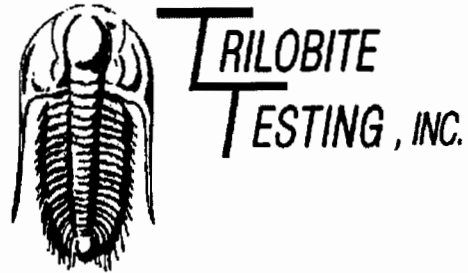


15-023-20599

34-2s-41w



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N, Water, Suite 300
Wichita, Ks 67202

ATTN: Paul Gunzelman

34-2-41 Cheyenne

Harvey 1-34

Start Date: 2004.10.16 @ 13:14:18

End Date: 2004.10.16 @ 22:24:07

Job Ticket #: 19327 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc
 250 N. Water, Suite 300
 Wichita, Ks 67202
 ATTN: Paul Gunzelman

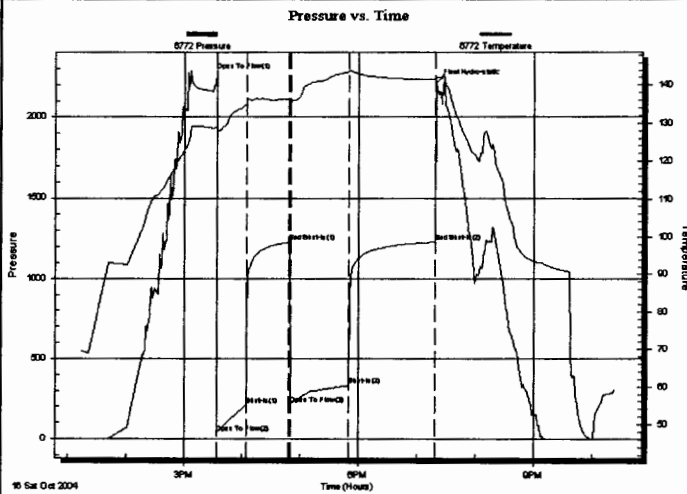
Harvey 1-34
34-2-41 Cheyenne
 Job Ticket: 19327 **DST#: 1**
 Test Start: 2004.10.16 @ 13:14:18

GENERAL INFORMATION:

Formation: **D**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 15:33:53
 Time Test Ended: 22:24:07
 Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 18
 Interval: **4460.00 ft (KB) To 4538.00 ft (KB) (TVD)**
 Reference Elevations: 3590.00 ft (KB)
 Total Depth: 4538.00 ft (KB) (TVD) 3585.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**
 Press@RunDepth: 210.12 psig @ 4460.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.10.16 End Date: 2004.10.16 Last Calib.: 1899.12.30
 Start Time: 13:14:18 End Time: 22:24:07 Time On Btm: Time Off Btm: 2004.10.16 @ 19:19:23

TEST COMMENT: F: 1/4 blow built to 9 1/2 in 30 min.
 IS: No return.
 FF: 1/4 blow BOB in 55 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.74	128.96	Open To Flow (1)
1	36.31	128.40	Open To Flow (2)
31	210.12	135.11	Shut-In(1)
76	1227.75	136.23	End Shut-In(1)
77	216.96	135.94	Open To Flow (3)
136	331.72	143.68	Shut-In(2)
225	1229.79	141.61	End Shut-In(2)
226	2212.24	141.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
552.00	m 100%m	20.95
126.00	wcm 40%w 60%m	1.77

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc
250 N. Water, Suite 300
Wichita, Ks 67202
ATTN: Paul Gunzelman

Harvey 1-34
34-2-41 Cheyenne
Job Ticket: 19327 DST#: 1
Test Start: 2004.10.16 @ 13:14:18

Tool Information

Drill Pipe:	Length: 3919.00 ft	Diameter: 3.80 inches	Volume: 54.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 552.00 ft	Diameter: 6.25 inches	Volume: 20.95 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 75.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4460.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4438.00	
Shut In Tool	5.00			4443.00	
Hydraulic tool	5.00			4448.00	
Safety Joint	2.00			4450.00	
Packer	5.00		Fluid	4455.00	23.00 Bottom Of Top Packer
Packer	5.00			4460.00	
Recorder	0.00	6772	Inside	4460.00	
Perforations	7.00			4467.00	
Change Over Sub	1.00			4468.00	
Drill Pipe	63.00			4531.00	
Change Over Sub	1.00			4532.00	
Recorder	0.00	7437	Outside	4532.00	
Bullnose	5.00			4537.00	77.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Harvey 1-34

250 N. Water, Suite 300
Wichita, Ks 67202

34-2-41 Cheyenne

Job Ticket: 19327

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2004.10.16 @ 13:14:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

12000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
552.00	m 100%m	20.946
126.00	w cm 40%w 60%m	1.767

Total Length: 678.00 ft

Total Volume: 22.713 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

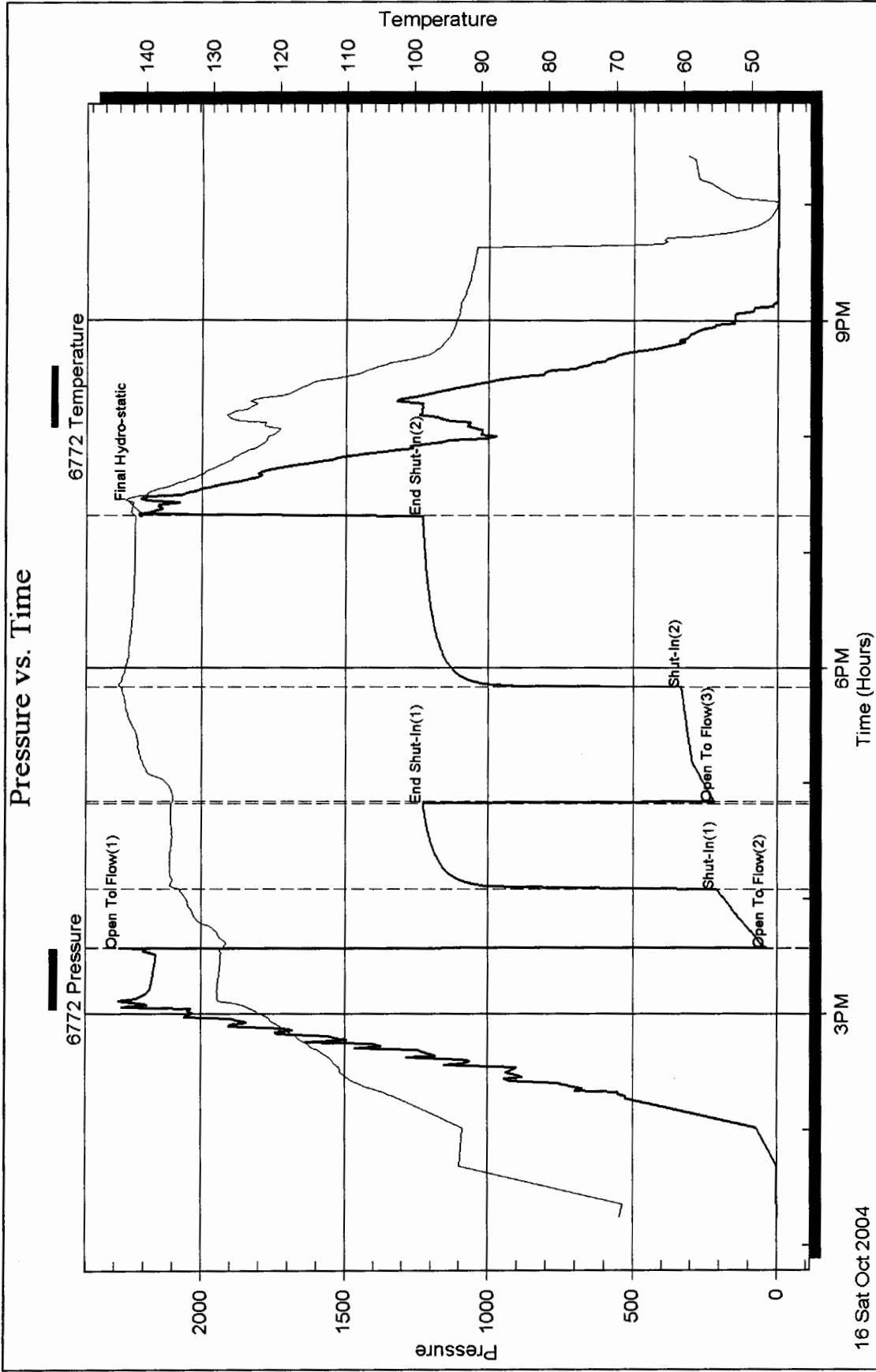
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Inside

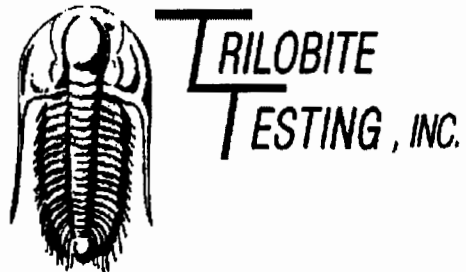
Murfin Drilling Company Inc

34-2-41 Cheyenne

DST Test Number: 1



16 Sat Oct 2004



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N, Water, Suite 300
Wichita, Ks 67202

ATTN: Paul Gunzelman

34-2-41 Cheyenne

Harvey 1-34

Start Date: 2004.10.17 @ 19:34:40

End Date: 2004.10.18 @ 01:56:30

Job Ticket #: 19328 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N. Water, Suite 300
Wichita, Ks 67202

ATTN: Paul Gunzelman

Harvey 1-34

34-2-41 Cheyenne

Job Ticket: 19328

DST#: 2

Test Start: 2004.10.17 @ 19:34:40

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:35:15

Time Test Ended: 01:56:30

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 18

Interval: **4624.00 ft (KB) To 4665.00 ft (KB) (TVD)**

Total Depth: 4665.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3590.00 ft (KB)

3585.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 38.83 psig @ 4624.00 ft (KB)

Start Date: 2004.10.17

End Date:

2004.10.18

Start Time: 19:34:40

End Time:

01:56:30

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.17 @ 21:34:45

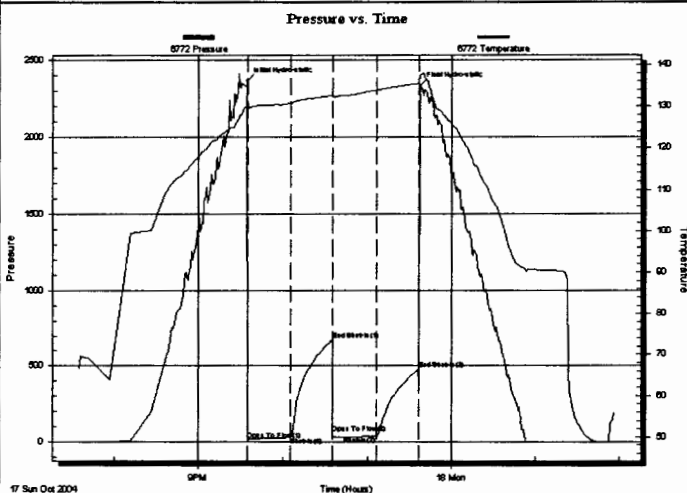
Time Off Btm: 2004.10.17 @ 23:37:30

TEST COMMENT: IF: 1/4 blow built to 1 died in 15 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.93	130.03	Initial Hydro-static
1	16.07	128.83	Open To Flow (1)
31	30.59	130.74	Shut-In (1)
61	674.73	132.62	End Shut-In (1)
61	56.62	132.24	Open To Flow (2)
92	38.83	133.89	Shut-In (2)
122	477.81	135.54	End Shut-In (2)
123	2329.97	137.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	mid 100% m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

Harvey 1-34

250 N. Water, Suite 300
Wichita, Ks 67202

34-2-41 Cheyenne

Job Ticket: 19328

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2004.10.17 @ 19:34:40

Tool Information

Drill Pipe:	Length: 4073.00 ft	Diameter: 3.80 inches	Volume: 57.13 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 552.00 ft	Diameter: 6.25 inches	Volume: 20.95 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 78.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4624.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4602.00	
Shut In Tool	5.00			4607.00	
Hydraulic tool	5.00			4612.00	
Safety Joint	2.00			4614.00	
Packer	5.00		Fluid	4619.00	23.00 Bottom Of Top Packer
Packer	5.00			4624.00	
Recorder	0.00	6772	Inside	4624.00	
Perforations	36.00			4660.00	
Recorder	0.00	7437	Outside	4660.00	
Bullnose	5.00			4665.00	41.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Harvey 1-34

250 N, Water, Suite 300
Wichita, Ks 67202

34-2-41 Cheyenne

Job Ticket: 19328

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2004.10.17 @ 19:34:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mid 100%m	0.304

Total Length: 8.00 ft

Total Volume: 0.304 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

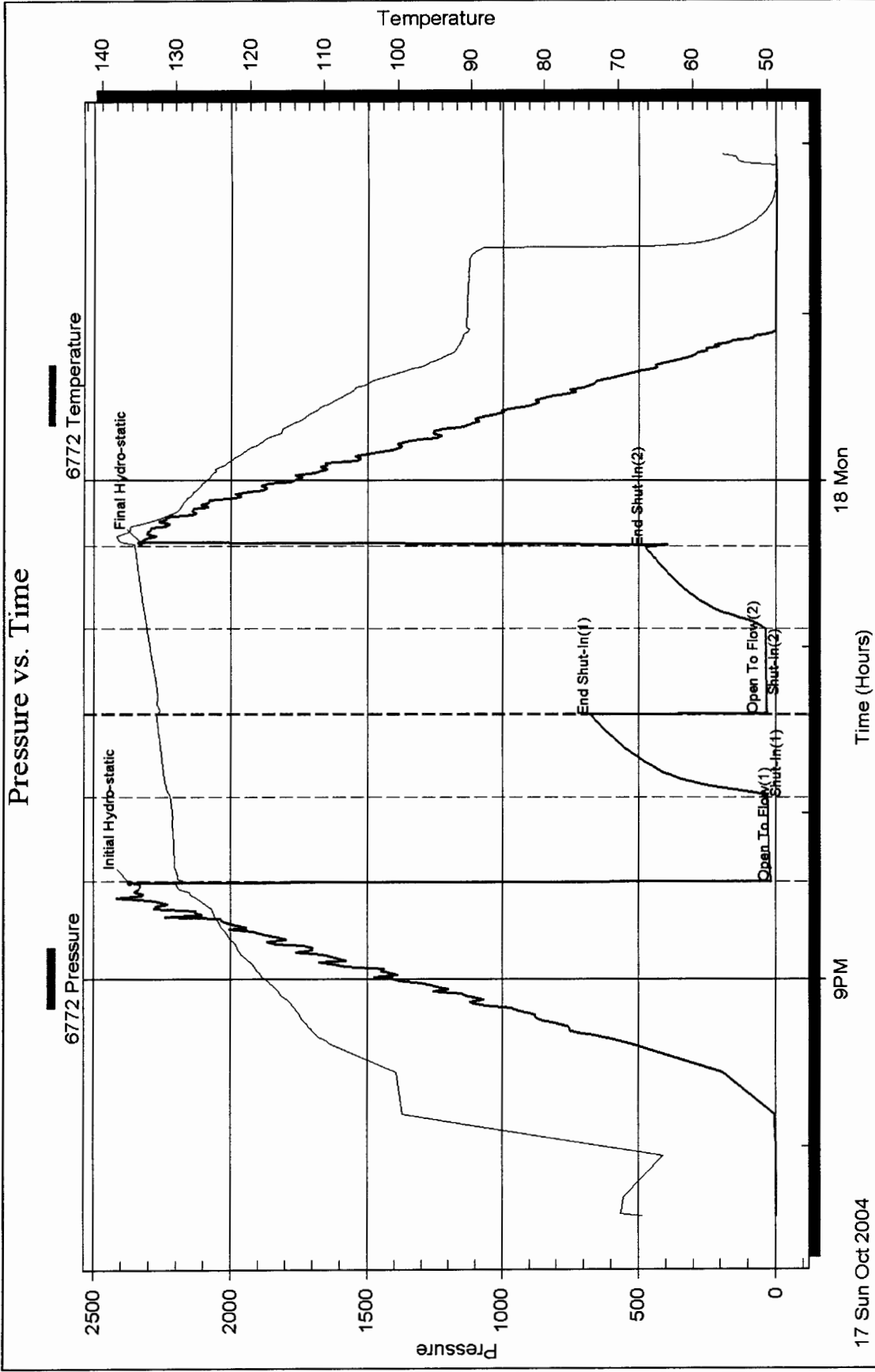
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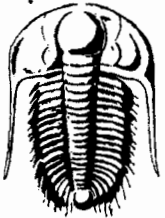
Murfin Drilling Company Inc

34-2-41 Cheyenne

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

6872

No. 19327

05/03

Test Ticket

Well Name & No. Harvey 1-34 Test No. 1 Date 10-16-04
 Company Murfin Drilling company Inc Zone Tested D
 Address 250 N. Water, suite 300 Wichita, KS 67202 Elevation 3590 KB 3585 GL
 Co. Rep / Geo. Paul Gunzelman Cont. Muffin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 34 Twp. 2 Rge. 41 Co. Cheyenne State KS
 No. of Copies Norm Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4460 4538 Initial Str Wt./Lbs. 60000 Unseated Str Wt/Lbs. 62000
 Anchor Length _____ 78 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 80000
 Top Packer Depth _____ 4455 Tool Weight 1500
 Bottom Packer Depth _____ 4460 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4538 Wt. Pipe Run _____ Drill Collar Run 552
 Mud Wt. 9.2 LCM Ø Vis. 61 WL 6.8 Drill Pipe Size 4 1/2 X H Ft. Run 3919
 Blow Description IF: 1/4 blow built to 9 1/2 in 30 min.
IS: NO return.
FF: 1/4 blow BOB in 55 min.
FS: NO return.

Recovery - Total Feet 678 GIP _____ Ft. in DC 552 Ft. in DP 126
 Rec. 126 Feet of mud 100% m %gas _____ %oil _____ %water 100 %mud _____
 Rec. 552 Feet of wcm %gas _____ %oil 40 %water 60 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 141 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .77 @ 58 °F Chlorides 12000 ppm Recovery 12000 Chlorides 600 ppm System

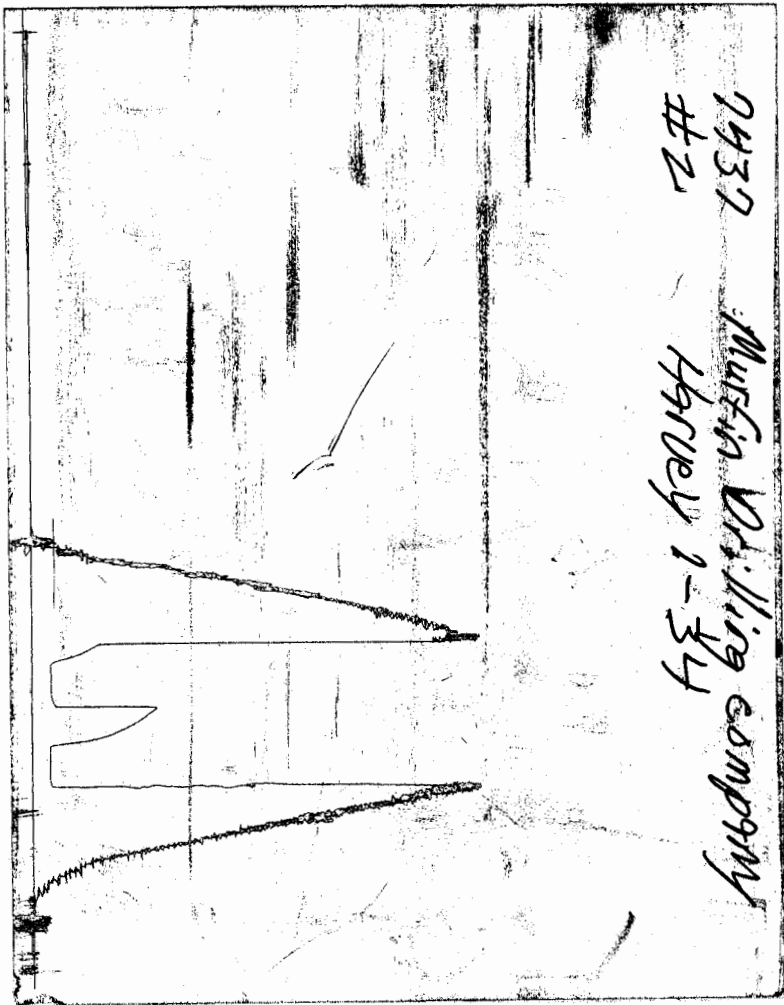
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2284</u> PSI	<u>6799</u>	<u>X 1000</u>
(B) First Initial Flow Pressure		<u>36</u> PSI	<u>4467</u>	Elec. Rec. <u>X</u>
(C) First Final Flow Pressure		<u>210</u> PSI	<u>7437</u>	Jars _____
(D) Initial Shut-In Pressure		<u>1227</u> PSI	<u>4538</u>	Safety Jt. <u>X 50</u>
(E) Second Initial Flow Pressure		<u>216</u> PSI		Circ Sub <u>X N/C</u>
(F) Second Final Flow Pressure		<u>331</u> PSI		Sampler _____
(G) Final Shut-In Pressure		<u>1229</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2212</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____

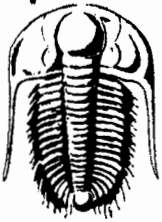
Final Flow 60 Shale Packer _____
 Final Shut-In 90 Mileage 310 # 263.50
 T-On Location 1215 Sub Total: 1313.50
 T-Started 13:14 Std. By X 30
 T-Open 1533 Other _____
 T-Pulled 2224 1918 Total: 1343.50
 T-Out 2224

Approved By Paul Gunzelman
 Our Representative Bush

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19328

05/03

Test Ticket

Well Name & No. Harguey 1-34 Test No. 2 Date 10-17-04
 Company Murfin Drilling company Zone Tested Lansing J
 Address 250 N. Water, Sater 300 Wichita, KS 67202 Elevation 3590 KB 3585 GL
 Co. Rep / Geo. Paul Gunzelman Cont. Murfin 3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 34 Twp. 2 Rge. 41 Co. Cheyenne State KS
 No. of Copies Norm. Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4624 4665 Initial Str Wt./Lbs. 60000 Unseated Str Wt./Lbs. 60000
 Anchor Length _____ 41 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 80000
 Top Packer Depth _____ 4619 Tool Weight 1500
 Bottom Packer Depth _____ 4624 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4665 Wt. Pipe Run _____ Drill Collar Run 552
 Mud Wt. 9.1 LCM 0 Vis. 59 WL 6.4 Drill Pipe Size 4 1/2 X 4 Ft. Run 4073
 Blow Description IF: 1/4 blow built to 1 died in 15 min.

IS: No return.
EF: No blow.
FS: NO return.

Recovery - Total Feet 8 GIP _____ Ft. in DC 8 Ft. in DP _____
 Rec. 8 Feet of 7 %gas _____ %oil _____ %water 100 %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 137 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides 900 ppm Recovery 900 Chlorides 900 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2365</u> PSI	<u>6772</u>	<u>X 1000</u>
(B) First Initial Flow Pressure		<u>16</u> PSI	(depth) <u>4625</u>	Elec. Rec <u>X</u>
(C) First Final Flow Pressure		<u>30</u> PSI	Recorder No. <u>7437</u>	Jars <u>0</u>
(D) Initial Shut-In Pressure		<u>674</u> PSI	(depth) <u>4665 4665</u>	Safety Jt. <u>X 50</u>
(E) Second Initial Flow Pressure		<u>56</u> PSI	Recorder No. _____	Circ Sub <u>X N/C</u>
(F) Second Final Flow Pressure		<u>38</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>497</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2329</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

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Approved By Paul Gunzelman
 Our Representative [Signature]

Final Flow	<u>30</u>	Shale Packer	_____
Final Shut-In	<u>30</u>	Mileage	<u>22 \$18.70</u>
T-On Location	<u>1830</u>	Sub Total:	<u>1068.70</u>
T-Started	<u>1934</u>	Std. By	_____
T-Open	<u>2135</u>	Other	_____
T-Pulled	<u>2335</u>	Total:	<u>1068.70</u>
T-Off	<u>0156</u>		

n. 26

CHART PAGE

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

