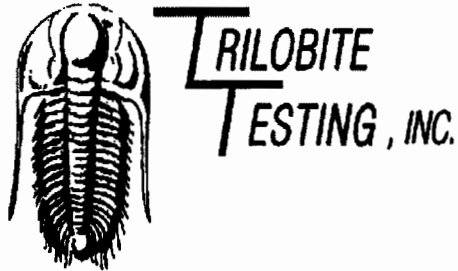


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DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co.**

34861 Forrest Park Dr
Elizabeth, CO 80107

ORIGINAL

ATTN: Dark Horse Oil Co.

13-2-27 Decatur, KS

Long Family Trust # 2-13

Start Date: 2002.08.20 @ 13:44:05

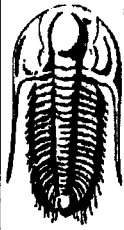
End Date: 2002.08.20 @ 18:51:04

Job Ticket #: 15176 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

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

ATTN: Dark Horse Oil Co.

Job Ticket: 15176

DST#: 1

Test Start: 2002.08.20 @ 13:44:05

GENERAL INFORMATION:

Formation: **Lans A**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 15:25:49

Time Test Ended: 18:51:04

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **15**

Interval: **3477.00 ft (KB) To 3528.00 ft (KB) (TVD)**

Reference Elevations: **2663.00 ft (KB)**

Total Depth: **3528.00 ft (KB) (TVD)**

2658.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: 3227

Inside

Press@RunDepth: **91.71 psig @ 3478.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.08.20**

End Date:

2002.08.20

Last Calib.: **1899.12.30**

Start Time: **13:44:05**

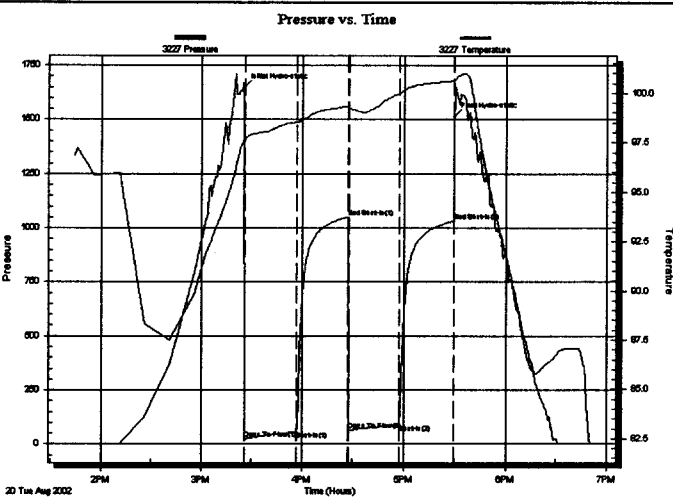
End Time:

18:51:04

Time On Btm: **2002.08.20 @ 15:25:34**

Time Off Btm: **2002.08.20 @ 17:29:34**

TEST COMMENT: F-Weak blow built to 2" in.
IS-No return
FF-Weak 1 1/2 "in. blow
FS-No return



PRESSURE SUMMARY


| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1647.43 | 97.68 | Initial Hydro-static |
| 1 | 22.00 | 97.60 | Open To Flow (1) |
| 32 | 58.89 | 98.52 | Shut-in(1) |
| 62 | 1051.25 | 99.32 | End Shut-in(1) |
| 62 | 63.53 | 99.26 | Open To Flow (2) |
| 92 | 91.71 | 99.98 | Shut-in(2) |
| 124 | 1032.79 | 100.62 | End Shut-in(2) |
| 124 | 1513.42 | 100.63 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

| | | |
|--|--|--|
|  <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p> | DRILL STEM TEST REPORT | TOOL DIAGRAM |
| | Dark Horse Oil Co. 34861 Forrest Park Dr Elizabeth, CO 80107 ATTN: Dark Horse Oil Co. | Long Family Trust # 2-13 13-2-27 Decatur, KS Job Ticket: 15176 DST#: 1 Test Start: 2002.08.20 @ 13:44:05 |

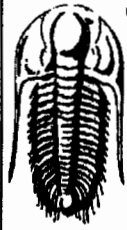
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3000.00 ft | Diameter: 3.80 inches | Volume: 42.08 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: 470.00 ft | Diameter: 2.25 inches | Volume: 2.31 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 44.39 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 13.00 ft | | | String Weight: Initial 52000.00 lb |
| Depth to Top Packer: | 3477.00 ft | | | Final 52000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 51.00 ft | | | |
| Tool Length: | 71.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| C.O. Sub | 1.00 | | | 3458.00 | |
| S.I. Tool | 5.00 | | | 3463.00 | |
| HMV | 5.00 | | | 3468.00 | |
| Packer | 5.00 | | | 3473.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3477.00 | |
| Stubb | 1.00 | | | 3478.00 | |
| Recorder | 0.00 | 3227 | Inside | 3478.00 | |
| Perforations | 12.00 | | | 3490.00 | |
| C.O. Sub | 1.00 | | | 3491.00 | |
| drillpipe | 31.00 | | | 3522.00 | |
| C.O. Sub | 1.00 | | | 3523.00 | |
| Recorder | 0.00 | 11057 | Outside | 3523.00 | |
| Bullnose | 5.00 | | | 3528.00 | 51.00 Bottom Packers & Anchor |

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

Job Ticket: 15176

DST#: 1

ATTN: Dark Horse Oil Co.

Test Start: 2002.08.20 @ 13:44:05

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: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.17 in ³ | 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

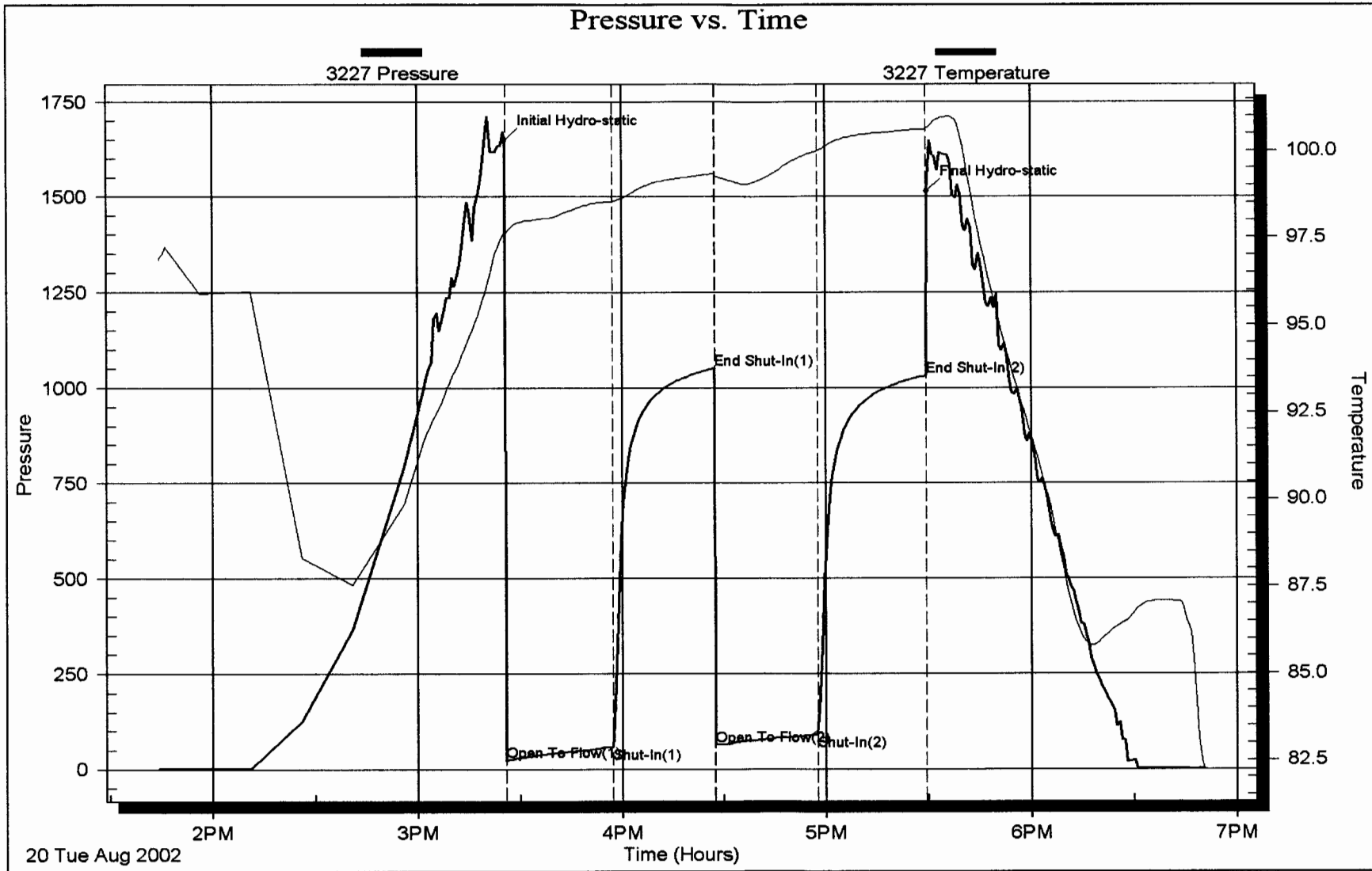
| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| | | |

Total Length: ft Total Volume: 0.590 bbl

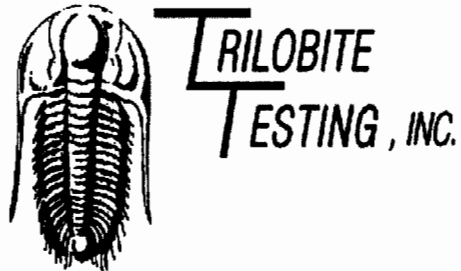
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co.**

34861 Forrest Park Dr
Elizabeth, CO 80107

ATTN: Dark Horse Oil Co.

13-2-27 Decatur, KS

Long Family Trust # 2-13

Start Date: 2002.08.20 @ 23:52:04

End Date: 2002.08.21 @ 05:29:33

Job Ticket #: 15177 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

Dark Horse Oil Co.
34861 Forrest Park Dr
Elizabeth, CO 80107
ATTN: Dark Horse Oil Co.

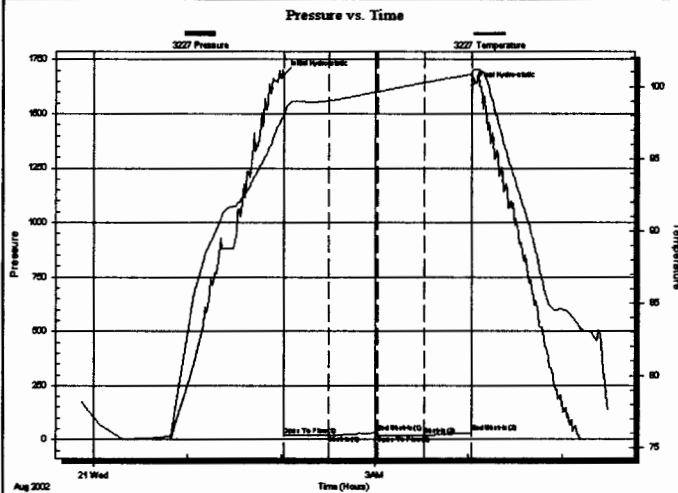
Long Family Trust # 2-13
13-2-27 Decatur, KS
Job Ticket: 15177 **DST#: 2**
Test Start: 2002.08.20 @ 23:52:04

GENERAL INFORMATION:

Formation: **Lans B**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **02:01:48** Tester: **Shane McBride**
 Time Test Ended: **05:29:33** Unit No: **15**
 Interval: **3532.00 ft (KB) To 3558.00 ft (KB) (TVD)** Reference Elevations: **2663.00 ft (KB)**
 Total Depth: **3558.00 ft (KB) (TVD)** **2658.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 3227 **Inside**
 Press@RunDepth: **19.84 psig @ 3533.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2002.08.20** End Date: **2002.08.21** Last Calib.: **1899.12.30**
 Start Time: **23:52:04** End Time: **05:29:33** Time On Btm: **2002.08.21 @ 02:01:33**
 Time Off Btm: **2002.08.21 @ 04:02:18**

TEST COMMENT: F-Weak blow died in 10 min.
 IS-No return
 FF-Bubble to open tool, no blow
 FSI-No return



PRESSURE SUMMARY

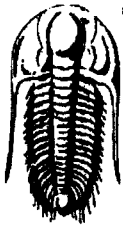
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1681.33 | 97.98 | Initial Hydro-static |
| 1 | 17.61 | 97.96 | Open To Flow (1) |
| 29 | 18.53 | 99.02 | Shut-in(1) |
| 60 | 32.59 | 99.64 | End Shut-in(1) |
| 61 | 18.61 | 99.64 | Open To Flow (2) |
| 90 | 19.84 | 100.27 | Shut-in(2) |
| 121 | 30.67 | 100.86 | End Shut-in(2) |
| 121 | 1629.78 | 100.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 2.00 | drilling mud w/oil scum | 0.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

Job Ticket: 15177

DST#: 2

ATTN: Dark Horse Oil Co.

Test Start: 2002.08.20 @ 23:52:04

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3062.00 ft | Diameter: 3.80 inches | Volume: 42.95 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: 470.00 ft | Diameter: 2.25 inches | Volume: 2.31 bbl | Weight to Pull Loose: 67000.00 lb |
| | | | <u>Total Volume: 45.26 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 53000.00 lb |
| Depth to Top Packer: | 3532.00 ft | | | Final 53000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 26.00 ft | | | |
| Tool Length: | 46.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3513.00 | |
| S.I. Tool | 5.00 | | | 3518.00 | |
| HMV | 5.00 | | | 3523.00 | |
| Packer | 5.00 | | | 3528.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3532.00 | |
| Stubb | 1.00 | | | 3533.00 | |
| Recorder | 0.00 | 3227 | inside | 3533.00 | |
| Perforations | 20.00 | | | 3553.00 | |
| Recorder | 0.00 | 11057 | Outside | 3553.00 | |
| Bullnose | 5.00 | | | 3558.00 | 26.00 Bottom Packers & Anchor |
| Total Tool Length: | 46.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

Job Ticket: 15177

DST#: 2

ATTN: Dark Horse Oil Co.

Test Start: 2002.08.20 @ 23:52:04

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 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 |
|--------------|-------------------------|---------------|
| 2.00 | drilling mud w/oil scum | 0.010 |

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

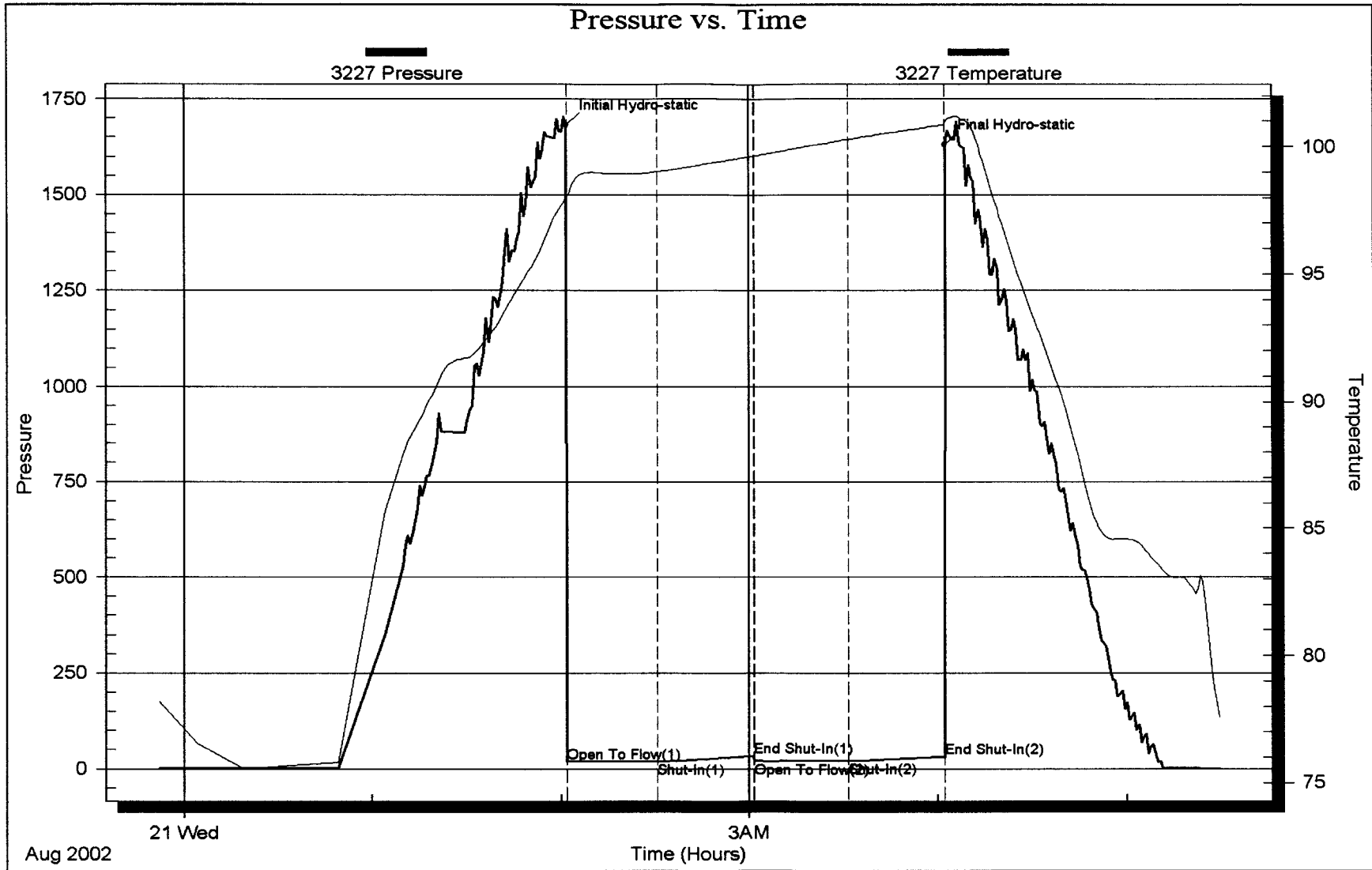
Num Gas Bombs: 0

Serial #:

Laboratory Name:

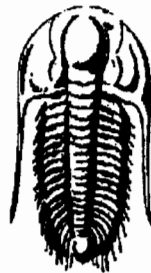
Laboratory Location:

Recovery Comments:



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2002 OCT -7 @ 1:39



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co.**

34861 Forrest Park Dr
Elizabeth, CO 80107

ATTN: Dark Horse Oil Co.

13-2-27 Decatur, KS

Long Family Trust # 2-13

Start Date: 2002.08.21 @ 13:10:38

End Date: 2002.08.21 @ 18:15:52

Job Ticket #: 15178 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

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

Job Ticket: 15178

DST#: 3

ATTN: Dark Horse Oil Co.

Test Start: 2002.08.21 @ 13:10:38

GENERAL INFORMATION:

Formation: **Lans**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 14:45:07

Time Test Ended: 18:15:52

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **15**

Interval: **3532.00 ft (KB) To 3615.00 ft (KB) (TVD)**

Reference Elevations: **2663.00 ft (KB)**

Total Depth: **3615.00 ft (KB) (TVD)**

2658.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: 3227

Inside

Press@RunDepth: **173.74 psig @ 3533.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.08.21**

End Date:

2002.08.21

Last Calib.: **1899.12.30**

Start Time: **13:10:38**

End Time:

18:15:52

Time On Btrr: **2002.08.21 @ 14:44:52**

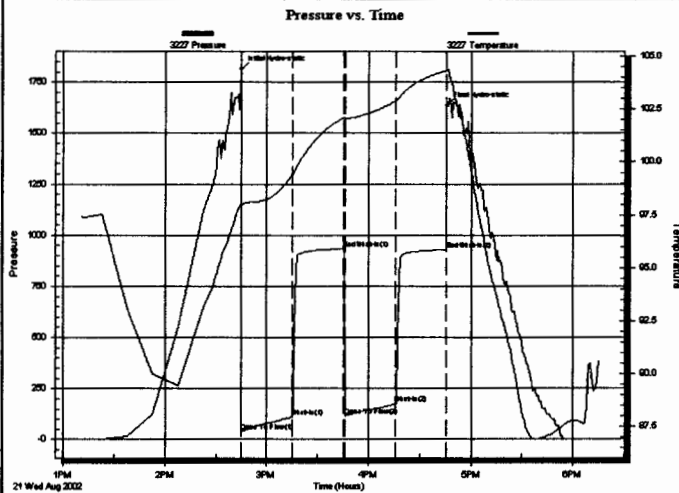
Time Off Btrr: **2002.08.21 @ 16:45:37**

TEST COMMENT: **F-10' of fill on bottom, 2" in. blow @ open built to 3 1/2" in.**

IS-No return

FF-Surface blow built to 1 1/2" in.

FS-No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1812.95 | 98.03 | Initial Hydro-static |
| 1 | 40.08 | 97.95 | Open To Flow (1) |
| 31 | 111.62 | 99.41 | Shut-in(1) |
| 61 | 932.77 | 102.10 | End Shut-in(1) |
| 62 | 115.20 | 102.06 | Open To Flow (2) |
| 92 | 173.74 | 102.90 | Shut-in(2) |
| 121 | 928.95 | 104.31 | End Shut-in(2) |
| 121 | 1633.95 | 104.37 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 180.00 | SMCW 90%W 10%M | 0.89 |
| 120.00 | SMCW 20%W 80%M | 0.59 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

Job Ticket: 15178

DST#: 3

ATTN: Dark Horse Oil Co.

Test Start: 2002.08.21 @ 13:10:38

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3062.00 ft | Diameter: 3.80 inches | Volume: 42.95 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: 470.00 ft | Diameter: 2.25 inches | Volume: 2.31 bbl | Weight to Pull Loose: 70000.00 lb |
| | | | <u>Total Volume: 45.26 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 54000.00 lb |
| Depth to Top Packer: | 3532.00 ft | | | Final 55000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 83.00 ft | | | |
| Tool Length: | 103.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3513.00 | |
| S.I. Tool | 5.00 | | | 3518.00 | |
| HMV | 5.00 | | | 3523.00 | |
| Packer | 5.00 | | | 3528.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3532.00 | |
| Stubb | 1.00 | | | 3533.00 | |
| Recorder | 0.00 | 3227 | Inside | 3533.00 | |
| Perforations | 12.00 | | | 3545.00 | |
| C.O. Sub | 1.00 | | | 3546.00 | |
| drillpipe | 63.00 | | | 3609.00 | |
| C.O. Sub | 1.00 | | | 3610.00 | |
| Recorder | 0.00 | 11057 | Outside | 3610.00 | |
| Bullnose | 5.00 | | | 3615.00 | 83.00 Bottom Packers & Anchor |

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Co.

Long Family Trust # 2-13

34861 Forrest Park Dr
Elizabeth, CO 80107

13-2-27 Decatur, KS

Job Ticket: 15178

DST#: 3

ATTN: Dark Horse Oil Co.

Test Start: 2002.08.21 @ 13:10:38

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 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 |
|--------------|----------------|---------------|
| 180.00 | SMCW 90%W 10%M | 0.885 |
| 120.00 | SMCW 20%W 80%M | 0.590 |

Total Length: 300.00 ft Total Volume: 1.475 bbl

Num Fluid Samples: 0

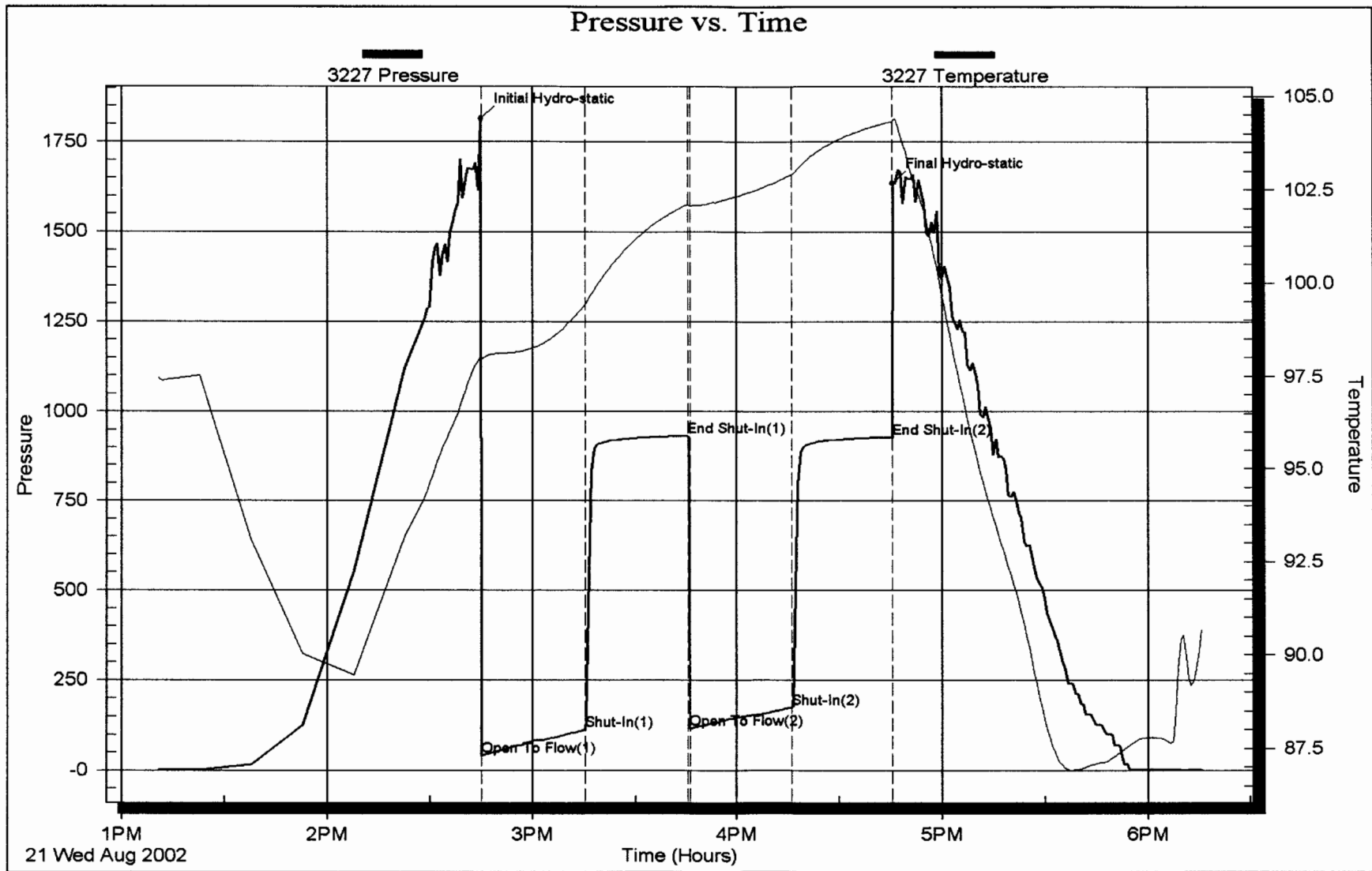
Num Gas Bombs: 0

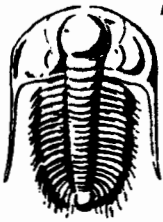
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Invoice # 5109 \$2704.00

No 15176

Test Ticket

Well Name & No. Long Family Trust # 2-13 Test No. #1 Date 8-20-02
 Company Dark Horse Oil Co. Zone Tested Lease "A"
 Address 34861 Forest Park Drive, Elizabeth Co MO 64507 Elevation 2663' KB 2658' GL
 Co. Rep / Geo. Ron Nelson Cont. Martin #3 Est. Ft. of Pay Por. %
 Location: Sec. 13 Twp. 2 Rge. 27 Co. DeCATUR State Ks
 No. of Copies None Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3477' 3528' Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 52,000
 Anchor Length 51' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 3472' Tool Weight 1,500
 Bottom Packer Depth 3477' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3528' Wt. Pipe Run Drill Collar Run ~~470'~~ 470'
 Mud Wt. 8.8 LCM Ø Vis. 50 WL 7.2 Drill Pipe Size 4 1/2 X 14 Ft. Run 3000'
 Blow Description weak blow built to 2'in.

No return
weak 1 1/2" in blow
No return

Recovery — Total Feet 120' GIP Ft. in DC 120' Ft. in DP
 Rec. 120' Feet Of Drilling Mud w/ oil spots %gas spot %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 100° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 600 ppm System

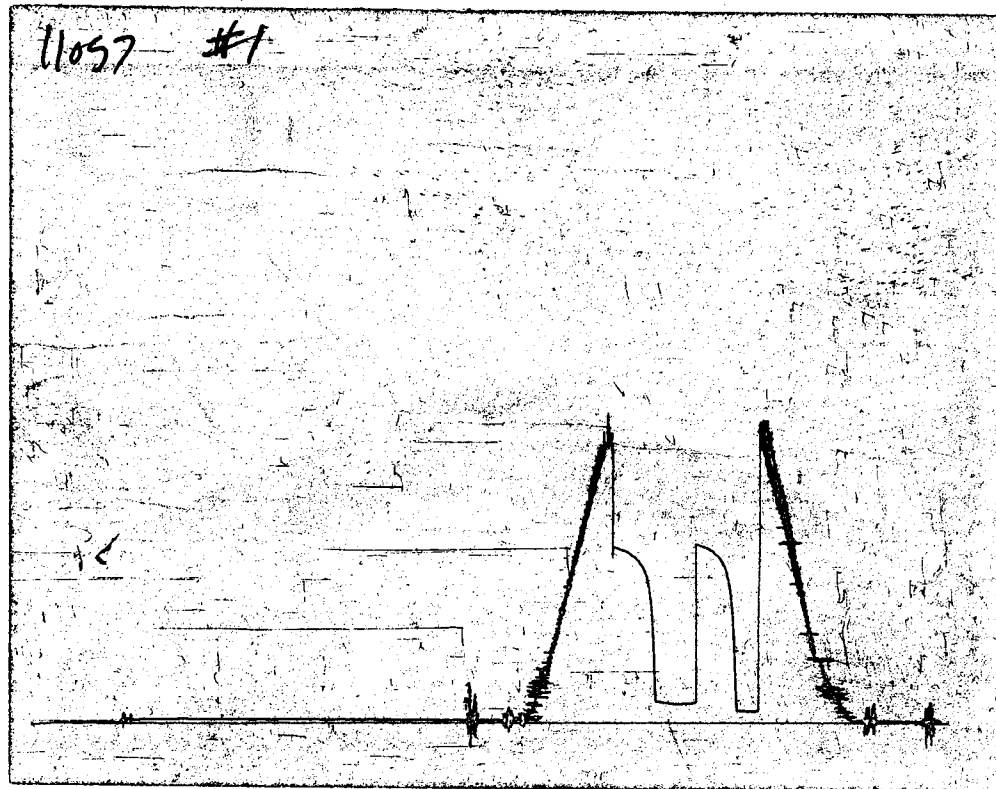
| | AK-1 | Alpine | PSI | Recorder No. | T-On Location |
|----------------------------------|------|--------|-----|--------------------------|---------------------------|
| (A) Initial Hydrostatic Mud | | 1670 | | 3227 | 11:00 a.m. |
| (B) First Initial Flow Pressure | | 22 | | (depth) 3478' | T-Started 13:40 p.m. |
| (C) First Final Flow Pressure | | 58 | | Recorder No. 11057 | T-Open 16:25 p.m. |
| (D) Initial Shut-in Pressure | | 1051 | | (depth) 3523' | T-Pulled 17:25 p.m. |
| (E) Second Initial Flow Pressure | | 63 | | Recorder No. <u> </u> | T-Out 19:05 p.m. |
| (F) Second Final Flow Pressure | | 91 | | (depth) <u> </u> | T-Off Location 19:40 p.m. |
| (G) Final Shut-in Pressure | | 1032 | | PSI Initial Opening 30 | Test X <u> </u> 700 |
| (Q) Final Hydrostatic Mud | | 1648 | | PSI Initial Shut-in 30 | Jars <u> </u> |
| | | | | Final Flow 30 | Safety Joint <u> </u> |
| | | | | Final Shut-in 30 | Straddle <u> </u> |
| | | | | | Circ. Sub X <u>N/L</u> |
| | | | | | Sampler <u> </u> |
| | | | | | Extra Packer <u> </u> |
| | | | | | Elec. Rec. X <u> </u> |
| | | | | | Mileage 122 1 way 122 |
| | | | | | Other <u> </u> |
| | | | | | TOTAL PRICE \$ 972.00 |

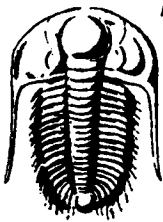
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Approved By Ron Nelson
 Our Representative Shawn M. B. D.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15177

Test Ticket

Well Name & No. Long Family Trust #2-13 Test No. #2 Date 8-21-02
 Company Dark Horse Oil Co. Zone Tested Lease B
 Address 34861 Forest Park Drive, Elizabeth, Colo 80107 Elevation 2463 KB 2658 GL
 Co. Rep / Geo. Ron Nelson Cont. Murkin #3 Est. Ft. of Pay Por. %
 Location: Sec. 13 Twp. 2 Rge. 27 Co. Decatur State Ks
 No. of Copies None Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3532' 3558' Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 53,000
 Anchor Length 26' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 62,000
 Top Packer Depth 3527' Tool Weight 1,500
 Bottom Packer Depth 3532' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3558' Wt. Pipe Run Drill Collar Run 470'
 Mud Wt. 8.8 LCM Vis. 50 WL 7.2 Drill Pipe Size 4 1/2 X 11 Ft. Run 3062'
 Blow Description Weak 1/4" in blow died in 10 min
No return
Bubble to open tool no blow
No return

Recovery — Total Feet 2' GIP Ft. in DC 2' Ft. in DP
 Rec. 2' Feet Of Drilling Mud w/old seum %gas 50% %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 100° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System

| | AK-1 | Alpine | PSI | Recorder No. | T-On Location |
|----------------------------------|------|--------|-----|--------------------|---------------------------|
| (A) Initial Hydrostatic Mud | | 1733 | | 3227 | 23:10 pm |
| (B) First Initial Flow Pressure | | 17 | | (depth) 35.33' | T-Started 23:45 pm |
| (C) First Final Flow Pressure | | 18 | | 11057 | T-Open 02:00 A.M. |
| (D) Initial Shut-In Pressure | | 32 | | (depth) 35.53' | T-Pulled 04:00 A.M. |
| (E) Second Initial Flow Pressure | | 18 | | Recorder No. | T-Out 05:50 A.M. |
| (F) Second Final Flow Pressure | | 19 | | (depth) | T-Off Location 06:20 A.M. |
| (G) Final Shut-in Pressure | | 30 | | Initial Opening 30 | Test Y 700 |
| (Q) Final Hydrostatic Mud | | 1676 | | Initial Shut-in 30 | Jars |
| | | | | Final Flow 30 | Safety Joint |
| | | | | Final Shut-in 30 | Straddle |

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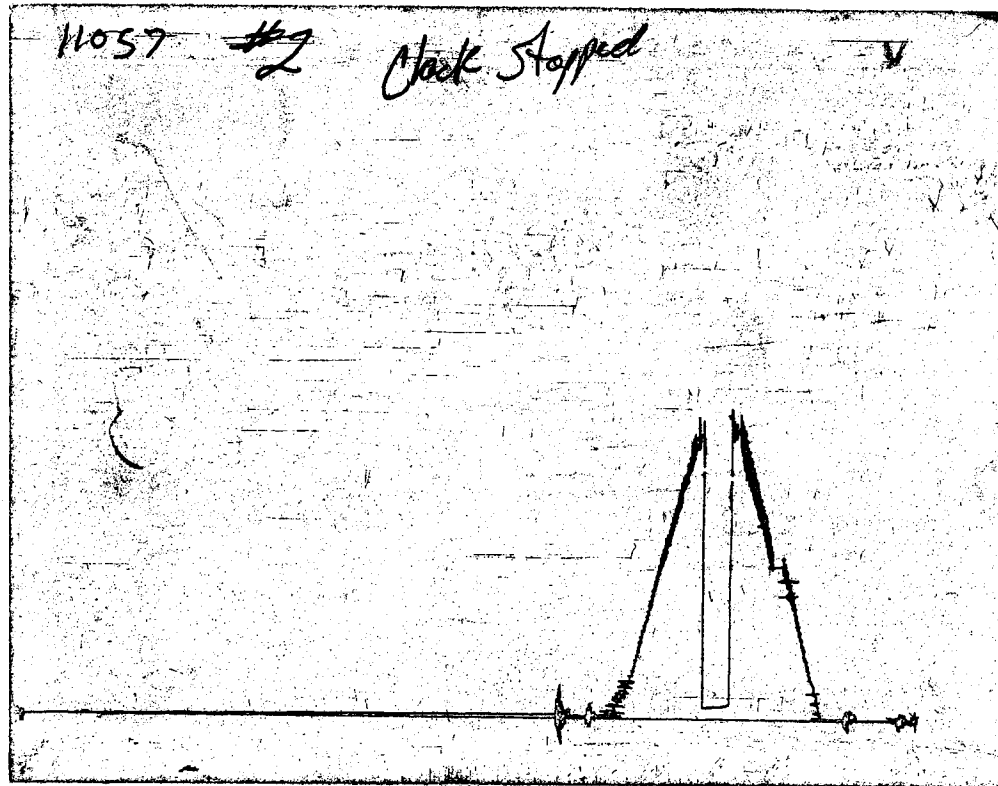
Approved By _____

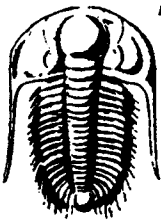
Our Representative Shirley [Signature]

Circ. Sub N/C
 Sampler _____
 Extra Packer _____
 Elec. Rec X 150
 Mileage 16 Lenny 16
 Other _____ 866
 TOTAL PRICE \$ _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15178

Test Ticket

Well Name & No. Long Family Trust #2-13 Test No. #3 Date 8-21-02
 Company Dark Horse Oil Co. Zone Tested Lanes C-F
 Address 34861 Forest Park Drive, Elizabeth, Colo, 80107 Elevation 2663' KB 2658' GL
 Co. Rep / Geo. Ron Nelson Cont. Murkin #3 Est. Ft. of Pay Por. %
 Location: Sec. 13 Twp. 2 Rge. 27 Co. Decatur State Ks
 No. of Copies None Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3532' 3615' Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 83' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 79,000
 Top Packer Depth 3527' Tool Weight 1,500
 Bottom Packer Depth 3532' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3615' Wt. Pipe Run Drill Collar Run 470'
 Mud Wt. 8.9 LCM Ø Vis. 53 WL 7.2 Drill Pipe Size 4 1/2 X H Ft. Run 3062'
 Blow Description 10' of fill on bottom, 2' in blow @ open, built to 3 1/2" in.
No return
Surface blow built to 1 1/2" in.
No return

Recovery — Total Feet 300' GIP Ft. in DC 300' Ft. in DP
 Rec. 120 Feet Of S W C M %gas %oil 20% water 80% mud
 Rec. 180 Feet Of S M C W %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
 BHT 104° °F Gravity °API D@ °F Corrected Gravity °API
 RW .197 @ 104° °F Chlorides 26,500 ppm Recovery Chlorides 6000 ppm System

| | AK-1 | Alpine | PSI | Recorder No. | T-On Location |
|----------------------------------|------|-------------|-----|-------------------------------|----------------------------------|
| (A) Initial Hydrostatic Mud | | <u>1703</u> | | <u>3227</u> | <u>12:40 p.m.</u> |
| (B) First Initial Flow Pressure | | <u>40</u> | | (depth) <u>3533'</u> | T-Started <u>13:05 p.m.</u> |
| (C) First Final Flow Pressure | | <u>111</u> | | Recorder No. <u>11057</u> | T-Open <u>14:40 p.m.</u> |
| (D) Initial Shut-In Pressure | | <u>932</u> | | (depth) <u>3610'</u> | T-Pulled <u>16:40 p.m.</u> |
| (E) Second Initial Flow Pressure | | <u>115</u> | | Recorder No. <u> </u> | T-Out <u>18:20 p.m.</u> |
| (F) Second Final Flow Pressure | | <u>173</u> | | (depth) <u> </u> | T-Off Location <u>19:00 p.m.</u> |
| (G) Final Shut-in Pressure | | <u>928</u> | | PSI Initial Opening <u>30</u> | Test <u>700</u> |
| (Q) Final Hydrostatic Mud | | <u>1684</u> | | PSI Initial Shut-in <u>30</u> | Jars <u> </u> |

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Approved By [Signature]
 Our Representative [Signature]

Final Flow 30 Safety Joint
 Final Shut-in 30 Straddle
 (Slide tool 10' to Bottom) Circ. Sub N/C
 Sampler
 Extra Packer
 Elec. Rec. X 150
 Mileage 16 / way 16
 Other
 TOTAL PRICE \$ 8660

CHART PAGE

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

