

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

P.O.Box 783188
Wichita KS 67278-3188

ATTN: Craige Caulk

5-6s-23w

Cricle 3 Ranch 5 D

Start Date: 2005.09.12 @ 14:21:06

End Date: 2005.09.12 @ 21:45:36

Job Ticket #: 22148 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

TOOL DIAGRAM

Ritchie Exploration, Inc.

Cricle 3 Ranch 5 D

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Wichita KS 67278-3188

5-6s-23w

Job Ticket: 22148

DST#: 1

ATTN: Craig Caulk

Test Start: 2005.09.12 @ 14:21:06

Tool Information

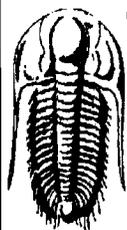
Drill Pipe:	Length: 3422.00 ft	Diameter: 3.80 inches	Volume: 48.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 48.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3596.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3577.00	
Shut In Tool	5.00			3582.00	
Hydraulic tool	5.00			3587.00	
Packer	4.00			3591.00	20.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Perforations	1.00			3598.00	
Change Over Sub	1.00			3599.00	
Recorder	0.00	8018	Inside	3599.00	
Blank Spacing	31.00			3630.00	
Change Over Sub	1.00			3631.00	
Recorder	0.00	11084	Outside	3631.00	
Perforations	20.00			3651.00	
Bullnose	3.00			3654.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



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5-6s-23w

Job Ticket: 22148

DST#: 1

ATTN: Craige Caulk

Test Start: 2005.09.12 @ 14:21:06

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:	65000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
765.00	MSW-20%M-80%SW	9.055

Total Length: 765.00 ft Total Volume: 9.055 bbl

Num Fluid Samples: 0

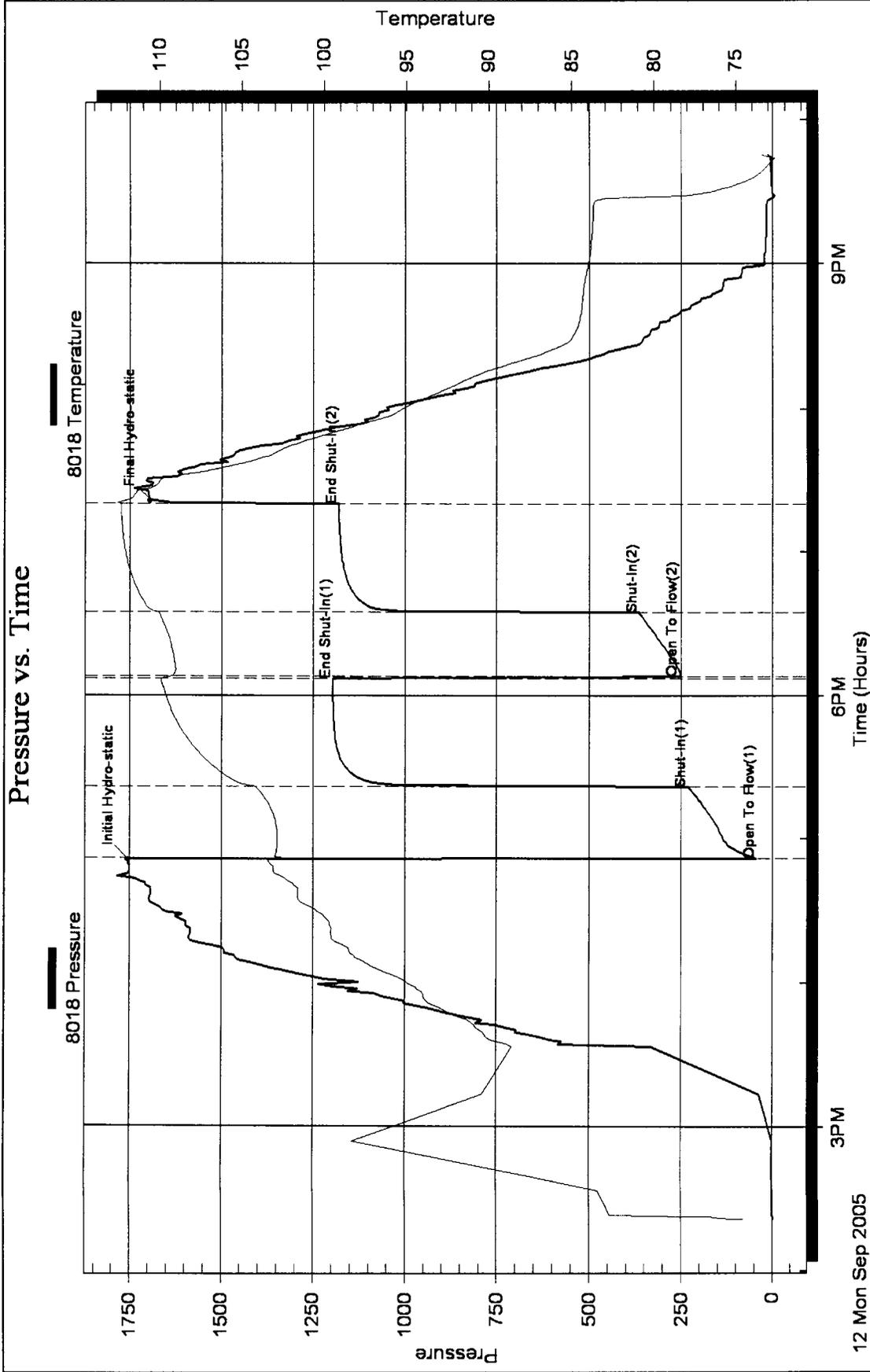
Num Gas Bombs: 0

Serial #:

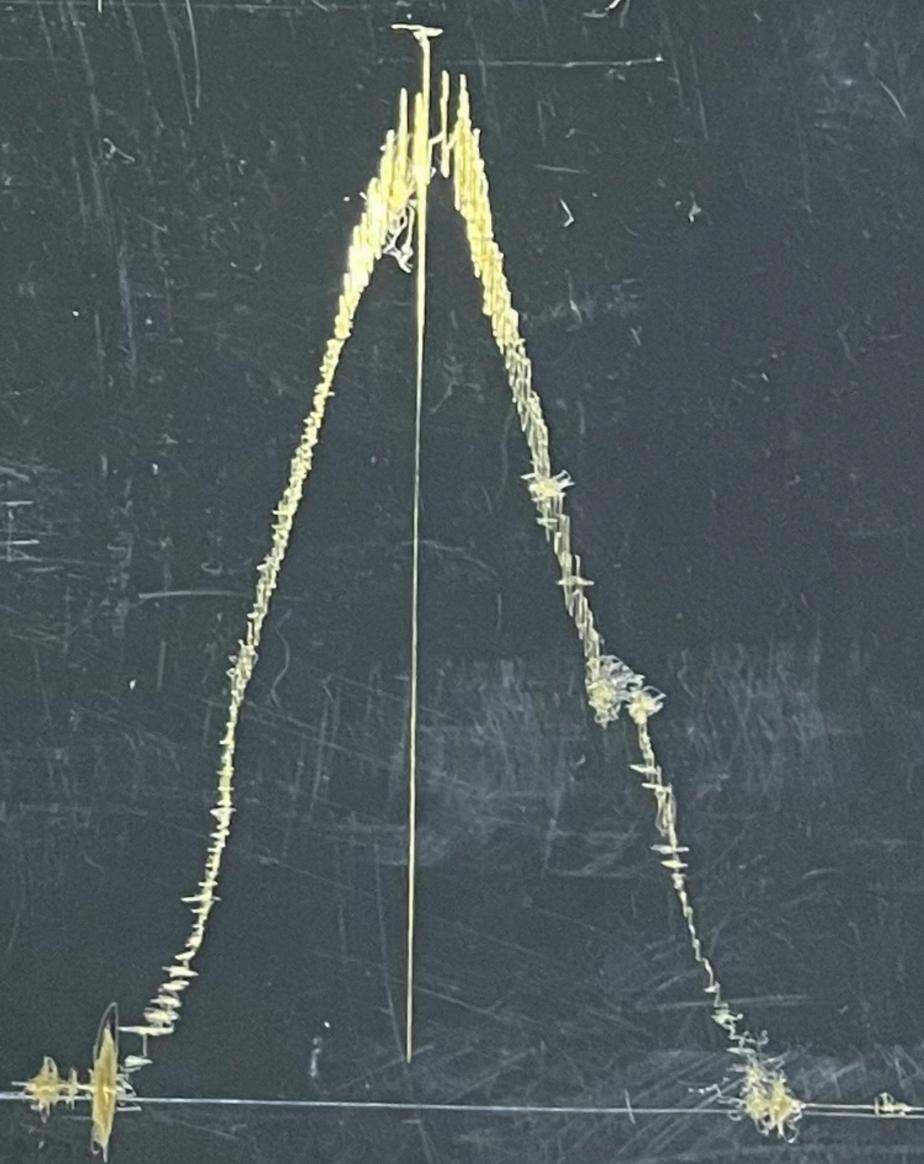
Laboratory Name:

Laboratory Location:

Recovery Comments:



11084
DST#1





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

P.O.Box 783188
Wichita KS 67278-3188

ATTN: Craige Caulk

5-6s-23w

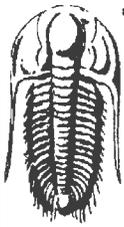
Cricle 3 Ranch 5 D

Start Date: 2005.09.13 @ 13:22:34

End Date: 2005.09.13 @ 21:37:04

Job Ticket #: 22149 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.
P.O.Box 783188
Wichita KS 67278-3188
ATTN: Craig Caulk

Cricle 3 Ranch 5 D
5-6s-23w
Job Ticket: 22149 **DST#: 2**
Test Start: 2005.09.13 @ 13:22:34

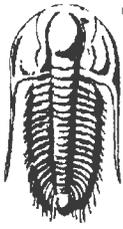
Tool Information

Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.63 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3740.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	115.00 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			3721.00	
Shut In Tool	5.00			3726.00	
Hydraulic tool	5.00			3731.00	
Packer	4.00			3735.00	20.00 Bottom Of Top Packer
Packer	5.00			3740.00	
Stubb	1.00			3741.00	
Perforations	1.00			3742.00	
Change Over Sub	1.00			3743.00	
Recorder	0.00	8018	Inside	3743.00	
Blank Spacing	63.00			3806.00	
Change Over Sub	1.00			3807.00	
Recorder	0.00	11084	Outside	3807.00	
Perforations	25.00			3832.00	
Bullnose	3.00			3835.00	95.00 Bottom Packers & Anchor

Total Tool Length: 115.00



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5-6s-23w

Job Ticket: 22149

DST#: 2

ATTN: Craige Caulk

Test Start: 2005.09.13 @ 13:22:34

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:

58000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
412.00	Muddy S.W.-10%M-90%W	4.103

Total Length: 412.00 ft

Total Volume: 4.103 bbl

Num Fluid Samples: 0

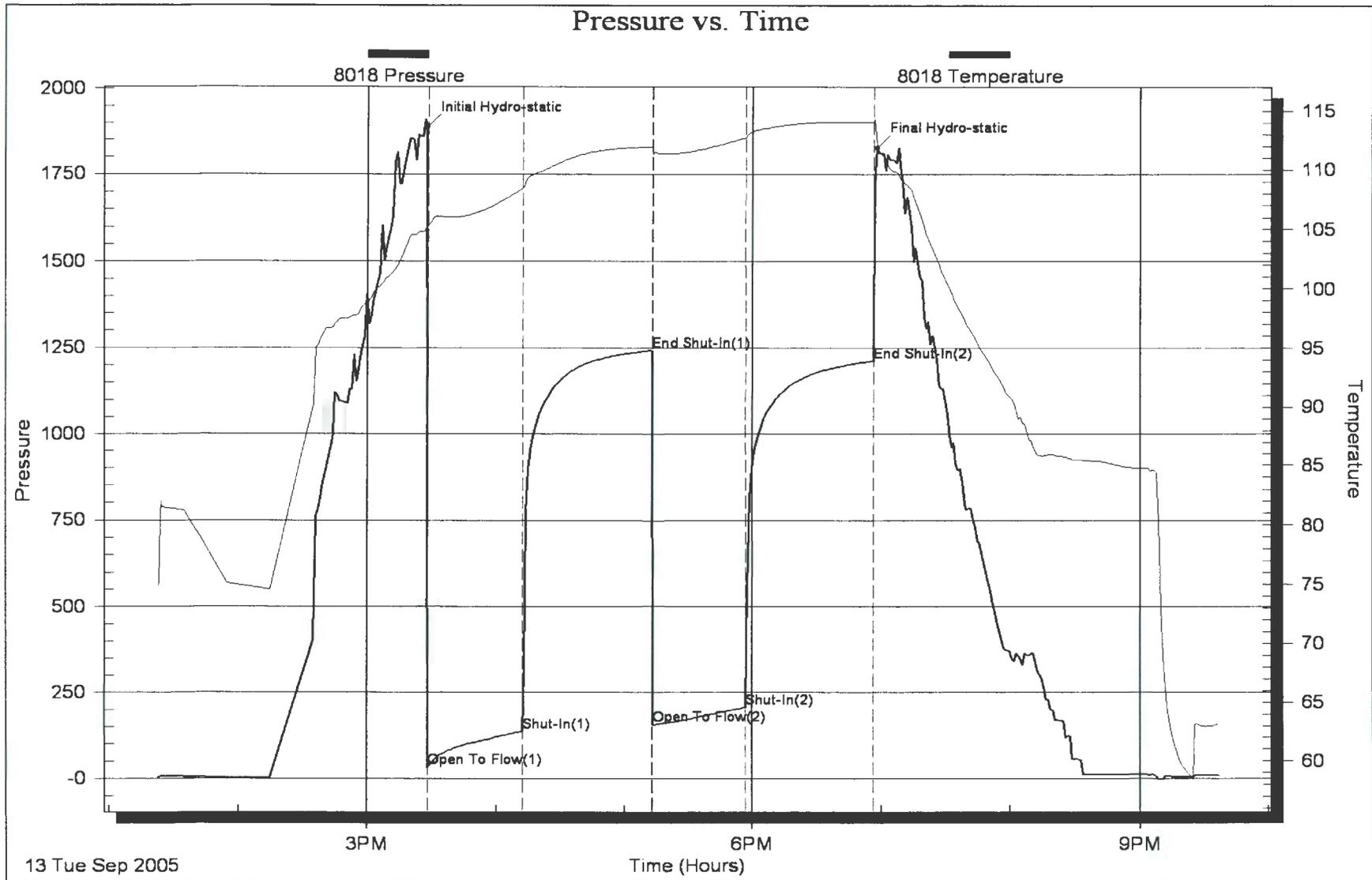
Num Gas Bombs: 0

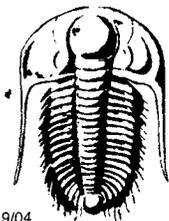
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

1867

No 22148

9/04

Test Ticket

Well Name & No. CIRCLE BRANCH 5 D Test No. #1 Date 9-12-05
 Company RITCHIE EXPLORATION, INC. Zone Tested TOP 4 L.K. A
 Address P.O. BOX 783188 WICHITA, KS, 67278-3188 Elevation 2439 KB 2434 GL
 Co. Rep / Geo. JEFF CHRISTIAN Cont. MURFIN #8 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 5 Twp. 6 S Rge. 23 W Co. GRAHAM State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3596 To 3654 Initial Str Wt./Lbs. 49000 Unseated Str Wt/Lbs. 42,000
 Anchor Length 58' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 48,000
 Top Packer Depth 3591 Tool Weight 2,000
 Bottom Packer Depth 3596 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3654 Wt. Pipe Run 0 Drill Collar Run 184
 Mud Wt. 8.9 LCM 1# Vis. 50 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3422
 Blow Description FF-STRONG B.O.B, 9-MIN. FSI-DEAD
FF-STRONG B.O.B, 12-MIN FSI-DEAD

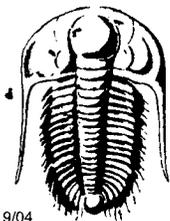
Recovery - Total Feet 765 GIP 0 Ft. in DC 184 Ft. in DP 581
 Rec. 765 Feet of AN.S.W. %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 112 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .1 @ 83 °F Chlorides 65,000 ppm Recovery _____ Chlorides 1,200 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1754</u> PSI	<u>8018</u>	<u>B. HOLE</u>
(B) First Initial Flow Pressure		<u>42</u> PSI	(depth) <u>3599</u>	Jars _____
(C) First Final Flow Pressure		<u>231</u> PSI	Recorder No. <u>11084</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1195</u> PSI	(depth) <u>3631</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>254</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>364</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1180</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1695</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

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 Jeff Christian
 Our Representative John J. Schmidt

Final Flow	<u>30</u>	Ruined Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>R.T. 160</u> <u>120</u>
T-On Location	<u>11:30</u>	Sub Total:	<u># 1110</u>
T-Started	<u>14:21</u>	Std. By	<u>225</u> <u>67.00</u>
T-Open	<u>16:51</u>	Other	_____
T-Pulled	<u>19:21</u>	Total:	<u># 1177.50</u>
T-Out	<u>21:45</u>		



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 22149

9/04

Test Ticket

Well Name & No. CIRCLE 3 RANCH 5-D Test No. #2 Date 9-13-05
 Company RITCHIE EXPLORATION, INC Zone Tested L.K. H to L
 Address _____ Elevation 2439 KB 2434 GL
 Co. Rep / Geo. JEFF CHRISTIAN Cont. MURFIN #8 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 5 Twp. 6^s Rge. 23^w Co. GRAHAM State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3740 To 3835 Initial Str Wt./Lbs. 40,000 Unseated Str Wt/Lbs. 42,000
 Anchor Length 95' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 3735 Tool Weight 2,000
 Bottom Packer Depth 3740 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3835 Wt. Pipe Run 0 Drill Collar Run 184
 Mud Wt. 9.4 LCM 1# Vis. 52 WL 6.0 Drill Pipe Size 4 1/2 XH Ft. Run 3545
 Blow Description IF-STRONG B.O.B. 30-MIN. FSI-DEAD
FF-STRONG B.O.B. 35-MIN. FSF-DEAD

Recovery - Total Feet 412' GIP 0 Ft. in DC 184 Ft. in DP 228
 Rec. 412 Feet of MUDDY SW %gas _____ %oil 90 %water 10 %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 114 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .14 @ 72 °F Chlorides 58,000 ppm Recovery _____ Chlorides 2,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1887</u> PSI	<u>8018</u>	<u>B, HOLE 95'</u>
(B) First Initial Flow Pressure		<u>33</u> PSI	(depth) <u>3743</u>	Jars _____
(C) First Final Flow Pressure		<u>136</u> PSI	Recorder No. <u>11084</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1241</u> PSI	(depth) <u>3807</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>157</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>206</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1211</u> PSI	Initial Opening <u>45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1826</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

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 Our Representative John F. Schmidt

Final Flow 45 Ruined Packer _____
 Final Shut-In 60 Mileage RT. 42 92
T-On Location 12:45 Sub Total: 992
 T-Started 13:22 Std. By 34
 T-Open 15:28 Other _____
 T-Pulled 18:57 Total: 510,495
 T-Out 21:37

11084

DST # 2

