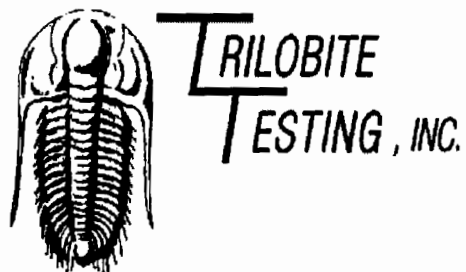


15-095-21865

30-27s-7w



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.15 @ 18:47:31

End Date: 2004.01.15 @ 23:47:31

Job Ticket #: 18702 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 Drlg.Co.Inc.

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

Cox #1-30

30-27s-7w Kingman Ks

Job Ticket: 18702

DST#: 1

Test Start: 2004.01.15 @ 18:47:31

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:01

Time Test Ended: 23:47:31

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **2090.00 ft (KB) To 2120.00 ft (KB) (TVD)**

Reference Elevations: 1603.00 ft (KB)

Total Depth: 2120.00 ft (KB) (TVD)

1598.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 66.65 psig @ 2091.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.01.15

End Date:

2004.01.15

Last Calib.: 2004.01.15

Start Time: 18:47:41

End Time:

23:47:31

Time On Btm: 2004.01.15 @ 20:04:01

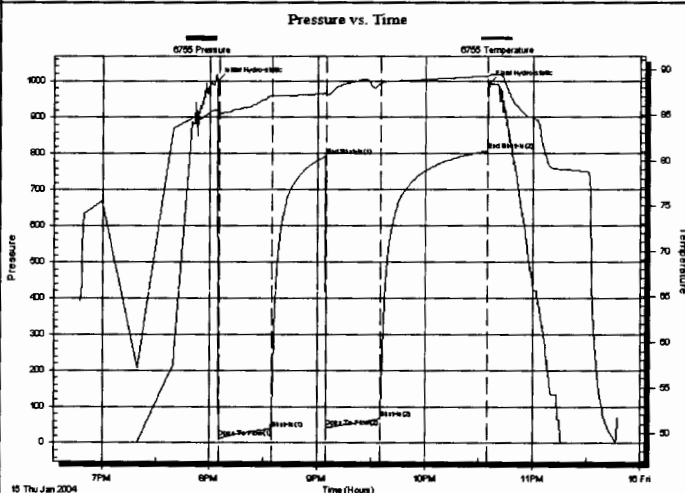
Time Off Btm: 2004.01.15 @ 22:35:31

TEST COMMENT: IF:Weak blow . 1/2 - 1 1/4".

IS:No blow .

FF:Weak blow . 1/4".

FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	999.93	85.51	Initial Hydro-static
1	13.14	85.24	Open To Flow (1)
31	39.37	87.05	Shut-in(1)
61	793.68	87.41	End Shut-in(1)
61	42.37	87.14	Open To Flow (2)
91	66.65	88.43	Shut-in(2)
151	807.96	89.28	End Shut-in(2)
152	990.19	89.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Drlg.mud	0.47

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18702

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2004.01.15 @ 18:47:31

Tool Information

Drill Pipe:	Length: 1837.00 ft	Diameter: 3.80 inches	Volume: 25.77 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	26.99 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	2090.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	52.00 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			2069.00	
Shut In Tool	5.00			2074.00	
Hydraulic tool	5.00			2079.00	
Safety Joint	2.00			2081.00	
Packer	4.00			2085.00	22.00 Bottom Of Top Packer
Packer	5.00			2090.00	
Stubb	1.00			2091.00	
Recorder	0.00	6755	Inside	2091.00	
Perforations	24.00			2115.00	
Recorder	0.00	13222	Outside	2115.00	
Bullnose	5.00			2120.00	30.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18702

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2004.01.15 @ 18:47:31

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:

16000 ppm

Viscosity: 34.00 sec/qt

Cushion Volume:

bbl

Water Loss: 29.86 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 16000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	Drig.mud	0.467

Total Length: 95.00 ft

Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

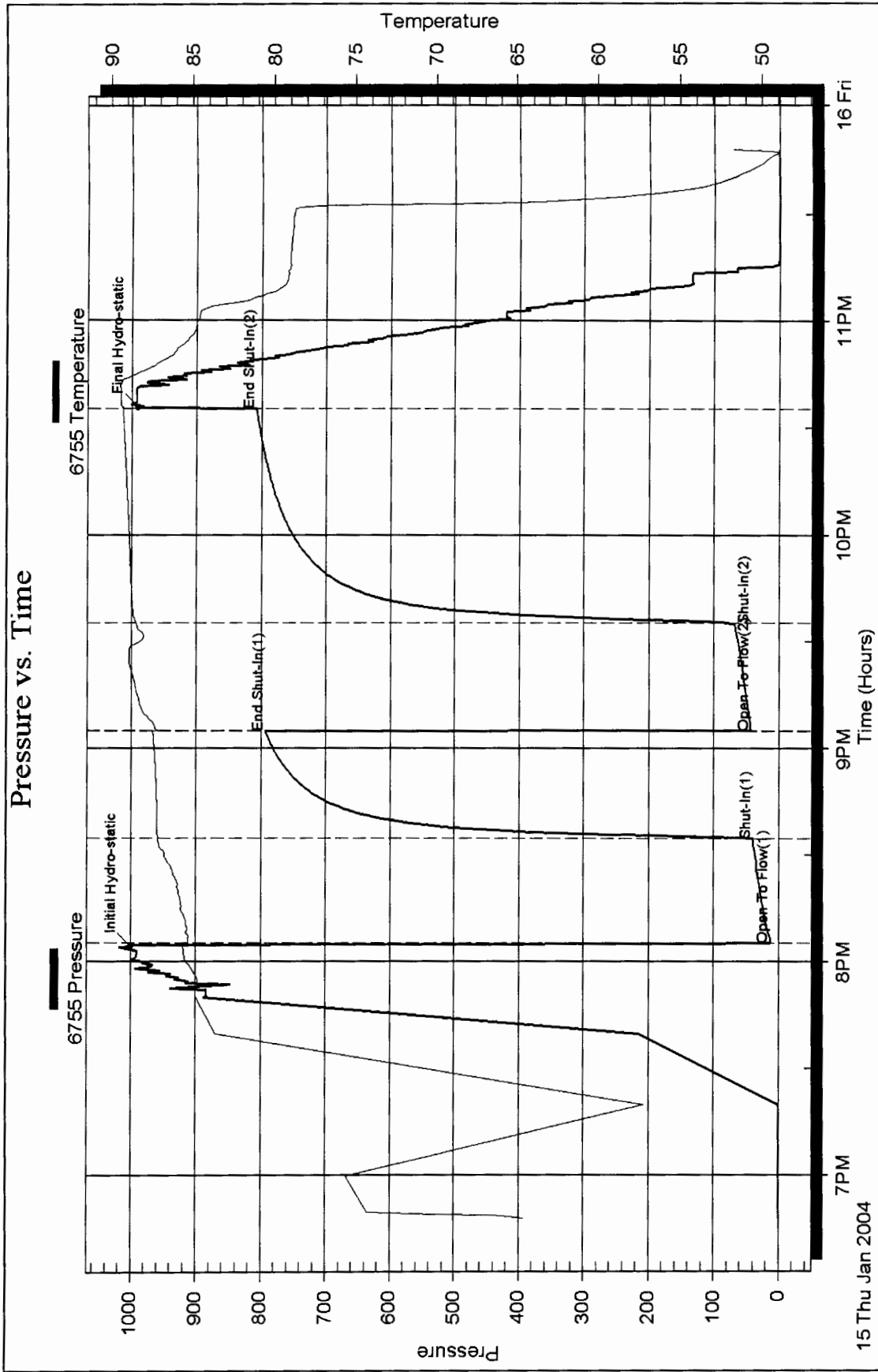
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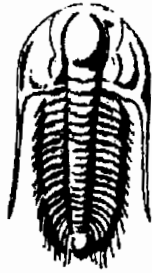
Inside

Murfin Drig.Co.Inc.

30-27s-7w Kingman Ks

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.16 @ 09:04:02

End Date: 2004.01.16 @ 15:45:02

Job Ticket #: 18703 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg.Co.Inc.

Cox #1-30

30-27s-7w Kingman Ks

DST # 2

Stotler

2004.01.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drig.Co.Inc.

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

Cox #1-30

30-27s-7w Kingman Ks

Job Ticket: 18703

DST#: 2

Test Start: 2004.01.16 @ 09:04:02

GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:30:47

Time Test Ended: 15:45:02

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **2282.00 ft (KB) To 2317.00 ft (KB) (TVD)**

Total Depth: 2317.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1603.00 ft (KB)

1598.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 65.46 psig @ 2283.00 ft (KB)

Start Date: 2004.01.16

End Date: 2004.01.16

Start Time: 09:04:12

End Time: 15:45:02

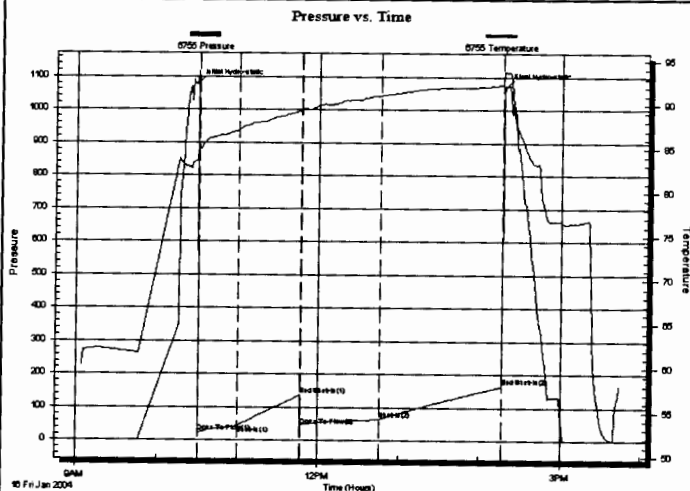
Capacity: 7000.00 psig

Last Calib.: 2004.01.16

Time On Btm: 2004.01.16 @ 10:29:17

Time Off Btm: 2004.01.16 @ 14:18:47

TEST COMMENT: F:Weak to fair blow .Slow increase to 9".
IS:No blow .
FF:Strong blow . B.O.B. in 10 secs. Opened choke and lost
blow in 20 secs. increased slowly back to 8".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1077.66	83.63	Initial Hydro-static
2	23.41	85.05	Open To Flow (1)
31	44.47	87.08	Shut-In(1)
78	137.01	89.31	End Shut-In(1)
78	44.38	89.40	Open To Flow (2)
137	65.46	91.06	Shut-In(2)
228	165.07	92.32	End Shut-In(2)
230	1069.52	93.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GCWM with oil specs 27%g 18%w 55%r	0.30
63.00	GCM with oil scum 8%g 4%w 88%m	0.31
0.00	250 ft. of gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg.Co.Inc.
250 N.Water Ste. 300
Wichita Ks. 67202

Cox #1-30
30-27s-7w Kingman Ks
Job Ticket: 18703 **DST#: 2**
Test Start: 2004.01.16 @ 09:04:02

ATTN: Paul Gunzelman

Tool Information

Drill Pipe:	Length: 2028.00 ft	Diameter: 3.80 inches	Volume: 28.45 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume:	29.67 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	2282.00 ft			Final 40000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2261.00	
Shut In Tool	5.00			2266.00	
Hydraulic tool	5.00			2271.00	
Safety Joint	2.00			2273.00	
Packer	4.00			2277.00	22.00 Bottom Of Top Packer
Packer	5.00			2282.00	
Stubb	1.00			2283.00	
Recorder	0.00	6755	Inside	2283.00	
Perforations	29.00			2312.00	
Recorder	0.00	13222	Outside	2312.00	
Bullnose	5.00			2317.00	35.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18703

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2004.01.16 @ 09:04:02

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:

36000 ppm

Viscosity: 39.00 sec/qt

Cushion Volume:

bbf

Water Loss: 27.89 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 36000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	GCWM w ith oil specs 27%g 18%w 55%m	0.305
63.00	GCM w ith oil scum 8%g 4%w 88%m	0.310
0.00	250 ft. of gas in pipe	0.000

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

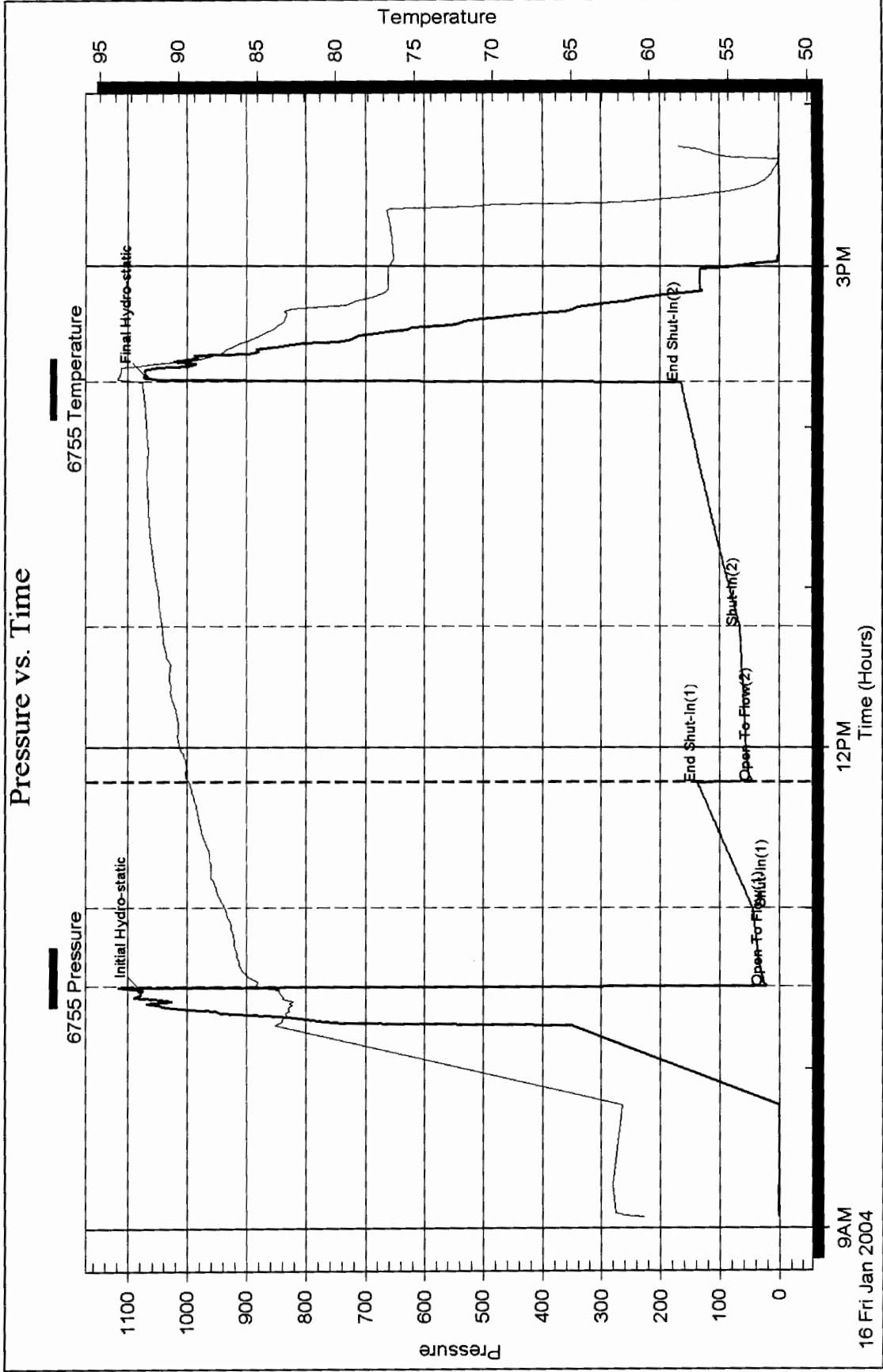
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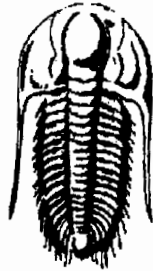
Murfin Drig.Co.Inc.

30-27s-7w Kingman Ks

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.18 @ 11:56:31

End Date: 2004.01.18 @ 20:09:16

Job Ticket #: 18704 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg.Co.Inc.

Cox #1-30

30-27s-7w Kingman Ks

DST # 3

Upper Lans.

2004.01.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drig.Co.Inc.
250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

Cox #1-30

30-27s-7w Kingman Ks

Job Ticket: 18704

DST#: 3

Test Start: 2004.01.18 @ 11:56:31

GENERAL INFORMATION:

Formation: **Upper Lans.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:21:16

Time Test Ended: 20:09:16

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **3510.00 ft (KB) To 3534.00 ft (KB) (TVD)**

Reference Elevations: 1603.00 ft (KB)

Total Depth: 3534.00 ft (KB) (TVD)

1598.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 202.09 psig @ 3511.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.01.18

End Date:

2004.01.18

Last Calib.:

2004.01.18

Start Time: 11:56:41

End Time:

20:09:16

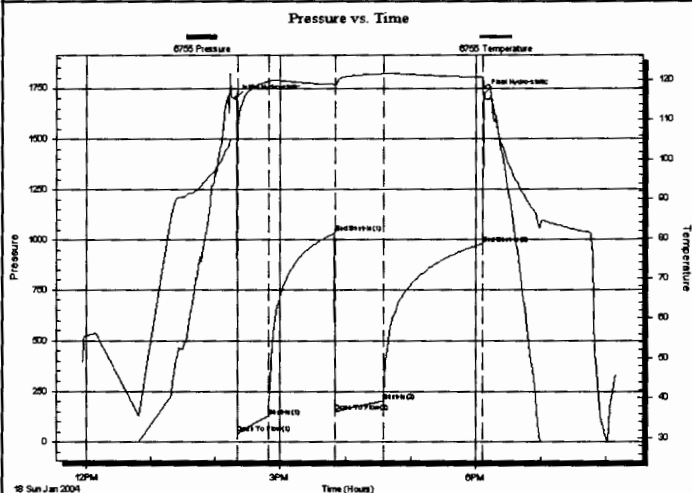
Time On Btm:

2004.01.18 @ 14:18:46

Time Off Btm:

2004.01.18 @ 18:07:16

TEST COMMENT: F:Strong blow .B.O.B. in 15 secs.
IS:Weak blow . 1/2 - 4".
FF:Strong blow . B.O.B. in 7 1/2 mins.
FS:Weak blow . 1/2 - 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.61	105.23	Initial Hydro-static
3	42.62	108.09	Open To Flow (1)
31	126.28	119.61	Shut-In(1)
92	1031.74	118.80	End Shut-In(1)
92	148.49	118.47	Open To Flow (2)
136	202.09	121.51	Shut-In(2)
228	978.16	120.55	End Shut-In(2)
229	1722.65	118.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Salt water Rw .12 ohms @ 49 deg.	2.09
60.00	OCMW 3%o 47%m 50%w	0.84
20.00	GOCM 24%g 24%o 7%w 45%m	0.28
0.00	1820 ft.of gas in pipe	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.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18704

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2004.01.18 @ 11:56:31

Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	54000.00 lb
			<u>Total Volume: 47.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3510.00 ft			Final	49500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	46.00 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			3489.00	
Shut In Tool	5.00			3494.00	
Hydraulic tool	5.00			3499.00	
Safety Joint	2.00			3501.00	
Packer	4.00			3505.00	22.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Recorder	0.00	6755	Inside	3511.00	
Perforations	18.00			3529.00	
Recorder	0.00	13222	Outside	3529.00	
Bullnose	5.00			3534.00	24.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18704

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2004.01.18 @ 11:56:31

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:

94000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Salt water Rw .12 ohms @ 49 deg.	2.089
60.00	OCMW 3%o 47%m 50%w	0.842
20.00	GOCM 24%g 24%o 7%w 45%m	0.281
0.00	1820 ft.of gas in pipe	0.000

Total Length: 390.00 ft

Total Volume: 3.212 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

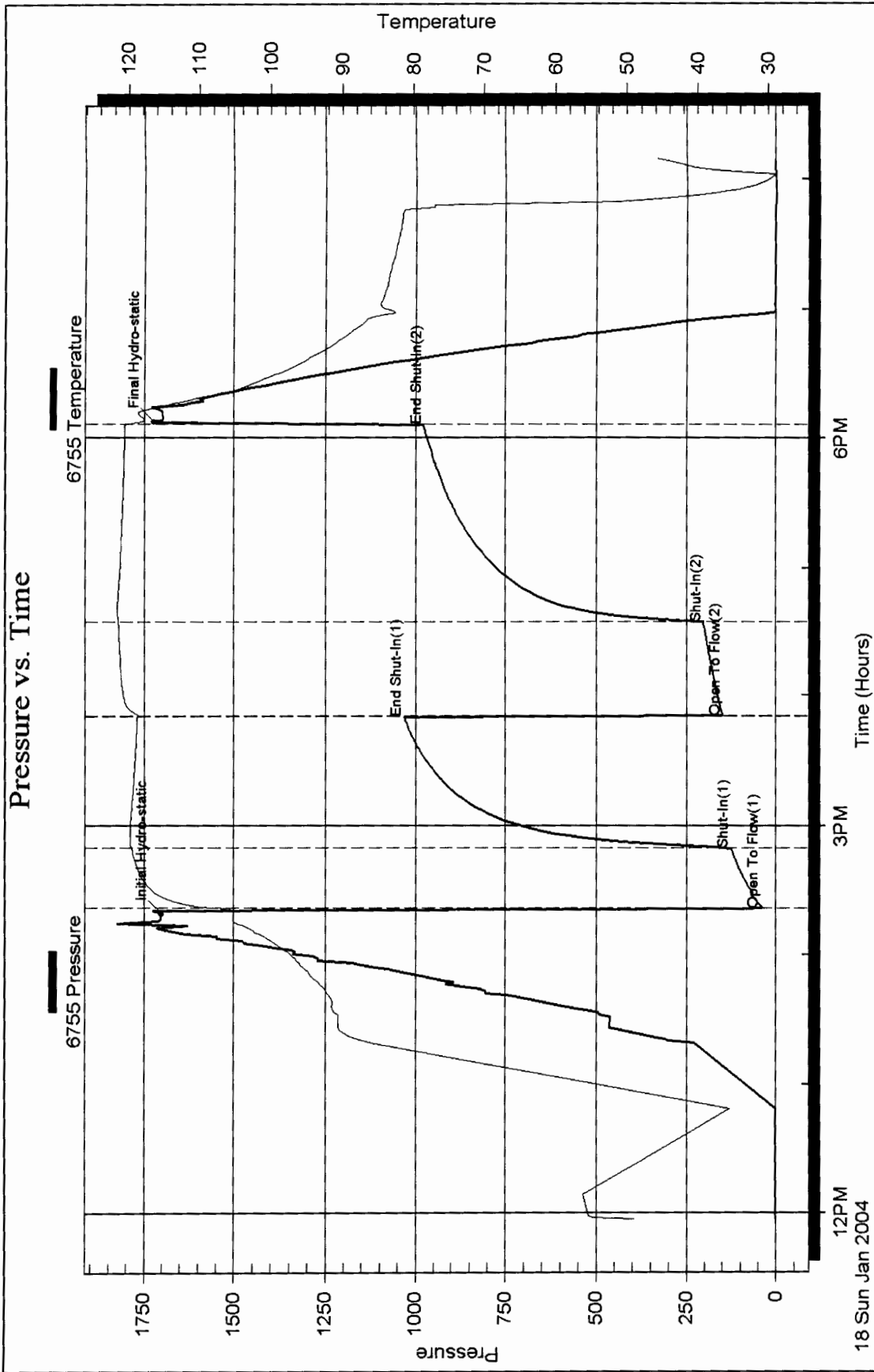
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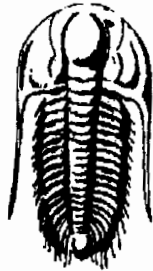
Inside

Murfin Drig.Co.Inc.

30-27s-7w Kingman Ks

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.19 @ 09:07:50

End Date: 2004.01.19 @ 16:53:50

Job Ticket #: 18705 DST #: 4

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

Murfin Drlg.Co.Inc.

Cox #1-30

30-27s-7w Kingman Ks

DST # 4

Hertha

2004.01.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg.Co.Inc.

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

Cox #1-30

30-27s-7w Kingman Ks

Job Ticket: 18705

DST#: 4

Test Start: 2004.01.19 @ 09:07:50

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:30:05

Time Test Ended: 16:53:50

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **3653.00 ft (KB) To 3678.00 ft (KB) (TVD)**

Total Depth: 3678.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1603.00 ft (KB)

1598.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 101.21 psig @ 3654.00 ft (KB)

Start Date: 2004.01.19

End Date: 2004.01.19

Start Time: 09:08:00

End Time: 16:53:50

Capacity: 7000.00 psig

Last Calib.: 2004.01.19

Time On Btrr: 2004.01.19 @ 11:28:35

Time Off Btrr: 2004.01.19 @ 14:59:05

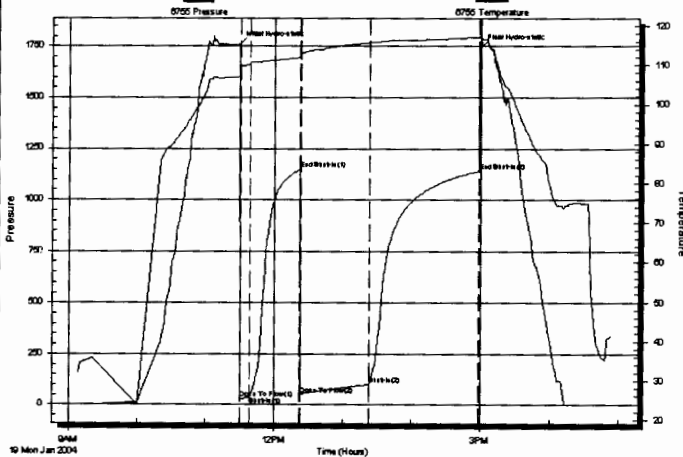
TEST COMMENT: IF:Very weak blow . 1/4" or less. 3 - 4" blow at end of IFP.

IS:No blow .

FF:Fair to strong blow . B.O.B. in 15 mins.

FSI:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.67	107.07	Initial Hydro-static
2	27.80	109.46	Open To Flow (1)
10	39.11	110.57	Shut-In (1)
54	1148.74	111.96	End Shut-In (1)
54	50.39	112.50	Open To Flow (2)
114	101.21	115.78	Shut-In (2)
210	1138.73	117.14	End Shut-In (2)
211	1743.67	117.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MW with oil specs/Rw .15 ohms @ 50	0.47
90.00	GOCM 24%g 16%o 60%m	0.44
0.00	185 ft. of gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18705

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2004.01.19 @ 09:07:50

Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3653.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3632.00	
Shut In Tool	5.00			3637.00	
Hydraulic tool	5.00			3642.00	
Safety Joint	2.00			3644.00	
Packer	4.00			3648.00	22.00 Bottom Of Top Packer
Packer	5.00			3653.00	
Stubb	1.00			3654.00	
Recorder	0.00	6755	Inside	3654.00	
Perforations	19.00			3673.00	
Recorder	0.00	13222	Outside	3673.00	
Bullnose	5.00			3678.00	25.00 Bottom Packers & Anchor

Total Tool Length: - 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18705

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2004.01.19 @ 09:07:50

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:

73000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
95.00	MW with oil specs/Rw .15 ohms @ 50 deg.	0.467
90.00	GOCM 24%g 16%o 60%m	0.443
0.00	185 ft. of gas in pipe	0.000

Total Length: 185.00 ft

Total Volume: 0.910 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

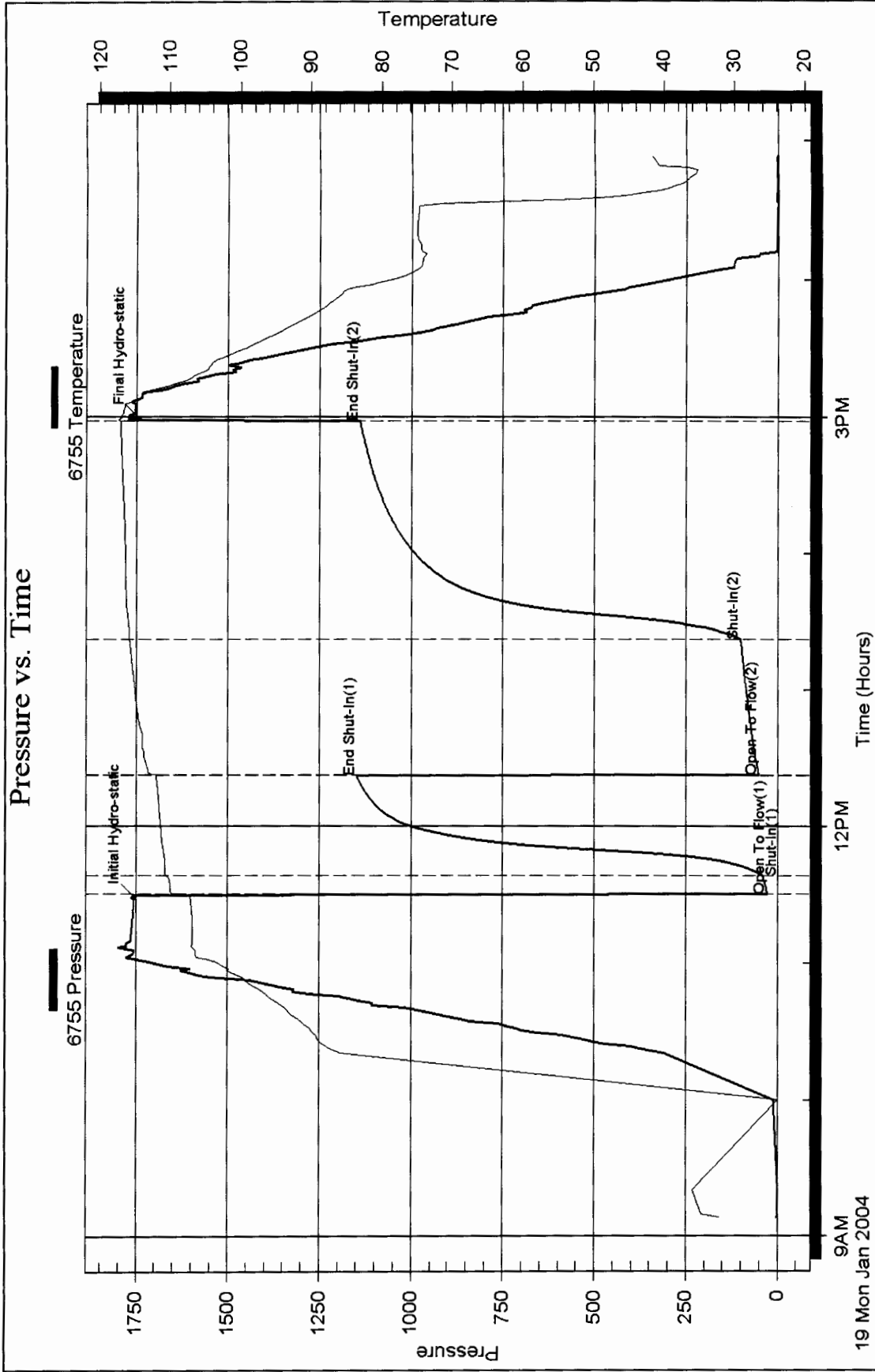
Inside

Murfin Dtg.Co.Inc.

30-27s-7w Kingman Ks

DST Test Number: 4

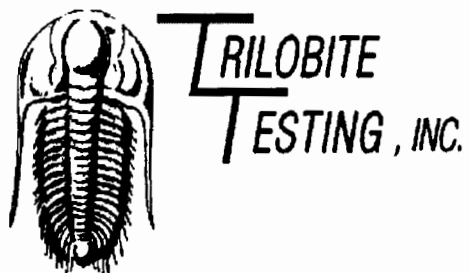
Pressure vs. Time



9AM
19 Mon Jan 2004

12PM

3PM



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.20 @ 15:44:53

End Date: 2004.01.20 @ 19:51:23

Job Ticket #: 18706 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 Drig.Co.Inc.
250 N.Water Ste. 300
Wichita Ks. 67202
ATTN: Paul Gunzelman

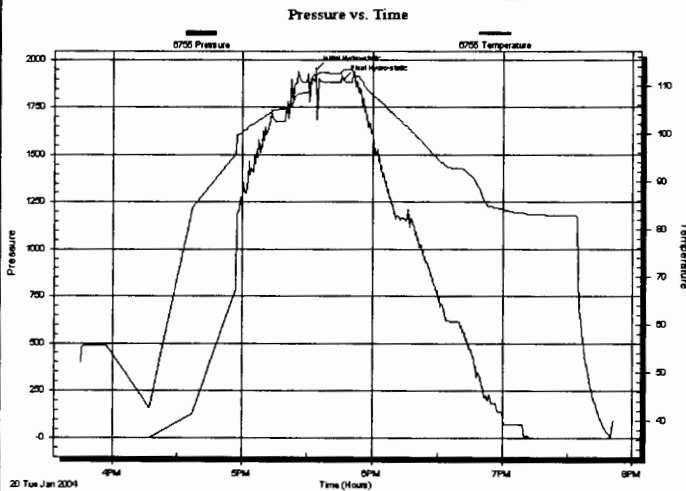
Cox #1-30
30-27s-7w Kingman Ks
Job Ticket: 18706 **DST#: 5**
Test Start: 2004.01.20 @ 15:44:53

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 19:51:23
Interval: **3878.00 ft (KB) To 3988.00 ft (KB) (TVD)**
Total Depth: 3988.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23
Reference Elevations: 1603.00 ft (KB)
1598.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6755 **Inside**
Press@RunDepth: psig @ 3879.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.01.20 End Date: 2004.01.20 Last Calib.: 2004.01.20
Start Time: 15:45:03 End Time: 19:51:23 Time On Btm: 2004.01.20 @ 17:33:53
Time Off Btm: 2004.01.20 @ 17:46:23

TEST COMMENT: IF:Packers failed. Picked up and re-set. Packers failed! MISRUN



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.56	112.41	Initial Hydro-static
13	1898.95	113.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	Drig.mud	2.93

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg.Co.Inc.
250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

Cox #1-30

30-27s-7w Kingman Ks

Job Ticket: 18706

DST#: 5

Test Start: 2004.01.20 @ 15:44:53

Tool Information

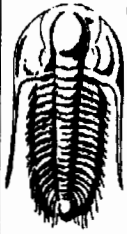
Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3878.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	132.00 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			3857.00	
Shut In Tool	5.00			3862.00	
Hydraulic tool	5.00			3867.00	
Safety Joint	2.00			3869.00	
Packer	4.00			3873.00	22.00 Bottom Of Top Packer
Packer	5.00			3878.00	
Stubb	1.00			3879.00	
Recorder	0.00	6755	Inside	3879.00	
Perforations	7.00			3886.00	
Change Over Sub	1.00			3887.00	
Blank Spacing	95.00			3982.00	
Change Over Sub	1.00			3983.00	
Recorder	0.00	13222	Outside	3983.00	
Bullnose	5.00			3988.00	110.00 Bottom Packers & Anchor

Total Tool Length: 132.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18706

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2004.01.20 @ 15:44:53

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:

5000 ppm

Viscosity: 34.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 29.84 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 16000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	Drlg.mud	2.931

Total Length: 370.00 ft

Total Volume: 2.931 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

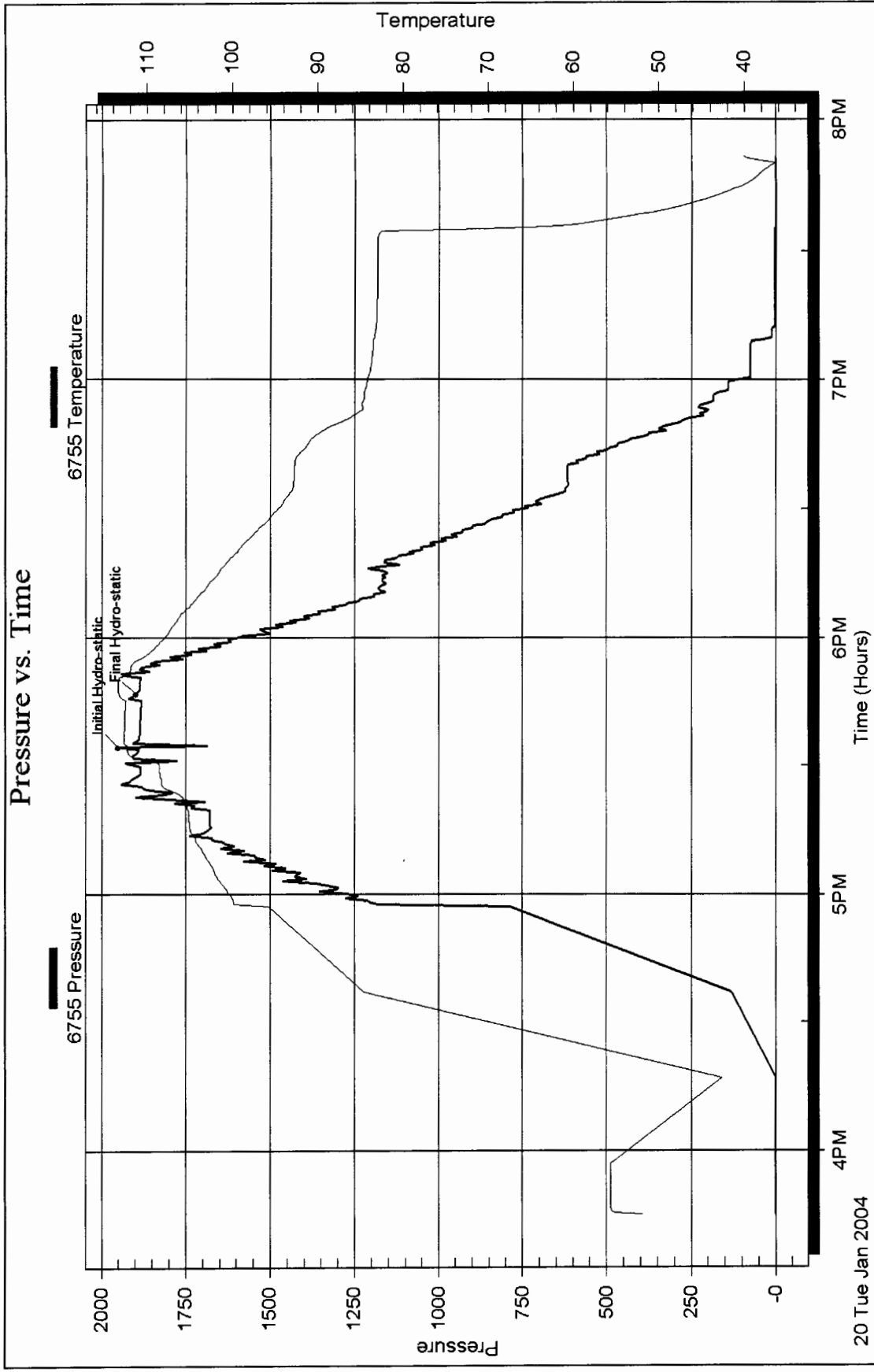
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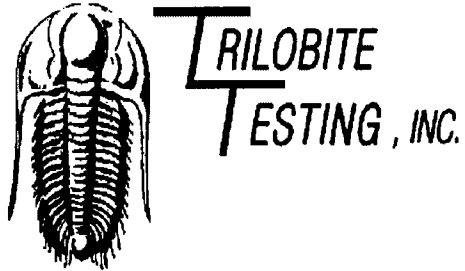
Inside

Murfin Drig.Co.Inc.

30-27s-7w Kingman Ks

DST Test Number: 5





DRILL STEM TEST REPORT

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

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.20 @ 20:01:29

End Date: 2004.01.21 @ 04:27:44

Job Ticket #: 18707 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg.Co.Inc.

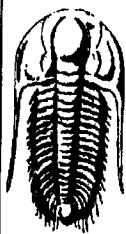
Cox #1-30

30-27s-7w Kingman Ks

DST # 6

Miss.

2004.01.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drlg.Co.Inc.
250 N.Water Ste. 300
Wichita Ks. 67202
ATTN: Paul Gunzelman

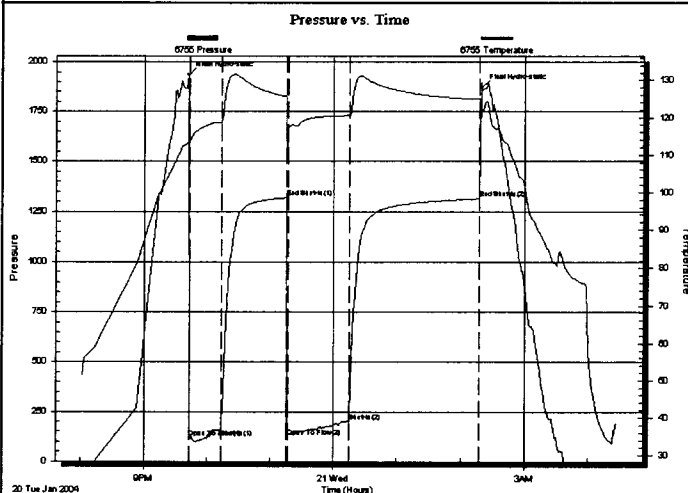
Cox #1-30
30-27s-7w Kingman Ks
Job Ticket: 18707 **DST#: 6**
Test Start: 2004.01.20 @ 20:01:29

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 21:43:44
Time Test Ended: 04:27:44
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23
Interval: **3870.00 ft (KB) To 3988.00 ft (KB) (TVD)**
Reference Elevations: 1603.00 ft (KB)
Total Depth: 3988.00 ft (KB) (TVD) 1598.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 5.00 ft

Serial #: 6755 **Inside**
Press@RunDepth: 197.90 psig @ 3871.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.01.20 End Date: 2004.01.21 Last Calib.: 2004.01.21
Start Time: 20:01:39 End Time: 04:27:44 Time On Btrn: 2004.01.20 @ 21:41:59
Time Off Btrn: 2004.01.21 @ 02:19:29

TEST COMMENT: IF:Strong blow . GTS in 5 mins. (see gas volume report)
IS:No blow .
FF:Strong blow . (see gas volume report)
FSI:No blow .



PRESSURE SUMMARY

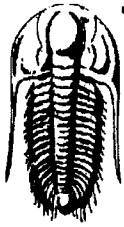
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.39	113.28	Initial Hydro-static
2	121.08	113.89	Open To Flow (1)
32	159.93	118.61	Shut-In(1)
94	1318.30	125.62	End Shut-In(1)
95	123.57	116.45	Open To Flow (2)
153	197.90	120.59	Shut-In(2)
276	1313.69	124.91	End Shut-In(2)
278	1870.83	121.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
488.00	Drlg.mud	4.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.00	137.61
Last Gas Rate	0.50	13.00	184.83
Max. Gas Rate	0.50	23.00	252.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18707

DST#: 6

ATTN: Paul Gunzelman

Test Start: 2004.01.20 @ 20:01:29

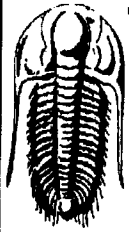
Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3870.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.00 ft			
Tool Length:	140.00 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			3849.00	
Shut In Tool	5.00			3854.00	
Hydraulic tool	5.00			3859.00	
Safety Joint	2.00			3861.00	
Packer	4.00			3865.00	22.00 Bottom Of Top Packer
Packer	5.00			3870.00	
Stubb	1.00			3871.00	
Recorder	0.00	6755	Inside	3871.00	
Perforations	5.00			3876.00	
Change Over Sub	1.00			3877.00	
Blank Spacing	95.00			3972.00	
Change Over Sub	1.00			3973.00	
Perforations	10.00			3983.00	
Recorder	0.00	13222	Outside	3983.00	
Bullnose	5.00			3988.00	118.00 Bottom Packers & Anchor

Total Tool Length: 140.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18707

DST#: 6

ATTN: Paul Gunzelman

Test Start: 2004.01.20 @ 20:01:29

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:

5000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
488.00	Drig.mud	4.586

Total Length:

488.00 ft

Total Volume:

4.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-#6

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Murfin Drlg.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18707

DST#: 6

ATTN: Paul Gunzelman

Test Start: 2004.01.20 @ 20:01:29

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.50	6.00	137.61
1	20	0.50	9.00	157.85
1	30	0.50	10.00	164.59
2	10	0.50	23.00	252.29
2	20	0.50	17.00	211.82
2	30	0.50	15.00	198.32
2	40	0.50	14.00	191.58
2	50	0.50	14.00	191.58
2	60	0.50	13.00	184.83

Serial #: 6755

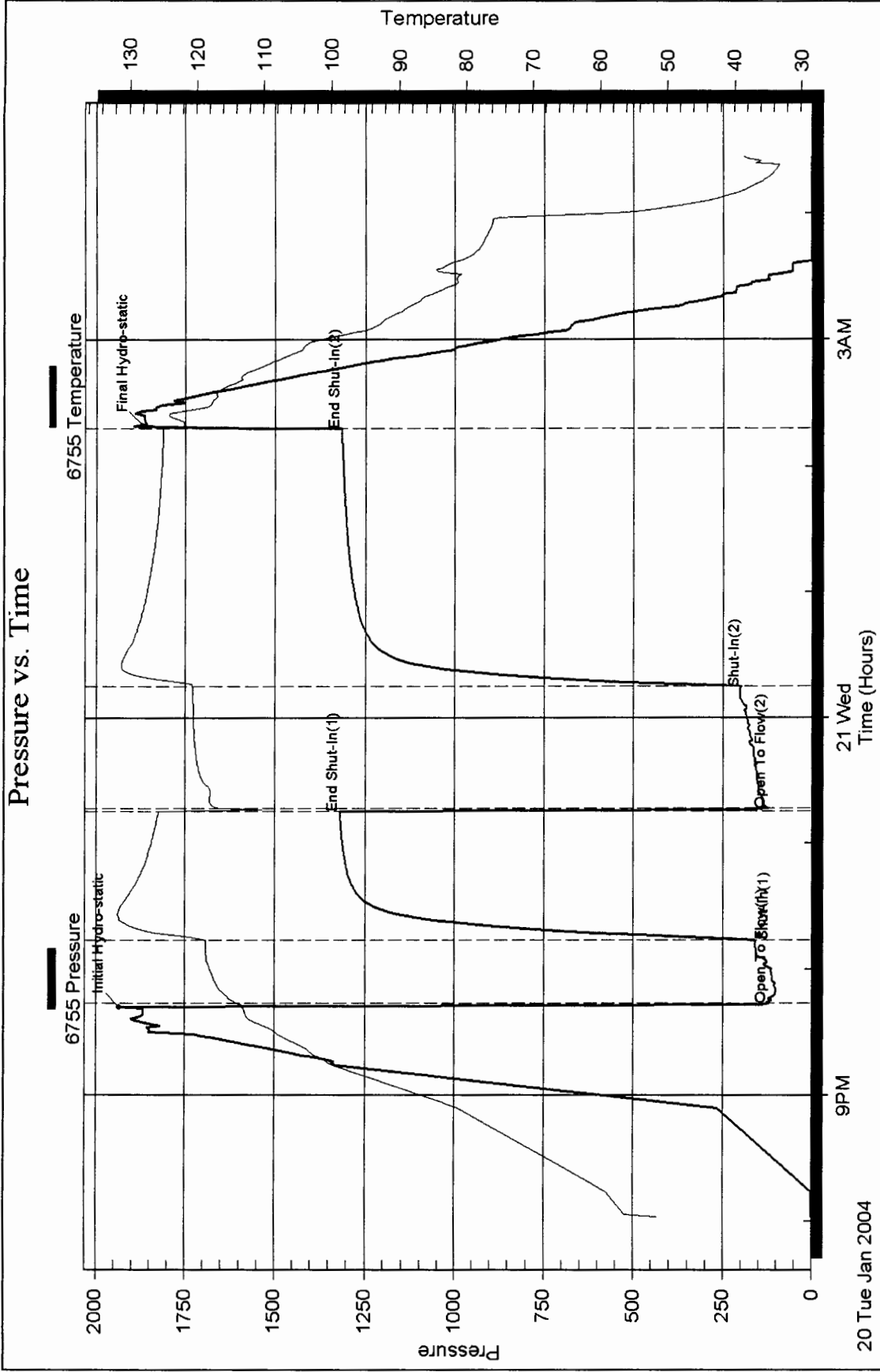
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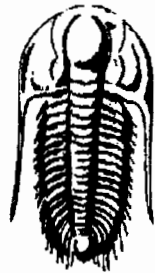
Murfin Drig. Co. Inc.

30-27s-7w Kingman Ks

DST Test Number: 6

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.21 @ 10:53:28

End Date: 2004.01.21 @ 14:56:13

Job Ticket #: 18708 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg.Co.Inc.

Cox #1-30

30-27s-7w Kingman Ks

DST # 7

Miss.

2004.01.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drlg.Co.Inc.

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

Cox #1-30

30-27s-7w Kingman Ks

Job Ticket: 18708

DST#: 7

Test Start: 2004.01.21 @ 10:53:28

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 00:00:00

Time Test Ended: 14:56:13

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **3988.00 ft (KB) To 3998.00 ft (KB) (TVD)**

Total Depth: **3998.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1603.00 ft (KB)**

1598.00 ft (CF)

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

Serial #: 6755 **Inside**

Press@RunDepth: **psig @ 3989.00 ft (KB)**

Start Date: **2004.01.21**

End Date: **2004.01.21**

Start Time: **10:53:38**

End Time: **14:56:13**

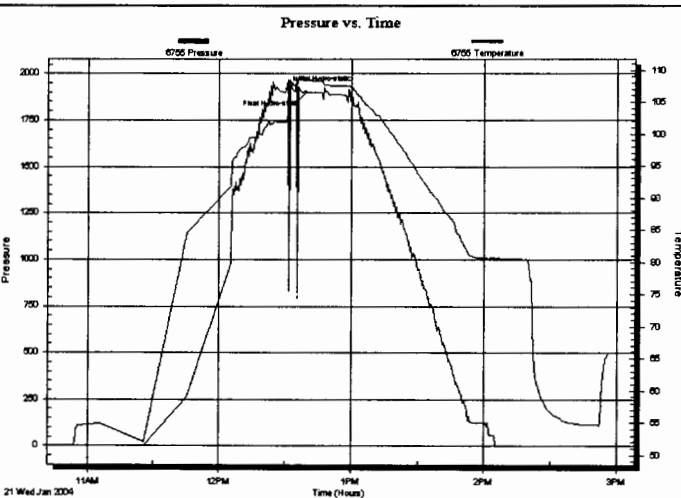
Capacity: **7000.00 psig**

Last Calib.: **2004.01.21**

Time On Btm: **2004.01.21 @ 12:30:28**

Time Off Btm: **2004.01.21 @ 12:39:13**

TEST COMMENT: **F:Packers failed. Picked up and re-set. Packers failed. MISRUN!**



PRESSURE SUMMARY

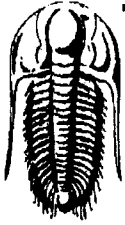
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.31	101.93	Initial Hydro-static
9	1900.92	108.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Drlg.mud	1.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18708

DST#: 7

ATTN: Paul Gunzelman

Test Start: 2004.01.21 @ 10:53:28

Tool Information

Drill Pipe:	Length: 3735.00 ft	Diameter: 3.80 inches	Volume: 52.39 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3988.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

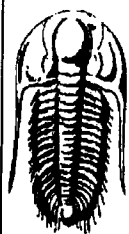
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3967.00	
Shut In Tool	5.00			3972.00	
Hydraulic tool	5.00			3977.00	
Safety Joint	2.00			3979.00	
Packer	4.00			3983.00	22.00 Bottom Of Top Packer
Packer	5.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	6755	Inside	3989.00	
Perforations	4.00			3993.00	
Recorder	0.00	13222	Outside	3993.00	
Bullnose	5.00			3998.00	10.00 Bottom Packers & Anchor

Total Tool Length: 32.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18708

DST#:7

ATTN: Paul Gunzelman

Test Start: 2004.01.21 @ 10:53:28

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:

5000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	Drig.mud	1.248

Total Length: 250.00 ft

Total Volume: 1.248 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

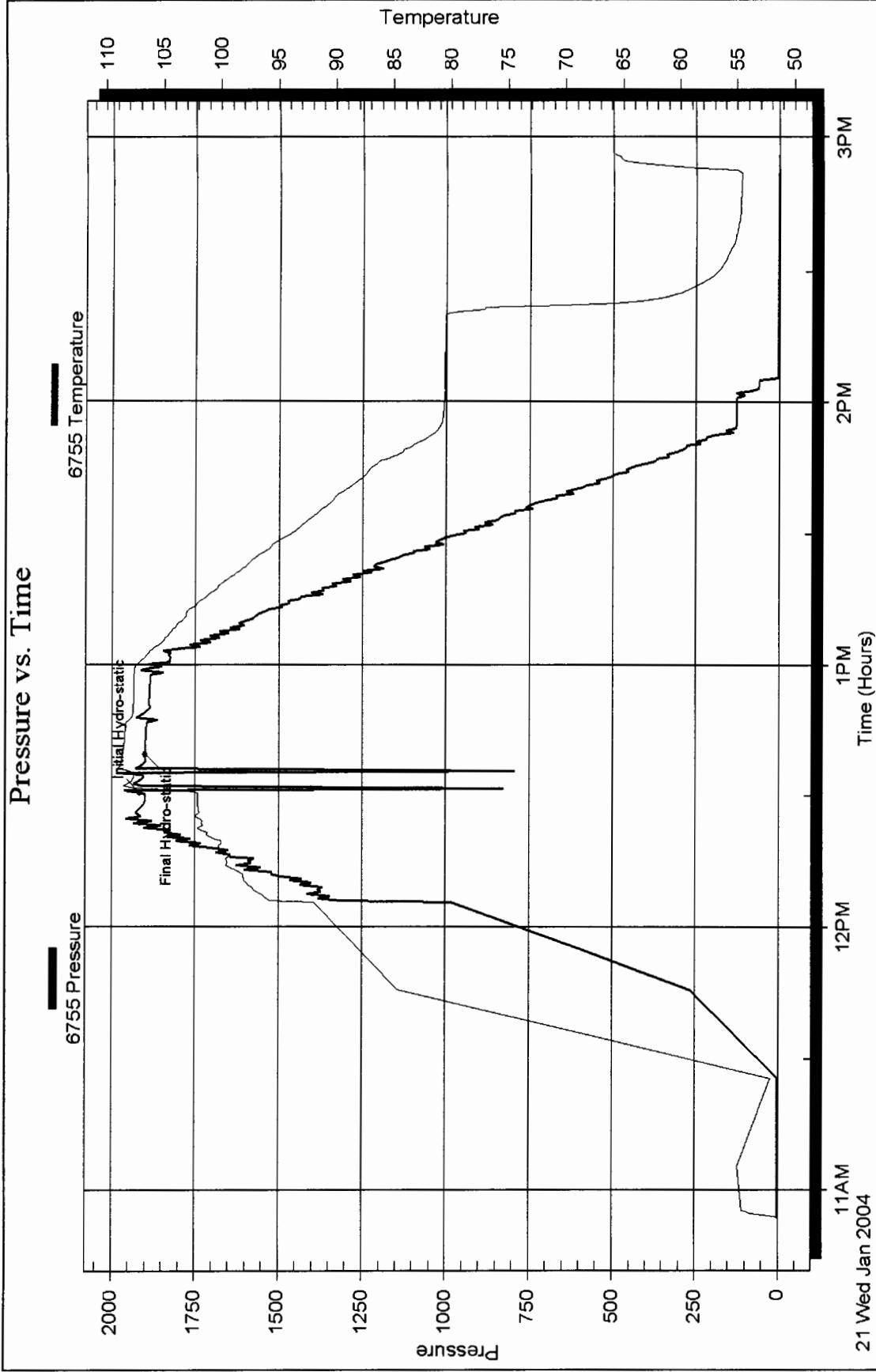
Serial #: 6755

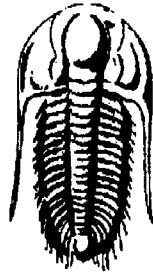
Inside

Murfin Drig.Co.Inc.

30-27s-7w Kingman Ks

DST Test Number: 7





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N.Water Ste. 300
Wichita Ks. 67202

ATTN: Paul Gunzelman

30-27s-7w Kingman Ks

Cox #1-30

Start Date: 2004.01.21 @ 14:59:47

End Date: 2004.01.21 @ 23:42:32

Job Ticket #: 18709 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg.Co.Inc.

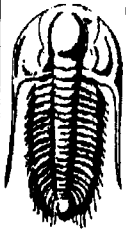
Cox #1-30

30-27s-7w Kingman Ks

DST # 8

Miss.

2004.01.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg.Co.Inc.
 250 N.Water Ste. 300
 Wichita Ks. 67202
 ATTN: Paul Gunzelman

Cox #1-30
30-27s-7w Kingman Ks
 Job Ticket: 18709 **DST#: 8**
 Test Start: 2004.01.21 @ 14:59:47

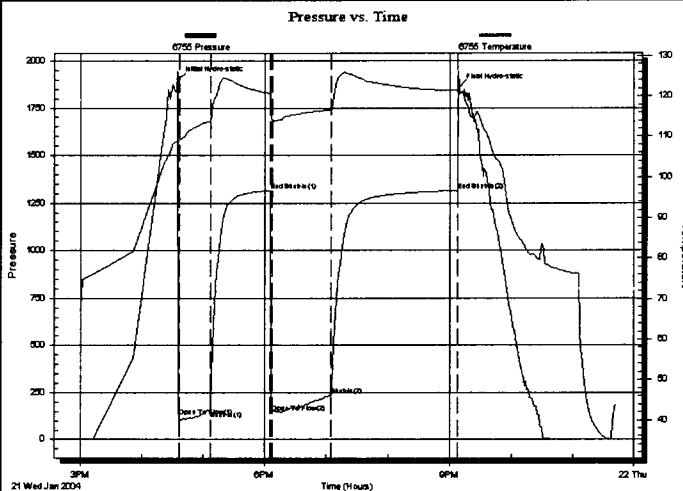
GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 16:36:17
 Time Test Ended: 23:42:32
 Interval: **3868.00 ft (KB) To 3998.00 ft (KB) (TVD)**
 Total Depth: **3998.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Bottom Hole**
 Tester: **Gary Pevoteaux**
 Unit No: **23**
 Reference Elevations: **1603.00 ft (KB)**
1598.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6755 **Inside**
 Press@RunDepth: **235.42 psig @ 3869.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.01.21** End Date: **2004.01.21** Last Calib.: **2004.01.21**
 Start Time: **14:59:57** End Time: **23:42:31** Time On Btm: **2004.01.21 @ 16:35:17**
 Time Off Btm: **2004.01.21 @ 21:09:17**

TEST COMMENT: IF: Strong blow . B.O.B. in 40 secs. GTS in 17 mins. (see gas volume report)
 IS: No blow .
 FF: Strong blow . (see gas volume report)
 FS: Weak blow . 1/4".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.61	108.93	Initial Hydro-static
1	124.15	108.82	Open To Flow (1)
32	154.61	113.73	Shut-In (1)
91	1314.68	120.68	End Shut-In (1)
92	142.67	113.26	Open To Flow (2)
150	235.42	116.56	Shut-In (2)
273	1314.47	121.36	End Shut-In (2)
274	1861.19	122.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
576.00	GCM approx. 20%g 80%m	5.82

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.50	4.00	124.12
Max. Gas Rate	0.25	20.00	54.57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18709

DST#: 8

ATTN: Paul Gunzelman

Test Start: 2004.01.21 @ 14:59:47

Tool Information

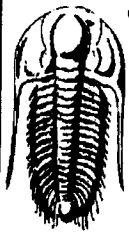
Drill Pipe:	Length: 3609.00 ft	Diameter: 3.80 inches	Volume: 50.62 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 51.84 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3868.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	130.00 ft			
Tool Length:	152.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Slid tool 6 - 7 ft. to btm!

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3847.00	
Shut In Tool	5.00			3852.00	
Hydraulic tool	5.00			3857.00	
Safety Joint	2.00			3859.00	
Packer	4.00			3863.00	22.00 Bottom Of Top Packer
Packer	5.00			3868.00	
Stubb	1.00			3869.00	
Recorder	0.00	6755	Inside	3869.00	
Perforations	5.00			3874.00	
Change Over Sub	1.00			3875.00	
Blank Spacing	95.00			3970.00	
Change Over Sub	1.00			3971.00	
Perforations	22.00			3993.00	
Recorder	0.00	13222	Outside	3993.00	
Bullnose	5.00			3998.00	130.00 Bottom Packers & Anchor

Total Tool Length: 152.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18709

DST#: 8

ATTN: Paul Gunzelman

Test Start: 2004.01.21 @ 14:59:47

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:

5000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
576.00	GCM approx.20%g 80%m	5.821

Total Length: 576.00 ft

Total Volume: 5.821 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-#8

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Murfin Drlg.Co.Inc.

Cox #1-30

250 N.Water Ste. 300
Wichita Ks. 67202

30-27s-7w Kingman Ks

Job Ticket: 18709

DST#: 8

ATTN: Paul Gunzelman

Test Start: 2004.01.21 @ 14:59:47

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	20	0.25	6.00	32.36
1	30	0.25	20.00	54.57
2	10	0.50	11.00	171.34
2	20	0.50	7.00	144.36
2	30	0.50	4.00	124.12
2	40	0.50	5.00	130.87
2	50	0.50	4.00	124.12
2	60	0.50	4.00	124.12

Serial #: 6755

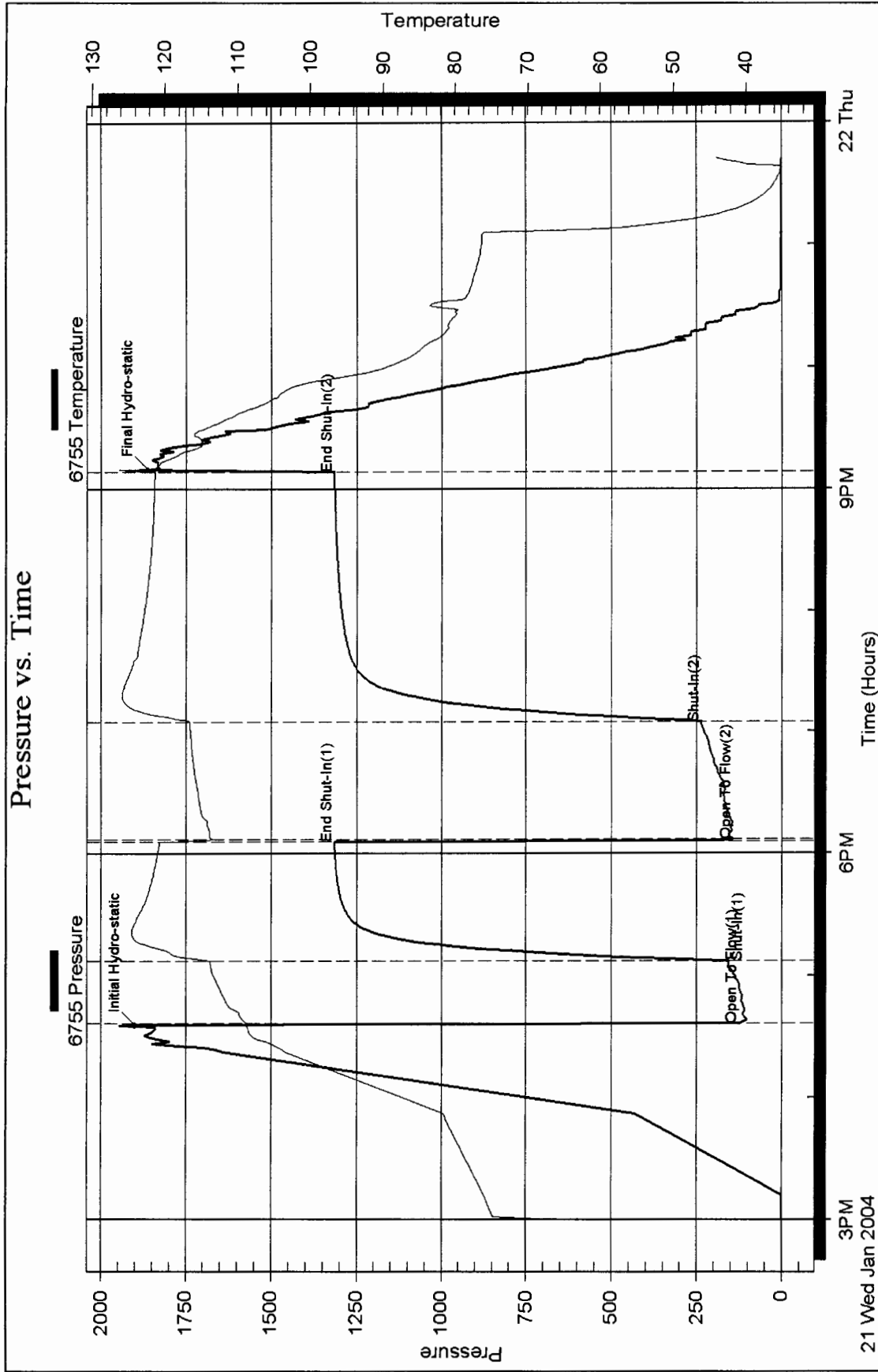
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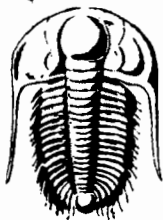
Murfin Drig Co. Inc.

30-27s-7w Kingman Ks

DST Test Number: 8

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
6167

No 18702

05/03

Test Ticket

Well Name & No. Cox # 1-30 Test No. 1 Date 1-15-04
 Company Murphy Drilling Co. Inc. Zone Tested Indian Cave
 Address 250N. Water, Ste 300, Wichita Ks. 67202 Elevation 1403 KB 1598 GL
 Co. Rep / Geo. Paul Cengelman Cont. Mallard JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27 S Rge. 7 W Co. Kingman State Ko.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2090 - 2120' Initial Str Wt./Lbs. 37,000 Unseated Str Wt/Lbs. 38,000
 Anchor Length 30' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 2085' Tool Weight 2100#
 Bottom Packer Depth 2090' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 2120' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.0 LCM --- Vis. 34 WL 30.0cc Drill Pipe Size 4 1/2" Ft. Run 1837'
 Blow Description IF: Wash below 1/2 - 1 1/4" ISF: No below.

FF: Wash below 1/4" FSI: No below.

Recovery - Total Feet 95 GIP 0 Ft. in DC 95 Ft. in DP 6
 Rec. 95 Feet of Drilling Mud. %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 89 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API _____
 RW N.C. @ _____ °F Chlorides 4,000 ppm Recovery _____ Chlorides 4,000 ppm System _____

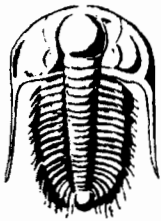
AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1,000</u> PSI	<u>6755</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>13</u> PSI	<u>2091'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>39</u> PSI	<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>794</u> PSI	<u>2115'</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>42</u> PSI	<u>---</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>67</u> PSI	<u>---</u>	Sampler _____
(G) Final Shut-In Pressure	<u>808</u> PSI	<u>Initial Opening</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>990</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer <u>150</u>
		Final Shut-In <u>60</u>	Mileage <u>40.68</u>

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Approved By Paul Cengelman
 Our Representative Gary R. ...

T-On Location 1805
 T-Started 1847
 T-Open 2005
 T-Pulled 2236
 T-Out 2347

Sub Total: 1090/118
 Std. By ---
 Other _____
 Total: 1090⁰⁰



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18703

05/03

Test Ticket

Well Name & No. Cox # 1-30 Test No. 2 Date 1-16-04
 Company Murgin Drilling Co. Inc. Zone Tested Stetler
 Address 250 N. Water St. 300, Wichita Ks. 67202 Elevation 1603 KB 1598 GL
 Co. Rep / Geo. Paul Gungelman Cont. Mallard SV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27S Rge. 7W Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2282 - 2317 Initial Str Wt./Lbs. 39,000 Unseated Str Wt./Lbs. 40,000
 Anchor Length 35' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 2277' Tool Weight 2100#
 Bottom Packer Depth 2282' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 2317' Wt. Pipe Run None Drill Collar Run 248
 Mud Wt. 9.4 LCM — Vis. 39 WL 28.0cc Drill Pipe Size 4 1/2" Ft. Run 2028

Blow Description IF: Weak to fair blow. slow increase to 9".
ISI: No blow.
FF: strong blow. B.O.B. in 10 secs. Opened choke & lost most of
blow in 20 secs. Increased slowly back to 8". FSI:

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>125'</u>	<u>250</u>	<u>125</u>	<u>0</u>
Rec. <u>63</u> Feet of <u>CCM @ oil seam</u>	<u>8</u> %gas	<u>4</u> %oil	<u>88</u> %water
Rec. <u>62</u> Feet of <u>CCM @ oil spec.</u>	<u>27</u> %gas	<u>18</u> %oil	<u>55</u> %water
Rec. _____ Feet of _____	_____ %gas	_____ %oil	_____ %water
Rec. _____ Feet of _____	_____ %gas	_____ %oil	_____ %water
Rec. _____ Feet of _____	_____ %gas	_____ %oil	_____ %water
BHT <u>92</u> °F Gravity <u>N/A</u> °API D @ <u>—</u> °F Corrected Gravity <u>N/A</u> °API			
RW <u>N.C.</u> @ <u>—</u> °F Chlorides <u>36,000</u> ppm Recovery _____ Chlorides <u>36,000</u> ppm System			

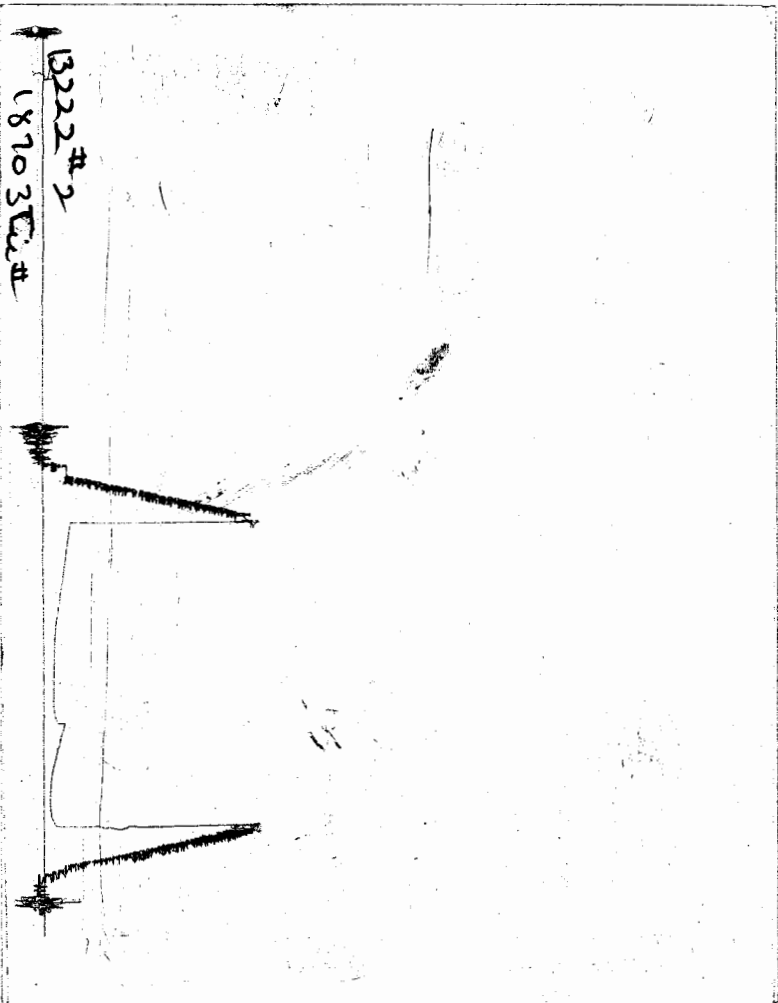
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1078</u> PSI		<u>6755</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>23</u> PSI		<u>2283'</u>	<u>150</u>
(C) First Final Flow Pressure	<u>44</u> PSI		<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>137</u> PSI		<u>2312'</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>44</u> PSI		<u>—</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>45</u> PSI		<u>—</u>	Sampler _____
(G) Final Shut-In Pressure	<u>165</u> PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1070</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer _____
		Final Flow	<u>60</u>	Shale Packer <u>150</u>
		Final Shut-In	<u>90</u>	Mileage <u>40</u>
		T-On Location	<u>0853</u>	Sub Total: <u>1090</u>
		T-Started	<u>0904</u>	Std. By <u>1118</u>
		T-Open	<u>1030</u>	Other _____
		T-Pulled	<u>1418</u>	Total: <u>1090</u>
		T-Out	<u>1545</u>	

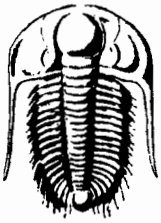
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Approved By Paul Gungelman
 Our Representative Gary Perotary

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18704

05/03

Test Ticket

Well Name & No. Cox #1-30 Test No. 3 Date 1-18-04
 Company Marfin Drilling Co. Inc. Zone Tested Upper Lane
 Address Wichita Ks. 67202 Elevation 1603 KB 1578 GL
 Co. Rep / Geo. Paul Gungelman Cont. Mallard JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27S Rge. 7W Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3510 - 3534' Initial Str Wt./Lbs. 49,000 Unseated Str Wt./Lbs. 49,500
 Anchor Length 24' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 54,000
 Top Packer Depth 3505' Tool Weight 2100#
 Bottom Packer Depth 3510' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3534' Wt. Pipe Run None Drill Collar Run 248
 Mud Wt. 9.4 LCM ~ Vis. 49 WL 10.4cc Drill Pipe Size 4 1/2" Ft. Run 3265
 Blow Description IF; Strong blow. B.O.B. in 15 sec. IS; Weak blow. 1/2 - 4".
FF; Strong blow. B.O.B. in 7 1/2 mins. FSI; Weak blow. 1/2 - 2".

Recovery - Total Feet 390 GIP 1820 Ft. in DC 248 Ft. in DP 142
 Rec. 20 Feet of GOCM 24 %gas 24 %oil 9 %water 45 %mud
 Rec. 60 Feet of OCMW 28 %gas 3 %oil 50 %water 47 %mud
 Rec. 310 Feet of salt water %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 121 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW .12 @ 49 °F Chlorides 94,000 ppm Recovery _____ Chlorides 4,000 ppm System

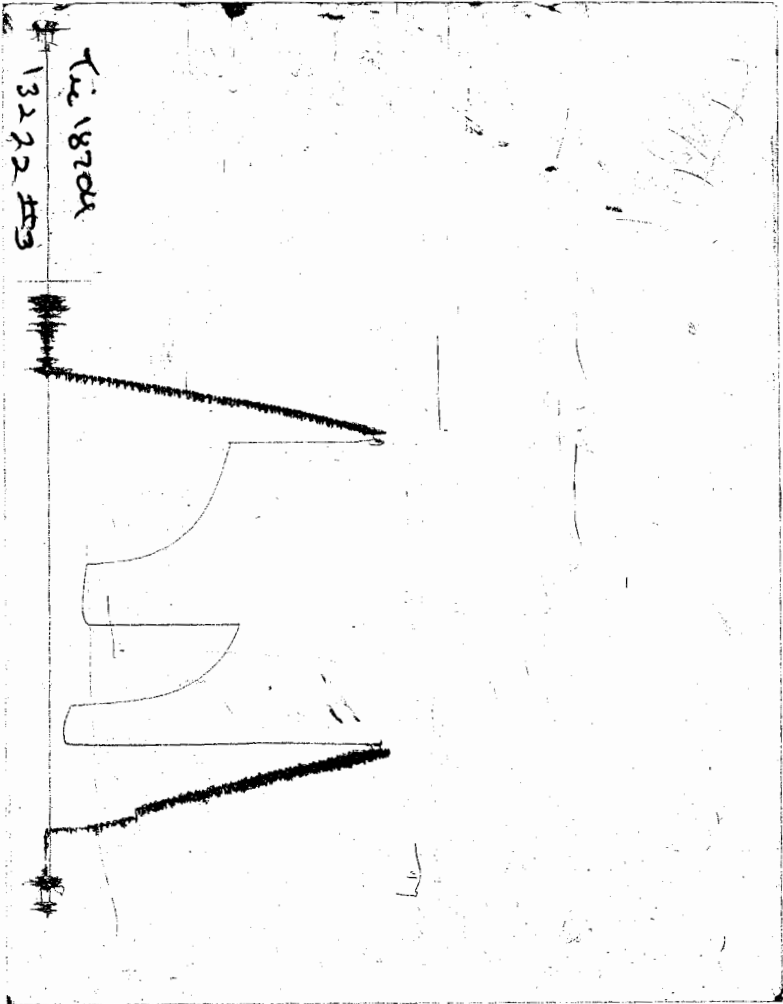
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1701</u> PSI		<u>6755</u>	<u>✓ 700</u>
(B) First Initial Flow Pressure	<u>43</u> PSI		<u>3511'</u>	<u>✓ 150</u>
(C) First Final Flow Pressure	<u>126</u> PSI		<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1032</u> PSI		<u>3529'</u>	Safety Jt. <u>✓ 50</u>
(E) Second Initial Flow Pressure	<u>148</u> PSI		<u>---</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>202</u> PSI		<u>---</u>	Sampler _____
(G) Final Shut-In Pressure	<u>978</u> PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1723</u> PSI	Initial Shut-In	<u>60</u>	Ext. Packer _____
		Final Flow	<u>45</u>	Shale Packer _____
		Final Shut-In	<u>90</u>	Mileage <u>✓ 40</u>
		T-On Location	<u>1140</u>	Sub Total: <u>940 968</u>
		T-Started	<u>1156</u>	Std. By <u>30 30</u>
		T-Open	<u>1421</u>	Other _____
		T-Pulled	<u>18 06</u>	Total: <u>✓ 940 968</u>
		T-Out	<u>2069</u>	<u>970 00</u> <u>098</u>

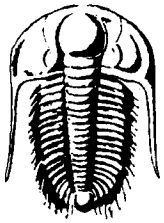
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Approved By Paul Gungelman
 Our Representative Cary Swartz

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18705

05/03

Test Ticket

Well Name & No. Cox # 1-30 Test No. 4 Date 1-19-04
 Company Murphy Drilg. Co. Inc. Zone Tested Herttha
 Address Wichita Ks. 67202 Elevation 1603 KB 1598 GL
 Co. Rep / Geo. Paul Gumpelman Cont. Mallard JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27^S Rge. 7^W Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3653' - 3678' Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48,000
 Anchor Length 25' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3648' Tool Weight 2100#
 Bottom Packer Depth 3653' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3678' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.4 LCM ~ Vis. 45 WL 9.6cc. Drill Pipe Size 4 1/2" Ft. Run 3394
 Blow Description IF: Very weak below 1/4" or less. 3-4" blow at end of IEP. ISI: No blow.
FF: Fair to strong blow. B.O.B. in 15 mins. FSI: No blow.

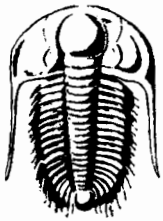
Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>185</u>	<u>185</u>	<u>185</u>	<u>0</u>
Rec. <u>90</u> Feet of <u>GOCM</u>	<u>24</u> %gas	<u>16</u> %oil	<u>60</u> %water
Rec. <u>95</u> Feet of <u>MW (oil spec)</u>	<u>91</u> %gas	<u>9</u> %oil	<u>9</u> %water
Rec. _____ Feet of _____	%gas	%oil	%water
Rec. _____ Feet of _____	%gas	%oil	%water
Rec. _____ Feet of _____	%gas	%oil	%water
BHT <u>117</u> °F Gravity <u>N/A</u> °API D @ _____ °F Corrected Gravity <u>N/A</u> °API			
RW <u>.15</u> @ <u>50</u> °F Chlorides <u>73,000</u> ppm Recovery _____ Chlorides <u>5,000</u> ppm System			

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud <u>NO PAPER</u>	<u>1735</u> PSI	<u>6755</u>	<u>✓ 700</u>
(B) First Initial Flow Pressure <u>CHART</u>	<u>28</u> PSI	<u>3654'</u>	<u>✓ 150</u>
(C) First Final Flow Pressure _____	<u>39</u> PSI	<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure _____	<u>1149</u> PSI	<u>3673'</u>	Safety Jt. <u>✓ 50</u>
(E) Second Initial Flow Pressure _____	<u>30</u> PSI	<u>---</u>	Circ Sub _____
(F) Second Final Flow Pressure _____	<u>101</u> PSI	<u>---</u>	Sampler _____
(G) Final Shut-In Pressure _____	<u>1139</u> PSI	Initial Opening <u>08</u>	Straddle _____
(Q) Final Hydrostatic Mud _____	<u>1744</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
		Final Flow <u>60</u>	Shale Packer _____
		Final Shut-In <u>90</u>	Mileage <u>✓ 40</u>

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Approved By Paul Gumpelman
 Our Representative Gary Pavotays

T-On Location	<u>0850</u>	Sub Total:	<u>240968</u>
T-Started	<u>0907</u>	Std. By	<u>✓ 30 30</u>
T-Open	<u>1130</u>	Other	_____
T-Pulled	<u>1458</u>	Total:	<u>✓ 240968</u>
T-Out	<u>1653</u>		<u>22000</u> <u>998</u>



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18706

05/03

Test Ticket

Well Name & No. Cox # 1-30 Test No. S Date 1-20-04
 Company Murphy Drilling Co. Inc. Zone Tested Miss.
 Address Wichita Ks. 67202 Elevation 1603 KB 1598 GL
 Co. Rep / Geo. Paul Gungelman Cont. Mattland JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27S Rge. 7W Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3878 - 3988 Initial Str Wt./Lbs. 50000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 110 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3873 Tool Weight 2100 #
 Bottom Packer Depth 3878 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3988 Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.4 LCM — Vis. 45 WL 10.6 cc Drill Pipe Size 4 1/2" Ft. Run 3641'
 Blow Description IF: Packers failed. Picked up and re-set.
Packers failed. Mission!

Recovery - Total Feet 370 GIP — Ft. in DC 248 Ft. in DP 122
 Rec. 370 Feet of Mud. %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT N.C. °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW N.C. @ _____ °F Chlorides 5,000 ppm Recovery _____ Chlorides 5,000 ppm System

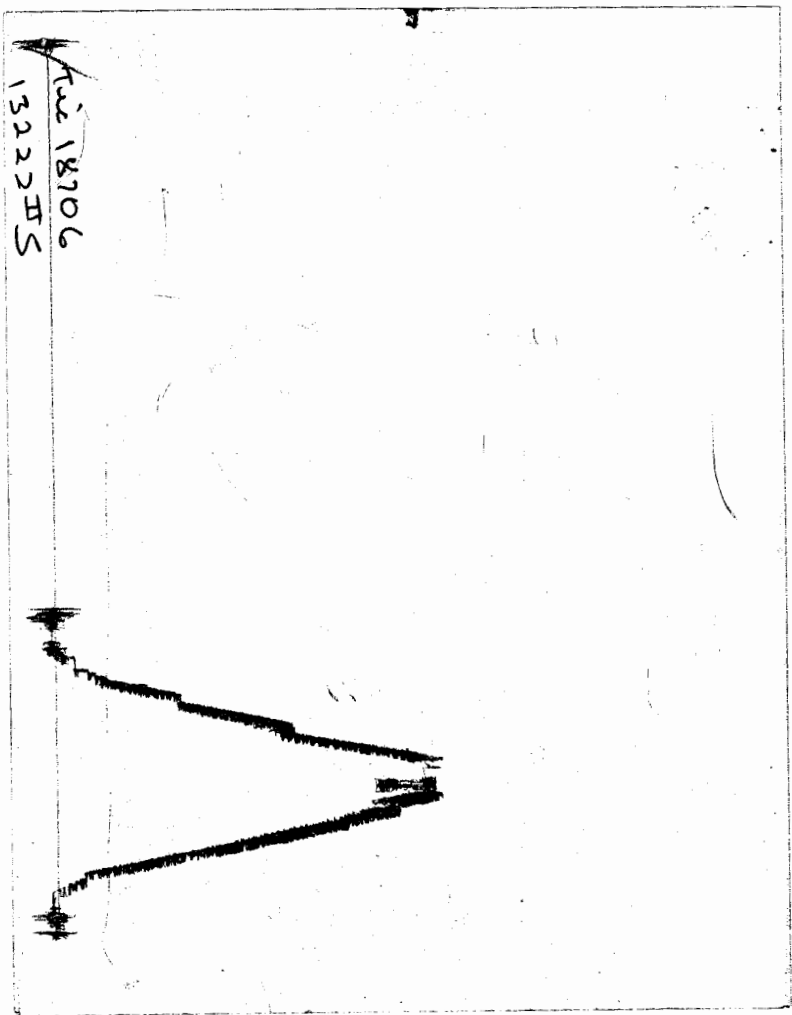
(A) Initial Hydrostatic Mud	<u>1951</u> PSI	Recorder No.	<u>6755</u>	Test <u>Mission</u> ✓	<u>500</u> °
(B) First Initial Flow Pressure	PSI	(depth)	<u>3879'</u>	Elec. Rec.	✓ <u>150</u> °
(C) First Final Flow Pressure	PSI	Recorder No.	<u>13222</u>	Jars	_____
(D) Initial Shut-In Pressure	PSI	(depth)	<u>3983'</u>	Safety Jt.	✓ <u>50</u> °
(E) Second Initial Flow Pressure	PSI	Recorder No.	_____	Circ Sub	_____
(F) Second Final Flow Pressure	PSI	(depth)	_____	Sampler	_____
(G) Final Shut-In Pressure	PSI	Initial Opening	<u>1</u>	Straddle	_____
(Q) Final Hydrostatic Mud	<u>1899</u> PSI	Initial Shut-In	_____	Ext. Packer	_____
		Final Flow	_____	Shale Packer	_____
		Final Shut-In	<u>2</u>	Mileage	✓ <u>40</u> °
		T-On Location	<u>1536</u>	Sub Total:	_____
		T-Started	<u>1544</u>	Std. By	_____
		T-Open	<u>N/A</u>	Other	_____
		T-Pulled	<u>1740</u>	Total:	✓ <u>740</u> °
		T-Out	<u>1951</u>		

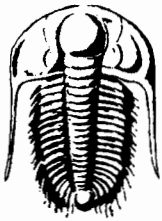
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Approved By Paul Gungelman
 Our Representative Gary Puchner

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18707

05/03

Test Ticket

Well Name & No. COK # 1-30 Test No. 6 Date 1-20-04
 Company Murphy Drlg. Co. Inc. Zone Tested Misc.
 Address Wichita Ks. 67202 Elevation 1603 KB 1598 GL
 Co. Rep / Geo. Paul Gungelman Cont. Mallard JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27^S Rge. 7^W Co. Kingman State Ko.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3870 - 3988' Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs. 50,000
 Anchor Length 118' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3865' Tool Weight 2100#
 Bottom Packer Depth 3870' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3988' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.4 LCM ~ Vis. 45 WL 10.6cc Drill Pipe Size 4 1/2" Ft. Run 3630'
 Blow Description IF: Strong below. GTS in 5 mins. (see gas volume report) ISI: No blow.
FF: Strong below. (see gas volume report) FSI: No blow.

Recovery - Total Feet 488 GIP yes Ft. in DC 248 Ft. in DP 240
 Rec. 488 Feet of Drlg. Mud. %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 125 °F Gravity N/A °API D @ ~ °F Corrected Gravity N/A °API
 RW NIC. @ ~ °F Chlorides 5,000 ppm Recovery _____ Chlorides 5,000 ppm System

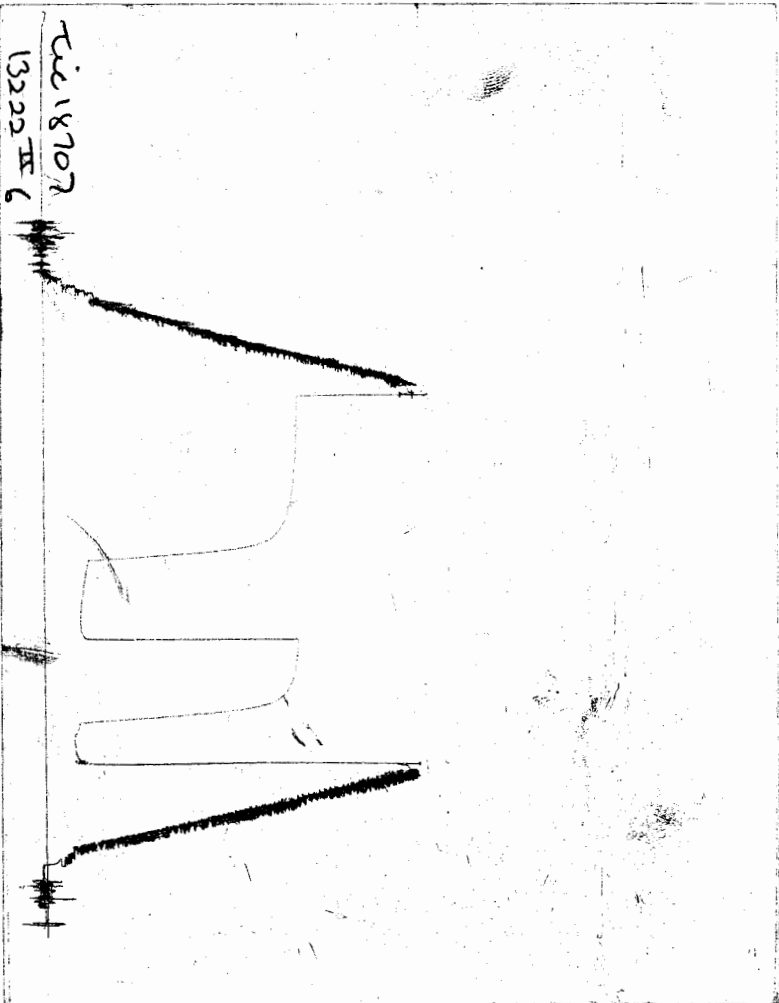
AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1934</u> PSI	<u>6755</u>	<u>✓ 700⁰⁰</u>
(B) First Initial Flow Pressure	<u>121</u> PSI	(depth) <u>3871'</u>	Elec. Rec. <u>✓ 150⁰⁰</u>
(C) First Final Flow Pressure	<u>160</u> PSI	Recorder No. <u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1318</u> PSI	(depth) <u>3983'</u>	Safety Jt. <u>✓ 50⁰⁰</u>
(E) Second Initial Flow Pressure	<u>124</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>198</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1314</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1871</u> 1871 PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
		Final Flow <u>60</u>	Shale Packer <u>✓ 150⁰⁰</u>
		Final Shut-In <u>120</u>	Mileage _____
		T-On Location <u>1951</u>	Sub Total: <u>1050⁰⁰</u>
		T-Started <u>2001</u>	Std. By <u>30</u>
		T-Open <u>2143</u>	Other _____
		T-Pulled <u>0218</u>	Total: <u>✓ 1080⁰⁰</u>
		T-Out <u>0427</u>	

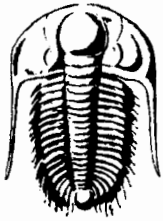
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Approved By Paul Gungelman
 Our Representative Gay Pivotaux

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18708

05/03

Test Ticket

Well Name & No. Cox # 1-30 Test No. 7 Date 1-21-04
 Company Murphy Dely. Co. Inc. Zone Tested Miss.
 Address Wichita Ks. 67202 Elevation 1603 KB 1598 GL
 Co. Rep / Geo. Paul Gungelman Cont. Mellard JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27^s Rge. 7^w Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3988 - 3998' Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs. 50,000
 Anchor Length 10' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 3983' Tool Weight 2100^{lb}
 Bottom Packer Depth 3988' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3998' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.4 LCM ~ Vis. 45 WL 10.6cc Drill Pipe Size 4 1/2" Ft. Run 3735'
 Blow Description IF Packers failed. Picked up and re-set. Packers failed. Mission!

Recovery - Total Feet 250 GIP 0 Ft. in DC 248 Ft. in DP 2
 Rec. 250 Feet of Dely Mud %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 109 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API _____
 RW N.C. @ _____ °F Chlorides 5,000 ppm Recovery _____ Chlorides 5,000 ppm System _____

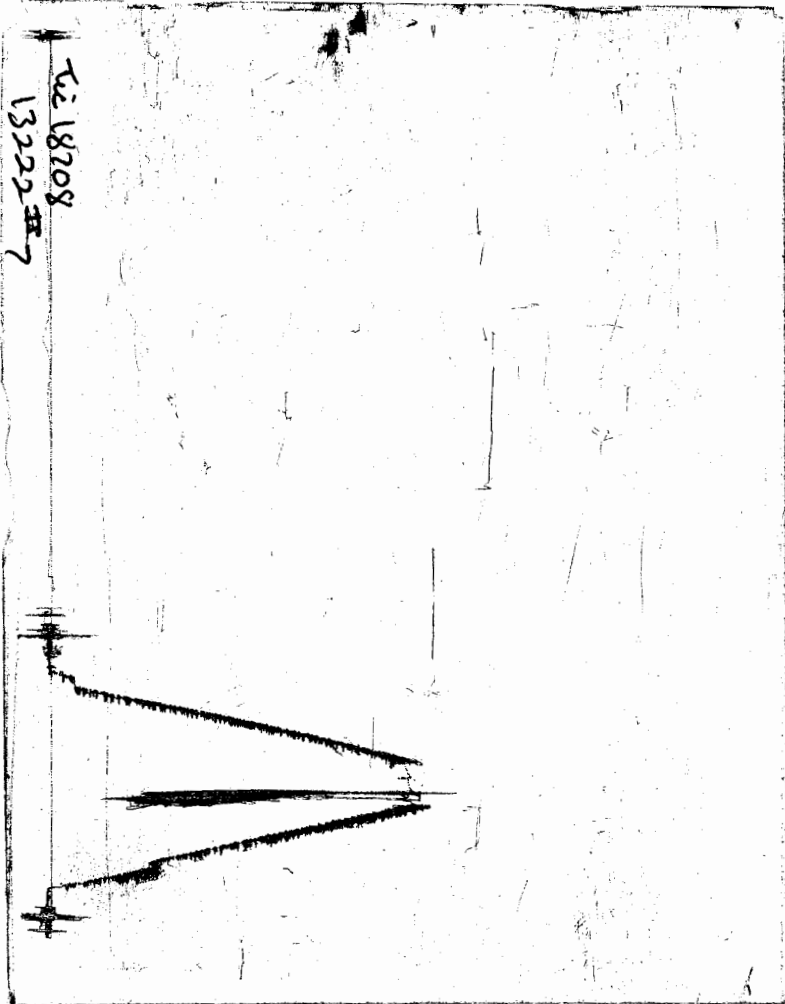
	AK-1	Alpine	Recorder No.		
(A) Initial Hydrostatic Mud		<u>1916</u> PSI	<u>6755</u>	Test <u>Mission</u> ✓	<u>500</u>
(B) First Initial Flow Pressure		PSI	<u>3989'</u>	Elec. Rec. ✓	<u>150</u>
(C) First Final Flow Pressure		PSI	<u>13222</u>	Jars	
(D) Initial Shut-In Pressure		PSI	<u>3993'</u>	Safety Jt. ✓	<u>50</u>
(E) Second Initial Flow Pressure		PSI	_____	Circ Sub	
(F) Second Final Flow Pressure		PSI	_____	Sampler	
(G) Final Shut-In Pressure		PSI	<u>Initial Opening</u>	Straddle	
(Q) Final Hydrostatic Mud		<u>1901</u> PSI	<u>Initial Shut-In</u>	Ext. Packer	
			<u>Final Flow</u>	Shale Packer	
			<u>Final Shut-In</u>	Mileage ✓	<u>40</u>
			<u>T-On Location</u>	Sub Total:	
			<u>T-Started</u>	Std. By	
			<u>T-Open</u>	Other	
			<u>T-Pulled</u>	Total: ✓	<u>740⁰⁰</u>
			<u>T-Out</u>		<u>740⁰⁰</u>

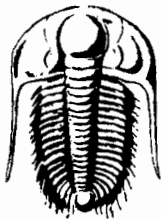
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Approved By Paul Gungelman
 Our Representative Cory Buntz

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18709

05/03

Test Ticket

Well Name & No. Cod # 1-30 Test No. 8 Date 1-21-04
 Company Murfin Drilling Co. Inc. Zone Tested Miss.
 Address Wichita Ks 67202 Elevation 1603 KB 1598 GL
 Co. Rep / Geo. Paul Gungelman Cont. Mallard JV Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 27S Rge. 7W Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3868 - 3998' Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 52,000
 Anchor Length 130' Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 64,000
 Top Packer Depth 3863' Tool Weight 2100#
 Bottom Packer Depth 3868' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3998' Wt. Pipe Run None Drill Collar Run 248'

Mud Wt. 9.4 LCM ~ Vis. 60 WL 96cc Drill Pipe Size 4 1/2" Ft. Run 3609'

Blow Description IF: Strong below. B.O.B. in 40 secs. GTS in 17 mins.

(see gas volume report) ISI: No blow.

FE: Strong blow. (see gas volume report) FSI: Weak blow. 1/4".

COMMENT: slid tool 6-7 ft. to btm.

Recovery - Total Feet 576' GIP yes Ft. in DC 248 Ft. in DP 328'

Rec. 576 Feet of GCM approx 20% %gas %oil %water 80 %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

BHT 121 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API

RW N.C. @ _____ °F Chlorides 5,000 ppm Recovery _____ Chlorides 5,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1900</u> PSI		<u>6755</u>	<u>✓ 700°</u>
(B) First Initial Flow Pressure	<u>124</u> PSI		<u>3869'</u>	<u>✓ 150°</u>
(C) First Final Flow Pressure	<u>155</u> PSI		<u>13222</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1315</u> PSI		<u>3993'</u>	Safety Jt. <u>✓ 50°</u>
(E) Second Initial Flow Pressure	<u>143</u> PSI		<u>~</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>235</u> PSI		<u>~</u>	Sampler _____
(G) Final Shut-In Pressure	<u>1314</u> PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1861</u> PSI	Initial Shut-In	<u>60</u>	Ext. Packer _____
		Final Flow	<u>60</u>	Shale Packer _____
		Final Shut-In	<u>120</u>	Mileage <u>N.C.</u>
		T-On Location	<u>N/A</u>	Sub Total: <u>900°</u>
		T-Started	<u>1459</u>	Std. By <u>60°</u>
		T-Open	<u>1636</u>	Other _____
		T-Pulled	<u>2108</u>	Total: <u>✓ 960°</u>
		T-Out	<u>2342</u>	

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Approved By Paul Gungelman

Our Representative Guy Revolutions

CHART PAGE

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