

15-039-20933

KCC
APR 07 2005
CONFIDENTIAL



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

13-3N-27W Decatur

Sayles #1-13

Start Date: 2004.12.31 @ 22:45:03

End Date: 2005.01.01 @ 08:12:03

Job Ticket #: 20404 DST #: 1

RECEIVED
APR 08 2005
KCC WICHITA

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

Murfin Drilling Company

Sayles #1-13

13-3N-27W Decatur

DST # 1

Toronto - Lans "A"

2004.12.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

ATTN: Terry McLeod

Job Ticket: 20404

DST#: 1

Test Start: 2004.12.31 @ 22:45:03

GENERAL INFORMATION:

Formation: Toronto - Lans "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:35:48

Time Test Ended: 08:12:03

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 3574.00 ft (KB) To 3635.00 ft (KB) (TVD)

Total Depth: 3635.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2678.00 ft (KB)

2673.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 708.01 psig @ 3575.00 ft (KB)

Start Date: 2004.12.31

End Date:

2005.01.01

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 22:45:08

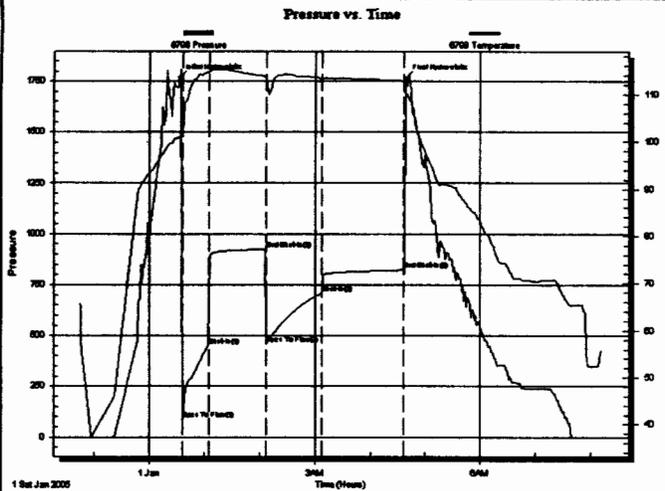
End Time:

08:12:03

Time On Btrr: 2005.01.01 @ 00:32:33

Time Off Btrr: 2005.01.01 @ 04:38:18

TEST COMMENT: F; Strong blow off btm in 3 mins
IS; Weak to fair built to 7"
FF; Strong blow off btm in 3 mins
FS; Weak to fair off bttm in 75 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.73	100.86	Initial Hydro-static
4	85.72	101.30	Open To Flow (1)
33	450.79	114.67	Shut-In(1)
95	923.58	113.85	End Shut-In(1)
95	459.89	113.49	Open To Flow (2)
155	708.01	113.44	Shut-In(2)
244	822.94	112.88	End Shut-In(2)
246	1765.82	109.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM 40%o 60% m	0.89
1730.00	SGO 10%g 95%o	21.55

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

Job Ticket: 20404

DST#: 1

ATTN: Terry McLeod

Test Start: 2004.12.31 @ 22:45:03

Tool Information

Drill Pipe:	Length: 3097.00 ft	Diameter: 3.80 inches	Volume: 43.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 478.00 ft	Diameter: 2.25 inches	Volume: 2.35 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3574.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3553.00	
Hydraulic tool	5.00			3558.00	
Jars	5.00			3563.00	
Safety Joint	2.00			3565.00	
Packer	5.00			3570.00	26.00 Bottom Of Top Packer
Packer	4.00			3574.00	
Stubb	1.00			3575.00	
Recorder	0.00	6798	Inside	3575.00	
Perforations	21.00			3596.00	
Change Over Sub	1.00			3597.00	
Anchor	32.00			3629.00	
Change Over Sub	1.00			3630.00	
Recorder	0.00	13309	Outside	3630.00	
Bullnose	5.00			3635.00	61.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

Job Ticket: 20404

DST#: 1

ATTN: Terry McLeod

Test Start: 2004.12.31 @ 22:45:03

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	21 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

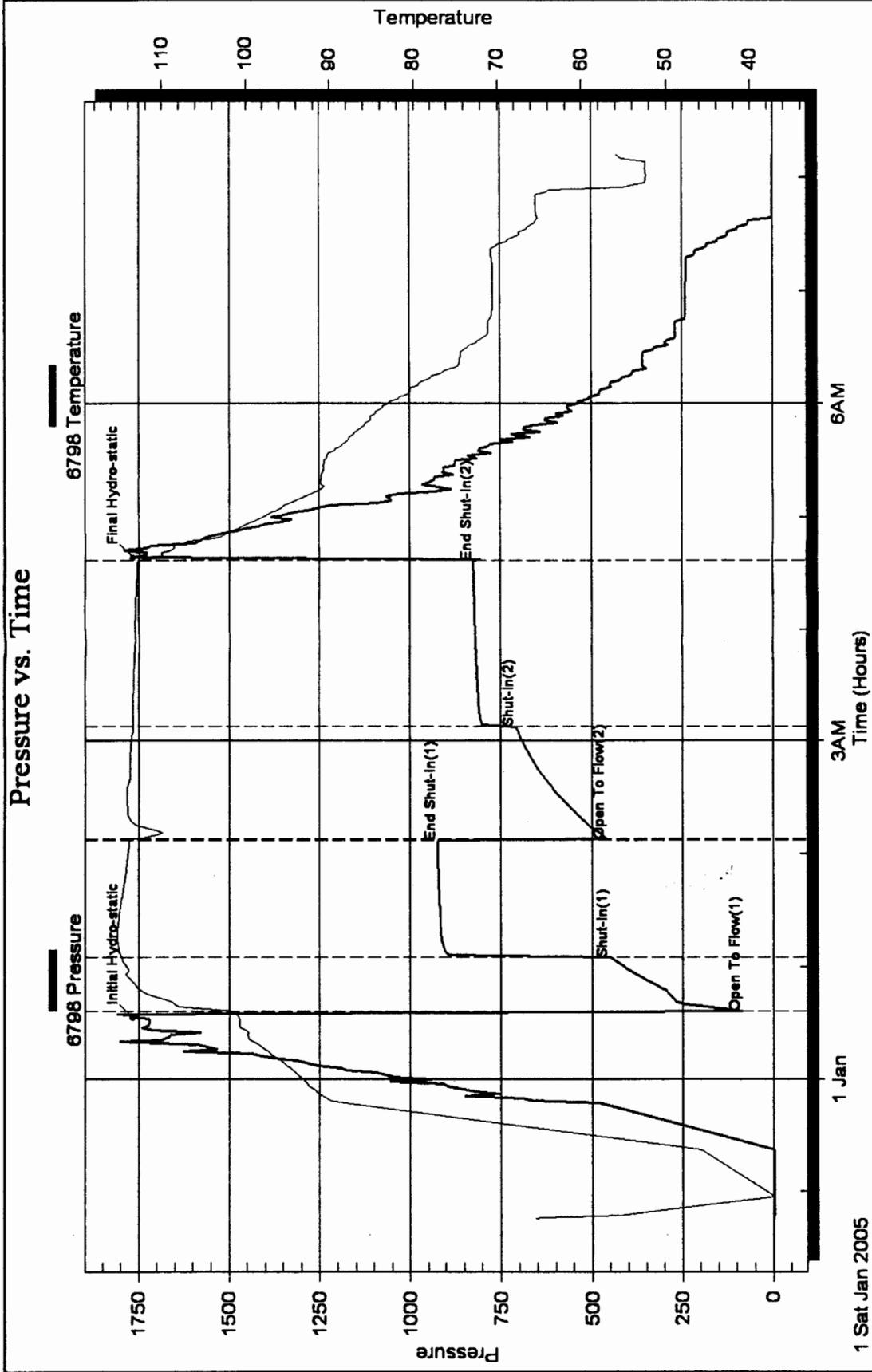
Length ft	Description	Volume bbl
180.00	OCM 40%o 60%m	0.885
1730.00	SGO 10%g 95%o	21.553

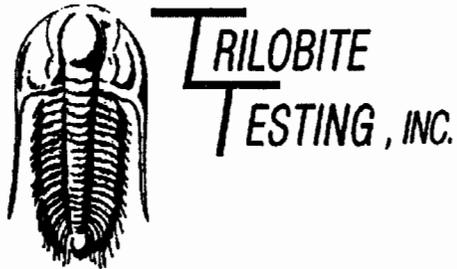
Total Length: 1910.00 ft Total Volume: 22.438 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

13-3N-27W Decatur

Sayles #1-13

Start Date: 2005.01.01 @ 14:05:54

End Date: 2005.01.01 @ 21:26:24

Job Ticket #: 20405 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Sayles #1-13

13-3N-27W Decatur

DST # 2

Lans. "B"

2005.01.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Sayles #1-13

13-3N-27W Decatur

Job Ticket: 20405

DST#: 2

Test Start: 2005.01.01 @ 14:05:54

GENERAL INFORMATION:

Formation: Lans. "B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:24

Time Test Ended: 21:26:24

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 3631.00 ft (KB) To 3655.00 ft (KB) (TVD)

Total Depth: 3655.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2678.00 ft (KB)

2673.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 343.74 psig @ 3632.00 ft (KB)

Start Date: 2005.01.01

End Date:

2005.01.01

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 14:05:59

End Time:

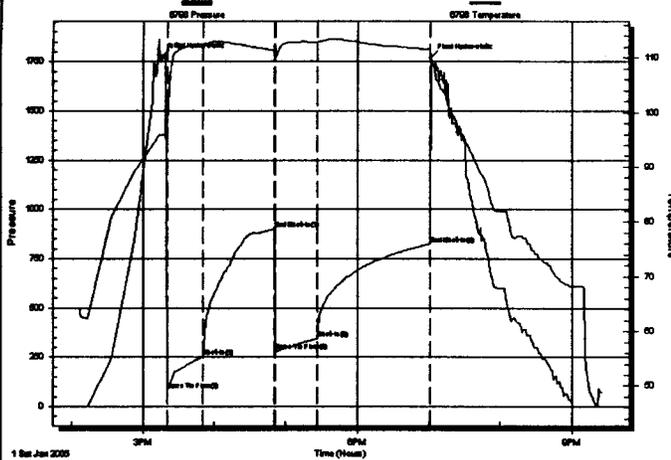
21:26:23

Time On Btm: 2005.01.01 @ 15:16:09

Time Off Btm: 2005.01.01 @ 19:01:09

TEST COMMENT: IF; Strong blow off btm in 2 mins
IS; Fair return off btm in 10 mins
FF; Strong blow off btm in 4 mins
FS; Fair return off btm in 20 mins

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.38	95.94	Initial Hydro-static
5	81.07	97.47	Open To Flow (1)
35	251.62	112.54	Shut-In(1)
95	899.74	111.33	End Shut-In(1)
96	279.08	110.57	Open To Flow (2)
131	343.74	112.92	Shut-In(2)
224	825.18	111.56	End Shut-In(2)
225	1769.90	110.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM 10%g 40%o 50%r	0.89
720.00	OO 15%g 85%o	7.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

Job Ticket: 20405

DST#: 2

ATTN: Terry McLeod

Test Start: 2005.01.01 @ 14:05:54

Tool Information

Drill Pipe:	Length: 3160.00 ft	Diameter: 3.80 inches	Volume: 44.33 bbl	Tool Weight: 2000.00 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: 478.00 ft	Diameter: 2.25 inches	Volume: 2.35 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3631.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3615.00	
Hydraulic tool	5.00			3620.00	
Safety Joint	2.00			3622.00	
Packer	5.00			3627.00	21.00 Bottom Of Top Packer
Packer	4.00			3631.00	
Stubb	1.00			3632.00	
Recorder	0.00	6798	Inside	3632.00	
Perforations	18.00			3650.00	
Recorder	0.00	13309	Outside	3650.00	
Bullnose	5.00			3655.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company
250 N Water Ste 300
Wichita KS 67202
ATTN: Terry McLeod

Sayles #1-13
13-3N-27W Decatur
Job Ticket: 20405 DST#: 2
Test Start: 2005.01.01 @ 14:05:54

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

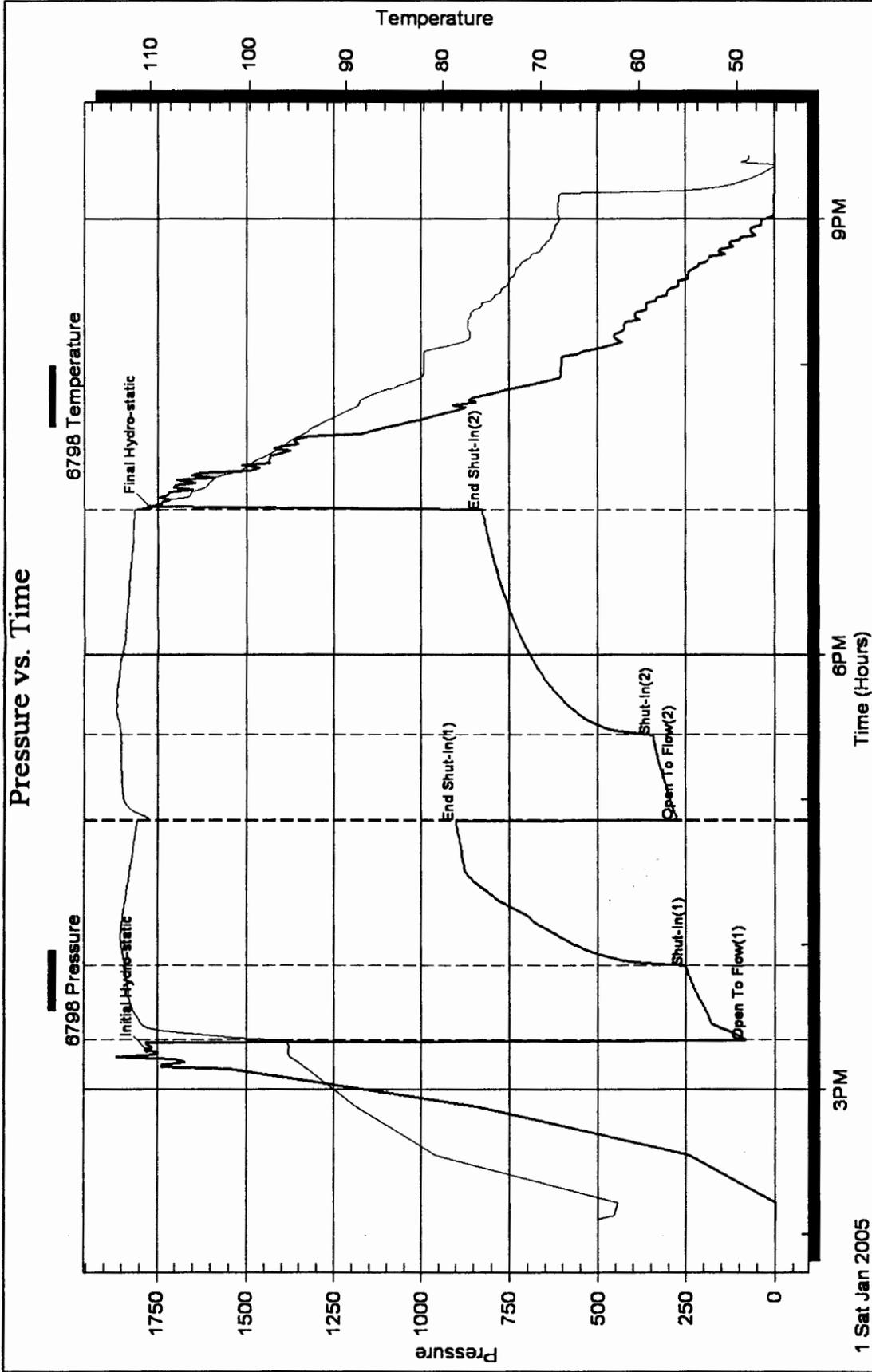
Recovery Table

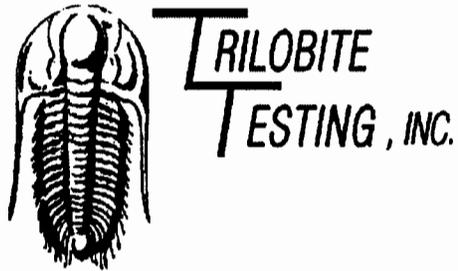
Length ft	Description	Volume bbl
180.00	OCM 10%g 40%o 50%m	0.885
720.00	CO 15%g 85%o	7.385

Total Length: 900.00 ft Total Volume: 8.270 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

13-3N-27W Decatur

Sayles #1-13

Start Date: 2005.01.02 @ 15:00:24

End Date: 2005.01.02 @ 23:23:24

Job Ticket #: 20406 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Sayles #1-13

13-3N-27W Decatur

DST # 3

Lans. " D - G "

2005.01.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

ATTN: Terry McLeod

Job Ticket: 20406

DST#: 3

Test Start: 2005.01.02 @ 15:00:24

GENERAL INFORMATION:

Formation: Lans. " D - G "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:54

Time Test Ended: 23:23:24

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 3659.00 ft (KB) To 3716.00 ft (KB) (TVD)

Total Depth: 3716.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2678.00 ft (KB)

2673.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 666.09 psig @ 3660.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.01.02

End Date:

2005.01.02

Last Calib.: 1899.12.30

Start Time: 15:00:29

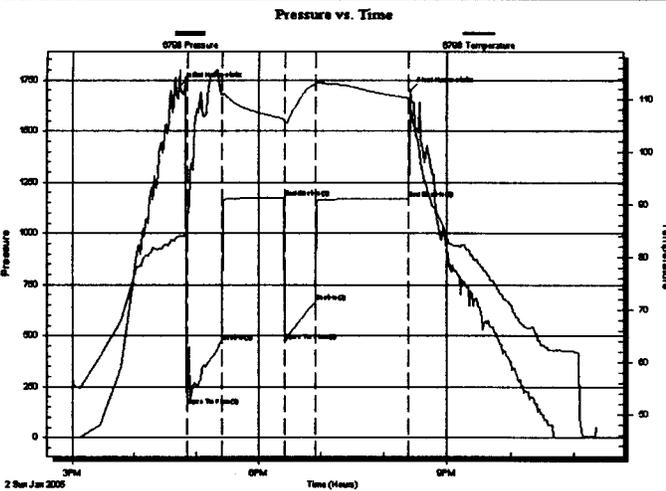
End Time:

23:23:23

Time On Btm: 2005.01.02 @ 16:44:09

Time Off Btm: 2005.01.02 @ 20:25:09

TEST COMMENT: IF; Strong blow off btm in 3 mins
IS; Fair blow off btm in 15 mins
FF; Strong blow off btm in 3 mins
FS; Fair blow off btm in 10 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.23	83.95	Initial Hydro-static
7	155.78	84.57	Open To Flow (1)
41	470.73	111.00	Shut-In(1)
101	1174.74	106.22	End Shut-In(1)
102	472.81	105.90	Open To Flow (2)
131	666.09	112.95	Shut-In(2)
220	1170.31	110.24	End Shut-In(2)
221	1695.78	108.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1740.00	CGO 10%g 90%o	20.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

Job Ticket: 20406

DST#: 3

ATTN: Terry McLeod

Test Start: 2005.01.02 @ 15:00:24

Tool Information

Drill Pipe:	Length: 3183.00 ft	Diameter: 3.80 inches	Volume: 44.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 478.00 ft	Diameter: 2.25 inches	Volume: 2.35 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3659.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3643.00	
Hydraulic tool	5.00			3648.00	
Safety Joint	2.00			3650.00	
Packer	5.00			3655.00	21.00 Bottom Of Top Packer
Packer	4.00			3659.00	
Stubb	1.00			3660.00	
Recorder	0.00	6798	Inside	3660.00	
Perforations	20.00			3680.00	
Change Over Sub	1.00			3681.00	
Anchor	31.00			3712.00	
Change Over Sub	1.00			3713.00	
Recorder	0.00	13309	Outside	3713.00	
Bullnose	5.00			3718.00	59.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wchita KS 67202

13-3N-27W Decatur

Job Ticket: 20406

DST#: 3

ATTN: Terry McLeod

Test Start: 2005.01.02 @ 15:00:24

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34.5 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1740.00	CGO 10%g 90%o	20.053

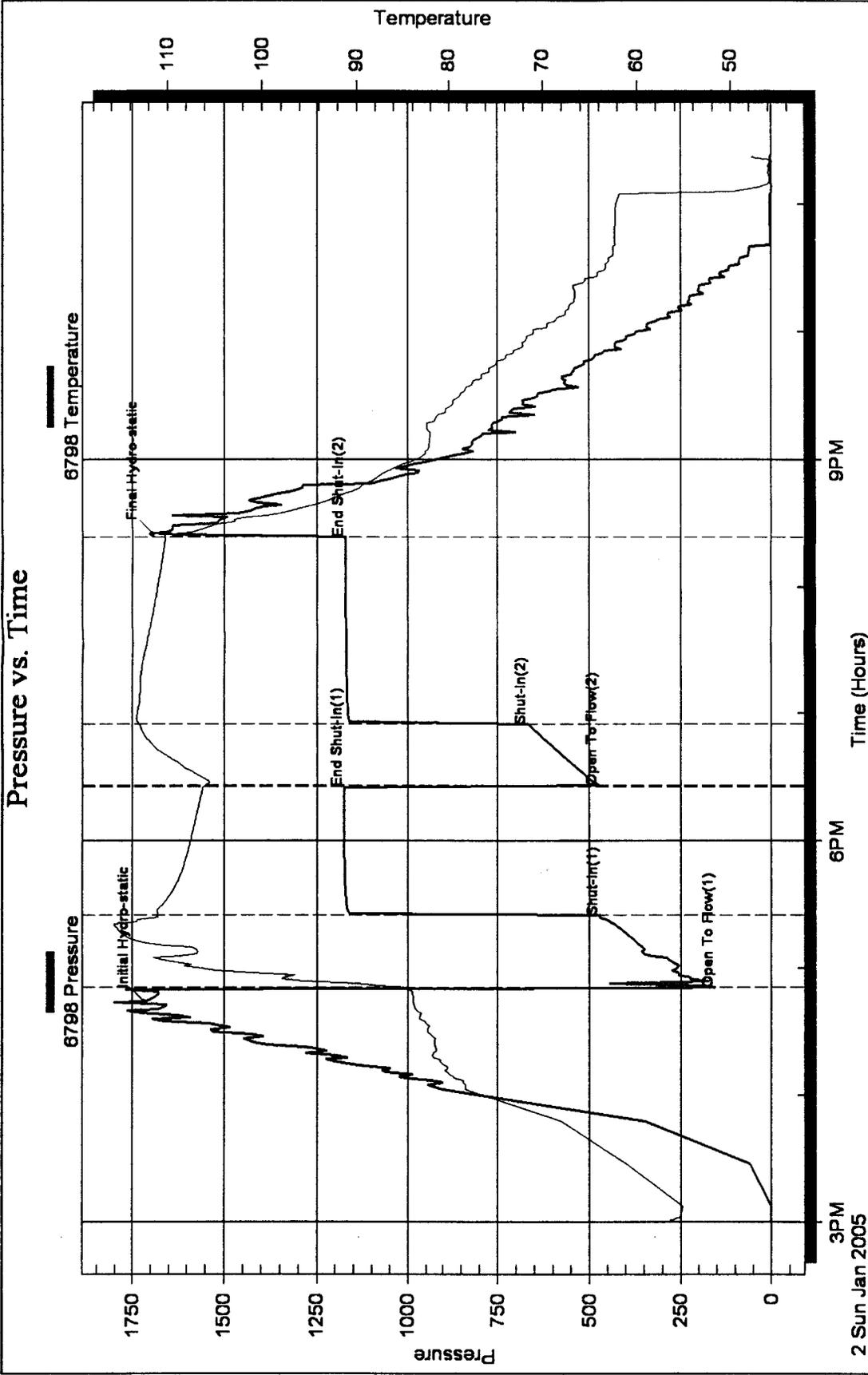
Total Length: 1740.00 ft Total Volume: 20.053 bbl

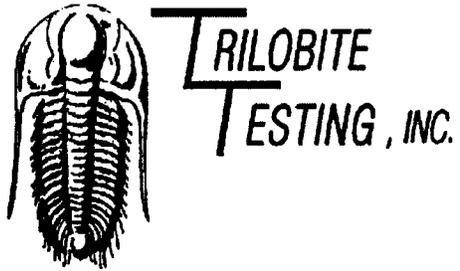
Num Fluid Samples: 0 Num Gas Borbs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

13-3N-27W Decatur

Sayles #1-13

Start Date: 2005.01.03 @ 11:52:26

End Date: 2005.01.03 @ 21:57:56

Job Ticket #: 20407 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Sayles #1-13

13-3N-27W Decatur

DST # 4

L/KC "H-K"

2005.01.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Sayles #1-13

13-3N-27W Decatur

Job Ticket: 20407

DST#: 4

Test Start: 2005.01.03 @ 11:52:26

GENERAL INFORMATION:

Formation: L/KC "H - K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:31:26

Time Test Ended: 21:57:56

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 3713.00 ft (KB) To 3806.00 ft (KB) (TVD)

Total Depth: 3806.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2678.00 ft (KB)

2673.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 1164.67 psig @ 3714.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.01.03

End Date: 2005.01.03

Last Calib.: 1899.12.30

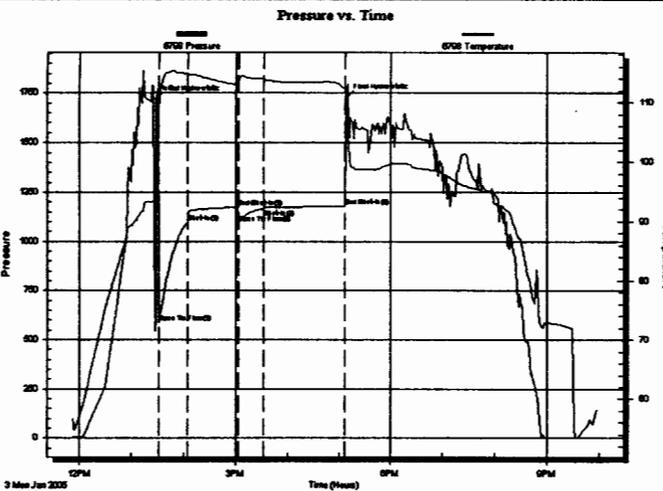
Start Time: 11:52:31

End Time: 21:57:56

Time On Btm: 2005.01.03 @ 13:28:56

Time Off Btm: 2005.01.03 @ 17:08:11

TEST COMMENT: IF; Strong blow off btm in 1 min
 IS; Fair return off btm in 10 mins
 FF; Strong blow off btm in 1 min
 FSI; Fair return off btm in 7 mins (GTS in 20 mins)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.96	106.39	Initial Hydro-static
3	585.66	105.30	Open To Flow (1)
36	1095.56	114.83	Shut-In(1)
94	1171.19	112.93	End Shut-In(1)
95	1091.31	112.84	Open To Flow (2)
123	1164.67	114.01	Shut-In(2)
218	1175.84	112.34	End Shut-In(2)
220	1728.55	105.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3390.00	CGO 15%g 85%o Reversed Out	43.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

Job Ticket: 20407

DST#: 4

ATTN: Terry McLeod

Test Start: 2005.01.03 @ 11:52:26

Tool Information

Drill Pipe:	Length: 3218.00 ft	Diameter: 3.80 inches	Volume: 45.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 478.00 ft	Diameter: 2.25 inches	Volume: 2.35 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3713.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3697.00	
Hydraulic tool	5.00			3702.00	
Safety Joint	2.00			3704.00	
Packer	5.00			3709.00	21.00 Bottom Of Top Packer
Packer	4.00			3713.00	
Stubb	1.00			3714.00	
Recorder	0.00	6798	Inside	3714.00	
Perforations	21.00			3735.00	
Change Over Sub	1.00			3736.00	
Anchor	62.00			3798.00	
Change Over Sub	1.00			3799.00	
Recorder	0.00	13309	Outside	3799.00	
Bullnose	5.00			3804.00	91.00 Bottom Packers & Anchor

Total Tool Length: 112.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Sayles #1-13

250 N Water Ste 300
Wichita KS 67202

13-3N-27W Decatur

Job Ticket: 20407

DST#: 4

ATTN: Terry McLeod

Test Start: 2005.01.03 @ 11:52:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 99.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3390.00	CGO 15%g 85%o Reversed Out	43.198

Total Length: 3390.00 ft

Total Volume: 43.198 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

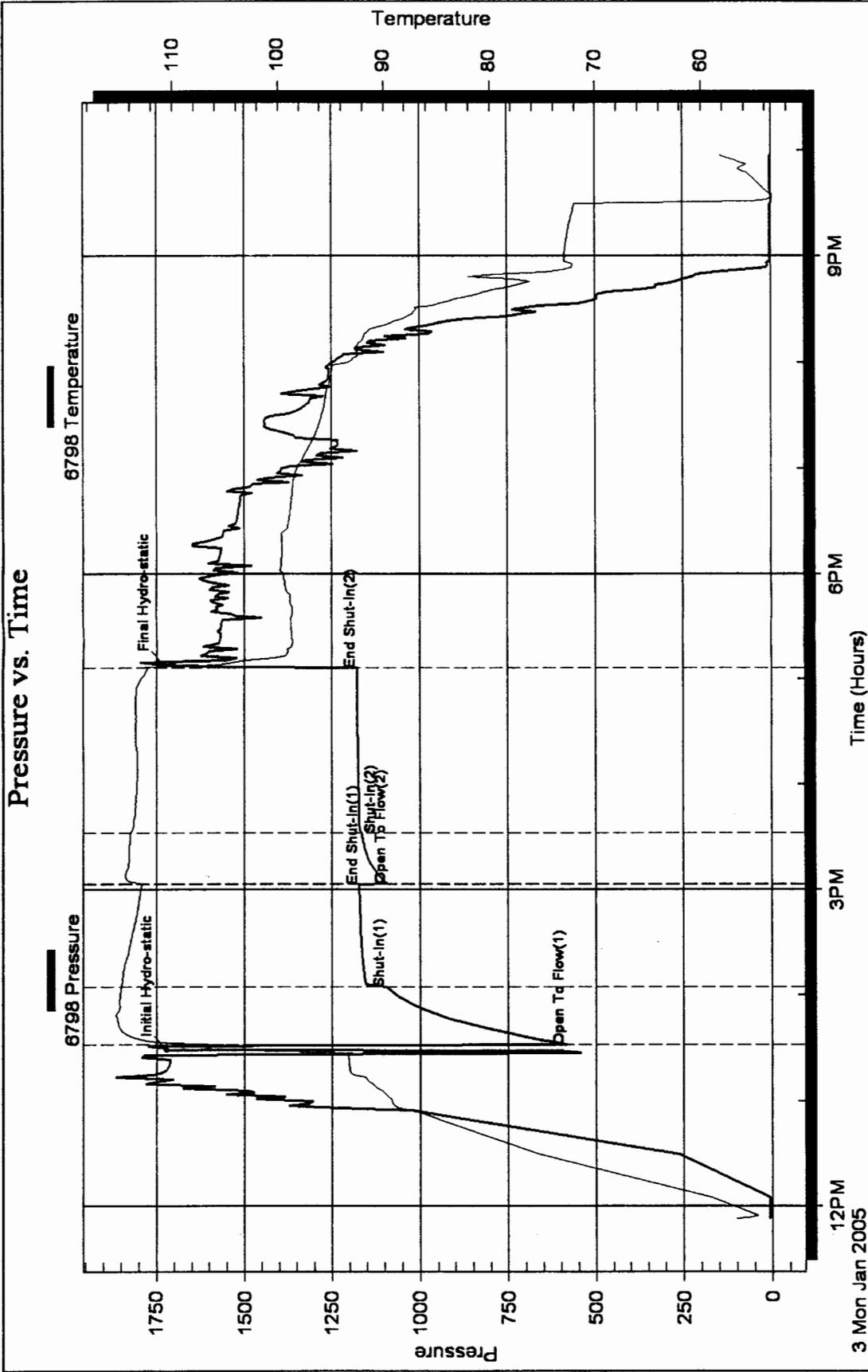
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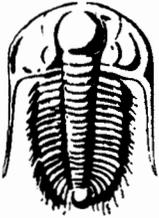
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20404

05/03

Test Ticket

Well Name & No. Sayles # 1-13 Test No. 1 Date 12-31-04
 Company Murfin Drilling Company Inc. Zone Tested Toronto / Lans. A'
 Address 250 N. Water Ste 300 Wichita, KS. 67202 Elevation 2678 KB 2673 GL
 Co. Rep / Geo. Terry McLeod Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 13 Twp. 3^N Rge. 27^W Co. Decatur State KS.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3574 - 3635 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 56,000
 Anchor Length 61' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 3569 Tool Weight 2,500
 Bottom Packer Depth 3574 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3635 Wt. Pipe Run _____ Drill Collar Run 478'
 Mud Wt. 9.2 LCM _____ Vis. 49 WL 7.6 Drill Pipe Size 4 1/2" XH Ft. Run 3097'

Blow Description IF: Strong off bttm in 3 mins.
ISI: Weak to fair built to 7"
FF: Strong off bttm in 3 mins.
FSI: Weak to fair off bttm in 15 mins.

Recovery - Total Feet 1910' GIP - Ft. in DC 478' Ft. in DP 1432'

Rec.	Feet of	%gas	%oil	%water	%mud
<u>1730'</u>	<u>560</u>	<u>10</u>	<u>90</u>		
<u>180'</u>	<u>DCM</u>	<u>40</u>			<u>60</u>

 BHT 112° °F Gravity 21 °API D @ 60° °F Corrected Gravity 21 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1765</u>	PSI	<u>6798</u>	
(B) First Initial Flow Pressure	<u>85</u>	PSI	(depth) <u>3575</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>450</u>	PSI	Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure	<u>923</u>	PSI	(depth) <u>3630</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure	<u>459</u>	PSI	Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure	<u>708</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>822</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1765</u>	PSI	Initial Shut-In <u>60</u>	Ext. Packer _____

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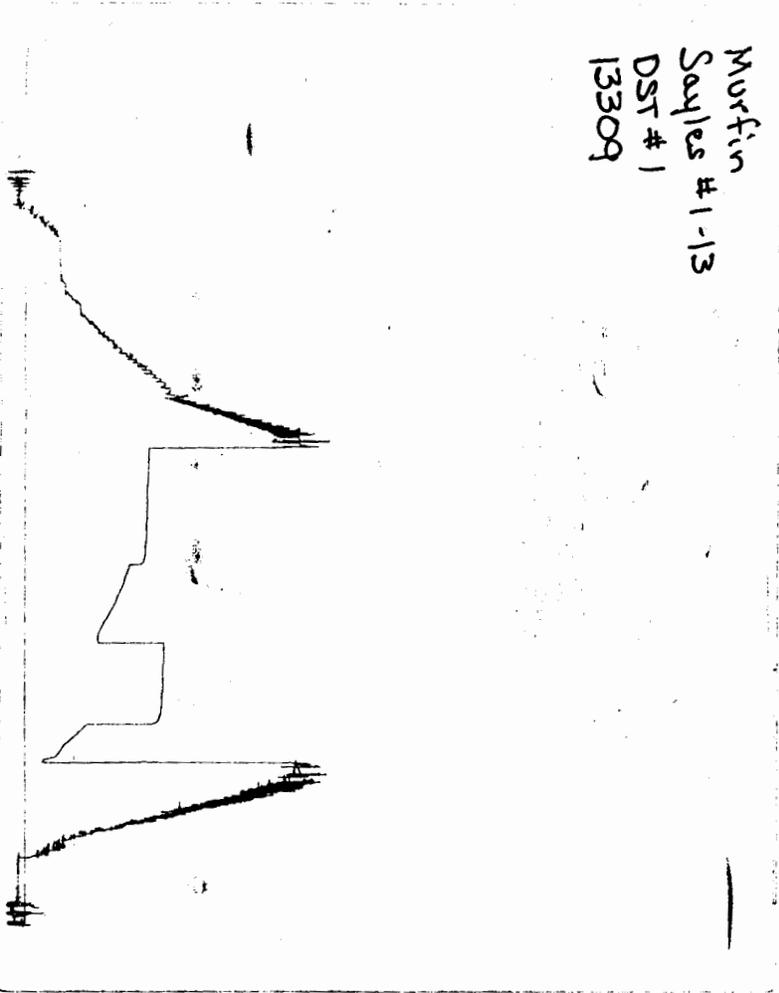
Approved By Terry McLeod
 Our Representative Rod Steinbrink

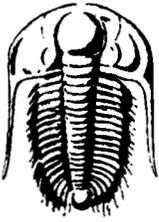
Final Flow 60 Shale Packer _____
 Final Shut-In 90 Mileage 1 way 123
 T-On Location 2200 Sub Total: _____
 T-Started 2245 Std. By _____
 T-Open 0035 1-1-05 Other _____
 T-Pulled 0436 Total: _____
 T-Out 0812

CHART PAGE

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

Murfin
Samples # 1-13
DST # 1
13309





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20405

05/03

Test Ticket

Well Name & No. Sayles #1-13 Test No. 2 Date 1-1-05
 Company Murfin Drilling Company Inc. Zone Tested Lans 'B'
 Address 250 N. Water Ste 300 Wichita, KS. 67202 Elevation 2678 KB 2673 GL
 Co. Rep / Geo. Terry McLeod Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. B Twp. 3^N Rge. 27^W Co. Decatur State KS.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3631 - 3655 Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs. 54,000
 Anchor Length 24' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3626 Tool Weight 2,000
 Bottom Packer Depth 3631 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3655 Wt. Pipe Run — Drill Collar Run 478'
 Mud Wt. 9.1 LCM — Vis. 50 WL 6.0 Drill Pipe Size 4 1/2" XH Ft. Run 3160'
 Blow Description IF: Strong blow off btm 2 mins.
ISI: Fair return off btm 10 mins.
FF: Strong blow off btm 4 mins.
FSI: Fair return off btm 20 mins.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>900'</u>		<u>478'</u>	<u>422'</u>
Rec. _____ Feet of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. <u>720'</u> Feet of <u>CO</u>	<u>15</u> %gas <u>85</u> %oil _____ %water _____ %mud _____		
Rec. _____ Feet of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. <u>180'</u> Feet of <u>DCM</u>	<u>10</u> %gas <u>40</u> %oil _____ %water <u>50</u> %mud _____		
Rec. _____ Feet of _____	%gas _____ %oil _____ %water _____ %mud _____		
BHT <u>111°</u> °F Gravity <u>34</u> °API D @ <u>40°</u> °F Corrected Gravity <u>36</u> °API			
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides <u>900</u> ppm System			

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1777</u> PSI		<u>6798</u>	
(B) First Initial Flow Pressure	<u>81</u> PSI		(depth) <u>3632</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>251</u> PSI		Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure	<u>899</u> PSI		(depth) <u>3650</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure	<u>279</u> PSI		Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure	<u>343</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>825</u> PSI	Initial Opening <u>30</u>		Straddle _____
(Q) Final Hydrostatic Mud	<u>1769</u> PSI	Initial Shut-In <u>60</u>		Ext. Packer _____
		Final Flow <u>30</u>		Shale Packer _____
		Final Shut-In <u>90</u>		Mileage <u>1 way 16</u>
		T-On Location <u>1345</u>		Sub Total: _____
		T-Started <u>1405</u>		Std. By _____
		T-Open <u>1520</u>		Other _____
		T-Pulled <u>1900</u>		Total: _____
		T-Out <u>2126</u>		

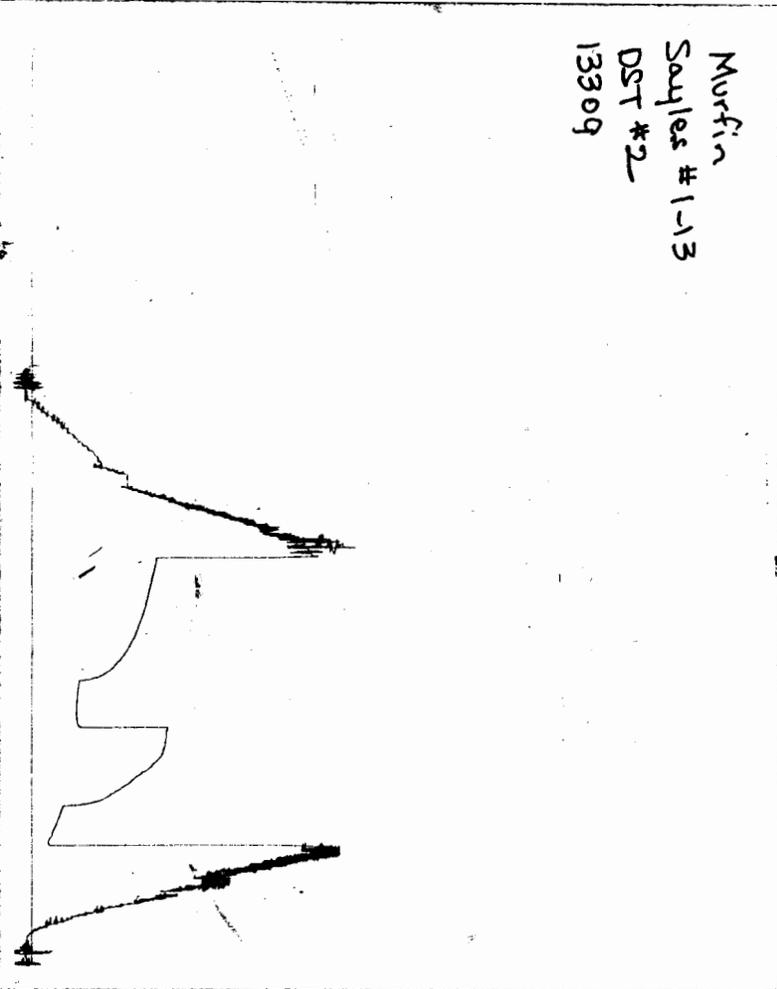
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Approved By Jay L McLeod

Our Representative Rod Steinbrink

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

Murfin
Samples # 1-13
DST # 2
13309





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20406

05/03

Test Ticket

Well Name & No. Sayles #1-13 Test No. 3 Date 1-2-05
 Company Murfin Drilling Company Inc. Zone Tested Lans D-G
 Address 250 N. Water Ste 300 Wichita, KS. 67202 Elevation 2678 KB 2673 GL
 Co. Rep / Geo. Terry McLead Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 13 Twp. 3^N Rge. 27^W Co. Decatur State KS.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3659-3716 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length 57' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3654 Tool Weight 2,500
 Bottom Packer Depth 3659 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3716 Wt. Pipe Run — Drill Collar Run 478'
 Mud Wt. 9.0 LCM 2* Vis. 49 WL 6.8 Drill Pipe Size 4 1/2" XH Ft. Run 318*
 Blow Description IF: Strong blow off bttm 3 mins.
IS: Fair return off bttm 15 mins.
FF: Strong blow off bttm 3 mins.
FS: Fair return off bttm 10 mins.

Recovery - Total Feet 1740' GIP — Ft. in DC 478' Ft. in DP 1258'
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. 1740' Feet of CGO 10 %gas 90 %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 110° °F Gravity 32 °API D @ 45° °F Corrected Gravity 34.5 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1719</u>	PSI	<u>6798</u>	
(B) First Initial Flow Pressure	<u>155</u>	PSI	(depth) <u>3660</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>470</u>	PSI	Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1174</u>	PSI	(depth) <u>3711</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure	<u>472</u>	PSI	Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure	<u>666</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1170</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1695</u>	PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>1 way 15</u>
			T-On Location <u>1430</u>	Sub Total: _____
			T-Started <u>1500</u>	Std. By _____
			T-Open <u>1650</u>	Other _____
			T-Pulled <u>2023</u>	Total: _____
			T-Out <u>2323</u>	

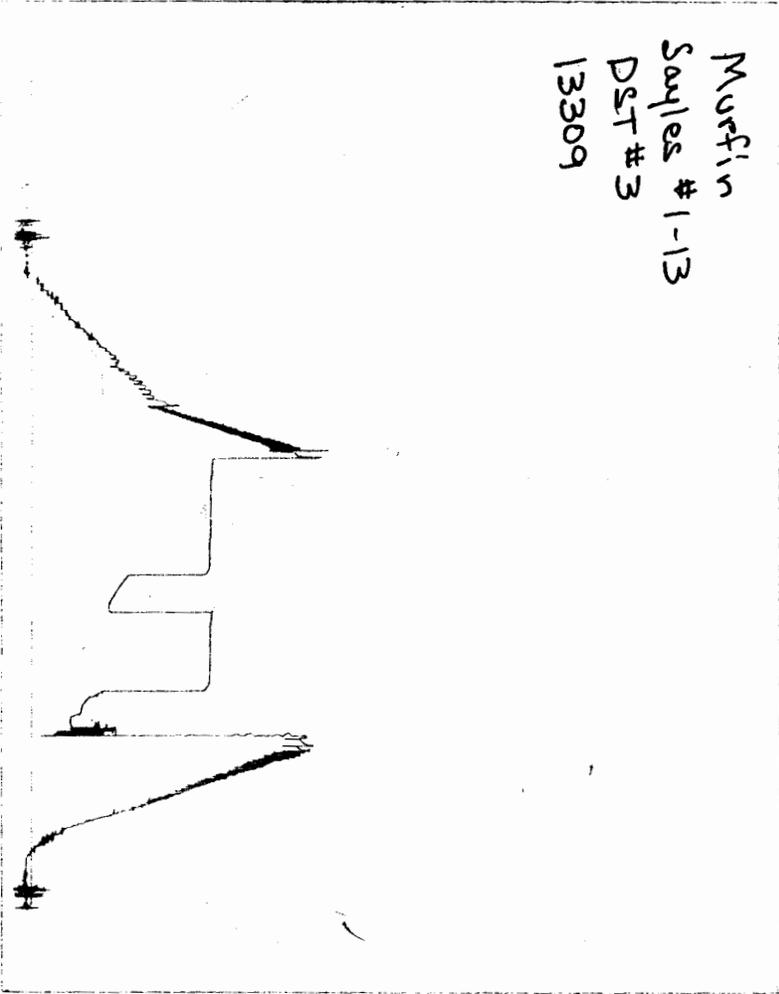
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Approved By Terry McLead
 Our Representative Rod Steinbrink

CHART PAGE

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Murfin
Soyles # 1-13
DST # 3
13309





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20407

5/03

Test Ticket

Well Name & No. Sayles # 1-13 Test No. 4 Date 1-3-05
 Company Murfin Drilling Company Inc. Zone Tested Lans/KC. H-K
 Address 250 N. Market Ste 300 Wichita, KS. 67202 Elevation 2678 KB 2673 GL
 Co. Rep / Geo. Terry McLeod Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 13 Twp. 3^N Rge. 27^W Co. Decatur State KS.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3713 - 3806 Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs. 60,000
 Anchor Length 93 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 3708 Tool Weight 2,500
 Bottom Packer Depth 3713 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3806 Wt. Pipe Run — Drill Collar Run 478'
 Mud Wt. 8.8 LCM 10[#] Vis. 67 WL 7.2 Drill Pipe Size 4 1/2" XH Ft. Run 3218'
 Blow Description IF: Strong blow off bttm 1 min.
IS1: Fair return off bttm 10 mins.
FF: Strong blow off bttm 1 min.
FS1: Fair return off bttm 7 mins. GTS @ 20 mins.

Recovery - Total Feet 3390' GIP on FS1 Ft. in DC 478' Ft. in DP 2912'
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. 3390' Feet of CGO 15 %gas 85 %oil _____ %water _____ %mud
 Rec. _____ Feet of Reversed Out %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of 43.2 bbls. %gas _____ %oil _____ %water _____ %mud
 BHT 112° °F Gravity 33 °API D @ 55° °F Corrected Gravity 33.5 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1719</u> PSI	<u>6798</u>	
(B) First Initial Flow Pressure		<u>585</u> PSI	(depth) <u>3714</u>	Elec. Rec. _____
(C) First Final Flow Pressure		<u>1095</u> PSI	Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure		<u>1171</u> PSI	(depth) <u>3801</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure		<u>1091</u> PSI	Recorder No. _____	Circ Sub <u>X</u> <u>35°</u>
(F) Second Final Flow Pressure		<u>1164</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>1175</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1728</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>1 way</u>
			T-On Location <u>1130</u>	Sub Total: _____
			T-Started <u>1152</u>	Std. By _____
			T-Open <u>1331</u>	Other _____
			T-Pulled <u>1706</u>	Total: _____
			T-Out <u>2157</u>	

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Approved By Jay D. McLeod
 Our Representative Rod Steinbrink

CHART PAGE

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Morfin
Samples #1-13
DST #4
13309

