

## DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Oper. Comp**

200 E. First Ste.307  
Wichita,Ks  
67202

ATTN: Grand Mesa Oper. Comp

**4-16-23 Ness,Ks**

**Simpson #1-4**

Start Date: 2004.06.02 @ 03:20:39

End Date: 2004.06.02 @ 09:05:33

Job Ticket #: 19081                      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

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307  
Wichita,Ks  
67202

**4-16-23 Ness,Ks**

ATTN: Grand Mesa Oper. CompWichita,Ks

Job Ticket: 19081

**DST#: 1**

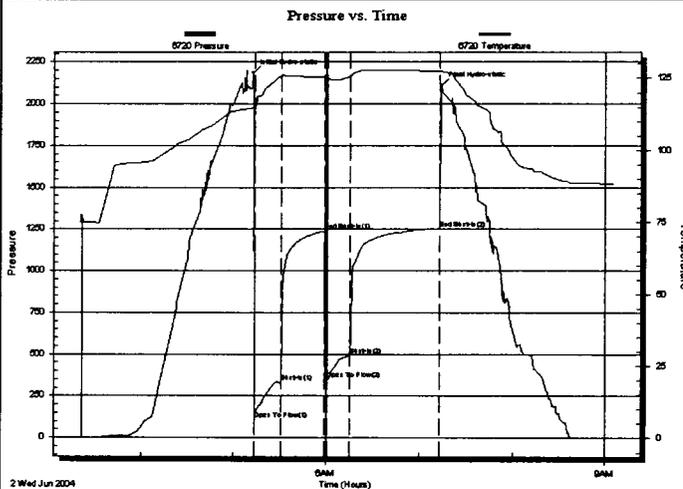
Test Start: 2004.06.02 @ 03:20:39

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:13:34  
 Time Test Ended: 09:05:33  
 Interval: **4302.00 ft (KB) To 4372.00 ft (KB) (TVD)**  
 Total Depth: 4372.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 25  
 Reference Elevations: 2409.00 ft (KB)  
 2404.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6720** Inside  
 Press@RunDepth: 494.00 psig @ 4303.00 ft (KB) Capacity: 66390000.00 psig  
 Start Date: 2004.06.02 End Date: 2004.06.02 Last Calib.: 1899.12.30  
 Start Time: 03:20:39 End Time: 09:05:33 Time On Btm: 2004.06.02 @ 05:12:34  
 Time Off Btm: 2004.06.02 @ 07:13:49

**TEST COMMENT:** B.O.B. in 3 min.  
 No return  
 Open tool , pull tool off bottom , reset tool B.O.B. in 3 min.  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.94	114.85	Initial Hydro-static
1	109.32	114.50	Open To Flow (1)
19	334.69	125.94	Shut-In(1)
47	1239.11	125.53	End Shut-In(1)
49	349.86	125.28	Open To Flow (2)
63	494.00	125.56	Shut-In(2)
121	1253.39	127.50	End Shut-In(2)
122	2112.21	127.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
245.00	sw & mcgo 30%g45%o10%w 15%m	1.20
434.00	sw & mcgo 25%g35%o 10%w 30%m	6.09
186.00	sw o&gcm 20%g20%o10%w 50%m	2.61
293.00	sw & ocm 10%o10%w 80%m	4.11

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307  
Wichita,Ks  
67202

**4-16-23 Ness,Ks**

Job Ticket: 19081

**DST#: 1**

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 03:20:39

### Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 57.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4302.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4276.00	
Shut In Tool	5.00			4281.00	
Hydraulic tool	5.00			4286.00	
Jars	5.00			4291.00	
Safety Joint	2.00			4293.00	
Packer	5.00			4298.00	27.00 Bottom Of Top Packer
Packer	4.00			4302.00	
Stubb	1.00			4303.00	
Recorder	0.00	6720	Inside	4303.00	
Perforations	31.00			4334.00	
Change Over Sub	1.00			4335.00	
Drill Pipe	31.00			4366.00	
Change Over Sub	1.00			4367.00	
Recorder	0.00	2023	Outside	4367.00	
Bullnose	5.00			4372.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 97.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307

**4-16-23 Ness,Ks**

Wichita,Ks

Job Ticket: 19081

**DST#: 1**

67202

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 03:20:39

### 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: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	sw &mcgo 30%g45%o10%w 15%m	1.205
434.00	sw &mcgo 25%g35%o 10%w 30%m	6.088
186.00	sw o&gcm 20%g20%o10%w 50%m	2.609
293.00	sw &ocm 10%o10%w 80%m	4.110

Total Length: 1158.00 ft

Total Volume: 14.012 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

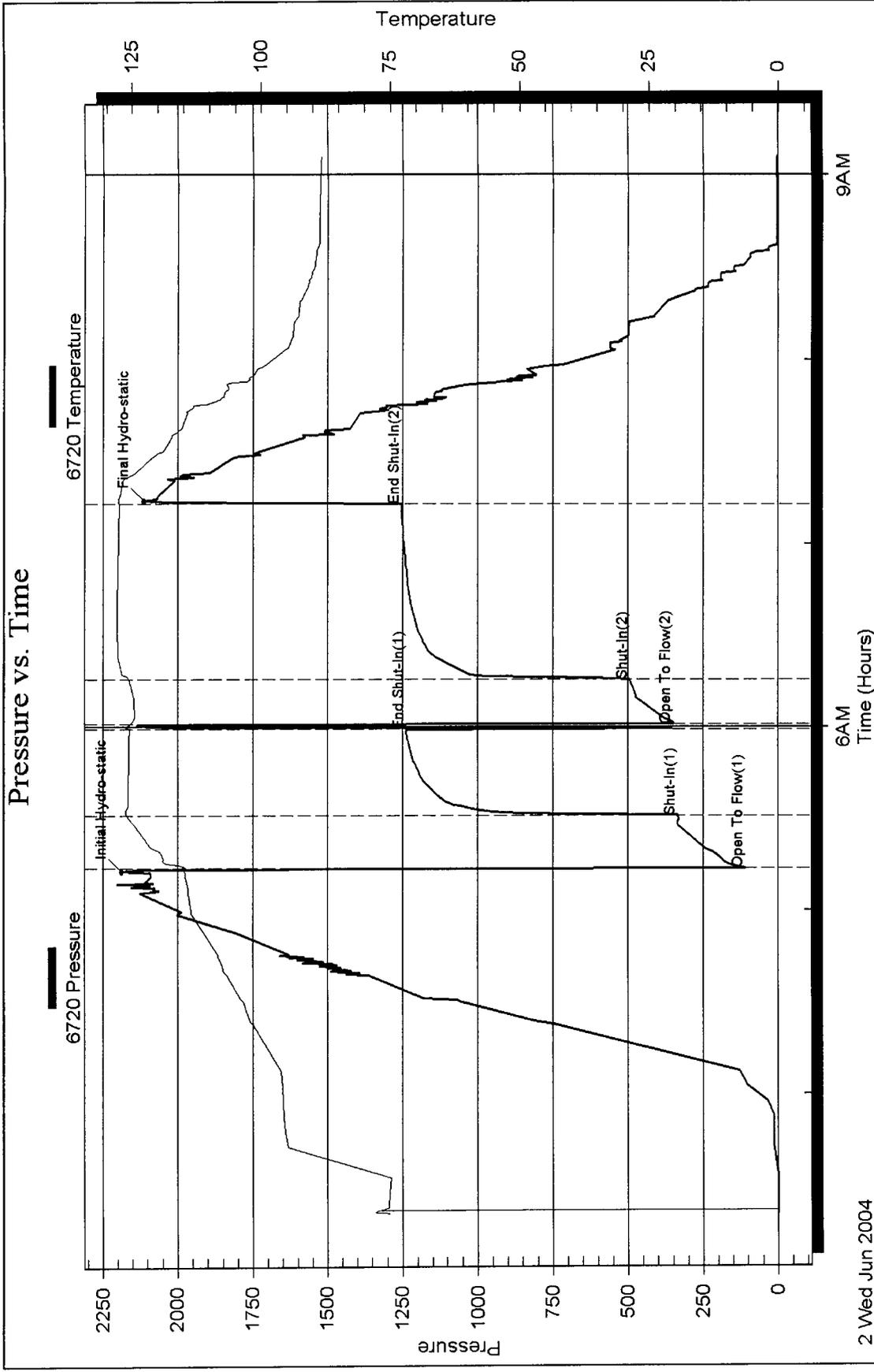
Recovery Comments:

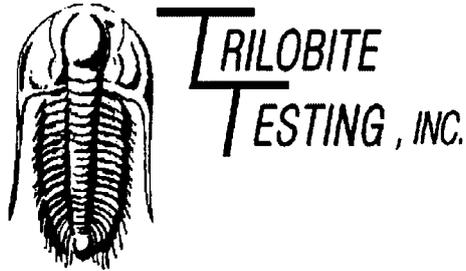
Serial #: 6720

Inside Grand Mesa Oper. Comp

4-16-23 Ness,Ks

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Oper. Comp**

200 E. First Ste.307  
Wichita,Ks  
67202

ATTN: Grand Mesa Oper. Comp

**4-16-23 Ness,Ks**

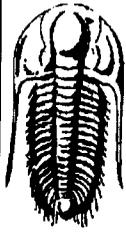
**Simpson #1-4**

Start Date: 2004.06.02 @ 16:15:08

End Date: 2004.06.02 @ 20:46:02

Job Ticket #: 19082                      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

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307

**4-16-23 Ness,Ks**

Wichita,Ks

Job Ticket: 19082

**DST#: 2**

67202

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 16:15:08

### GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:20:00

Time Test Ended: 20:46:02

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4369.00 ft (KB) To 4382.00 ft (KB) (TVD)**

Total Depth: 4382.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2409.00 ft (KB)

2404.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6720**

**Inside**

Press@RunDepth: psig @ 4370.00 ft (KB)

Start Date: 2004.06.02

End Date:

2004.06.02

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 16:15:08

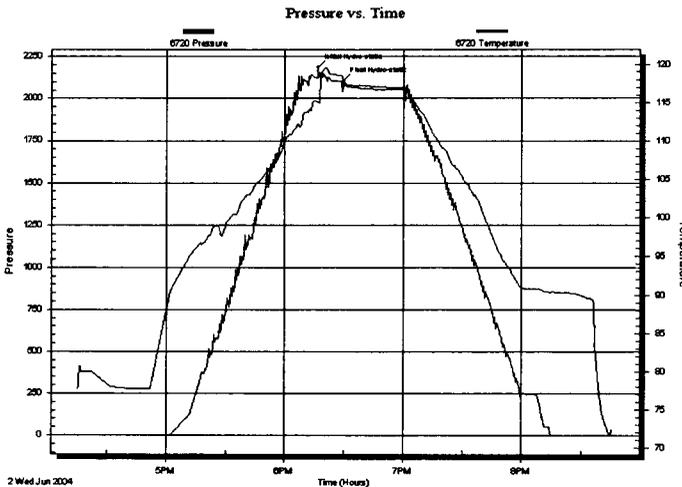
End Time:

20:46:02

Time On Btmr: 2004.06.02 @ 18:16:33

Time Off Btmr: 2004.06.02 @ 18:29:33

TEST COMMENT: Packer failure @ open , reset failed again pull tool



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.86	115.14	Initial Hydro-static
13	2104.51	117.62	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
210.00	mud	1.03

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307  
Wichita,Ks  
67202

**4-16-23 Ness,Ks**

Job Ticket: 19082

**DST#: 2**

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 16:15:08

### Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 58.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4369.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	40.00 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			4343.00	
Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Jars	5.00			4358.00	
Safety Joint	2.00			4360.00	
Packer	5.00			4365.00	27.00 Bottom Of Top Packer
Packer	4.00			4369.00	
Stubb	1.00			4370.00	
Recorder	0.00	6720	Inside	4370.00	
Perforations	7.00			4377.00	
Recorder	0.00	2023	Outside	4377.00	
Bullnose	5.00			4382.00	13.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>40.00</b>			



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307

**4-16-23 Ness,Ks**

Wichita,Ks

Job Ticket: 19082

**DST#: 2**

67202

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 16:15:08

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4400 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
210.00	mud	1.033

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

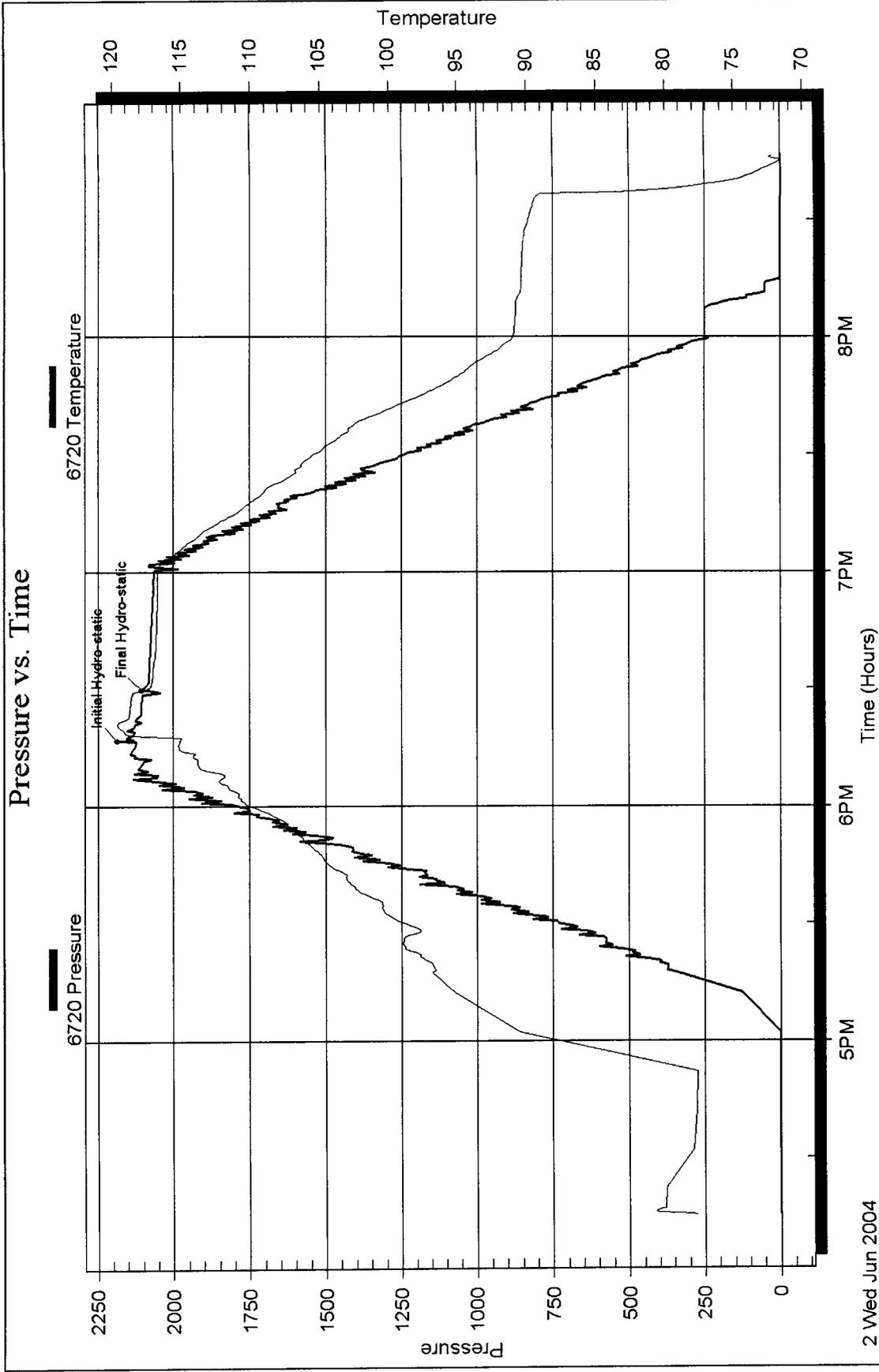
Serial #: 6720

Inside

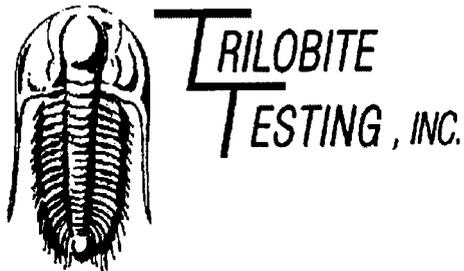
Grand Mesa Oper. Comp

4-16-23 Ness, Ks

DST Test Number: 2



2 Wed Jun 2004



## DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Oper. Comp**

200 E. First Ste.307  
Wichita,Ks  
67202

ATTN: Grand Mesa Oper. Comp

**4-16-23 Ness,Ks**

**Simpson #1-4**

Start Date: 2004.06.02 @ 20:55:13

End Date: 2004.06.03 @ 00:40:08

Job Ticket #: 19083                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307

**4-16-23 Ness,Ks**

Wichita,Ks

Job Ticket: 19083

**DST#: 3**

67202

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 20:55:13

### Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 57.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4301.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	108.00 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			4275.00	
Shut In Tool	5.00			4280.00	
Hydraulic tool	5.00			4285.00	
Jars	5.00			4290.00	
Safety Joint	2.00			4292.00	
Packer	5.00			4297.00	27.00 Bottom Of Top Packer
Packer	4.00			4301.00	
Stubb	1.00			4302.00	
Recorder	0.00	6720	Inside	4302.00	
Perforations	11.00			4313.00	
Change Over Sub	1.00			4314.00	
Drill Pipe	62.00			4376.00	
Change Over Sub	1.00			4377.00	
Recorder	0.00	2023	Outside	4377.00	
Bullnose	5.00			4382.00	81.00 Bottom Packers & Anchor

**Total Tool Length: 108.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Oper. Comp

**Simpson #1-4**

200 E. First Ste.307

**4-16-23 Ness,Ks**

Wichita,Ks

Job Ticket: 19083

**DST#: 3**

67202

ATTN: Grand Mesa Oper. CompWichita,Ks

Test Start: 2004.06.02 @ 20:55:13

## 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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00		0.984

Total Length: 200.00 ft

Total Volume: 0.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

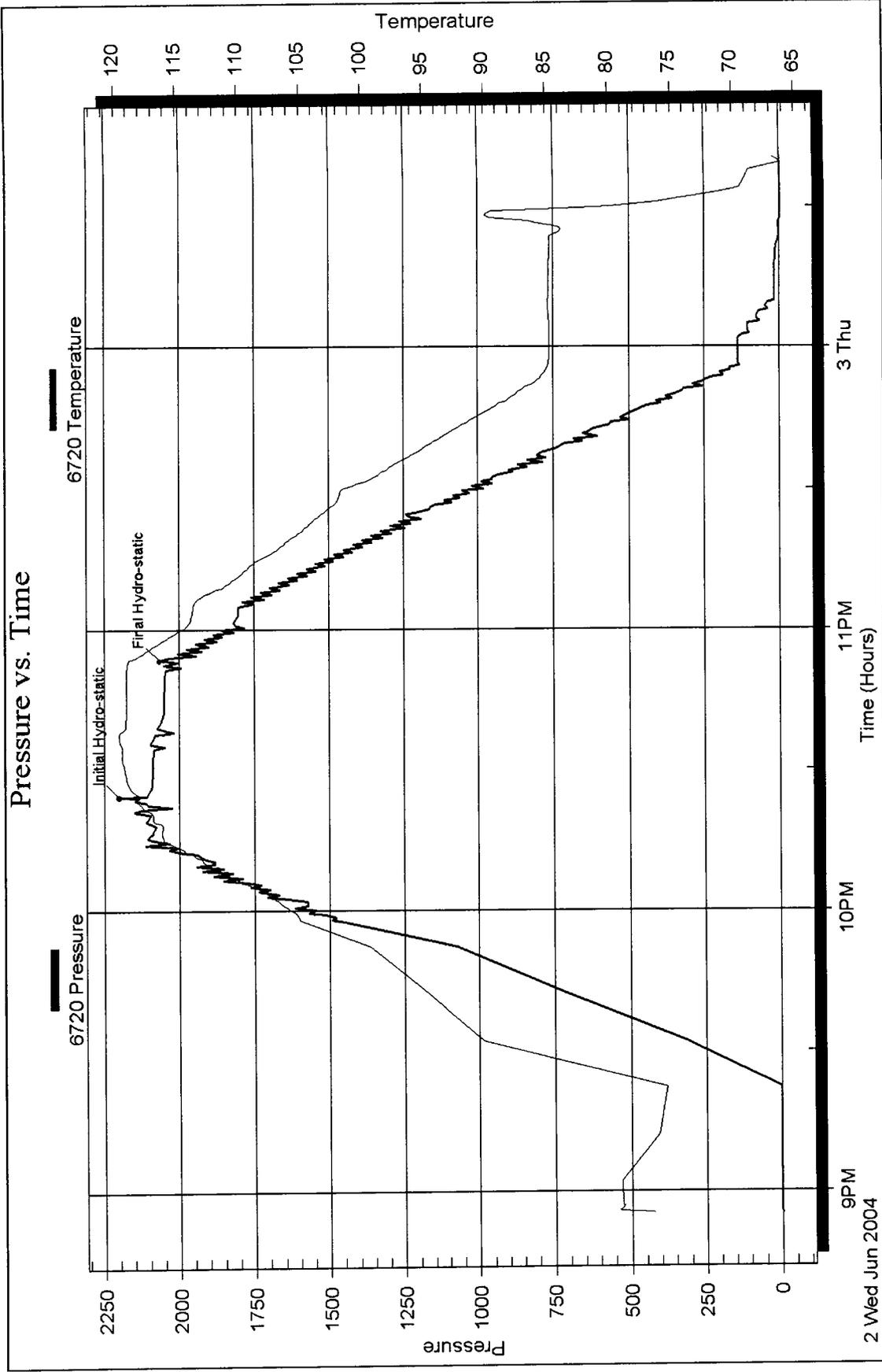
Recovery Comments:

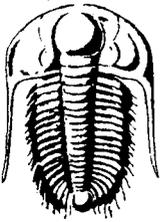
Serial #: 6720

Grand Mesa Oper. Comp

4-16-23 Ness,Ks

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19081

6492

05/03

## Test Ticket

Well Name & No. Simpson #1-4 Test No. #1 Date 6-2-04  
 Company Grand Mesa Oper. Comp. Zone Tested Cherokee Sand  
 Address 200 E. First St. 307, Wichita, KS 67202 Elevation 2409' KB 2404' GL  
 Co. Rep / Geo. Larry Friend Cont. Mallard J. U. Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 4 Twp. 16S Rge. 23W Co. Ness State Ks  
 No. of Copies Ann. Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4302' 4372' Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 69,000  
 Anchor Length \_\_\_\_\_ 70' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 95,000  
 Top Packer Depth \_\_\_\_\_ 4297' Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4302' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 4372' Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 245'  
 Mud Wt. 9.3 LCM Ø Vis. 43 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 4040'

Blow Description B.O.B. in 3 min  
No return  
Open tool, pull tool off bottom, Reset tool B.O.B. in 3 min  
No return

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>293'</u>	Feet of <u>sw 30cm</u>	%gas <u>10</u> %oil <u>10</u> %water <u>80</u> %mud	
Rec. <u>186'</u>	Feet of <u>sw 0.9cm</u>	20 %gas 20 %oil 10 %water 50 %mud	
Rec. <u>434'</u>	Feet of <u>sw 1.6cm</u>	25 %gas 39 %oil 10 %water 30 %mud	
Rec. <u>293'</u>	Feet of <u>sw 1.6cm</u>	30 %gas 45 %oil 10 %water 15 %mud	
BHT <u>127°</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW <u>.492</u>	@ <u>65°</u> °F	Chlorides <u>16,000</u> ppm Recovery <u>16,000</u>	Chlorides <u>4200</u> ppm System

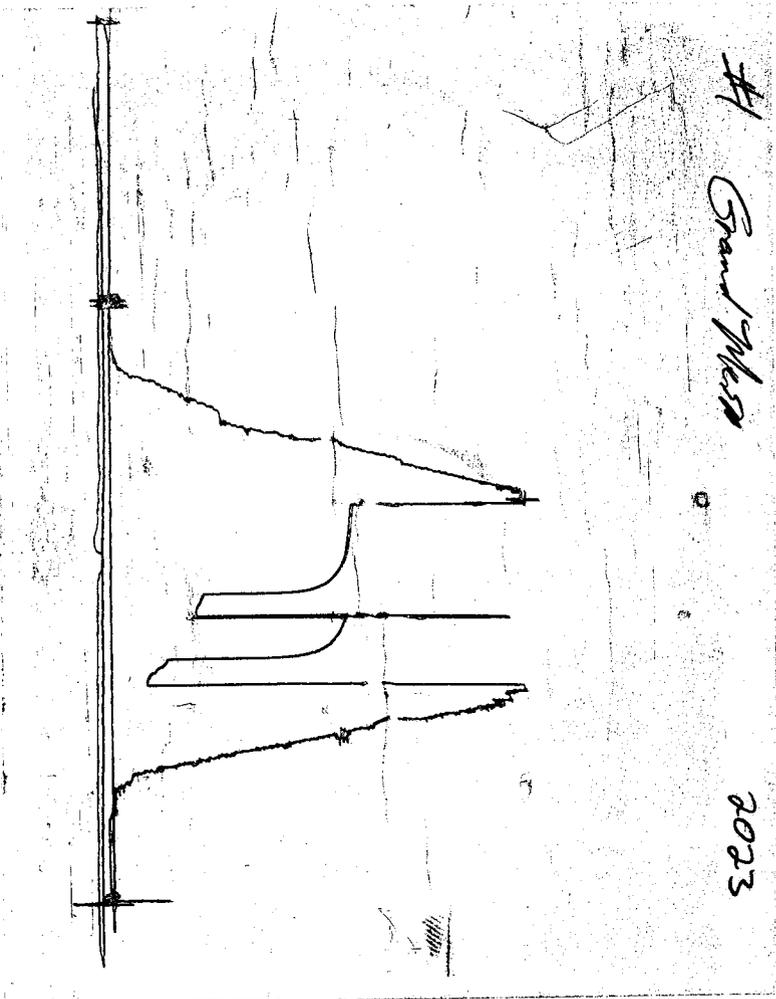
	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud	<u>2129</u>	<u>2186</u> PSI	<u>6720</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>183</u>	<u>109</u> PSI	(depth) <u>4303'</u>	Elec. Rec. <u>X</u> <u>150</u>
(C) First Final Flow Pressure	<u>298</u>	<u>334</u> PSI	Recorder No. <u>2023</u>	Jars <u>X</u> <u>200</u>
(D) Initial Shut-In Pressure	<u>1215</u>	<u>1239</u> PSI	(depth) <u>4367'</u>	Safety Jt. <u>X</u> <u>50</u>
(E) Second Initial Flow Pressure	<u>449</u>	<u>349</u> PSI	Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure	<u>508</u>	<u>494</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1244</u>	<u>1253</u> PSI	Initial Opening <u>20</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2109</u>	<u>2112</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>20</u>	Shale Packer _____
			Final Shut-In <u>60</u>	Mileage <u>X</u> <u>142</u> <u>120.70</u>
			T-On Location <u>02:00 A.M.</u>	Sub Total: <u>1320.70</u>
			T-Started <u>03:20 A.M.</u>	Std. By _____
			T-Open <u>05:20 A.M.</u>	Other _____
			T-Pulled <u>07:30 A.M.</u>	Total: _____
			T-Out <u>09:45 A.M.</u>	

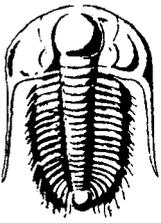
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Larry Friend  
 Our Representative [Signature]

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19082

05/03

## Test Ticket

Well Name & No. Simpson #1-4 Test No. #2 Date 6-2-04  
 Company Grand Mesa Oper. Comp. Zone Tested Cherokee Sand  
 Address 200 E. First St. 307 Wichita, KS 67202 Elevation 2409' KB 2404' GL  
 Co. Rep / Geo. Larry Friend Cont. Mallard J.O. Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 4 Twp. 16S Rge. 23W Co. Ness State KS  
 No. of Copies None Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4369' 4382' Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 62,000  
 Anchor Length \_\_\_\_\_ 13' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 72,000  
 Top Packer Depth \_\_\_\_\_ 4364' Tool Weight 1,500  
 Bottom Packer Depth \_\_\_\_\_ 4369' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 4382' Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 245'  
 Mud Wt. 9.2 LCM Ø Vis. 47 WL 8.8 Drill Pipe Size 4 1/2 x 4 Ft. Run 4102'  
 Blow Description Packer failure @ open, reset failed again pull tool

Recovery - Total Feet 210' GIP \_\_\_\_\_ Ft. in DC 210' Ft. in DP \_\_\_\_\_  
 Rec. 210' Feet of mud %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 \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery 4400 Chlorides 4400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2184</u> PSI	<u>6720</u>	<u>600</u>
(B) First Initial Flow Pressure		PSI	(depth) <u>4370'</u>	Elec. Rec. <u>✓</u> <u>150</u>
(C) First Final Flow Pressure		PSI	Recorder No. <u>2023</u>	Jars <u>✓</u> <u>200</u>
(D) Initial Shut-In Pressure		PSI	(depth) <u>4377'</u>	Safety Jt. <u>✓</u> <u>50</u>
(E) Second Initial Flow Pressure		PSI	Recorder No. _____	Circ Sub <u>✓</u> <u>n/c</u>
(F) Second Final Flow Pressure		PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		PSI	Initial Opening _____	Straddle _____
(Q) Final Hydrostatic Mud	<u>2134</u>	PSI	Initial Shut-In _____	Ext. Packer _____
			Final Flow _____	Shale Packer _____
			Final Shut-In _____	Mileage _____

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

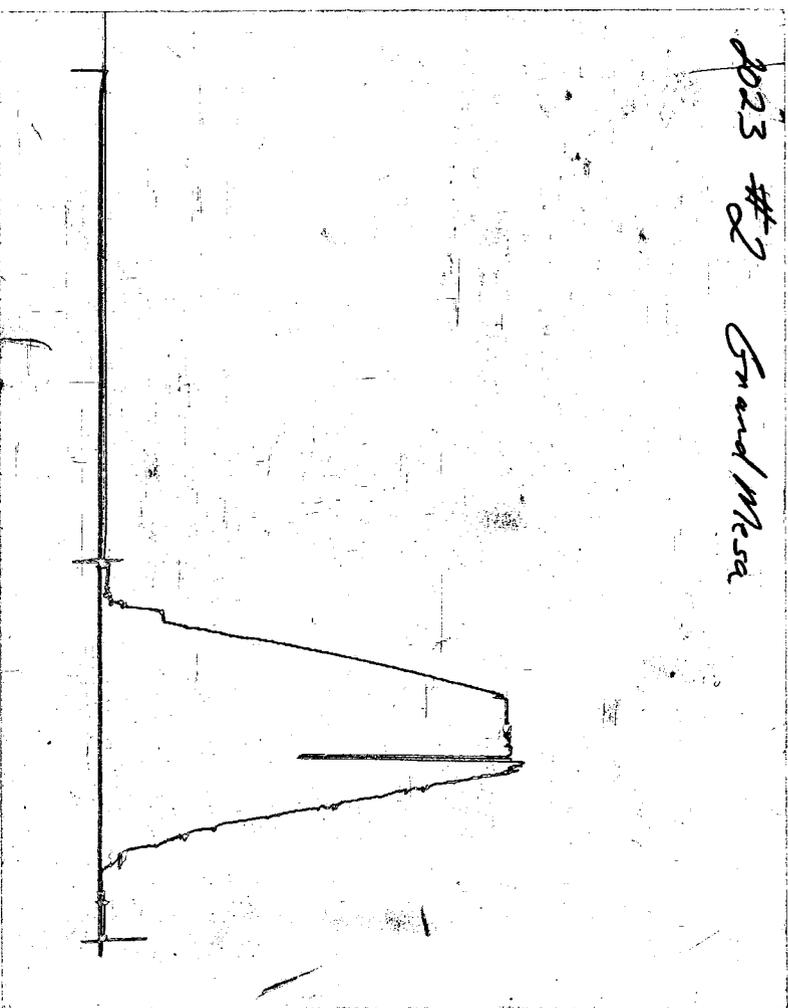
Approved By Larry Friend  
 Our Representative [Signature]

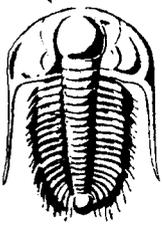
T-On Location 15:45 p.m. Sub Total: 1000  
 T-Started 16:15 p.m. Std. By \_\_\_\_\_  
 T-Open 18:20 p.m. Other \_\_\_\_\_  
 T-Pulled 18:25 p.m. Total: \_\_\_\_\_  
 T-Out 20:45 p.m.

**CHART PAGE**

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

2023 #2 Grand Mesa





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19083

05/03

## Test Ticket

Well Name & No. Simpson #1-4 Test No. #3 Date 6-2-04  
 Company Grand Mesa Oper. Comp. Zone Tested Cherokee Sand  
 Address 200 E First Ste. 307 Wichita, Ks 67202 Elevation 2469' KB 2404' GL  
 Co. Rep / Geo. Larry Friend Cont. Mallard J.V. Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 4 Twp. 16 S Rge. 23 W Co. Ness State Ks  
 No. of Copies Num Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4301' 4382' Initial Str Wt./Lbs. 65,000 Unseated Str Wt/Lbs. 67,000  
 Anchor Length \_\_\_\_\_ 81' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 22,000  
 Top Packer Depth \_\_\_\_\_ 4296' Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4301' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 4382' Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 245'  
 Mud Wt. 9.2 LCM Ø Vis. 47 WL B.B Drill Pipe Size 4 1/2 XH Ft. Run 4040'  
 Blow Description Packer Failure @ open, reset failed again pull tool

Recovery - Total Feet 275' GIP \_\_\_\_\_ Ft. in DC 245' Ft. in DP 30'  
 Rec. 275' Feet of mud %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 \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery 4400 Chlorides 4400 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test X
(A) Initial Hydrostatic Mud		<u>2199</u>		<u>6720</u>	<u>600</u>
(B) First Initial Flow Pressure				(depth) <u>4302'</u>	Elec. Rec. X <u>150</u>
(C) First Final Flow Pressure				Recorder No. <u>2023</u>	Jars X <u>200</u>
(D) Initial Shut-In Pressure				(depth) <u>4377'</u>	Safety Jt. X <u>50</u>
(E) Second Initial Flow Pressure				Recorder No. _____	Circ Sub X <u>NK</u>
(F) Second Final Flow Pressure				(depth) _____	Sampler _____
(G) Final Shut-In Pressure				<b>Initial Opening</b> _____	Straddle _____
(Q) Final Hydrostatic Mud		<u>2065</u>		Initial Shut-In _____	Ext. Packer _____
				Final Flow _____	Shale Packer _____
				Final Shut-In _____	Mileage _____

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

Approved By Larry Friend  
 Our Representative Steve McRae

T-On Location 20:45 p.m. Sub Total: 1000  
 T-Started 20:55 p.m. Std. By \_\_\_\_\_  
 T-Open 22:25 p.m. Other \_\_\_\_\_  
 T-Pulled 22:30 p.m. Total: \_\_\_\_\_  
 T-Out 00:45 A.M.

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

