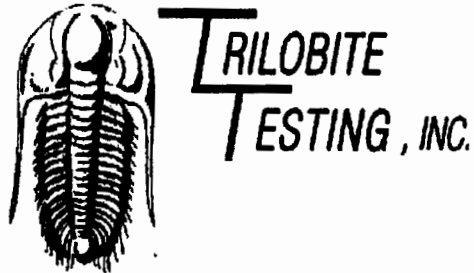


15-101-21971

4-18s-30w



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Kim Shoemaker

4 18 30 Lane KS

#2 Sharp 4 AB

Start Date: 2006.10.23 @ 08:20:00

End Date: 2006.10.23 @ 16:19:30

Job Ticket #: 25628 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

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Kim Shoemaker

#2 Sharp 4 AB

4 18 30 Lane KS

Job Ticket: 25628

DST#: 1

Test Start: 2006.10.23 @ 08:20:00

GENERAL INFORMATION:

Formation: **Marmaton/Altamont**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 11:42:00

Time Test Ended: 16:19:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4327.00 ft (KB) To 4391.00 ft (KB) (TVD)**

Total Depth: 4391.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2890.00 ft (KB)

2880.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017 Inside

Press@RunDepth: 25.72 psig @ 4329.00 ft (KB)

Start Date: 2006.10.23

End Date:

2006.10.23

Start Time: 08:20:01

End Time:

16:19:30

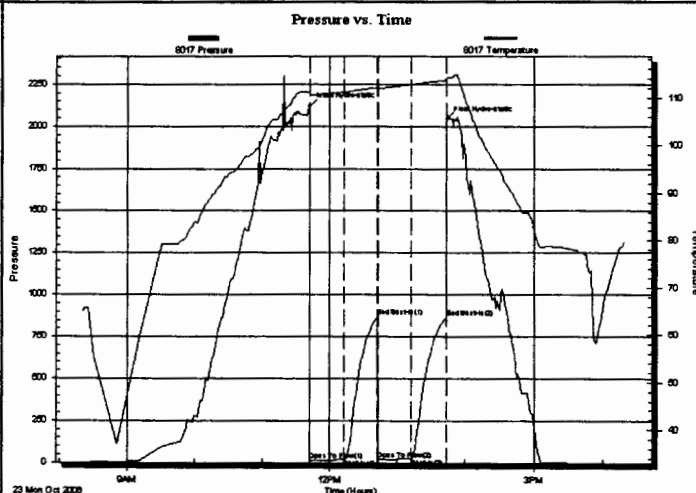
Capacity: 7000.00 psig

Last Calib.: 2006.10.23

Time On Btm: 2006.10.23 @ 11:41:45

Time Off Btm: 2006.10.23 @ 13:44:15

TEST COMMENT: IF Weak surface blow
ISI No return
FF No blow
FSI No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.99	111.20	Initial Hydro-static
1	15.49	110.60	Open To Flow (1)
31	19.09	111.16	Shut-In(1)
61	868.75	112.14	End Shut-In(1)
61	20.86	111.79	Open To Flow (2)
91	25.72	112.79	Shut-In(2)
122	864.38	113.76	End Shut-In(2)
123	2041.10	114.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.02

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

#2 Sharp 4 AB

PO Box 783188
Wichita KS 67278-3188

4 18 30 Lane KS

Job Ticket: 25628

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2006.10.23 @ 08:20:00

Tool Information

Drill Pipe:	Length:	4156.00 ft	Diameter:	3.80 inches	Volume:	58.30 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:	28000.00 lb
Drill Collar:	Length:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:	84000.00 lb
					Total Volume:	59.19 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		29.00 ft					String Weight: Initial	76000.00 lb
Depth to Top Packer:		4327.00 ft					Final	76000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		64.00 ft						
Tool Length:		84.00 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			4308.00	
Shut In Tool	5.00			4313.00	
Hydraulic tool	5.00			4318.00	
Packer	5.00			4323.00	20.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Perforations	1.00			4329.00	
Recorder	0.00	8017	Inside	4329.00	
Perforations	24.00			4353.00	
Change Over Sub	1.00			4354.00	
Anchor	31.00			4385.00	
Change Over Sub	1.00			4386.00	
Recorder	0.00	13309	Inside	4386.00	
Bullnose	5.00			4391.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

#2 Sharp 4 AB

PO Box 783188
Wichita KS 67278-3188

4 18 30 Lane KS

Job Ticket: 25628

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2006.10.23 @ 08:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of Oil in 5 feet

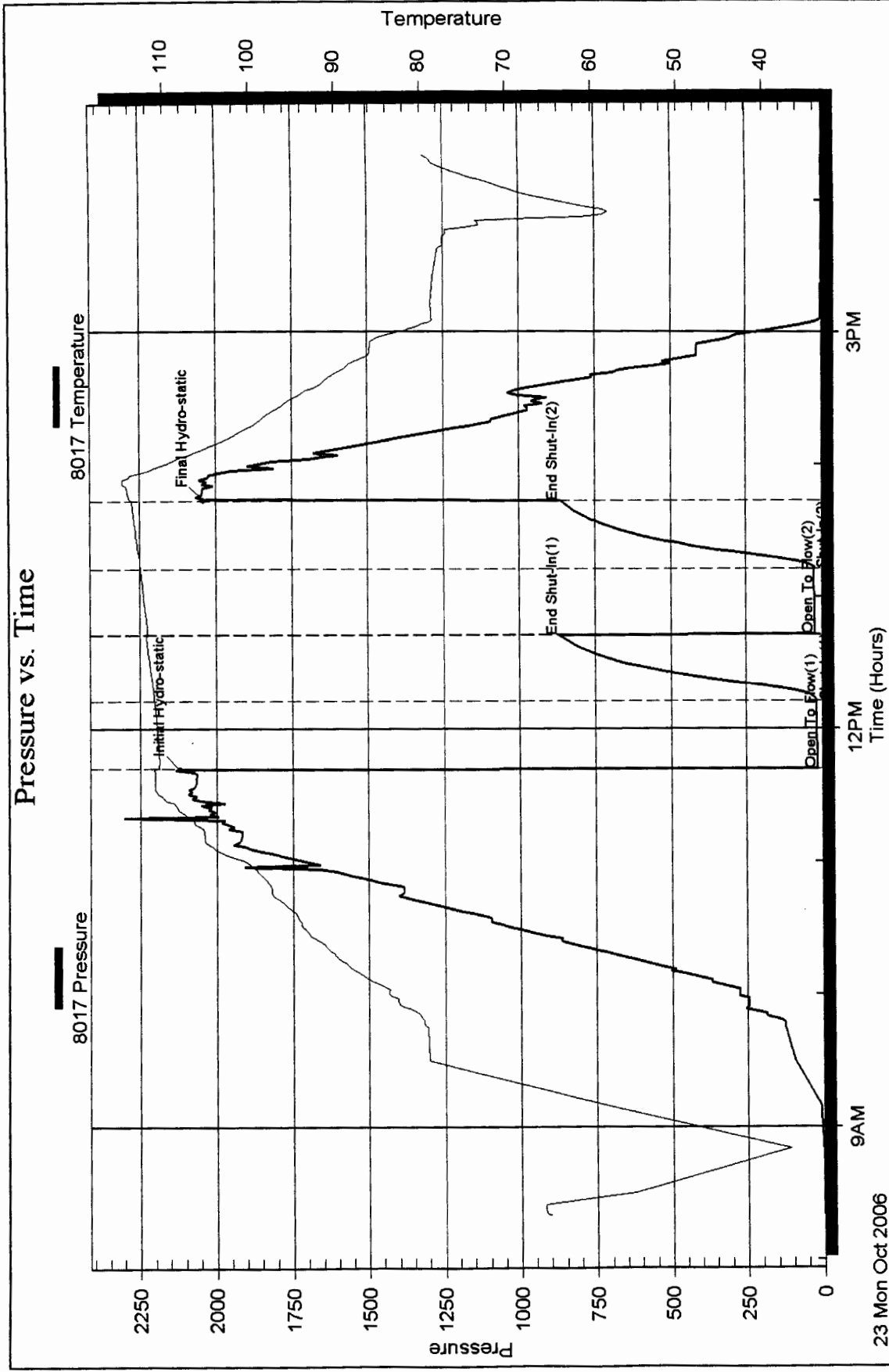
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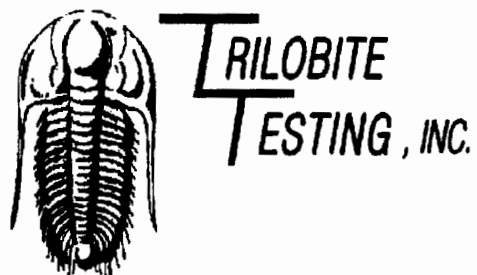
Inside

Ritchie Exploration Inc

4 18 30 Lane KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Kim Shoemaker

4 18 30 Lane KS

#2 Sharp 4 AB

Start Date: 2006.10.24 @ 12:49:30

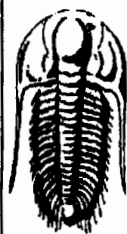
End Date: 2006.10.24 @ 20:25:45

Job Ticket #: 25629 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

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Kim Shoemaker

#2 Sharp 4 AB

4 18 30 Lane KS

Job Ticket: 25629

DST#: 2

Test Start: 2006.10.24 @ 12:49:30

GENERAL INFORMATION:

Formation: **Cherokee/Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:27:45

Time Test Ended: 20:25:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4498.00 ft (KB) To 4548.00 ft (KB) (TVD)**

Total Depth: 4548.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2890.00 ft (KB)

2880.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: 15.27 psig @ 4500.00 ft (KB)

Start Date: 2006.10.24

End Date:

2006.10.24

Start Time: 12:49:31

End Time:

20:25:45

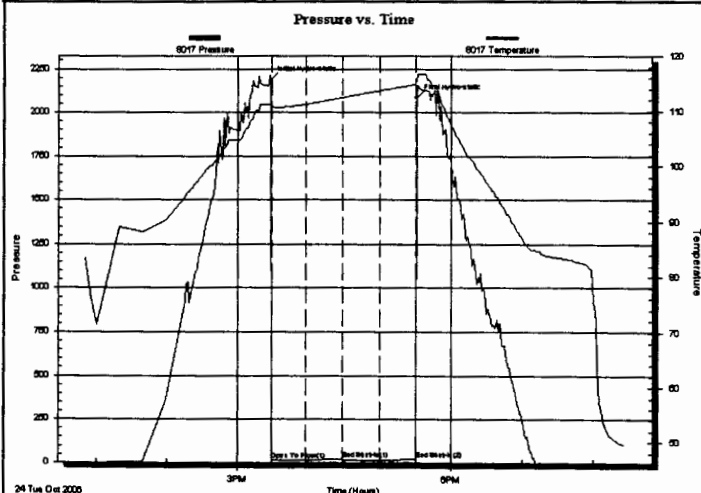
Capacity: 7000.00 psig

Last Calib.: 2006.10.24

Time On Btm: 2006.10.24 @ 15:27:15

Time Off Btm: 2006.10.24 @ 17:30:30

TEST COMMENT: IF Weak surface blow
ISI No return
FF No blow
FSI No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.37	111.32	Initial Hydro-static
1	16.11	110.86	Open To Flow (1)
30	16.22	111.23	Shut-In(1)
61	22.22	112.44	End Shut-In(1)
61	14.89	112.45	Open To Flow(2)
93	15.27	113.74	Shut-In(2)
123	22.58	114.87	End Shut-In(2)
124	2083.05	115.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

#2 Sharp 4 AB

PO Box 783188
Wichita KS 67278-3188

4 18 30 Lane KS

Job Ticket: 25629

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2006.10.24 @ 12:49:30

Tool Information

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	94000.00 lb
		Total Volume:	61.38 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	77000.00 lb
Depth to Top Packer:	4498.00 ft			Final	77000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 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			4479.00	
Shut In Tool	5.00			4484.00	
Hydraulic tool	5.00			4489.00	
Packer	5.00			4494.00	20.00 Bottom Of Top Packer
Packer	4.00			4498.00	
Stubb	1.00			4499.00	
Perforations	1.00			4500.00	
Recorder	0.00	8017	Inside	4500.00	
Perforations	10.00			4510.00	
Change Over Sub	1.00			4511.00	
Anchor	31.00			4542.00	
Change Over Sub	1.00			4543.00	
Recorder	0.00	13309	Inside	4543.00	
Bullnose	5.00			4548.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

#2 Sharp 4 AB

PO Box 783188
Wichita KS 67278-3188

4 18 30 Lane KS

Job Ticket: 25629

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2006.10.24 @ 12:49:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M	0.015

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

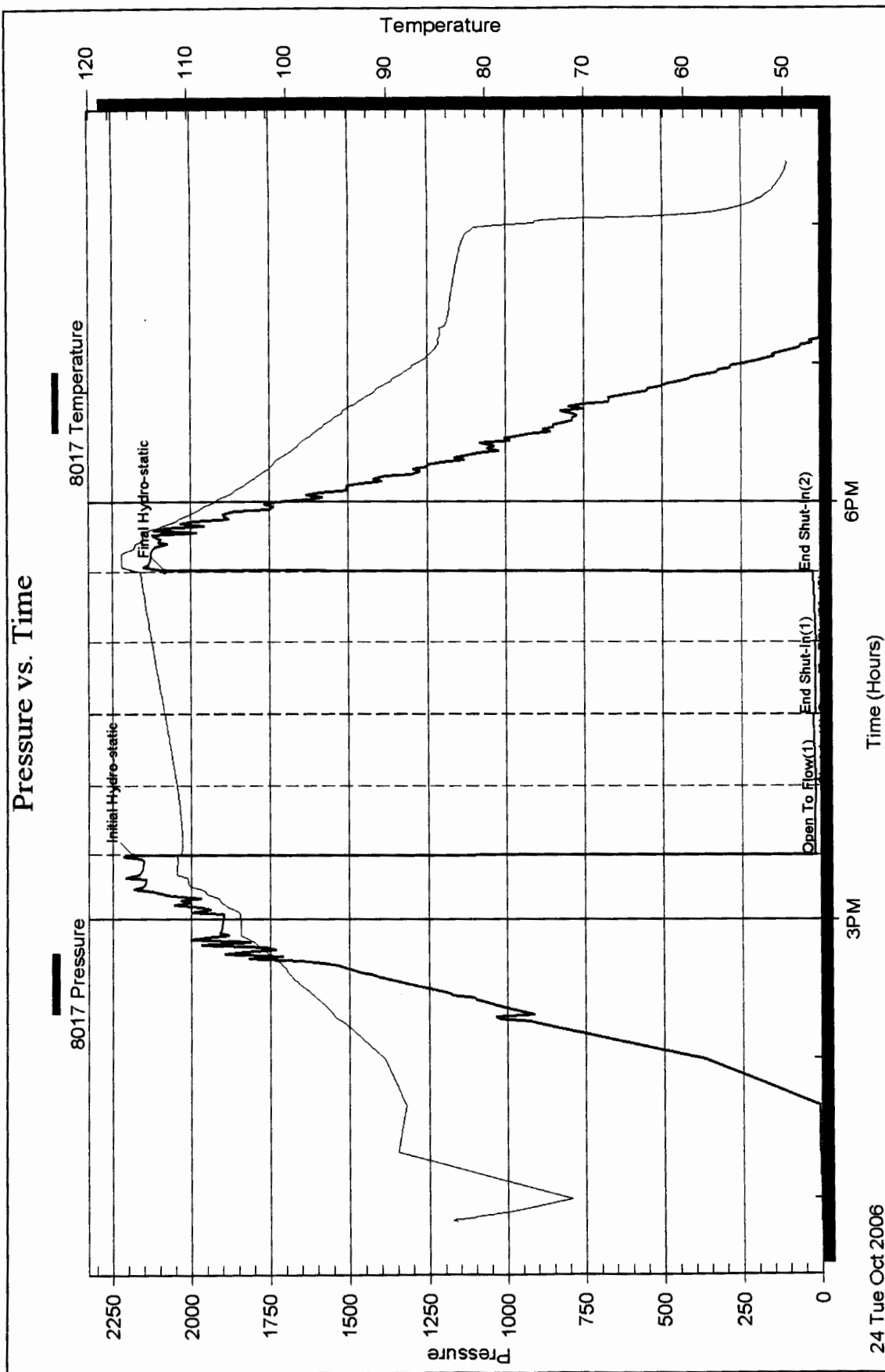
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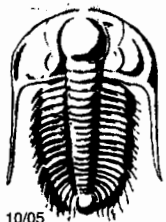
Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of oil in tool.

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9428

25628

Test Ticket

Well Name & No. <u>#2 Sharp 4AB</u>	Test No. <u>1</u>	Date <u>10-23-06</u>
Company <u>Ritchie Exploration Inc.</u>	Zone Tested <u>Marmaton/Altamont</u>	
Address <u>POB 783188 Wichita, KS 67278-3188</u>	Elevation <u>2890</u>	KB <u>2880</u> GL
Co. Rep / Geo. <u>Kim Shoemaker</u>	Rig <u>Murfin #21</u>	
Location: Sec. <u>4</u> Twp. <u>18E</u> Rge. <u>30W</u>	Co. <u>Lane</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4327 to 4391</u>	Initial Str Wt./Lbs. <u>76,000</u>	Unseated Str Wt./Lbs. <u>76,000</u>
Anchor Length <u>64</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>84,000</u>
Top Packer Depth <u>4323</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u>4327</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>4391</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>180</u>
Mud Wt. <u>9.2</u> LCM <u>1</u> Vis. <u>47</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4,156</u>

Blow Description IF: Weak surface blow.

ISI: No return.

FF: No blow.

FSI: No return.

Recovery - Total Feet <u>5</u>	GIP <u>0</u>	Ft. in DC <u>5</u>	Ft. in DP <u>0</u>
Rec. <u>5</u> Feet of <u>M w/spot of oil</u>	%gas	%oil	%water <u>100</u> %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 <u>114</u> °F Gravity <u>0</u> °API D @ _____ °F Corrected Gravity _____ °API			
RW <u>-</u> @ <u>-</u> °F Chlorides <u>2,000</u> ppm Recovery <u>-</u> Chlorides <u>2,000</u> ppm System			

(A) Initial Hydrostatic Mud <u>2,131</u> PSI	Recorder No. <u>8017</u>	Test <u>X</u> <u>1,200"</u>
(B) First Initial Flow Pressure <u>15</u> PSI	(depth) <u>4,329</u>	Jars _____
(C) First Final Flow Pressure <u>19</u> PSI	Recorder No. <u>13309</u>	Safety Jt. _____
(D) Initial Shut-In Pressure <u>869</u> PSI	(depth) <u>4,386</u>	Circ Sub <u>X</u> <u>NIC</u>
(E) Second Initial Flow Pressure <u>21</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>26</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>864</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>2,088</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Final Flow <u>30</u>	Ruined Packer _____
Final Shut-In <u>30</u>	Mileage <u>36 RT</u> <u>45</u>
T-On Location <u>5:46am</u>	Sub Total: _____
T-Started <u>8:20am</u>	Std. By <u>X11.5</u> <u>150</u>
T-Open <u>11:43am</u>	Acc. Chg: <u>X</u> <u>1395</u>
T-Pulled <u>13:44pm</u>	Other: <u>150</u>
T-Out <u>16:20</u>	Total: <u>1545</u>

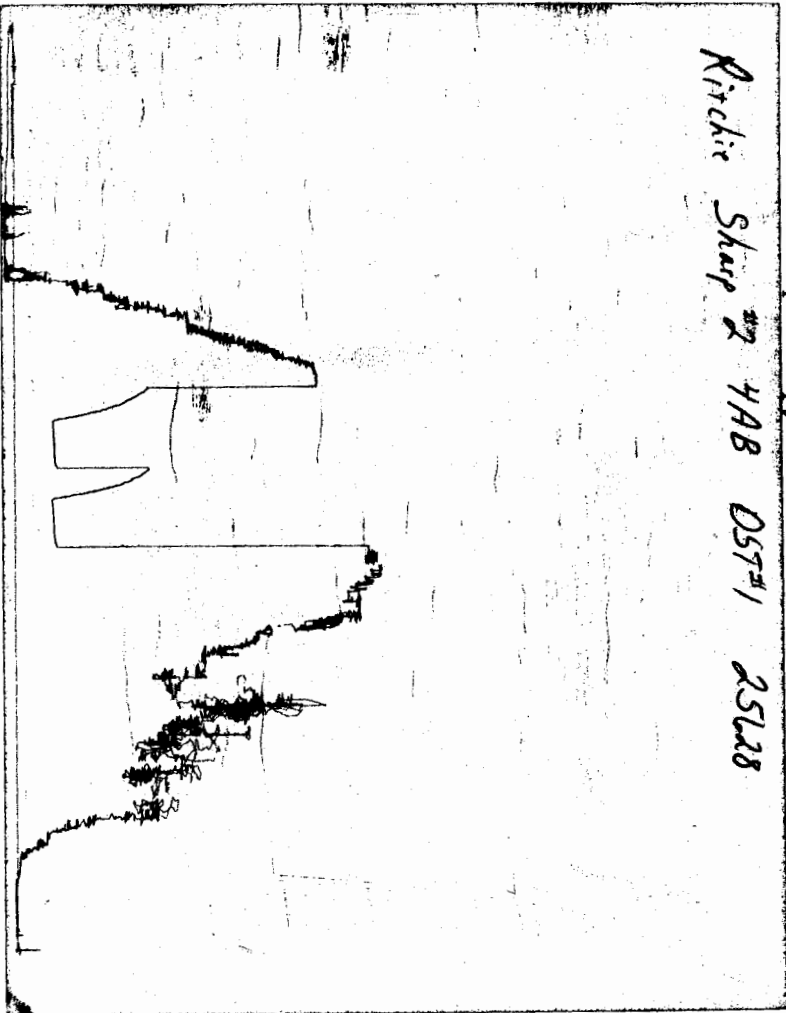
Approved By _____

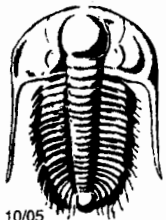
Our Representative Chuck Smith

CHART PAGE

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

Ritchie Sharp #2 4AB 057th 1 25628





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25629

Test Ticket

Well Name & No. <u>#2 Sharp 4AB</u>	Test No. <u>2</u>	Date <u>10-24-06</u>
Company <u>Ritchie Exploration Inc.</u>	Zone Tested <u>Cherokee / Johnson</u>	
Address <u>POB 783188 Wichita, KS 67278-3188</u>	Elevation <u>2890</u>	KB <u>2880</u> GL
Co. Rep / Geo. <u>Kim Shoemaker</u>	Rig <u>Martin #21</u>	
Location: Sec. <u>4</u> Twp. <u>18E</u> Rge. <u>30W</u>	Co. <u>Lane</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4498 to 4548</u>	Initial Str Wt./Lbs. <u>77,000</u>	Unseated Str Wt./Lbs. <u>77,000</u>
Anchor Length <u>50</u>	Wt. Set Lbs. <u>47,000</u>	Wt. Pulled Loose/Lbs. <u>94,000</u>
Top Packer Depth <u>4494</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u>4498</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>4548</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>180</u>
Mud Wt. <u>8.9</u> LCM <u>2</u> Vis. <u>44</u> WL <u>6.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4,312</u>

Blow Description IF: Weak surface blow

ISI: No return.

FF: No blow.

FSI: No return.

Recovery - Total Feet <u>3</u>	GIP <u>0</u>	Ft. in DC <u>3</u>	Ft. in DP <u>-</u>
Rec. <u>3</u> Feet of <u>M spots of oil in tool</u>	%gas	%oil	%water <u>100</u> %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 <u>115</u> °F Gravity <u>-</u>	*API D @ <u>-</u>	*F Corrected Gravity <u>-</u>	*API
RW <u>-</u> @ <u>-</u> °F	Chlorides <u>-</u> ppm Recovery <u>-</u>	Chlorides <u>2,000</u> ppm System	

(A) Initial Hydrostatic Mud <u>AK-1</u>	Alpine <u>2,217</u> PSI	Recorder No. <u>8017</u>	Test <u>X</u> <u>1200</u>
(B) First Initial Flow Pressure <u>16</u> PSI	(depth) <u>4,500</u>	Jars _____	
(C) First Final Flow Pressure <u>16</u> PSI	Recorder No. <u>13309</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure <u>22</u> PSI	(depth) <u>4,543</u>	Circ Sub <u>X</u> <u>N/C</u>	
(E) Second Initial Flow Pressure <u>15</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure <u>15</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure <u>23</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud <u>2,152</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____	
	Final Flow <u>30</u>	Ruined Packer <u>X</u> <u>2000</u>	
	Final Shut-In <u>30</u>	Mileage <u>36 RT</u> <u>45</u>	

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Approved By [Signature]

Our Representative Chuck Smith

T-On Location

T-Started 12:20 pm
T-Open 12:49 pm
T-Pulled 15:27 pm
T-Out 17:30 pm
20:26

Sub Total:

Std. By [Signature]
Acc. Chg: \$1445
Other: [Signature]
Total: [Signature]

CHART PAGE

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

Ritchie #2 Sharp 4AB DST #2 25629

