 ft

Total Volume: 1.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

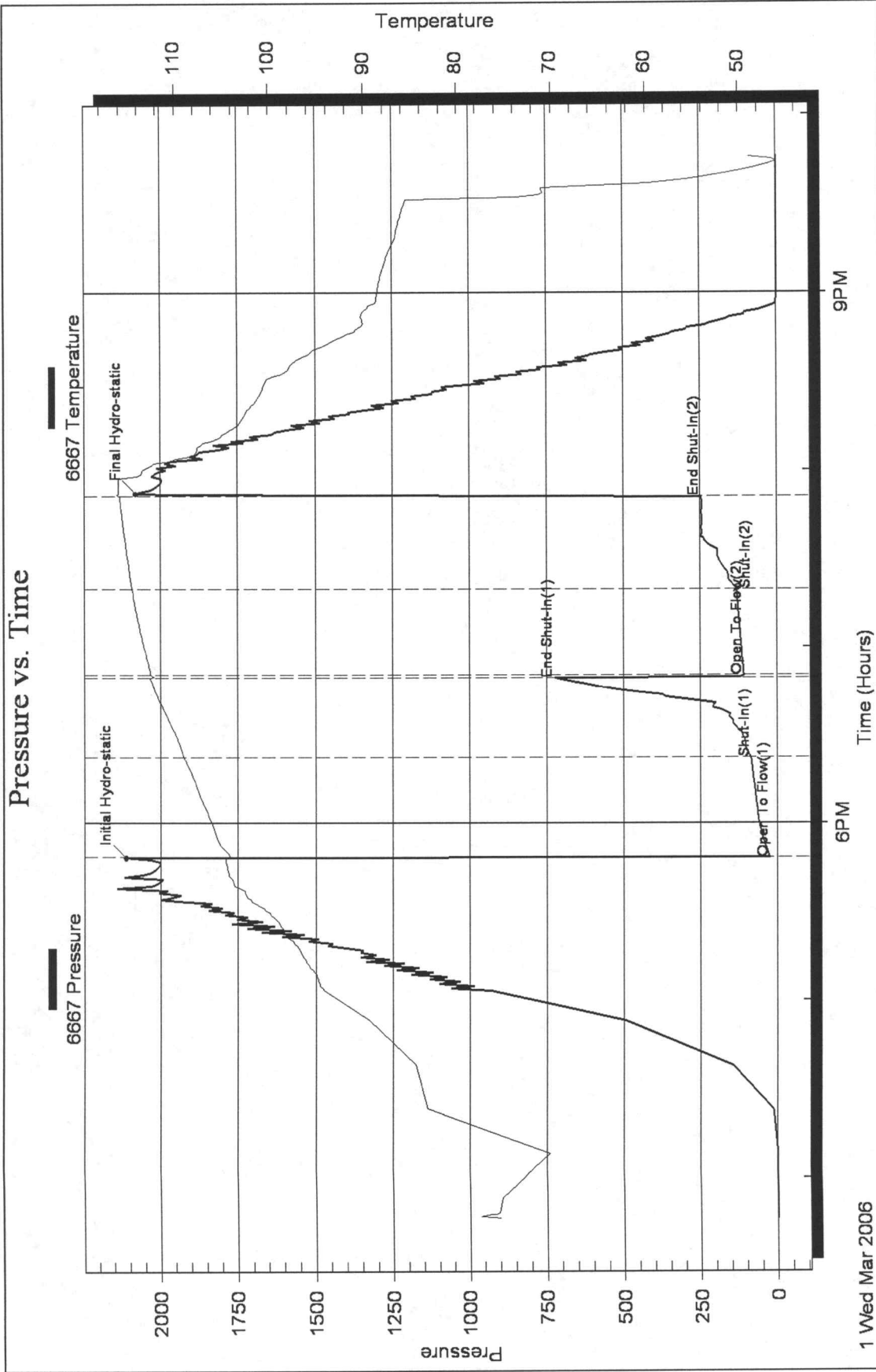
Serial #: 6667

Inside

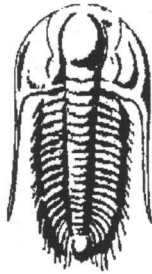
Murfin Drilling Co Inc

23-12-33 Logan,Ks

DST Test Number: 3



1 Wed Mar 2006



**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

23-12-33 Logan,Ks

Kuhlman 'C' #1-23

Start Date: 2006.03.02 @ 06:30:55

End Date: 2006.03.02 @ 12:30:34

Job Ticket #: 23264 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

23-12-33 Logan,Ks

DST # 4

Lans 'J'

2006.03.02



**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202
ATTN: Paul Gunzelman

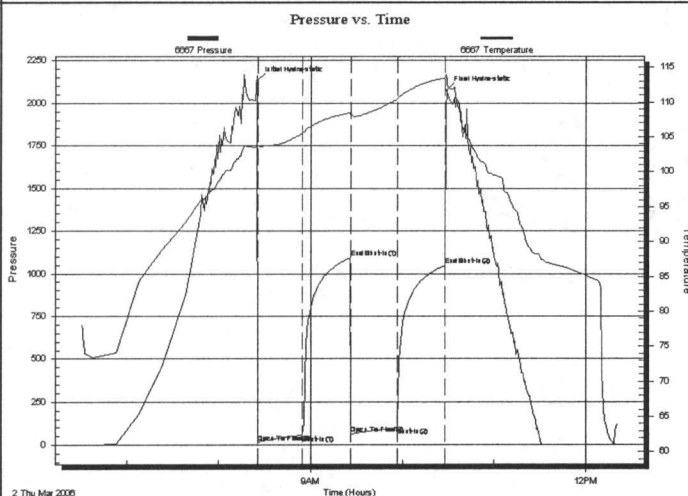
Kuhlman 'C' #1-23
23-12-33 Logan, Ks
Job Ticket: 23264 **DST#: 4**
Test Start: 2006.03.02 @ 06:30:55

GENERAL INFORMATION:

Formation: **Lans 'J'**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 08:25:35
Time Test Ended: 12:30:34
Interval: **4275.00 ft (KB) To 4310.00 ft (KB) (TVD)**
Total Depth: **4310.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **25**
Reference Elevations: **3089.00 ft (KB)**
3079.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 6667 **Inside**
Press@RunDepth: **101.75 psig @ 4276.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2006.03.02** End Date: **2006.03.02** Last Calib.: **2006.03.02**
Start Time: **06:30:55** End Time: **12:20:34** Time On Btm: **2006.03.02 @ 08:25:20**
Time Off Btm: **2006.03.02 @ 10:28:50**

TEST COMMENT: Surface blow built to 1/2" in. +
No return
Surface blow in 2 min. built to 1 3/4" in.
No return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.11	104.08	Initial Hydro-static
1	14.39	103.82	Open To Flow (1)
30	58.91	105.53	Shut-In(1)
61	1090.29	108.45	End Shut-In(1)
61	63.45	108.11	Open To Flow (2)
91	101.75	110.44	Shut-In(2)
123	1045.87	113.46	End Shut-In(2)
124	2074.85	113.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	m c w 40m 60w	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23264

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2006.03.02 @ 06:30:55

Tool Information

Drill Pipe:	Length: 3711.00 ft	Diameter: 3.80 inches	Volume: 52.06 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 54.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4275.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4254.00	
Shut In Tool	5.00			4259.00	
Hydraulic tool	5.00			4264.00	
Safety Joint	2.00			4266.00	
Packer	5.00		Fluid	4271.00	22.00 Bottom Of Top Packer
Packer	4.00			4275.00	
Stubb	1.00			4276.00	
Recorder	0.00	6667	Inside	4276.00	
Perforations	29.00			4305.00	
Recorder	0.00	11058	Inside	4305.00	
Bullnose	5.00			4310.00	35.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23264

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2006.03.02 @ 06:30:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	m c w 40m60w	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .161 @63*f = 50,000

Serial #: 6667

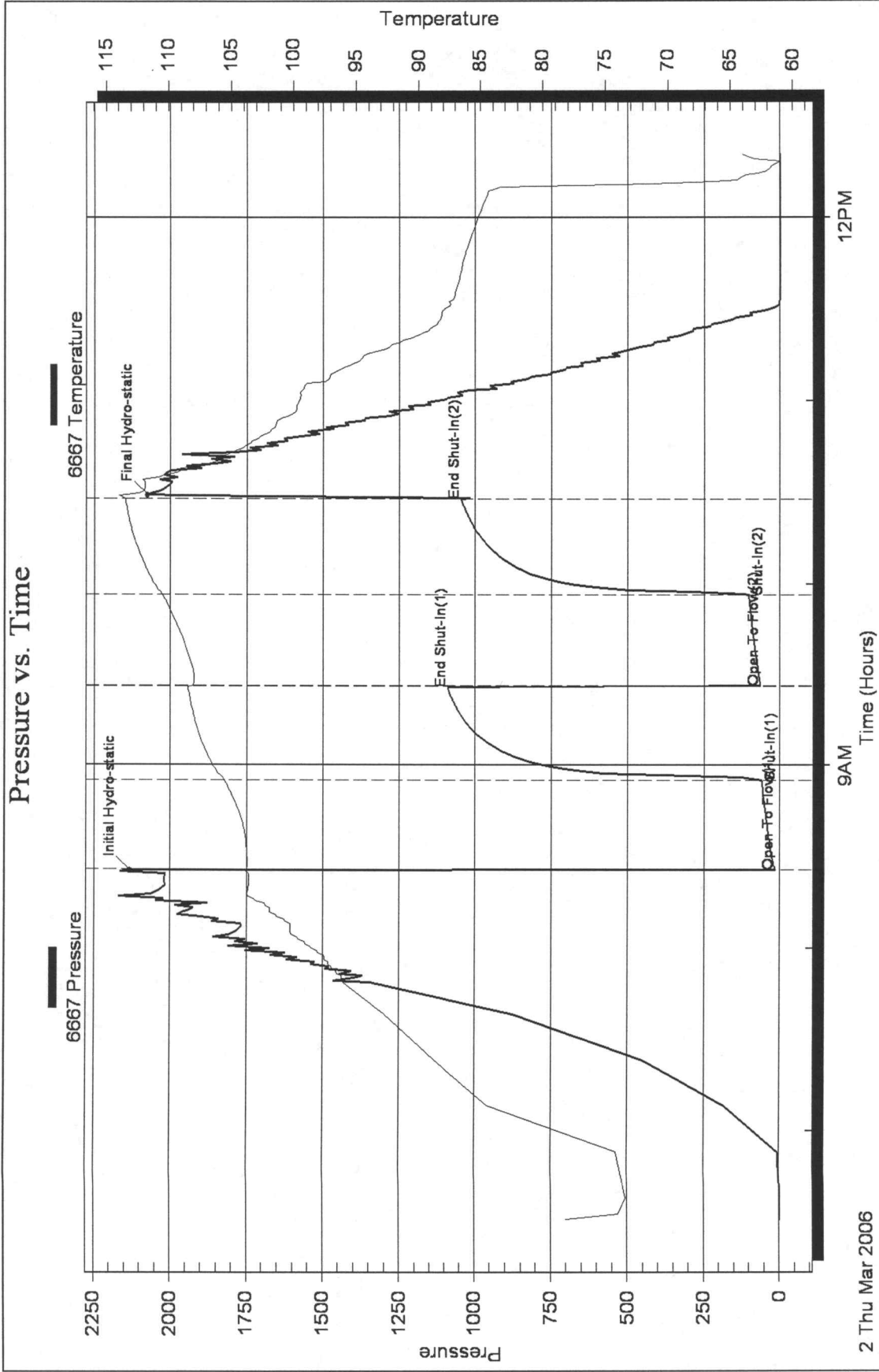
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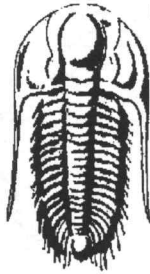
Murfin Drilling Co Inc

23-12-33 Logan, Ks

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

23-12-33 Logan,Ks

Kuhlman 'C' #1-23

Start Date: 2006.03.03 @ 17:05:41

End Date: 2006.03.04 @ 02:15:36

Job Ticket #: 23265 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kuhlman 'C' #1-23

23-12-33 Logan, Ks

Job Ticket: 23265

DST#: 5

Test Start: 2006.03.03 @ 17:05:41

GENERAL INFORMATION:

Formation: **Cher - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:31:21

Time Test Ended: 02:15:36

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4555.00 ft (KB) To 4630.00 ft (KB) (TVD)**

Reference Elevations: 3089.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

3079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6667 Inside

Press@RunDepth: 243.01 psig @ 4556.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.03.03

End Date:

2006.03.04

Last Calib.: 2006.03.04

Start Time: 17:05:41

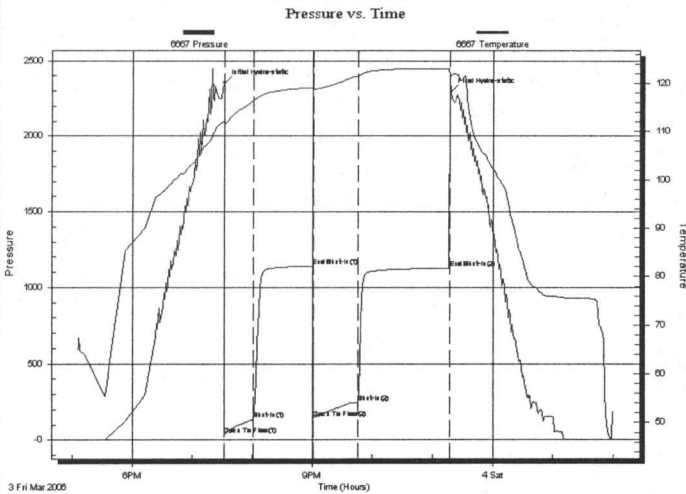
End Time:

01:59:36

Time On Btmr 2006.03.03 @ 19:31:06

Time Off Btmr 2006.03.03 @ 23:17:51

TEST COMMENT: 1" in. @ open , B.O.B. in 18 min.
1/4" in. return blow
1/4" in. @ open , B.O.B. in 15 min.
Surface return in 5 min. died in 25 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2353.41	112.01	Initial Hydro-static
1	34.55	111.48	Open To Flow (1)
30	135.92	116.40	Shut-In(1)
89	1140.67	119.10	End Shut-In(1)
90	144.49	118.84	Open To Flow (2)
135	243.01	121.57	Shut-In(2)
226	1127.69	123.02	End Shut-In(2)
227	2296.70	121.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s g o c m 5g 40o 55m	0.30
470.00	g m c o 20g 30m 50o	2.31

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kuhlman 'C' #1-23

23-12-33 Logan, Ks

Job Ticket: 23265

DST#: 5

Test Start: 2006.03.03 @ 17:05:41

Tool Information

Drill Pipe:	Length: 3995.00 ft	Diameter: 3.80 inches	Volume: 56.04 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 58.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4555.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4534.00	
Shut In Tool	5.00			4539.00	
Hydraulic tool	5.00			4544.00	
Safety Joint	2.00			4546.00	
Packer	5.00		Fluid	4551.00	22.00 Bottom Of Top Packer
Packer	4.00			4555.00	
Stubb	1.00			4556.00	
Recorder	0.00	6667	Inside	4556.00	
Perforations	35.00			4591.00	
Change Over Sub	1.00			4592.00	
Drill Pipe	32.00			4624.00	
Change Over Sub	1.00			4625.00	
Recorder	0.00	11058	Inside	4625.00	
Bullnose	5.00			4630.00	75.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman 'C' #1-23

250 N Water Ste 300
Wichita KS 67202

23-12-33 Logan, Ks

Job Ticket: 23265

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2006.03.03 @ 17:05:41

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	s g o c m 5g 40o 55m	0.295
470.00	g m c o 20g 30m 50o	2.311

Total Length: 530.00 ft

Total Volume: 2.606 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

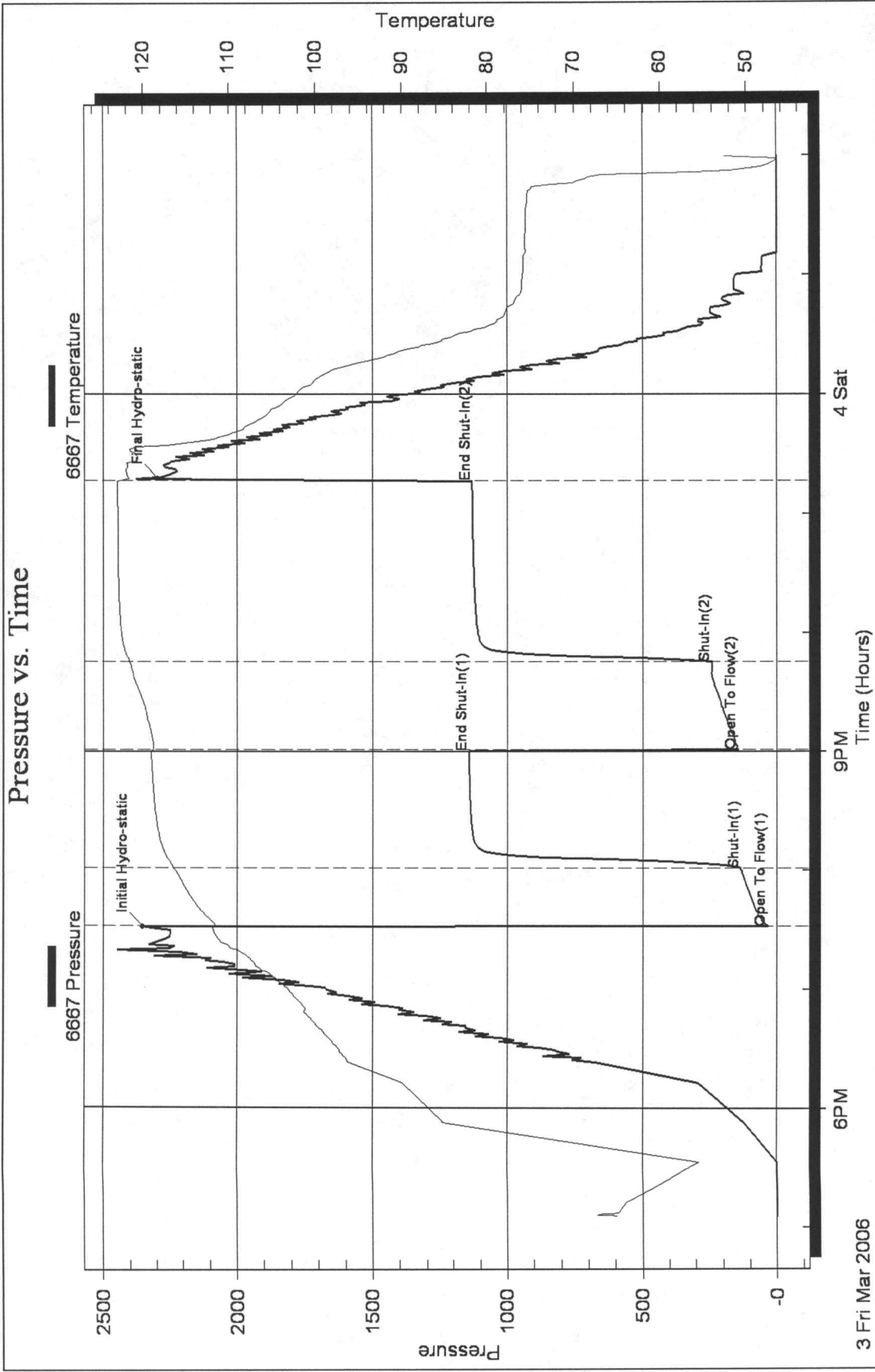
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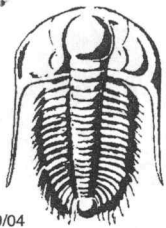
Murfin Drilling Co Inc

23-12-33 Logan, Ks

DST Test Number: 5

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8484

No 23261

9/04

Test Ticket

Well Name & No. Kuhlman 'C' # 1-23 Test No. #1 Date 2/28/06
 Company Muckin Drilling Co Inc. Zone Tested lane E
 Address 250 N. Water Suite 300 Wichita, KS Elevation 3089 KB 3079 GL
 Co. Rep / Geo. Paul Guazzelma Cont. Muckin #14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 23 Twp. 12s Rge. 33w Co. logan State KS
 No. of Copies Mem. Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4120 4140 Initial Str Wt./Lbs. 80,000 Unseated Str Wt./Lbs. 81,000
 Anchor Length _____ 20 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 100,000
 Top Packer Depth _____ 4115 Tool Weight 1500
 Bottom Packer Depth _____ 4120 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4140 Wt. Pipe Run _____ Drill Collar Run 558'
 Mud Wt. 9.0 LCM Tr Vis. 58 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3552'
 Blow Description 1/4" @ open built to 2 1/4" in.
No return
Surface blows in 3min built to 1 1/4" in.
No return

Recovery - Total Feet 180' GIP _____ Ft. in DC 180' Ft. in DP _____
 Rec. 180' Feet of mcw %gas _____ %oil _____ %water 80 %mud 20
 Rec. _____ Feet of (o.i spots in Tool) %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 113° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .261 @ 50° °F Chlorides 38,500 ppm Recovery 38,500 Chlorides 3300 ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2058</u>	PSI	<u>6667</u>	<u>1100.00</u>
(B) First Initial Flow Pressure	<u>16</u>	PSI	(depth) <u>4121</u>	Jars _____
(C) First Final Flow Pressure	<u>35</u>	PSI	Recorder No. <u>11058</u>	Safety Jt. x <u>75.00</u>
(D) Initial Shut-In Pressure	<u>1176</u>	PSI	(depth) <u>4135</u>	Circ Sub x <u>N/C</u>
(E) Second Initial Flow Pressure	<u>47</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>113</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1152</u>	PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1992</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer _____

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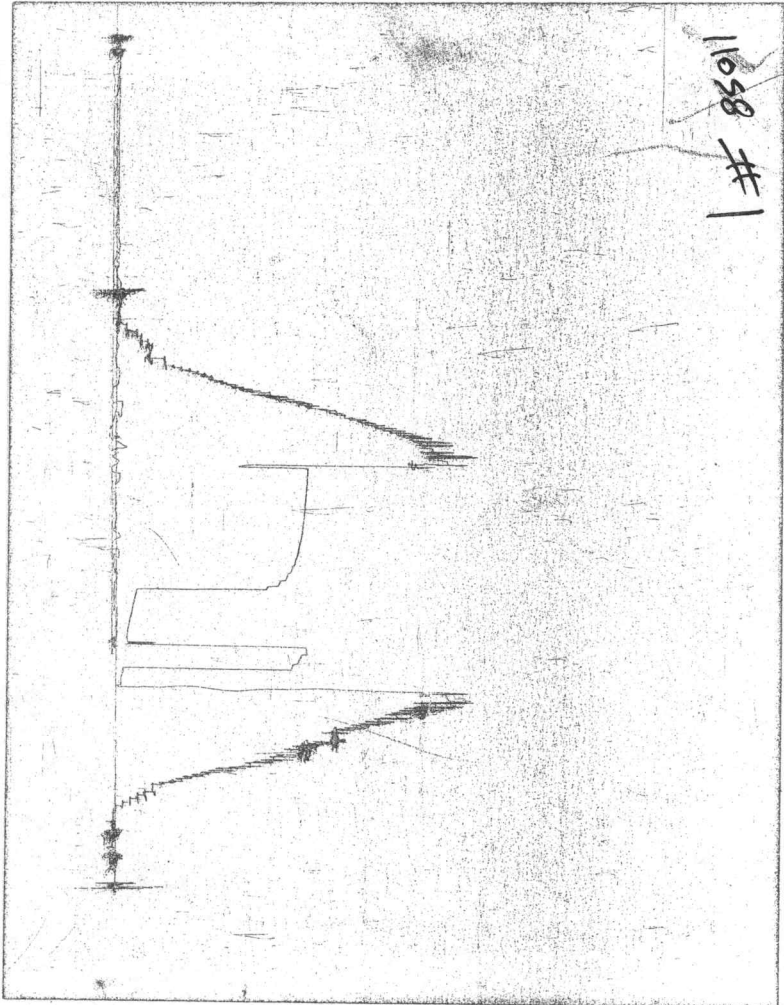
Approved By Paul Guazzelma T-Started 01:00 4.m. T-Open 03:05 4.m. T-Pulled 06:35 4.m. T-Out 09:05 4.m.

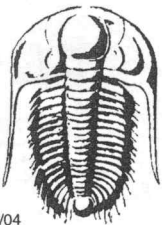
Our Representative [Signature] Final Flow 45 Final Shut-In 90 T-On Location 23:45 2.m. T-Started 01:00 4.m. T-Open 03:05 4.m. T-Pulled 06:35 4.m. T-Out 09:05 4.m.

Mileage 90.1 112.50 Sub Total: 1287.50 Std. By 1/2 hr 25.00 Other _____ Total: \$1,312.50

CHART PAGE

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





TRILOBITE TESTING INC.

No 23262

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Kuhlman 'C' #123 Test No. #2 Date 3-1-06
 Company Mustin Drilling Co Inc. Zone Tested Leas 'H'
 Address 250 N. Water Suite 300 Wichita, Ks Elevation 3089' KB 3079' GL
 Co. Rep / Geo. Paul Gunzelman Cont. Mustin #14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 23 Twp. 12 Rge. 33 Co. Logan State Ks
 No. of Copies None Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4194 4227 Initial Str Wt./Lbs. 83000 Unseated Str Wt./Lbs. 84000
 Anchor Length _____ 33 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 100,000
 Top Packer Depth _____ 4189 Tool Weight 1500
 Bottom Packer Depth _____ 4194 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4227 Wt. Pipe Run _____ Drill Collar Run 558'
 Mud Wt. 9.0 LCM Tr Vis. 58 WL 7.0 Drill Pipe Size 4 1/2 XH Ft. Run 3645'

Blow Description B.O.B. in 6 1/2 min.
Bled off for 2 min Return in 2 min built to 4" in.
4" in @ open B.O.B. in 6 min
Bled off for 2 min Return in 3 min built to 2 1/2" in

Recovery - Total Feet 1035' GIP 855' Ft. in DC 558 Ft. in DP 477
 Rec. 1005 Feet of Cgo 20 %gas 80 %oil _____ %water _____ %mud
 Rec. 30 Feet of mcgo 20 %gas 50 %oil _____ %water 30 %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 34 °API D @ 40° °F Corrected Gravity 35 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 6400 ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2080</u> PSI	<u>2080</u> PSI	<u>6667</u>	<u>\$1100.00</u>
(B) First Initial Flow Pressure	<u>35</u> PSI	<u>35</u> PSI	<u>4195'</u>	Jars _____
(C) First Final Flow Pressure	<u>204</u> PSI	<u>204</u> PSI	<u>11058</u>	Safety Jt x <u>75.00</u>
(D) Initial Shut-In Pressure	<u>1038</u> PSI	<u>1038</u> PSI	<u>4222'</u>	Circ Sub x <u>n/p</u>
(E) Second Initial Flow Pressure	<u>236</u> PSI	<u>236</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>355</u> PSI	<u>355</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>941</u> PSI	<u>941</u> PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1971</u> PSI	<u>1971</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

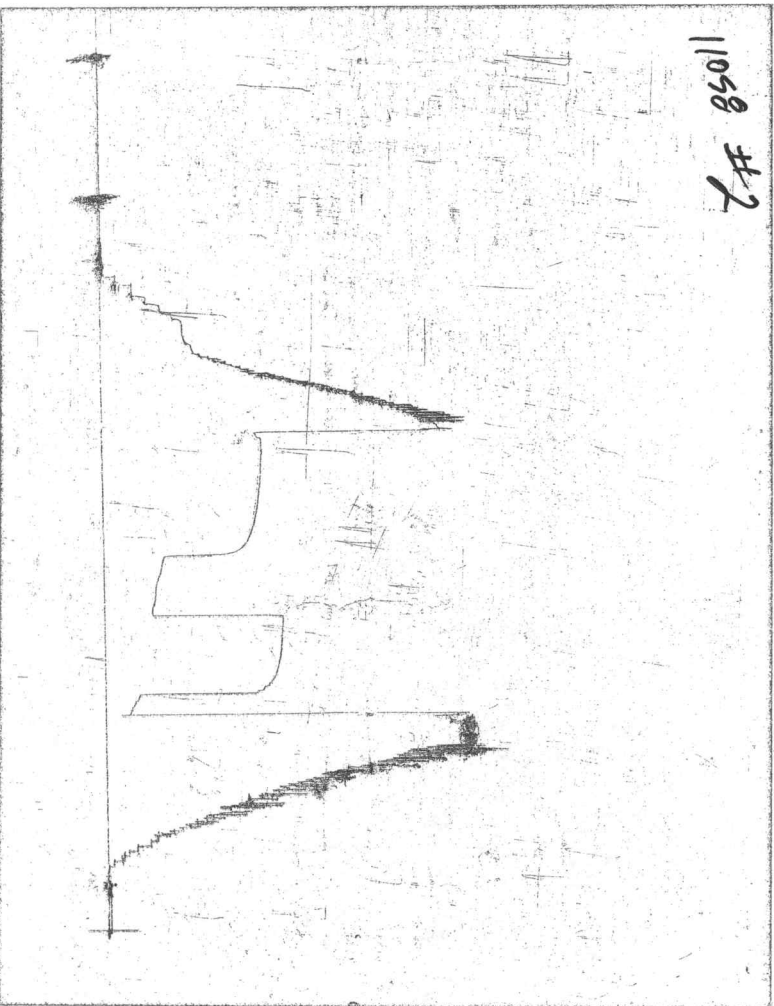
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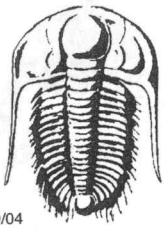
Approved By Paul Gunzelman
 Our Representative Paul Gunzelman

T-Started 19:00 p.m.
 T-Open 19:50 p.m.
 T-Pulled 01:20 a.m.
 T-Out 04:40 a.m.

Final Flow 45
 Final Shut-In 90
 Mileage xp m \$112.50
 Sub Total: \$1287.50
 Std. By 3461 \$37.50
 Other 1
 Total: \$1325.00

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





TRILOBITE TESTING INC.

No. 23263

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Kuhlman 'C' #1-23 Test No. #3 Date 3-1-06
 Company Muslin Drilling Co Inc. Zone Tested Lans 'I-5'
 Address 250 N. Water Suite 300 Wichita, Ks Elevation 3089 KB 3079 GL
 Co. Rep / Geo. Paul Guanzelman Cont. Muslin #14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 23 Twp. 12 Rge. 33 Co. Logan State Ks
 No. of Copies 1 Norm Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4226 4280 Initial Str Wt./Lbs. 84,000 Unseated Str Wt/Lbs. 85,000
 Anchor Length _____ 54 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 100,000
 Top Packer Depth _____ 4221 Tool Weight 1500
 Bottom Packer Depth _____ 4226 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4280 Wt. Pipe Run _____ Drill Collar Run 558'
 Mud Wt. 8.9 LCM Tr Vis. 65 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 3678'
 Blow Description 1/4" in @ open built to 2 3/4" n.

No return
Surface blow built to 1 1/2" n.
No return

Recovery - Total Feet 270' GIP _____ Ft. in DC 270' Ft. in DP _____
 Rec. 3' Feet of Free Oil %gas 100 %oil _____ %water _____ %mud _____
 Rec. 267' Feet of _____ %gas 12 %oil 30 %water 58 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 116' °F Gravity 33 °API D @ 60° °F Corrected Gravity 33 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 7400 ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2111</u> PSI		<u>6667</u>	<u>\$1100.00</u>
(B) First Initial Flow Pressure	<u>23</u> PSI		(depth) <u>4227'</u>	Jars _____
(C) First Final Flow Pressure	<u>84</u> PSI		Recorder No. <u>11058</u>	Safety Jt. x <u>75.00</u>
(D) Initial Shut-In Pressure	<u>723</u> PSI		(depth) <u>4275'</u>	Circ Sub x <u>N/C</u>
(E) Second Initial Flow Pressure	<u>107</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>130</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>246</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2079</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____

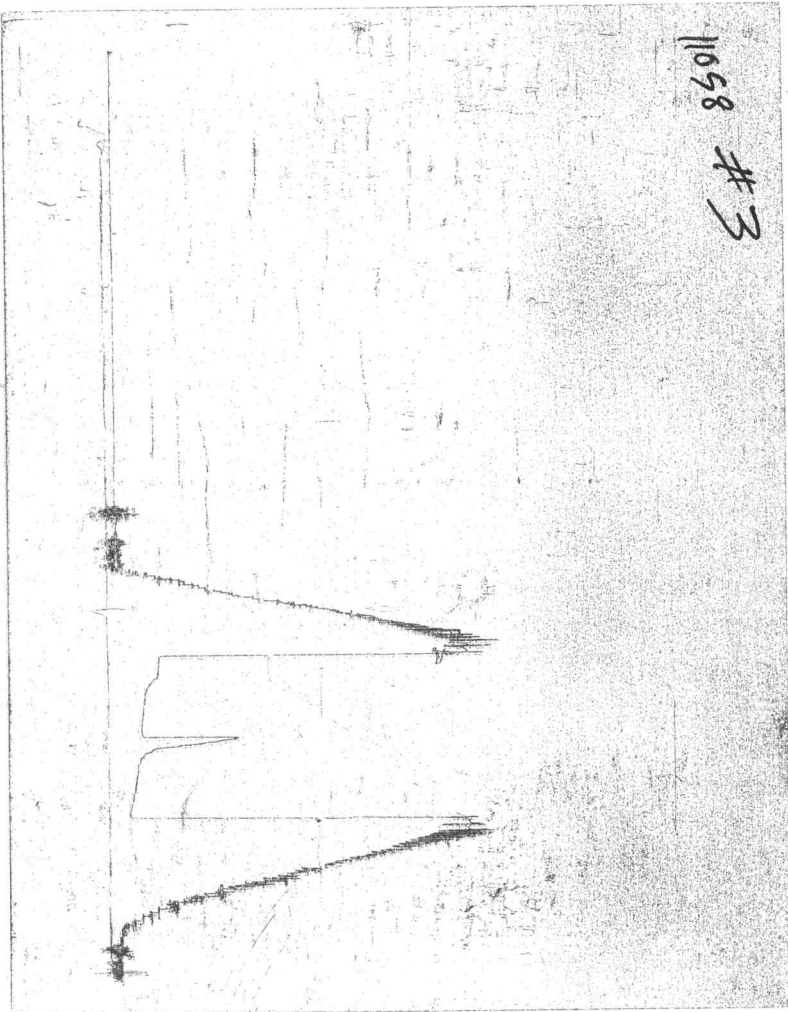
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Approved By Paul Guanzelman
 Our Representative [Signature]

Final Flow 30 Ruined Packer _____
 Final Shut-In 30 Mileage x 90RT \$112.50
 T-On Location 15:05 p.m. Sub Total: \$1,287.50
 T-Started 15:45 p.m. Std. By _____
 T-Open 17:45 p.m. Other _____
 T-Pulled 19:45 p.m. Total: \$1,287.50
 T-Out 22:00 p.m.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23264

9/04

Test Ticket

Well Name & No. Kuhlman 'C' #1-23 Test No. #4 Date 3-2-06
 Company Martin Drilling Co Inc. Zone Tested Lans 'J'
 Address 250 N. Water Suite 300 Wichita, Ks Elevation 3089 KB 3079 GL
 Co. Rep / Geo. Paul Gunzelman Cont. Martin #14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 23 Twp. 12 Rge. 33 Co. Logan State Ks
 No. of Copies Norm. Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4275 4310 Initial Str Wt./Lbs. 84,000 Unseated Str Wt/Lbs. 84,000
 Anchor Length _____ 35 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 100,000
 Top Packer Depth _____ 4270 Tool Weight 1500
 Bottom Packer Depth _____ 4275 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4310 Wt. Pipe Run _____ Drill Collar Run 558'
 Mud Wt. 8.9 LCM TI Vis. 65 WL 6.4 Drill Pipe Size 4 1/2 X H Ft. Run 3711'
 Blow Description Surface blow built to 1/2"

No return
Surface blow in 2 min built to 1 3/4"
No return

Recovery - Total Feet 100' GIP _____ Ft. in DC 100' Ft. in DP _____
 Rec. 100' Feet of mcw %gas _____ %oil 60 %water 40 %mud _____
 Rec. _____ Feet of (oil spots in Tool) %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 113° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .161 @ 63 °F Chlorides 50,000 ppm Recovery 50,000 Chlorides 7,400 ppm System

	AK-1	Alpine	Recorder No.	Test #
(A) Initial Hydrostatic Mud		<u>2132</u> PSI	<u>6667</u>	<u>\$1100.00</u>
(B) First Initial Flow Pressure		<u>14</u> PSI	(depth) <u>4276</u>	Jars _____
(C) First Final Flow Pressure		<u>58</u> PSI	Recorder No. <u>11058</u>	Safety Jt. <u>75°</u>
(D) Initial Shut-In Pressure		<u>1090</u> PSI	(depth) <u>4305</u>	Circ Sub <u>x w/l</u>
(E) Second Initial Flow Pressure		<u>63</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>101</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1045</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2074</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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

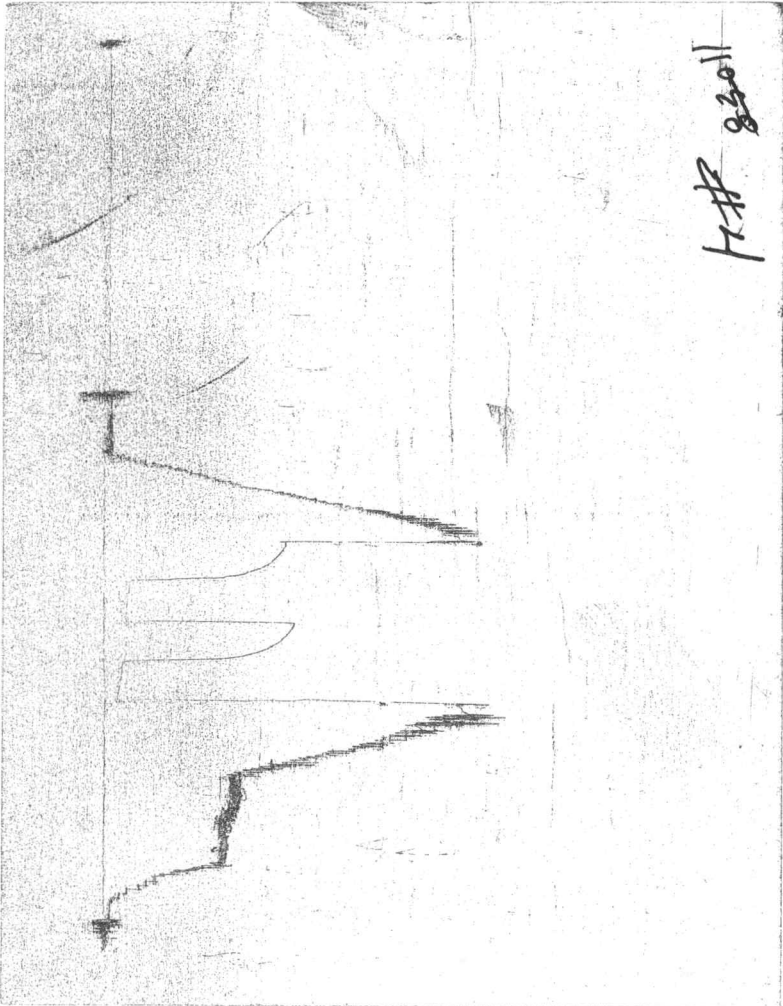
Approved By Paul Gunzelman

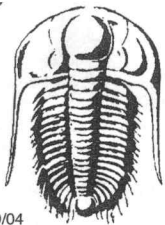
Our Representative Shelton

Final Flow 30 Ruined Packer _____
 Final Shut-In 30 Mileage 90 RT 112 S
 T-On Location 06:00 A.M. Sub Total: \$1287.50
 T-Started 06:30 A.M. Std. By _____
 T-Open 08:25 A.M. Other _____
 T-Pulled 10:25 A.M. Total: _____
 T-Out 12:30 p.m.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23265

Test Ticket

Well Name & No. Kuhlman 'C' #1-23 Test No. #5 Date 3-3-06
 Company Martin Drilling Co Inc. Zone Tested Cher - Johnson
 Address 250 N. Water Suite 300 Wichita Ks Elevation 3089 KB 3079 GL
 Co. Rep / Geo. Paul Gurezman Cont. Martin #14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 23 Twp. 12 Rge. 33 Co. Logan State Ks
 No. of Copies Alarm Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4555 4630 Initial Str Wt./Lbs. 88,000 Unseated Str Wt/Lbs. 89,000
 Anchor Length _____ 75 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 105,000
 Top Packer Depth _____ 4550 Tool Weight 1500
 Bottom Packer Depth _____ 4555 Hole Size 7 7/8" V Rubber Size 6 3/4" V
 Total Depth _____ 4630 Wt. Pipe Run _____ Drill Collar Run 558'
 Mud Wt. 9.1 LCM #2 Vis. 56 WL 6.8 Drill Pipe Size 4 1/2 X H Ft. Run 3995'
 Blow Description 1" @ open, B.O.B. in 18 min
1/4" return blow
1/4" @ open, B.O.B. in 15 min
Surface return, died in 25 min.

Recovery - Total Feet 530 GIP 30' weak Ft. in DC 530 Ft. in DP _____
 Rec. 60 Feet of sgocm 5 %gas 40 %oil %water 55 %mud
 Rec. 470 Feet of gmco 20 %gas 50 %oil %water 30 %mud
 Rec. _____ Feet of _____ %gas _____ %oil %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil %water _____ %mud
 BHT 123° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 8300 ppm System

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud		<u>2353</u> PSI	<u>6667</u>	<u>\$1100.00</u>
(B) First Initial Flow Pressure		<u>34</u> PSI	(depth) <u>4556</u>	Jars _____
(C) First Final Flow Pressure		<u>135</u> PSI	Recorder No. <u>11058</u>	Safety Jt. X <u>75.00</u>
(D) Initial Shut-In Pressure		<u>1140</u> PSI	(depth) <u>4625</u>	Circ Sub X <u>N/C</u>
(E) Second Initial Flow Pressure		<u>144</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>243</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1127</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2296</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>X 900</u> <u>\$112.50</u>
			T-On Location <u>16:10 p.m.</u>	Sub Total: <u>\$1287.50</u>
			T-Started <u>17:05 p.m.</u>	Std. By <u>1hr</u> <u>50.00</u>
			T-Open <u>19:30 p.m.</u>	Other _____
			T-Pulled <u>23:15 p.m.</u>	Total: <u>\$1337.50</u>
			T-Out <u>02:15 A.M.</u>	

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Approved By Paul Gurezman
 Our Representative Cherry M. D.

CHART PAGE

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

