

**TRILOBITE
TESTING, INC.**

Release
NOV 04 2003
**From
Confidential**

DRILL STEM TEST REPORT

ORIGINAL

Prepared For: **Murfin Drilling**

250 N Water St
Ste 300
Wichita Ks 67202

CONFIDENTIAL

ATTN: Murfin Drilling

KCC

33-2-41 Cheyenne KS
OCT 03 2002

Marvin #2-33

Start Date: 2002.08.03 @ 23:17:00

End Date: 2002.08.04 @ 05:22:59

Job Ticket #: 15121 DST #: 1

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KCC WICHITA

Murfin Drilling

Marvin #2-33

33-2-41 Cheyenne KS

DST # 1

foraker

2002.08.03

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



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling
 250 N Water St
 Ste 300
 Wichita, Ks 67202
 ATTN: Murfin Drilling

Marvin #2-33
 33-2-41 Cheyenne KS
 Job Ticket: 15121 DST#: 1
 Test Start: 2002.08.03 @ 23:17:00

GENERAL INFORMATION:

Formation: foraker
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:19:59
 Time Test Ended: 05:22:59
 Interval: 4136.00 ft (KB) To 4190.00 ft (KB) (TVD)
 Total Depth: 4190.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

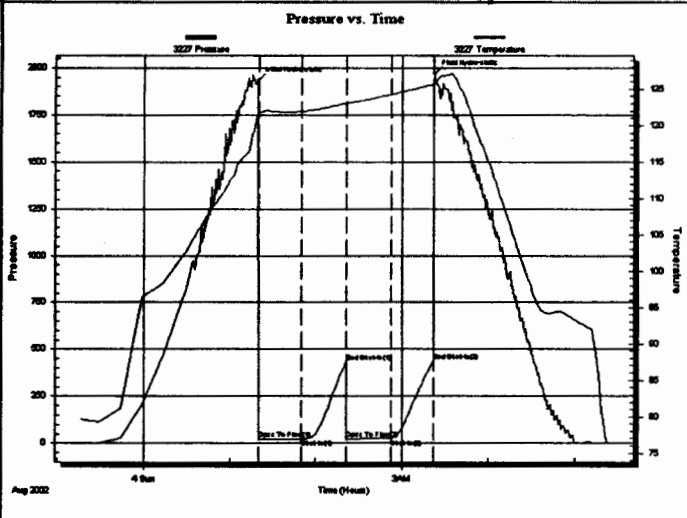
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Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 15
 Reference Elevations: 3663.00 ft (KB)
 3658.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 3227 Inside
 Press@RunDepth: 24.40 psig @ 4137.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.08.03 End Date: 2002.08.04 Last Calib.: 1899.12.30
 Start Time: 23:17:00 End Time: 05:22:59 Time On Btm: 2002.08.04 @ 01:19:44
 Time Off Btm: 2002.08.04 @ 03:22:14

TEST COMMENT: F Weak blow died in 8 min.
 ISI No return
 FF No blow
 FSI No return

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PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.65	121.48	Initial Hydro-static
1	22.50	121.43	Open To Flow (1)
30	23.98	121.94	Shut-In(1)
62	431.27	123.10	End Shut-In(1)
62	23.52	123.07	Open To Flow(2)
93	24.40	124.25	Shut-In(2)
122	434.28	125.64	End Shut-In(2)
123	1968.76	125.83	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	drilling mud 100% mud	0.01

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

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ORIGINAL



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling
250 N Water St
Ste 300
Wichita, Ks 67202
ATTN: Murfin Drilling

Marvin #2-33
33-2-41 Cheyenne KS
Job Ticket: 15121 DST#: 1
Test Start: 2002.08.03 @ 23:17:00

Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 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: 500.00 ft	Diameter: 2.25 inches	Volume: 2.46 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 53.62 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4136.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4117.00	
S.I. Tool	5.00			4122.00	
HMV	5.00			4127.00	
Packer	5.00			4132.00	20.00 Bottom Of Top Packer
Packer	4.00			4136.00	
Stubb	1.00			4137.00	
Recorder	0.00	3227	Inside	4137.00	
Perforations	14.00			4151.00	
C.O. Sub	1.00			4152.00	
drillpipe	32.00			4184.00	
C.O. Sub	1.00			4185.00	
Recorder	0.00	11057	Outside	4185.00	
Bullnose	5.00			4190.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

Marvin #2-33

250 N Water St
Ste 300
Wichita, Ks 67202
ATTN: Murfin Drilling

33-2-41 Cheyenne KS
Job Ticket: 15121 DST#: 1
Test Start: 2002.08.03 @ 23:17:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:		deg API
Mud Weight:	8.00 lb/gal	Cushion Length:	ft	Water Salinity:		ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl			
Water Loss:	8.35 in ³	Gas Cushion Type:				
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig			
Salinity:	1000.00 ppm					
Filter Cake:	1.00 inches					

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	drilling mud 100% mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 3227

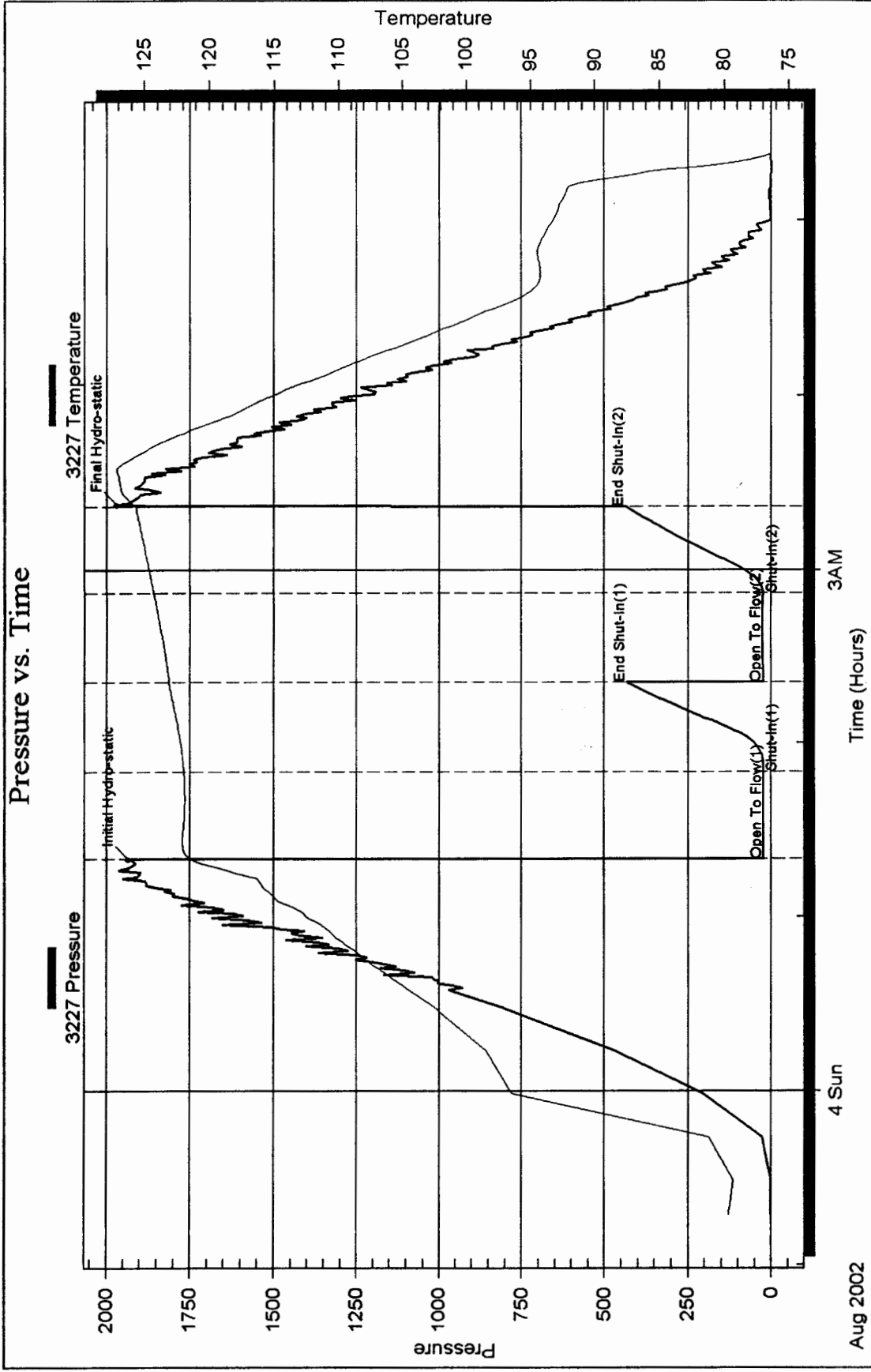
Inside

Murfin Drilling

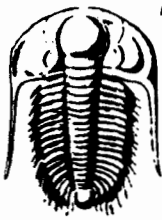
33-2-41 Cheyenne KS

DST Test Number: 1

Pressure vs. Time



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TRILOBITE TESTING INC.

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Test Ticket

Well Name & No. <u>Marlin #2-33</u>	Test No. <u>#1</u>	Date <u>8-3-02</u>
Company <u>Muchin Drilling</u>	Zone Tested <u>Foraker</u>	
Address <u>Wichita, Ks</u>	Elevation <u>3663</u>	KB <u>3658</u> GL
Co. Rep / Geo. <u>Brad Rine</u>	Cont. <u>Marlin #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>33</u> Twp. <u>25</u> Rge. <u>4/w</u>	Co. <u>Cheyenne</u>	State <u>K.s</u>
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4136'</u>	<u>4190'</u>	Initial Str Wt./Lbs. <u>60,000</u>	Unseated Str Wt./Lbs. <u>60,000</u>
Anchor Length <u> </u>	<u>54'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>75,000</u>
Top Packer Depth <u> </u>	<u>4131'</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u> </u>	<u>4136'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u> </u>	<u>4190'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>500' XH</u>
Mud Wt. <u>8.6</u> LCM <u>Tr</u> Vis. <u>53</u> WL <u>8.4</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3647'</u>
Blow Description <u>Weak blow died in 8 min.</u>			

No return
No blow
No return

Recovery — Total Feet <u>2'</u>	GIP <u> </u>	Ft. in DC <u>2'</u>	Ft. in DP <u> </u>
Rec. <u>2'</u> Feet Of <u>Drilling Mud</u>	%gas <u> </u>	%oil <u> </u>	%water <u>100%</u> mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> mud <u> </u>
BHT <u>125°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery <u> </u>	Chlorides <u>1000</u>	ppm System <u> </u>

(A) Initial Hydrostatic Mud	AK-1 <u>1933</u> PSI	Alpine Recorder No. <u>3227</u>	T-On Location <u>21:50 p.m.</u>
(B) First Initial Flow Pressure	<u>22</u> PSI	(depth) <u>4137'</u>	T-Started <u>23:10 p.m.</u>
(C) First Final Flow Pressure	<u>23</u> PSI	Recorder No. <u>11057</u>	T-Open <u>01:15 a.m.</u>
(D) Initial Shut-in Pressure	<u>431</u> PSI	(depth) <u>4185'</u>	T-Pulled <u>03:15 a.m.</u>
(E) Second Initial Flow Pressure	<u>23</u> PSI	Recorder No. <u> </u>	T-Out <u>05:40 a.m.</u>
(F) Second Final Flow Pressure	<u>24</u> PSI	(depth) <u> </u>	T-Off Location <u>06:40 a.m.</u>
(G) Final Shut-in Pressure	<u>434</u> PSI	Initial Opening <u>30</u>	Test <u>X</u>
(Q) Final Hydrostatic Mud	<u>1924</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>

Final Flow <u>30</u>	Safety Joint <u> </u>
Final Shut-in <u>30</u>	Straddle <u> </u>
	Circ. Sub <u>X N/C</u>
	Sampler <u> </u>
	Extra Packer <u> </u>
	Elec. Rec. <u>X</u>
	Mileage <u>160 way</u>
	Other <u> </u>
	TOTAL PRICE \$ <u> </u>

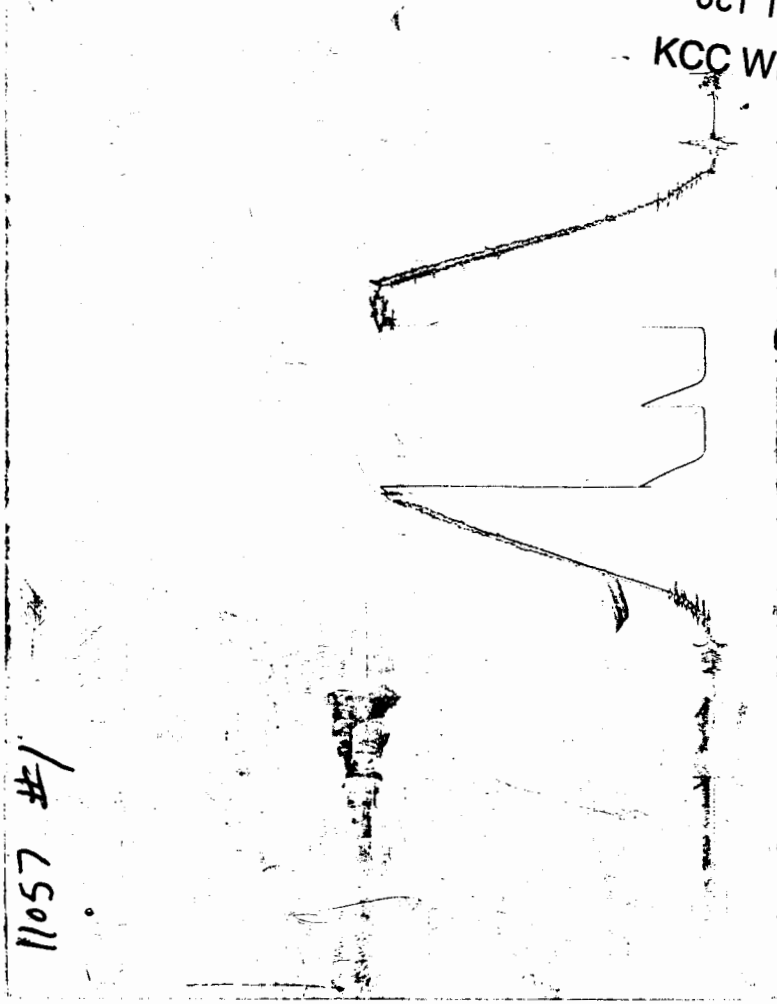
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Approved By Brad Rine

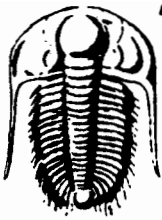
Our Representative Shane M. Rine

CHART PAGE

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



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No 15122

KCC WICHITA

Test Ticket

Well Name & No. Malvin #2-33 Test No. #2 Date 8-5-02
 Company Martin Drilling Zone Tested Lans A
 Address Wichita Ks Elevation 3663 KB 3658 GL
 Co. Rep / Geo. Brad Pine Cont. Martin #3 Est. Ft. of Pay Por. %
 Location: Sec. 33 Twp. 2s Rge. 4W Co. Cheyenne State Ks
 No. of Copies Norm Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4461 4516 Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 62,000
 Anchor Length 55 Wt. Set Lbs. 39,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4456 Tool Weight 1,500
 Bottom Packer Depth 4461 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4516 Wt. Pipe Run Drill Collar Run 500'
 Mud Wt. 9.1 LCM fr Vis. 62 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3956'
 Blow Description Weak blow died in 15 min

No return
No blow
No return

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>2'</u> Feet Of <u>Free oil</u>	<u> </u>	<u>5'</u>	<u> </u>
Rec. <u>3'</u> Feet Of <u>OCM</u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>

BHT 135° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 1000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2241</u>	<u>2241</u>	<u> </u>	<u>5227</u>	<u>09:00 a.m.</u>
(B) First Initial Flow Pressure	<u>41</u>	<u>41</u>	<u> </u>	<u>4462'</u>	<u>10:45 a.m.</u>
(C) First Final Flow Pressure	<u>43</u>	<u>43</u>	<u> </u>	<u>11057</u>	<u>12:50 p.m.</u>
(D) Initial Shut-in Pressure	<u>1119</u>	<u>1119</u>	<u> </u>	<u>4511'</u>	<u>14:50 p.m.</u>
(E) Second Initial Flow Pressure	<u>45</u>	<u>45</u>	<u> </u>	<u> </u>	<u>16:45 p.m.</u>
(F) Second Final Flow Pressure	<u>47</u>	<u>47</u>	<u> </u>	<u> </u>	<u>17:45 p.m.</u>
(G) Final Shut-in Pressure	<u>1069</u>	<u>1069</u>	<u> </u>	<u>30</u>	<u>Test</u>
(Q) Final Hydrostatic Mud	<u>2182</u>	<u>2182</u>	<u> </u>	<u>30</u>	<u>Jars</u>

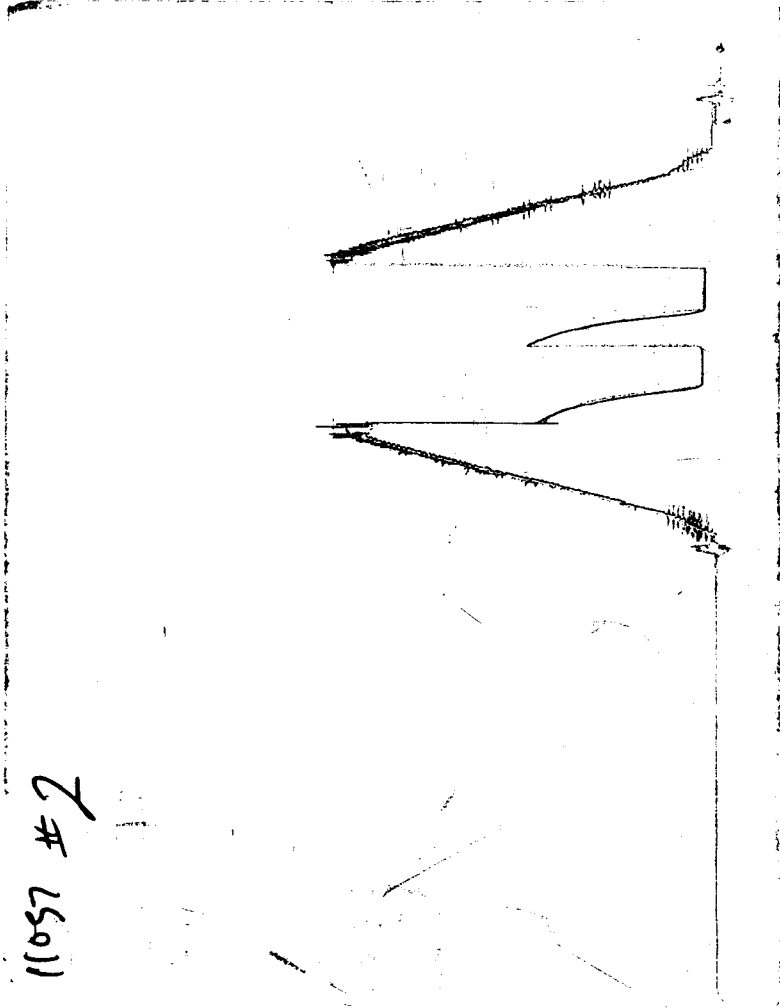
Final Flow 30 Safety Joint
 Final Shut-in 30 Straddle
 Circ. Sub N/C
 Sampler
 Extra Packer
 Elec. Rec. ✓
 Mileage 160 1 way
 Other
 TOTAL PRICE \$

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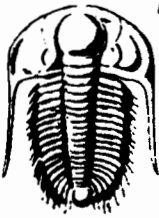
Approved By Brad Pine
 Our Representative

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

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OCT 18 2002 No 15123

Test Ticket KCC WICHITA

Well Name & No. Manning # 2-33 Test No. #3 Date 8-6-02
 Company Martin Drilling Zone Tested Lans D
 Address Wichita, KS Elevation 3163 KB 3658 GL
 Co. Rep / Geo. Brad Rine Cont. Martin #3 Est. Ft. of Pay Por. %
 Location: Sec. 33 Twp. 25 Rge. 41w Co. Cheyenne State KS
 No. of Copies 1 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4574 4592 Initial Str Wt./Lbs. 63000 Unseated Str Wt./Lbs. 63000
 Anchor Length 18 Wt. Set Lbs. 30000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 4569 Tool Weight 1500
 Bottom Packer Depth 4574 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4592 Wt. Pipe Run Drill Collar Run 500'
 Mud Wt. 9.1 LCM Vis. 62 WL 6.8 Drill Pipe Size 4 1/2 X 11 Ft. Run 4080'
 Blow Description 1/2" in @ open, died in 25 min
No return
Bubble to open tool no blow
No return

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>180'</u>	<u> </u>	<u>180'</u>	<u> </u>
Rec. <u>180'</u>	Feet Of <u>MCW (show of oil on top)</u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>

BHT 140° °F Gravity °API D@ °F Corrected Gravity °API
 RW 215 @ 80° °F Chlorides 28,400 ppm Recovery Chlorides 1000 ppm System

AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2266</u> PSI	<u>3227</u>	<u>02:30 A.M.</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	(depth) <u>4575'</u>	T-Started <u>02:50 A.M.</u>
(C) First Final Flow Pressure	<u>54</u> PSI	Recorder No. <u>11057</u>	T-Open <u>05:10 A.M.</u>
(D) Initial Shut-in Pressure	<u>1261</u> PSI	(depth) <u>4587'</u>	T-Pulled <u>07:40 A.M.</u>
(E) Second Initial Flow Pressure	<u>60</u> PSI	Recorder No. <u> </u>	T-Out <u>09:50 A.M.</u>
(F) Second Final Flow Pressure	<u>92</u> PSI	(depth) <u> </u>	T-Off Location <u>10:50 A.M.</u>
(G) Final Shut-in Pressure	<u>1215</u> PSI	Initial Opening <u>30</u>	Test <u>X</u>
(Q) Final Hydrostatic Mud	<u>2253</u> PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
		Final Flow <u>30</u>	Safety Joint <u> </u>
		Final Shut-in <u>45</u>	Straddle <u> </u>

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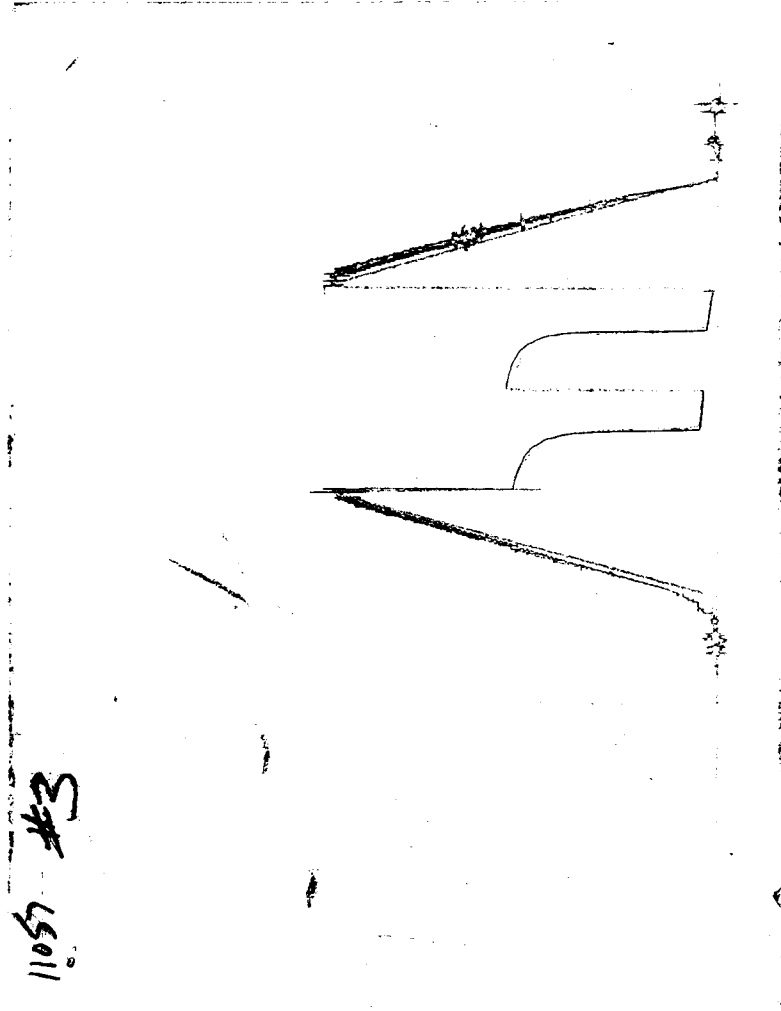
Approved By Brad Rine
 Our Representative Shirley M. Rine

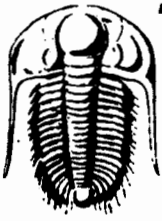
Circ. Sub X n/c
 Sampler
 Extra Packer
 Elec. Rec. X
 Mileage 11 way
 Other
 TOTAL PRICE \$

CHART PAGE

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11057 #3





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

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OCT 18 2002 No 15124

KCC WICHITA

Test Ticket

Well Name & No. Martin #2-33 Test No. #4 Date 8-7-02
 Company Martin Drilling Zone Tested H, I, J
 Address Wichita, Ks Elevation 3663 KB 3658 GL
 Co. Rep / Geo. Brad Rice Cont. Martin #3 Est. Ft. of Pay Por. %
 Location: Sec. 33 Twp. 2s Rge. 4W Co. Cherokee State Ks
 No. of Copies 1 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4635 4710 Initial Str Wt./Lbs. 66,000 Unseated Str Wt./Lbs. 70,000
 Anchor Length 75 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 85,000
 Top Packer Depth 4630 Tool Weight 1500
 Bottom Packer Depth 4635 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4710 Wt. Pipe Run Drill Collar Run 500'
 Mud Wt. 9.2 LCM 0 Vis. 600 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4145'

Blow Description B.O.B in Cement
Bleed off 10 min, return to B.O.B in 2 min.
B.O.B @ open
Bleed off 5 min, 1" in return blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>180</u> Feet Of <u>590</u>	<u>10</u> %gas <u>90</u> %oil	<u>1180</u>	<u>500</u>
Rec. <u>820</u> Feet Of <u>190</u>	<u>35</u> %gas <u>65</u> %oil		
Rec. <u>400</u> Feet Of <u>5 MC 90</u>	<u>30</u> %gas <u>60</u> %oil		<u>10</u> %mud
Rec. <u>280</u> Feet Of <u>MC 90</u>	<u>25</u> %gas <u>45</u> %oil		<u>30</u> %mud
Rec. <u> </u> Feet Of <u> </u>	<u> </u> %gas <u> </u> %oil		<u> </u> %water <u> </u> %mud

BHT 151° °F Gravity 36° °API D@ 100° °F Corrected Gravity 32 °API
 RW @ °F Chlorides ppm Recovery Chlorides 1000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2353</u>	<u>3227</u>	<u>3227</u>	<u>06:00 a.m.</u>
(B) First Initial Flow Pressure	<u>63</u>	<u>4636'</u>	<u>4636'</u>	<u>07:20 a.m.</u>
(C) First Final Flow Pressure	<u>368</u>	<u>11057</u>	<u>11057</u>	<u>09:15 a.m.</u>
(D) Initial Shut-In Pressure	<u>1399</u>	<u>4705'</u>	<u>4705'</u>	<u>13:00 p.m.</u>
(E) Second Initial Flow Pressure	<u>385</u>	<u> </u>	<u> </u>	<u>17:00 p.m.</u>
(F) Second Final Flow Pressure	<u>625</u>	<u> </u>	<u> </u>	<u>18:00 p.m.</u>
(G) Final Shut-in Pressure	<u>1283</u>	<u>30</u>	<u>30</u>	<u> </u>
(Q) Final Hydrostatic Mud	<u>2311</u>	<u>45</u>	<u>45</u>	<u> </u>

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Approved By Brad Rice
 Our Representative
 Final Flow 60 Safety Joint
 Final Shut-in 90 Straddle
 Circ. Sub X N/C
 Sampler
 Extra Packer
 Elec. Rec. X
 Mileage X 11 luxury
 Other
 TOTAL PRICE \$

CHART PAGE

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

