

DRILL STEM TEST REPORT

Prepared For: **ESP Development Inc**

1749 250th Ave
Hays KS 67601

ATTN: Ron Nelson

4 12 15 Russell KS

Eulert Ranch "K" #1

Start Date: 2006.04.15 @ 00:00:01

End Date: 2006.04.15 @ 06:31:16

Job Ticket #: 22965 DST #: 1

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

ESP Development Inc

Eulert Ranch "K" #1

4 12 15 Russell KS

DST # 1

Toronto

2006.04.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22965

DST#: 1

ATTN: Ron Nelson

Test Start: 2006.04.15 @ 00:00:01

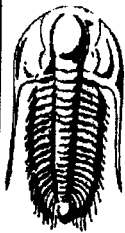
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2906.00 ft | Diameter: 4.50 inches | Volume: 57.16 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 57.16 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 25.00 ft | | | String Weight: Initial 40000.00 lb |
| Depth to Top Packer: | 2901.00 ft | | | Final 43000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 89.00 ft | | | |
| Tool Length: | 109.00 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 | | | 2882.00 | |
| Shut In Tool | 5.00 | | | 2887.00 | |
| Hydraulic tool | 5.00 | | | 2892.00 | |
| Packer | 5.00 | | | 2897.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 2901.00 | |
| Stubb | 1.00 | | | 2902.00 | |
| Perforations | 3.00 | | | 2905.00 | |
| Change Over Sub | 1.00 | | | 2906.00 | |
| Recorder | 0.00 | 6672 | Inside | 2906.00 | |
| Drill Pipe | 62.00 | | | 2968.00 | |
| Change Over Sub | 1.00 | | | 2969.00 | |
| Perforations | 18.00 | | | 2987.00 | |
| Recorder | 0.00 | 13761 | | 2987.00 | |
| Bullnose | 3.00 | | | 2990.00 | 89.00 Bottom Packers & Anchor |

Total Tool Length: 109.00



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FLUID SUMMARY

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22965

DST#: 1

ATTN: Ron Nelson

Test Start: 2006.04.15 @ 00:00:01

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|--------------|----------------|
| 120.00 | OSM 2%O 98%M | 2.361 |

Total Length: 120.00 ft

Total Volume: 2.361 bbl

Num Fluid Samples: 0

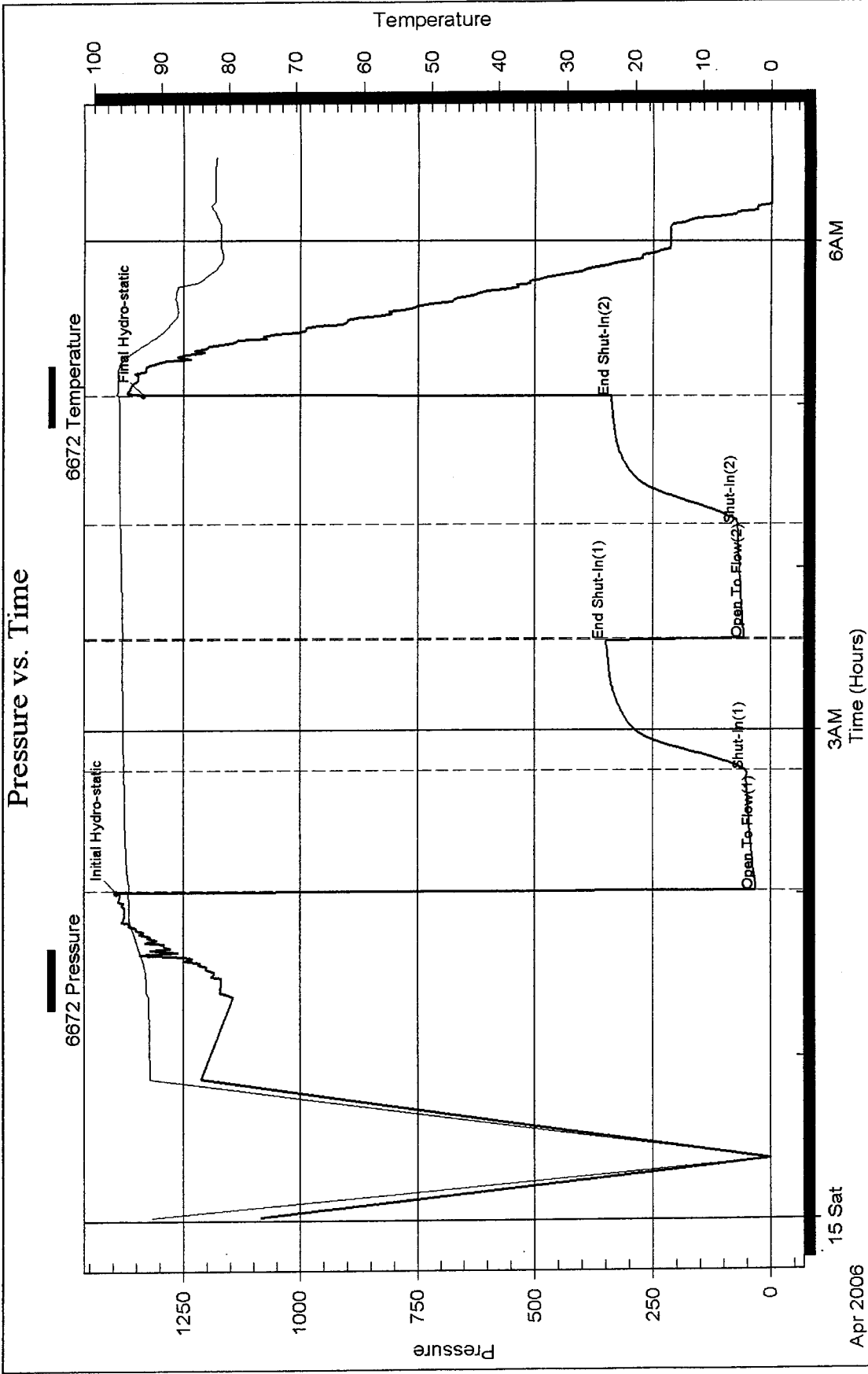
Num Gas Bombs: 0

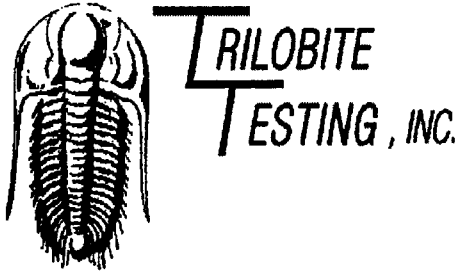
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **ESP Development Inc**

1749 250th Ave
Hays KS 67601

ATTN: Ron Nelson

4 12 15 Russell KS

Eulert Ranch "K" #1

Start Date: 2006.04.17 @ 02:47:13

End Date: 2006.04.17 @ 09:32:43

Job Ticket #: 22966 DST #: 2

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

ESP Development Inc

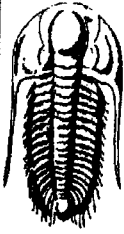
Eulert Ranch "K" #1

4 12 15 Russell KS

DST # 2

Lansing "E" & "F"

2006.04.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

ESP Development Inc
1749 250th Ave
Hays KS 67601
ATTN: Ron Nelson

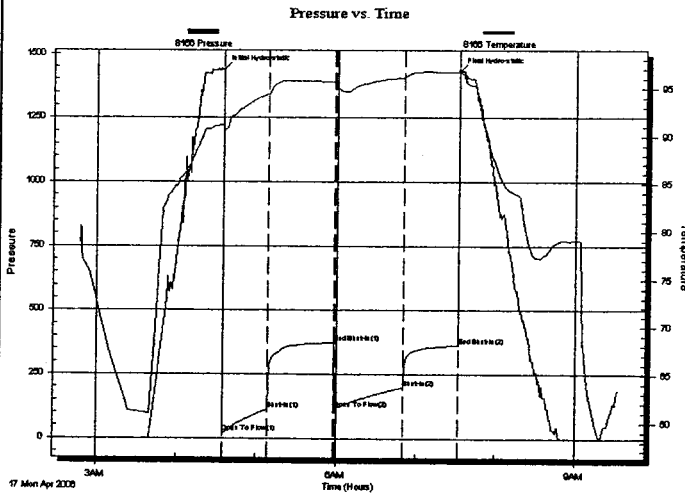
Eulert Ranch "K" #1
4 12 15 Russell KS
Job Ticket: 22966 DST#: 2
Test Start: 2006.04.17 @ 02:47:13

GENERAL INFORMATION:

Formation: **Lansing "E" & "F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:35:13
Time Test Ended: 09:32:43
Interval: **2991.00 ft (KB) To 3048.00 ft (KB) (TVD)**
Total Depth: **3048.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Alex Brechbuhler
Unit No: 20
Reference Elevations: **1793.00 ft (KB)**
1788.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8166 Inside
Press@RunDepth: **198.65 psig @ 2996.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2006.04.17** End Date: **2006.04.17** Last Calib.: **1899.12.30**
Start Time: **02:47:18** End Time: **09:32:42** Time On Btm: **2006.04.17 @ 04:34:58**
Time Off Btm: **2006.04.17 @ 07:32:28**

TEST COMMENT: IF BOB 10" Strong Building Blow GTS None
ISI No Blow back
FF BOB 25" Strong Building Blow GTS None
FSI No Blow back



PRESSURE SUMMARY

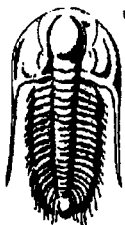
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1438.18 | 91.15 | Initial Hydro-static |
| 1 | 20.10 | 90.44 | Open To Flow (1) |
| 34 | 111.40 | 94.40 | Shut-in(1) |
| 83 | 373.58 | 95.72 | End Shut-in(1) |
| 84 | 114.50 | 95.66 | Open To Flow (2) |
| 136 | 198.65 | 96.17 | Shut-in(2) |
| 177 | 363.17 | 96.72 | End Shut-in(2) |
| 178 | 1432.11 | 96.90 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 480.00 | MW 80%W 20%M | 9.44 |
| 20.00 | MSO at top | 0.39 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22966

DST#: 2

ATTN: Ron Nelson

Test Start: 2006.04.17 @ 02:47:13

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3003.00 ft | Diameter: 4.50 inches | Volume: 59.07 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 55000.00 lb |
| | | | <u>Total Volume: 59.07 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial 43000.00 lb |
| Depth to Top Packer: | 2991.00 ft | | | Final 47000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 60.00 ft | | | |
| Tool Length: | 80.00 ft | | | |
| Number of Packers: | 2 | Diameter: 7.78 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 2972.00 | |
| Shut In Tool | 5.00 | | | 2977.00 | |
| Hydraulic tool | 5.00 | | | 2982.00 | |
| Packer | 5.00 | | | 2987.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 2991.00 | |
| Stubb | 1.00 | | | 2992.00 | |
| Perforations | 3.00 | | | 2995.00 | |
| Change Over Sub | 1.00 | | | 2996.00 | |
| Recorder | 0.00 | 8166 | Inside | 2996.00 | |
| Drill Pipe | 31.00 | | | 3027.00 | |
| Change Over Sub | 1.00 | | | 3028.00 | |
| Perforations | 20.00 | | | 3048.00 | |
| Recorder | 0.00 | 13761 | Inside | 3048.00 | |
| Bullnose | 3.00 | | | 3051.00 | 60.00 Bottom Packers & Anchor |

Total Tool Length: 80.00



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Eulert Ranch "K" #1

1749 250th Ave
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4 12 15 Russell KS

Job Ticket: 22966

DST#: 2

ATTN: Ron Nelson

Test Start: 2006.04.17 @ 02:47:13

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:

95000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 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 |
|--------------|--------------|---------------|
| 480.00 | MW 80%W 20%M | 9.442 |
| 20.00 | MSO at top | 0.393 |

Total Length: 500.00 ft Total Volume: 9.835 bbl

Num Fluid Samples: 0

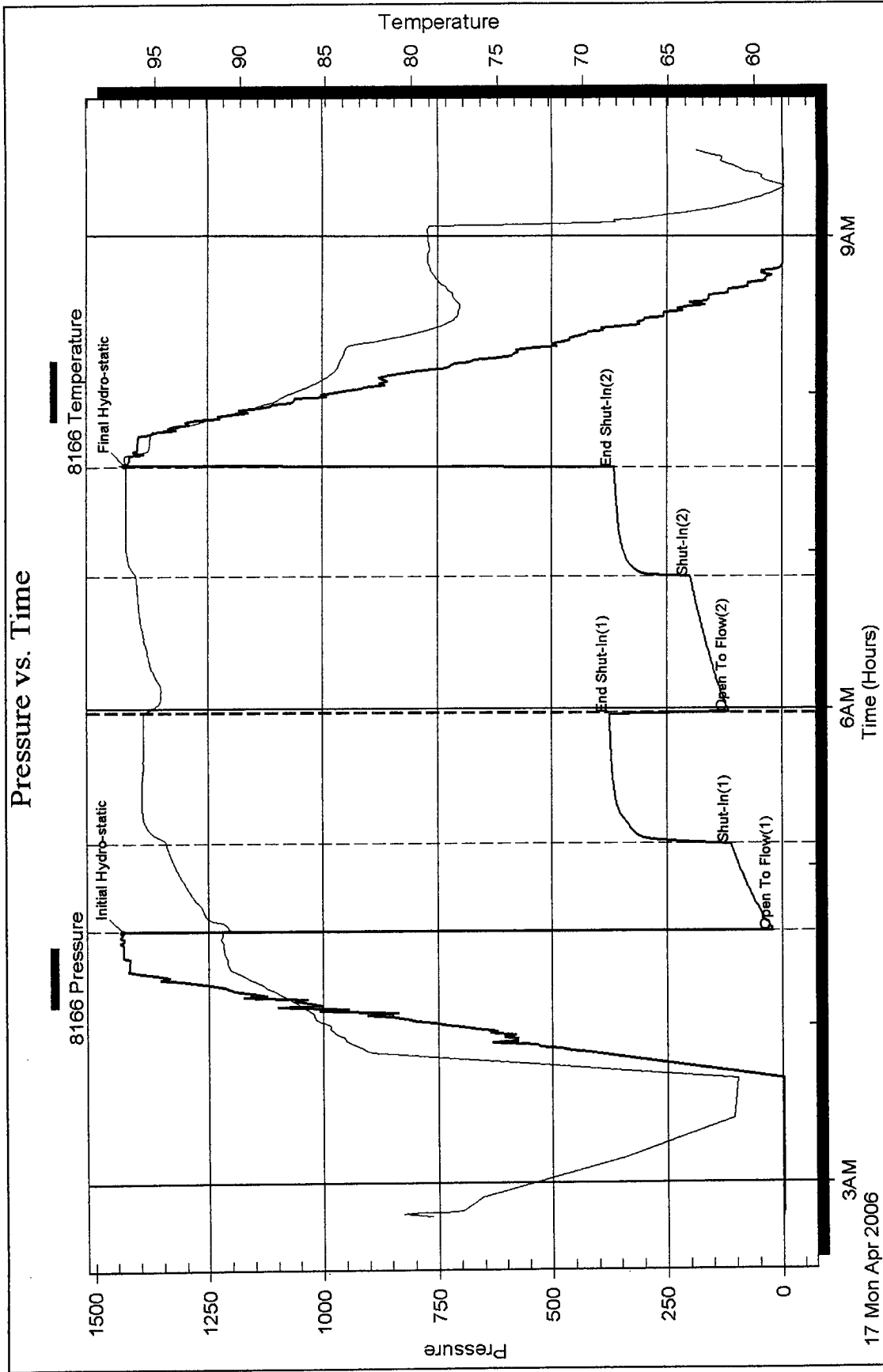
Num Gas Bombs: 0

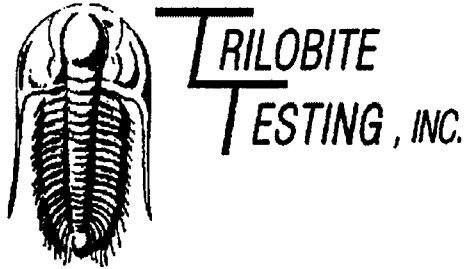
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw 0.1@64F





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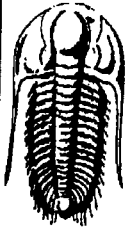
Eulert Ranch "K" #1

Start Date: 2006.04.18 @ 01:48:13

End Date: 2006.04.18 @ 07:10:37

Job Ticket #: 22967 DST #: 3

Trilobite Testing, Inc
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ESP Development Inc

1749 250th Ave
Hays KS 67601

ATTN: Ron Nelson

Eulert Ranch "K" #1

4 12 15 Russell KS

Job Ticket: 22967

DST#: 3

Test Start: 2006.04.18 @ 01:48:13

GENERAL INFORMATION:

Formation: **Lansing J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:08

Time Test Ended: 07:10:37

Test Type: Conventional Bottom Hole

Tester: Alex Brechbuhler

Unit No: 20

Interval: **3126.00 ft (KB) To 3190.00 ft (KB) (TVD)**

Total Depth: 3190.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 1793.00 ft (KB)

1788.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166 Inside

Press@RunDepth: 13.86 psig @ 3131.00 ft (KB)

Start Date: 2006.04.18

End Date: 2006.04.18

Start Time: 01:48:13

End Time: 07:10:37

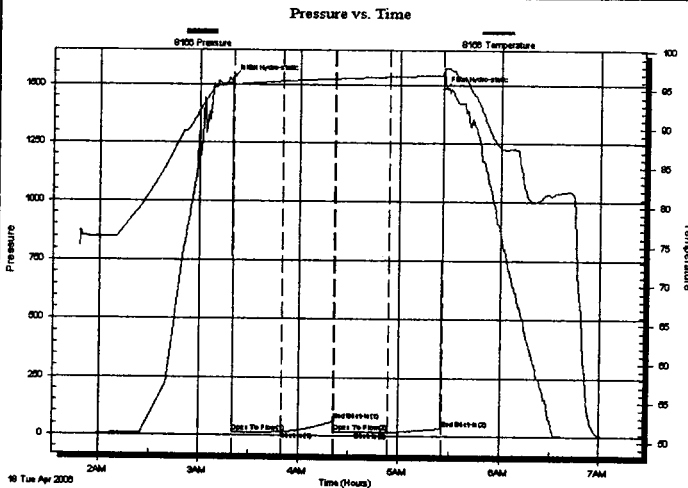
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2006.04.18 @ 03:19:53

Time Off Btm: 2006.04.18 @ 05:25:23

TEST COMMENT: IF Weak Fading Surf Blow
ISI No Blow back
FF No Blow
FSI No Blow back



PRESSURE SUMMARY

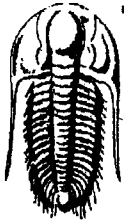
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1524.64 | 95.93 | Initial Hydro-static |
| 1 | 11.24 | 95.52 | Open To Flow (1) |
| 30 | 13.10 | 96.10 | Shut-In(1) |
| 62 | 62.50 | 96.43 | End Shut-In(1) |
| 62 | 13.87 | 96.42 | Open To Flow(2) |
| 94 | 13.86 | 96.70 | Shut-In(2) |
| 126 | 32.49 | 96.92 | End Shut-In(2) |
| 126 | 1479.64 | 97.35 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 4.00 | OSM 3%O 97%M | 0.08 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22967

DST#: 3

ATTN: Ron Nelson

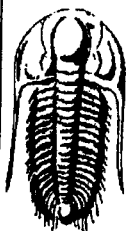
Test Start: 2006.04.18 @ 01:48:13

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3126.00 ft | Diameter: 4.50 inches | Volume: 61.49 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 61.49 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 19.00 ft | | | String Weight: Initial 45000.00 lb |
| Depth to Top Packer: | 3126.00 ft | | | Final 45000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 64.00 ft | | | |
| Tool Length: | 83.00 ft | | | |
| Number of Packers: | 1 | Diameter: 7.78 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|-------------|--------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3112.00 | |
| Hydraulic tool | 5.00 | | | 3117.00 | |
| Packer | 5.00 | | | 3122.00 | 19.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3126.00 | |
| Stubb | 1.00 | | | 3127.00 | |
| Perforations | 3.00 | | | 3130.00 | |
| Change Over Sub | 1.00 | | | 3131.00 | |
| Recorder | 0.00 | 8166 | Inside | 3131.00 | |
| Drill Pipe | 31.00 | | | 3162.00 | |
| Change Over Sub | 1.00 | | | 3163.00 | |
| Perforations | 24.00 | | | 3187.00 | |
| Recorder | 0.00 | 13761 | Inside | 3187.00 | |
| Bullnose | 3.00 | | | 3190.00 | 64.00 Bottom Packers & Anchor |
| Total Tool Length: | | 83.00 | | | |



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DRILL STEM TEST REPORT

FLUID SUMMARY

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22967

DST#: 3

ATTN: Ron Nelson

Test Start: 2006.04.18 @ 01:48:13

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 4.00 | OSM 3%O 97%M | 0.079 |

Total Length: 4.00 ft Total Volume: 0.079 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

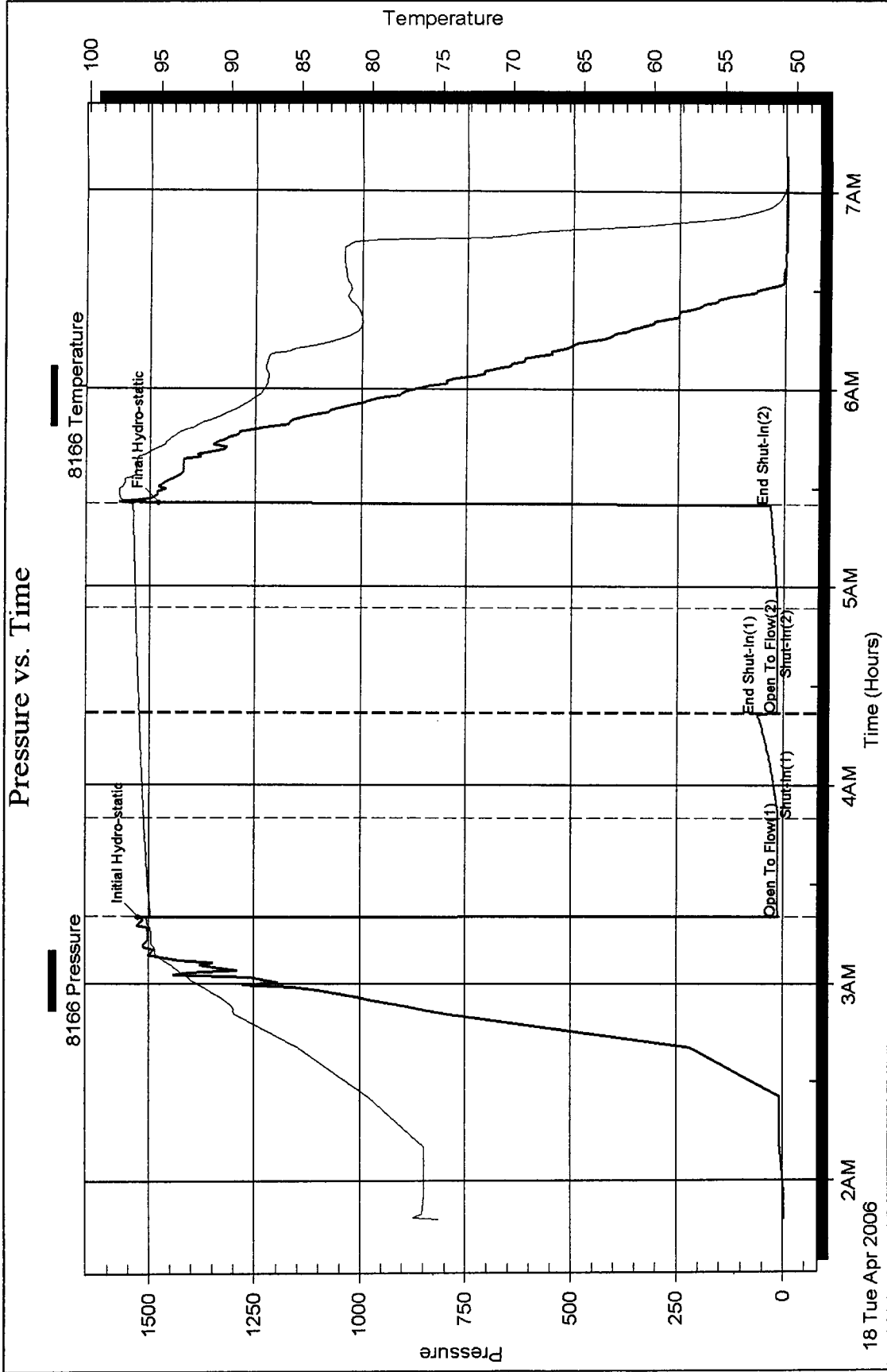
Serial #:

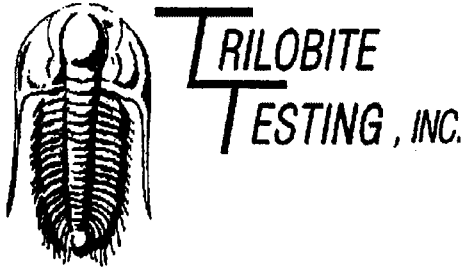
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **ESP Development Inc**
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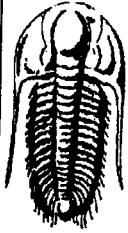
Eulert Ranch "K" #1

Start Date: 2006.04.18 @ 18:57:54

End Date: 2006.04.18 @ 23:41:18

Job Ticket #: 22968 DST #: 4

Trilobite Testing, Inc
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DRILL STEM TEST REPORT

ESP Development Inc

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Hays KS 67601

ATTN: Ron Nelson

Eulert Ranch "K" #1

4 12 15 Russell KS

Job Ticket: 22968

DST#: 4

Test Start: 2006.04.18 @ 18:57:54

GENERAL INFORMATION:

Formation: **Arbuckal**

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

Time Tool Opened: 20:31:34

Time Test Ended: 23:41:18

Test Type: **Conventional Bottom Hole**

Tester: **Alex Brechbuhler**

Unit No: **20**

Interval: **3226.00 ft (KB) To 3279.00 ft (KB) (TVD)**

Total Depth: **3279.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **1793.00 ft (KB)**

1788.00 ft (CF)

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

Serial #: 8166

Inside

Press@RunDepth: **16.52 psig @ 3229.00 ft (KB)**

Start Date: **2006.04.18**

End Date: **2006.04.18**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **18:57:54**

End Time: **23:41:18**

Time On Btm: **2006.04.18 @ 20:31:19**

Time Off Btm: **2006.04.18 @ 22:14:49**

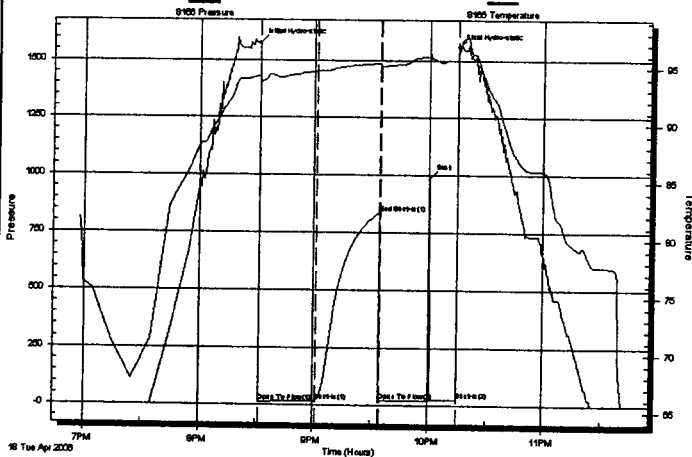
TEST COMMENT:

IF Weak Surf Blow

ISI No Blow back

FF Flushed Tool Weak Surf Blow after Surge

Pressure vs. Time



PRESSURE SUMMARY

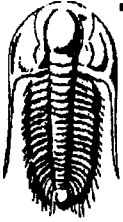
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1576.26 | 94.26 | Initial Hydro-static |
| 1 | 12.04 | 93.54 | Open To Flow (1) |
| 30 | 16.52 | 94.73 | Shut-In(1) |
| 63 | 836.17 | 95.44 | End Shut-In(1) |
| 63 | 17.98 | 95.24 | Open To Flow (2) |
| 89 | 989.24 | 96.25 | flush |
| 104 | 23.03 | 95.76 | Shut-In(2) |
| 104 | 1557.24 | 96.32 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 30.00 | HOCM 25% O 75% M | 0.59 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22968

DST#: 4

ATTN: Ron Nelson

Test Start: 2006.04.18 @ 18:57:54

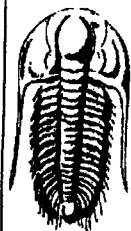
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3223.00 ft | Diameter: 4.50 inches | Volume: 63.40 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 63.40 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 16.00 ft | | | String Weight: Initial 45000.00 lb |
| Depth to Top Packer: | 3226.00 ft | | | Final 45000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 53.00 ft | | | |
| Tool Length: | 72.00 ft | | | |
| Number of Packers: | 1 | Diameter: 7.78 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3212.00 | |
| Hydraulic tool | 5.00 | | | 3217.00 | |
| Packer | 5.00 | | | 3222.00 | 19.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3226.00 | |
| Stubb | 1.00 | | | 3227.00 | |
| Perforations | 1.00 | | | 3228.00 | |
| Change Over Sub | 1.00 | | | 3229.00 | |
| Recorder | 0.00 | 8166 | Inside | 3229.00 | |
| Drill Pipe | 31.00 | | | 3260.00 | |
| Change Over Sub | 1.00 | | | 3261.00 | |
| Perforations | 15.00 | | | 3276.00 | |
| Recorder | 0.00 | 13761 | Inside | 3276.00 | |
| Bullnose | 3.00 | | | 3279.00 | 53.00 Bottom Packers & Anchor |

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

ESP Development Inc

Eulert Ranch "K" #1

1749 250th Ave
Hays KS 67601

4 12 15 Russell KS

Job Ticket: 22968

DST#: 4

ATTN: Ron Nelson

Test Start: 2006.04.18 @ 18:57:54

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: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|------------------|---------------|
| 30.00 | HOCM 25% O 75% M | 0.590 |

Total Length: 30.00 ft

Total Volume: 0.590 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

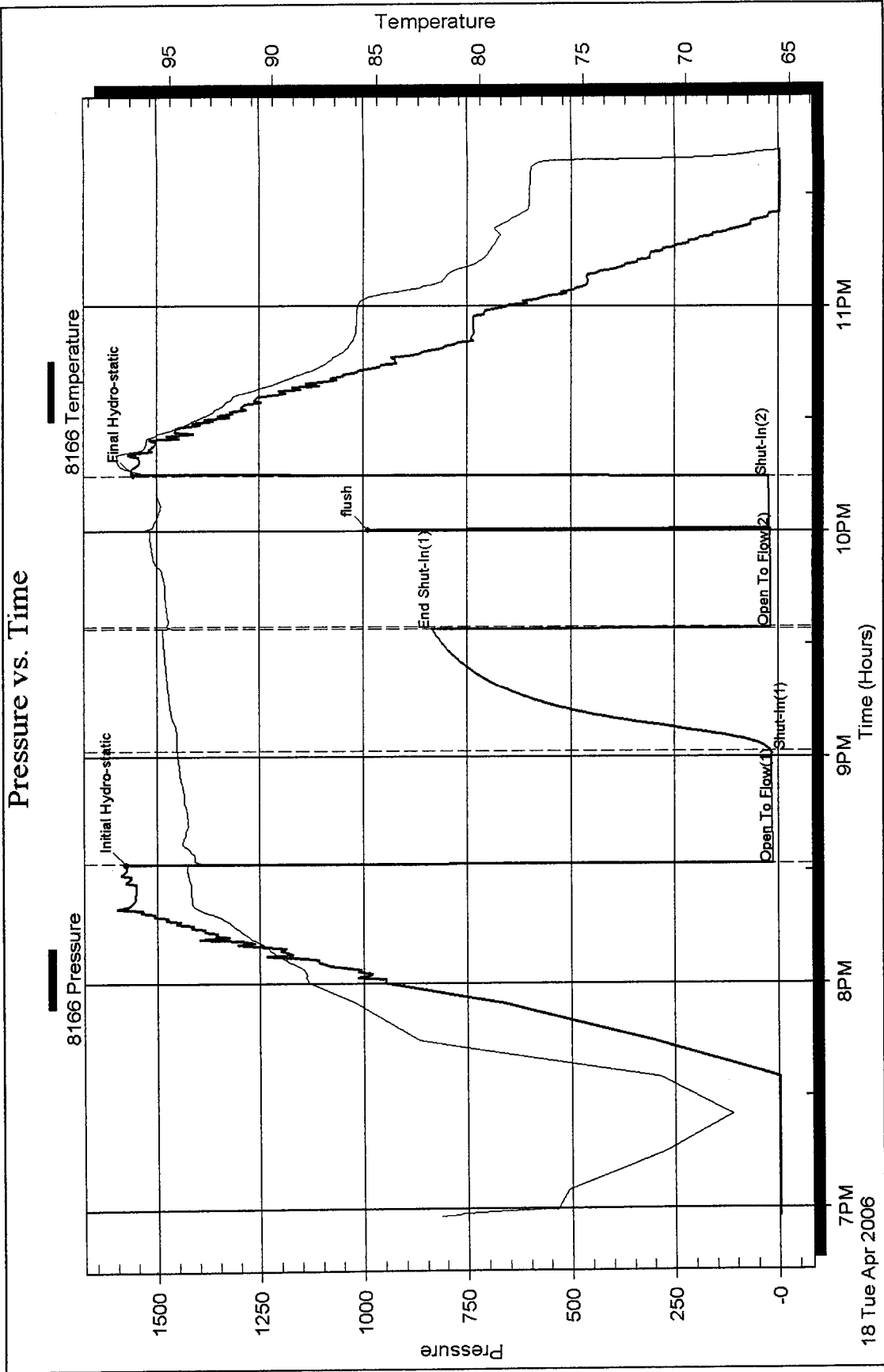
Serial #:

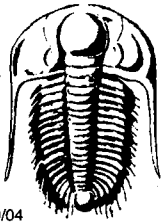
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22965

8654

Test Ticket

Well Name & No. Eulert Ranch "K" #1 Test No. #1 Date 4-16-06
 Company ESP Development Inc Zone Tested Toronto
 Address 1749 250th Ave. Hays, KS 67601 Elevation 1793 KB 1788 GL
 Co. Rep / Geo. Ron Nelson Cont. _____ Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 4 Twp. 12 Rge. 15 Co. Russell State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2901 to 2990 Initial Str Wt./Lbs. 40K Unseated Str Wt/Lbs. 43K
 Anchor Length 89' Wt. Set Lbs. 24K Wt. Pulled Loose/Lbs. 65K
 Top Packer Depth 2896 Tool Weight 2k
 Bottom Packer Depth 2901 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 2990 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 8.9 LCM 1/8 Vis. 48 WL 9.4 Drill Pipe Size 4.5 x H Ft. Run _____
 Blow Description IF - BOB 19 min, Strong Building Blow, GTS None
ISI - No Blowback
FF - Build Blow Sines in 45 minutes, GTS None
FSI FF - No Blowback

Recovery - Total Feet 120 GIP _____ Ft. in DC 0 Ft. in DP _____
 Rec. 120 Feet of OSM %gas 2 %oil _____ %water 98 %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 _____ Chlorides 2500 ppm System

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|------|--------|-----------------------|-----------------------------|
| (A) Initial Hydrostatic Mud | 1437 | 1385 | 6672 (0:54) | 1000 |
| (B) First Initial Flow Pressure | 85 | 32 | (depth) 2904 | Jars _____ |
| (C) First Final Flow Pressure | 95 | 53 | Recorder No. 13761 | Safety Jt. _____ |
| (D) Initial Shut-In Pressure | 379 | 349 | (depth) 2990 | Circ Sub _____ |
| (E) Second Initial Flow Pressure | 104 | 55 | Recorder No. _____ | Sampler _____ |
| (F) Second Final Flow Pressure | 113 | 71 | (depth) _____ | Straddle _____ |
| (G) Final Shut-In Pressure | 359 | 338 | Initial Opening 02:57 | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | 1417 | 1368 | Initial Shut-In 03:42 | Shale Packer _____ |
| | | | Final Flow 04:30 | Ruined Packer _____ |
| | | | Final Shut-In 05:15 | Mileage <u>60</u> <u>75</u> |
| | | | T-On Location 22:15 | Sub Total: <u>1075</u> |
| | | | T-Started 00:54 | Std. By _____ |
| | | | T-Open 02:57 | Other _____ |
| | | | T-Pulled _____ | Total: _____ |
| | | | T-Out _____ | |

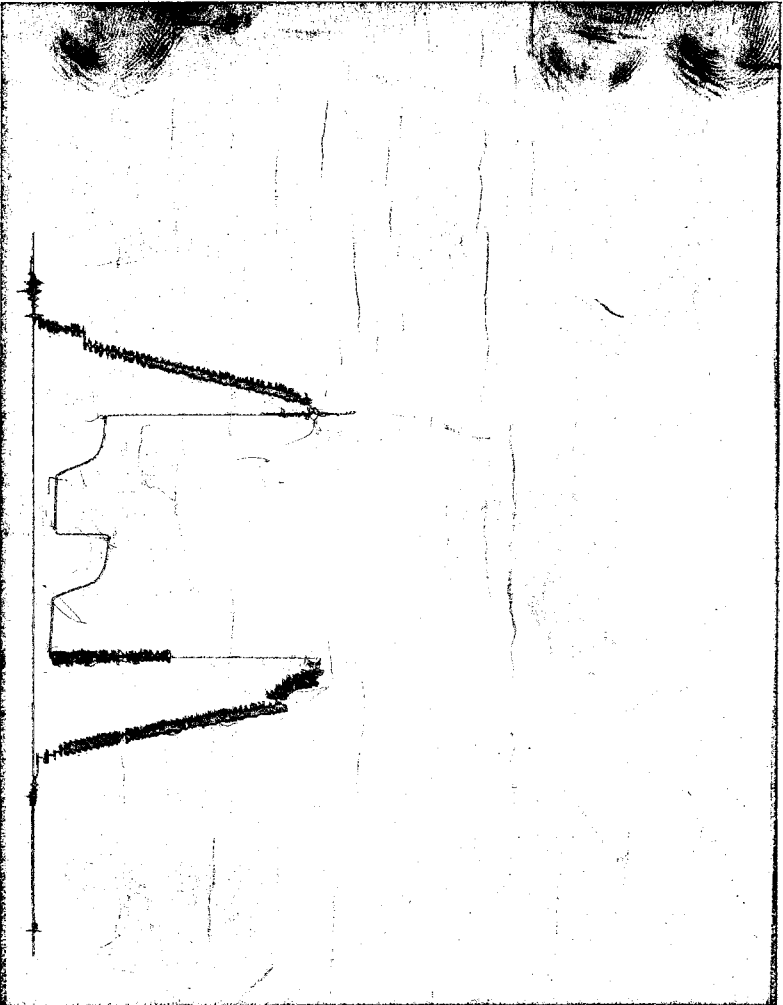
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Approved By _____

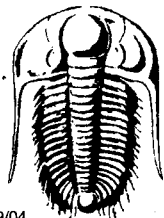
Our Representative [Signature]

CHART PAGE

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



22965



TRILOBITE TESTING INC.

No 22966

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Euler Ranch "K" #1 Test No. #2 Date 4-17-06
 Company ESP Development Zone Tested Lansing "E" #11
 Address 1749 250th Ave. Hays, KS 67601 Elevation 1793 KB 1788 GL
 Co. Rep / Geo. Ron Nelson Cont. _____ Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 4 Twp. 12 Rge. 15 Co. Russell State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2991-3048 Initial Str Wt./Lbs. 43K Unseated Str Wt./Lbs. 47K
 Anchor Length 57' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 55K
 Top Packer Depth 2986 Tool Weight 2K
 Bottom Packer Depth 2991 Hole Size 7 7/8" 5 Rubber Size 6 3/4" L
 Total Depth 3048 Wt. Pipe Run Ø Drill Collar Run Ø
 Mud Wt. 9.1 LCM 1/8# Vis. 50 WL 8.8 Drill Pipe Size 4.5xH Ft. Run _____
 Blow Description IF - BOB 10 min, Strong Building Blow, GTS None
ISI - No Blowback
FF - BOB 25 min, Strong Building Blow, GTS None
FSI No Blowback

| Recovery - Total Feet | GIP | Ft. in DC | Ft. in DP |
|-----------------------|-----------------------------|------------|--------------------------------------------|
| <u>500</u> | <u>Ø</u> | <u>Ø</u> | <u>500</u> |
| Rec. <u>20</u> | Feet of <u>Mud Oil Slum</u> | %gas _____ | %oil _____ %water <u>100</u> %mud _____ |
| Rec. <u>480</u> | Feet of <u>MW</u> | %gas _____ | %oil <u>80</u> %water <u>20</u> %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 3 °API
 RW 0.1 @ 64 °F Chlorides 95000 ppm Recovery _____ Chlorides 3500 ppm System

| AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|------------------|-------------------------------------|------------------------------|
| (A) Initial Hydrostatic Mud | <u>1,438</u> PSI | <u>8166</u> | <u>1000</u> |
| (B) First Initial Flow Pressure | <u>20</u> PSI | (depth) <u>2996</u> | Jars _____ |
| (C) First Final Flow Pressure | <u>111</u> PSI | Recorder No. <u>13761</u> | Safety Jt. _____ |
| (D) Initial Shut-In Pressure | <u>374</u> PSI | (depth) <u>3048</u> | Circ Sub _____ |
| (E) Second Initial Flow Pressure | <u>115</u> PSI | Recorder No. _____ | Sampler _____ |
| (F) Second Final Flow Pressure | <u>199</u> PSI | (depth) _____ | Straddle _____ |
| (G) Final Shut-In Pressure | <u>363</u> PSI | Initial Opening <u>04:38</u> | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | <u>1432</u> PSI | Initial Shut-In <u>05:08</u> | Shale Packer _____ |
| | | Final Flow <u>05:53</u> | Ruined Packer _____ |
| | | Final Shut-In <u>06:23</u> | Mileage <u>x60</u> <u>75</u> |
| | | T-On Location <u>01:30</u> | Sub Total: <u>1075</u> |
| | | T-Started <u>02:47</u> | Std. By _____ |
| | | T-Open <u>04:38</u> | Other _____ |
| | | T-Pulled <u>07:45</u> | Total: _____ |
| | | T-Out _____ | |

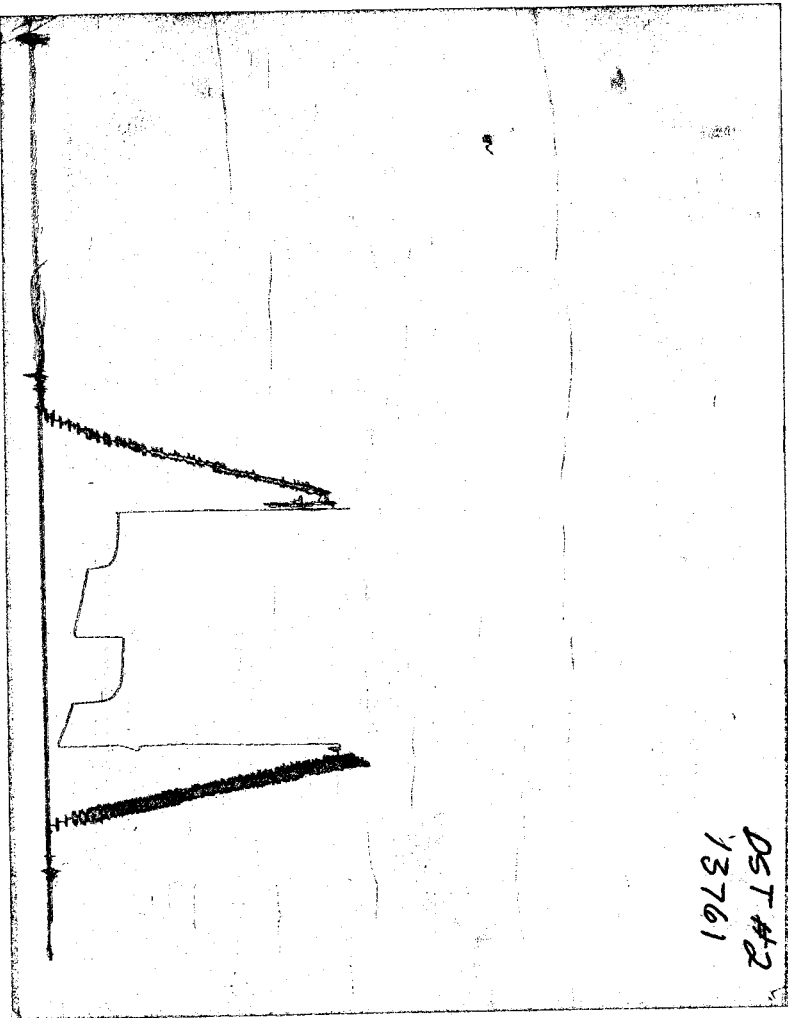
Approved By _____

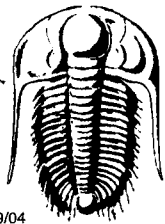
Our Representative [Signature]

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CHART PAGE

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





TRILOBITE TESTING INC.

No 22967

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Ewert Ranch "K" #1 Test No. # 3 Date 4-18-06
 Company ESP Development Zone Tested Lansing J-K
 Address 1749 250th Ave. Hays K 67601 Elevation 1793 KB 1788 GL
 Co. Rep / Geo. Alton Ron Nelson Cont. Vonfeldt Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 4 Twp. 12 Rge. 15 Co. Russell State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3126 to 3190 Initial Str Wt./Lbs. 45K Unseated Str Wt/Lbs. 46K
 Anchor Length 64' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 50K
 Top Packer Depth 3121 Tool Weight 2K
 Bottom Packer Depth 3126 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3190 Wt. Pipe Run Ø Drill Collar Run Ø
 Mud Wt. 9.2 LCM 1/8 # Vis. 44 WL 9.2 Drill Pipe Size 4.5xH Ft. Run 3126
 Blow Description IF - Weak Fading Surface Blow
ISI - No Blow Back
FF - No Blow
FSL - No Blow

Recovery - Total Feet _____ GIP _____ Ft. in DC Ø Ft. in DP _____
 Rec. 4 Feet of OSM %gas 3 %oil _____ %water 97 %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 97 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4,000 ppm System

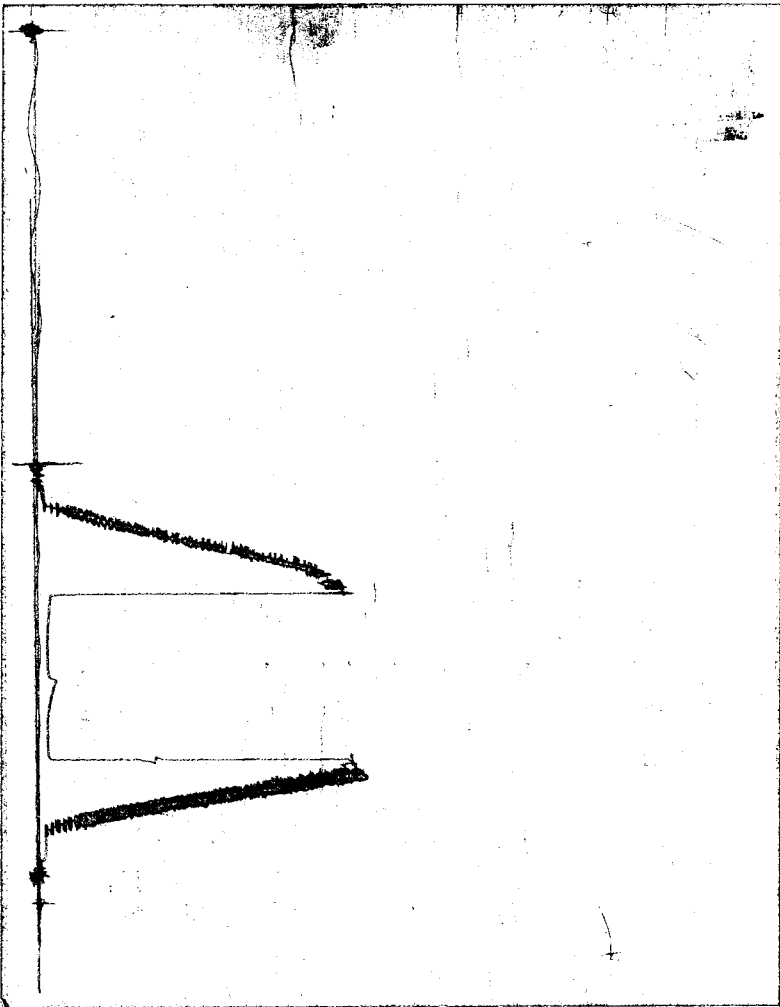
| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|------|--------|----------------------------------|-------------------------------|
| (A) Initial Hydrostatic Mud | 1525 | PSI | <u>8166</u> | ✓ 1000 |
| (B) First Initial Flow Pressure | 11 | PSI | (depth) <u>3131</u> | Jars _____ |
| (C) First Final Flow Pressure | 13 | PSI | Recorder No. <u>13761</u> | Safety Jt. _____ |
| (D) Initial Shut-In Pressure | 62 | PSI | (depth) <u>3190</u> | Circ Sub _____ |
| (E) Second Initial Flow Pressure | 14 | PSI | Recorder No. _____ | Sampler _____ |
| (F) Second Final Flow Pressure | 14 | PSI | (depth) _____ | Straddle _____ |
| (G) Final Shut-In Pressure | 32 | PSI | Initial Opening <u>30</u> | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | 1480 | PSI | Initial Shut-In <u>30</u> | Shale Packer _____ |
| | | | Final Flow <u>30</u> | Ruined Packer _____ |
| | | | Final Shut-In <u>30</u> | Mileage <u>X 60</u> <u>75</u> |

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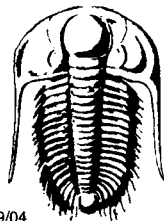
Approved By _____
 Our Representative [Signature]

T-On Location 01:00 Sub Total: 1075
 T-Started 01:47 Std. By _____
 T-Open 03:25 Other _____
 T-Pulled 05:30 Total: _____
 T-Out 07:00

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



22967



TRILOBITE TESTING INC.

No 22968

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Eulert Ranch "K" #1 Test No. #4 Date 4-18-06
 Company ESP Development Zone Tested Arbuckle
 Address 1729 256th Ave Hays Ks 67601 Elevation 1793 KB 1788 GL
 Co. Rep / Geo. Ron Nelson Cont. Vonfeldt #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 4 Twp. 12 Rge. 15 Co. Russell State Ks
 No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3226-3279 Initial Str Wt./Lbs. 45K Unseated Str Wt/Lbs. 45K
 Anchor Length 53' Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 60K
 Top Packer Depth 3221 Tool Weight 2K
 Bottom Packer Depth 3226 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3279 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.2 LCM 1/8# Vis. 42 WL 8.8 Drill Pipe Size 4.5x11 Ft. Run _____
 Blow Description IF Weak Surface Blow
ISI No Blowback
FF Flush Tool 20min to Open, Weak Surface Blow after Surge
IF

| Recovery - Total Feet | GIP | Ft. in DC | Ft. in DP |
|-----------------------|---------------|----------------|----------------------------------------|
| <u>30</u> | <u>HOCM</u> | <u>0</u> | |
| Rec. <u>30</u> | Feet of _____ | %gas <u>25</u> | %oil _____ %water <u>75</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 _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5000 ppm System

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|-------------|--------|---------------------------|------------------------------|
| (A) Initial Hydrostatic Mud | <u>1576</u> | PSI | <u>8166 (18:52)</u> | <u>1000</u> |
| (B) First Initial Flow Pressure | <u>1204</u> | PSI | <u>3229</u> | Jars _____ |
| (C) First Final Flow Pressure | <u>18</u> | PSI | <u>13761</u> | Safety Jt. _____ |
| (D) Initial Shut-In Pressure | <u>836</u> | PSI | <u>3279</u> | Circ Sub _____ |
| (E) Second Initial Flow Pressure | <u>18</u> | PSI | | Sampler _____ |
| (F) Second Final Flow Pressure | <u>989</u> | PSI | | Straddle _____ |
| (G) Final Shut-In Pressure | <u>23</u> | PSI | Initial Opening | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | <u>1557</u> | PSI | Initial Shut-In <u>30</u> | Shale Packer _____ |
| | | | Final Flow <u>58</u> | Ruined Packer _____ |
| | | | Final Shut-In _____ | Mileage <u>X60</u> <u>75</u> |

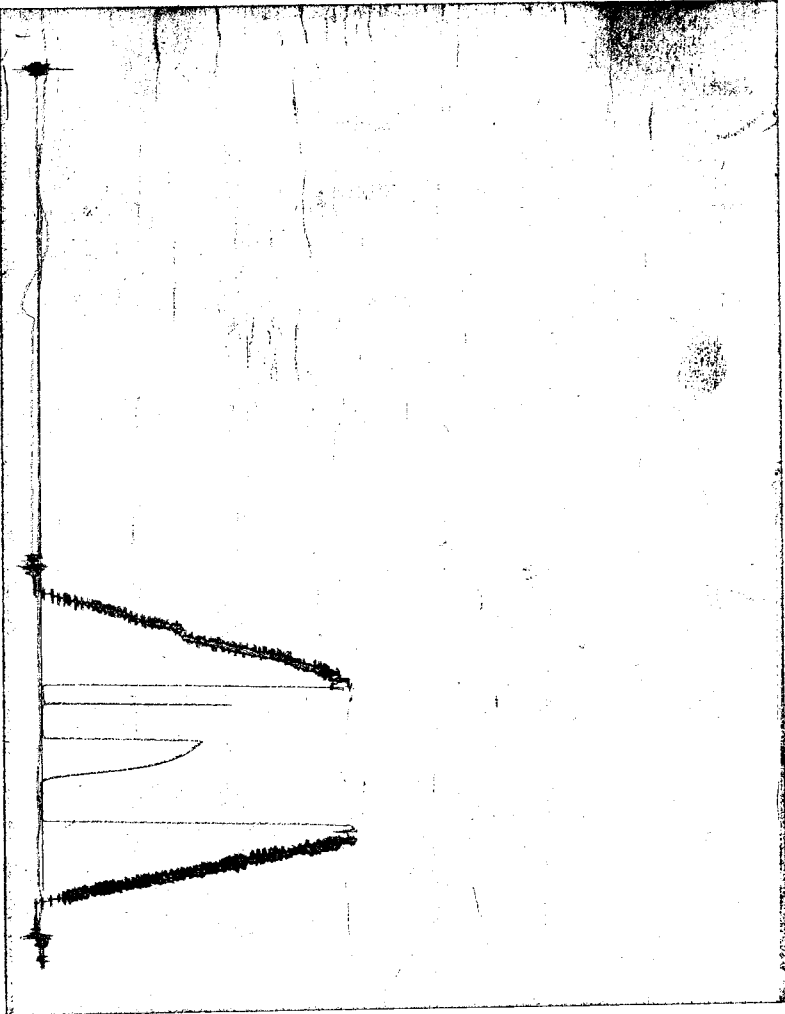
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Approved By _____
 Our Representative [Signature]

| T-On Location | T-Started | T-Open | T-Pulled | T-Out |
|---------------|--------------|--------------|--------------|--------------|
| <u>18:20</u> | <u>18:57</u> | <u>20:32</u> | <u>22:30</u> | <u>23:45</u> |

Sub Total: 1075
 Std. By _____
 Other _____
 Total: _____

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



22968