

## DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

900 N. Tyler Road #14  
Wichita, Ks. 67212

ATTN: Hal Porter

**24--11s--16w**

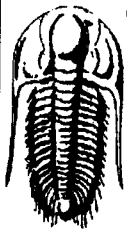
**Powell # 24-1**

Start Date: 2004.06.04 @ 23:28:05

End Date: 2004.06.05 @ 05:33:35

Job Ticket #: 19439                      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

IA Operating, Inc.

900 N. Tyler Road #14  
Wichita, Ks. 67212

ATTN: Hal Porter

**Powell # 24-1**

**24-11s-16w**

Job Ticket: 19439

**DST#: 1**

Test Start: 2004.06.04 @ 23:28:05

### GENERAL INFORMATION:

Formation: **Tor-L.Kc.-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:05

Time Test Ended: 05:33:35

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **2988.00 ft (KB) To 3078.00 ft (KB) (TVD)**

Total Depth: 3078.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1816.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741**

**Inside**

Press@RunDepth: 105.74 psig @ 2991.00 ft (KB)

Start Date: 2004.06.04

End Date: 2004.06.05

Start Time: 23:28:06

End Time: 05:33:35

Capacity: 7000.00 psig

Last Calib.: 2004.06.05

Time On Btm: 2004.06.05 @ 01:05:05

Time Off Btm: 2004.06.05 @ 04:07:05

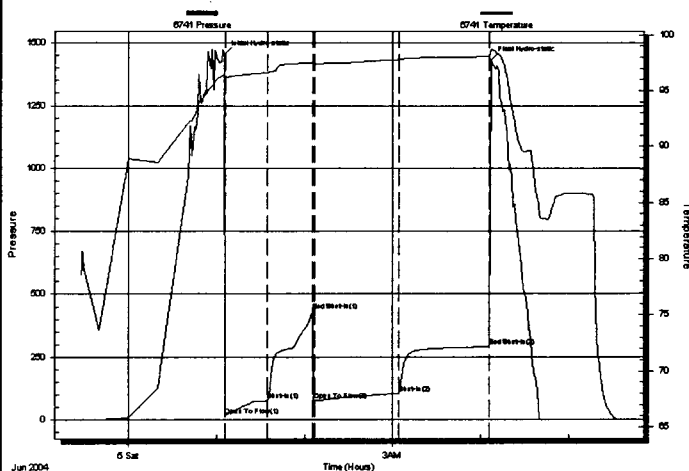
**TEST COMMENT:** F-Weak built to 4" in.

ISI-Weak surface blow back.

FF-Weak to Fair built to 7" in.

FSI-Weak surface blow back.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1454.55         | 96.48        | Initial Hydro-static |
| 1           | 14.51           | 96.29        | Open To Flow (1)     |
| 30          | 75.20           | 96.65        | Shut-In (1)          |
| 61          | 433.51          | 97.51        | End Shut-In (1)      |
| 62          | 75.92           | 97.43        | Open To Flow (2)     |
| 120         | 105.74          | 97.80        | Shut-In (2)          |
| 181         | 290.96          | 98.07        | End Shut-In (2)      |
| 182         | 1431.26         | 98.71        | Final Hydro-static   |

Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 80.00       | Muddy salt water   | 0.39         |
| 120.00      | SOCM-10%oil-90%mud | 1.28         |
| 0.00        | 150 gas in pipe    | 0.00         |
|             |                    |              |
|             |                    |              |
|             |                    |              |

Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating, Inc.

**Powell # 24-1**

900 N.Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19439

**DST#: 1**

ATTN: Hal Porter

Test Start: 2004.06.04 @ 23:28:05

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2849.00 ft | Diameter: 3.80 inches | Volume: 39.96 bbl              | Tool Weight: 2200.00 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: 124.00 ft  | Diameter: 2.25 inches | Volume: 0.61 bbl               | Weight to Pull Loose: 64000.00 lb  |
|                           |                    |                       | <u>Total Volume: 40.57 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 5.00 ft            |                       |                                | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 2988.00 ft         |                       |                                | Final 61000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 90.00 ft           |                       |                                |                                    |
| Tool Length:              | 110.00 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        |            |          | 2969.00    |                               |
| Shut In Tool     | 5.00        |            |          | 2974.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 2979.00    |                               |
| Packer           | 4.00        |            |          | 2983.00    | 20.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 2988.00    |                               |
| Stubb            | 1.00        |            |          | 2989.00    |                               |
| Perforations     | 1.00        |            |          | 2990.00    |                               |
| Change Over Sub  | 1.00        |            |          | 2991.00    |                               |
| Recorder         | 0.00        | 6741       | Inside   | 2991.00    |                               |
| Blank Spacing    | 63.00       |            |          | 3054.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3055.00    |                               |
| Recorder         | 0.00        | 11084      | Outside  | 3055.00    |                               |
| Perforations     | 20.00       |            |          | 3075.00    |                               |
| Bullnose         | 3.00        |            |          | 3078.00    | 90.00 Bottom Packers & Anchor |

**Total Tool Length: 110.00**



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

IA Operating, Inc.

**Powell # 24-1**

900 N. Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19439

**DST#: 1**

ATTN: Hal Porter

Test Start: 2004.06.04 @ 23:28:05

### 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:

27000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 80.00        | Muddy salt water   | 0.393         |
| 120.00       | SOCM-10%oil-90%mud | 1.282         |
| 0.00         | 150 gas in pipe    | 0.000         |

Total Length: 200.00 ft

Total Volume: 1.675 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

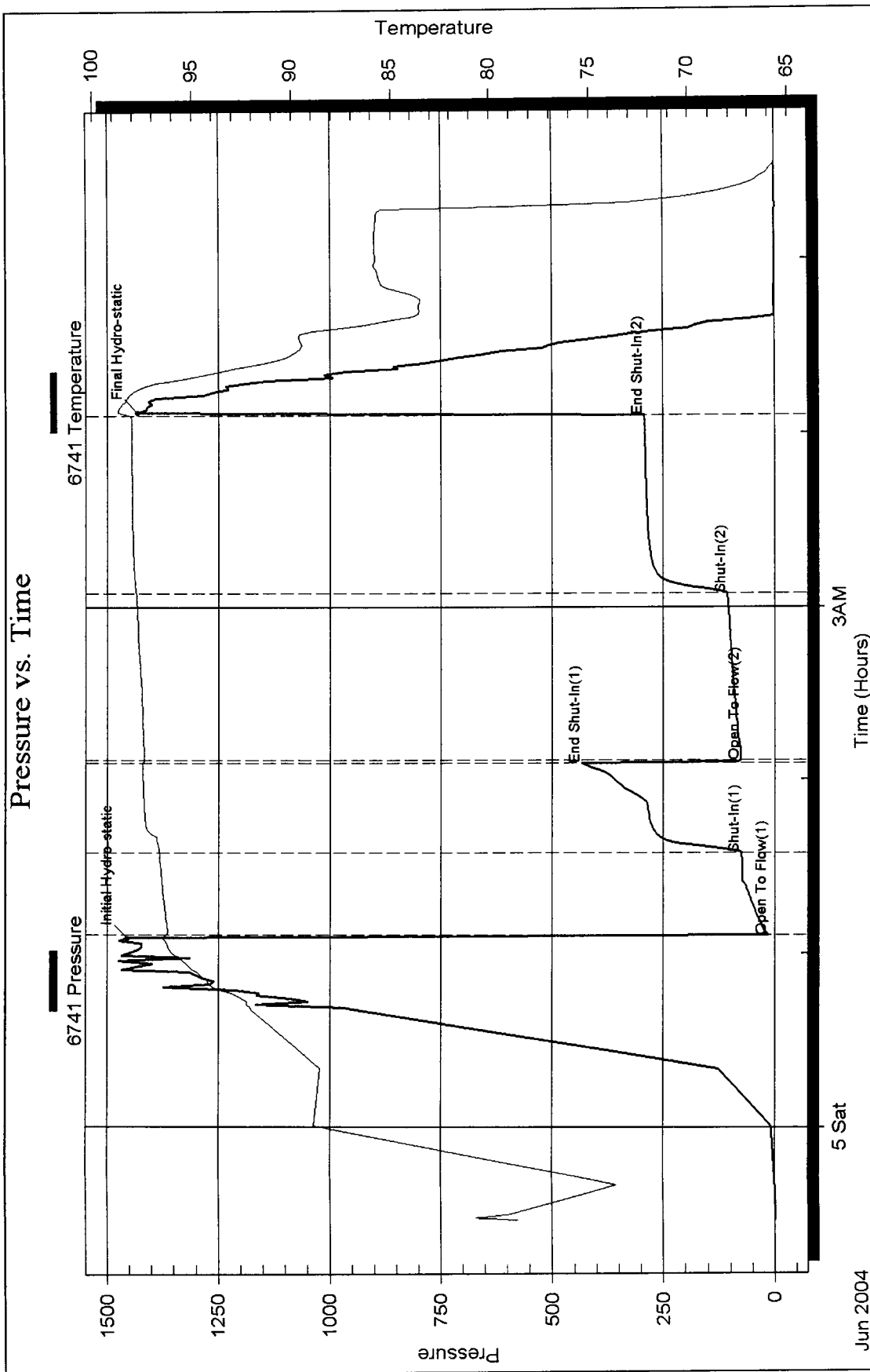
Inside

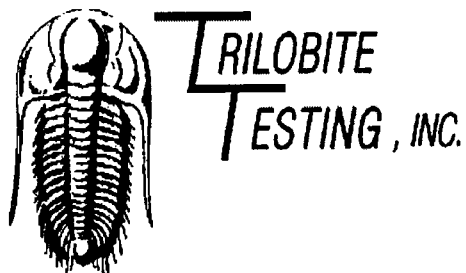
IA Operating, Inc.

24--11s--16w

DST Test Number: 1

## Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

900 N. Tyler Road #14  
Wichita, Ks. 67212

ATTN: Hal Porter

**24--11s--16w**

**Powell # 24-1**

Start Date: 2004.06.05 @ 13:30:01

End Date: 2004.06.05 @ 20:11:31

Job Ticket #: 19440                      DST #: 2

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



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## DRILL STEM TEST REPORT

IA Operating, Inc.

**Powell # 24-1**

900 N. Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19440

**DST#: 2**

ATTN: Hal Porter

Test Start: 2004.06.05 @ 13:30:01

### GENERAL INFORMATION:

Formation: **L.Kc.-F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:19:31

Time Test Ended: 20:11:31

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3097.00 ft (KB) To 3140.00 ft (KB) (TVD)**

Total Depth: 3140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1816.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741**

**Inside**

Press@RunDepth: 134.35 psig @ 3100.00 ft (KB)

Start Date: 2004.06.05 End Date: 2004.06.05

Start Time: 13:30:02 End Time: 20:11:31

Capacity: 7000.00 psig

Last Calib.: 2004.06.05

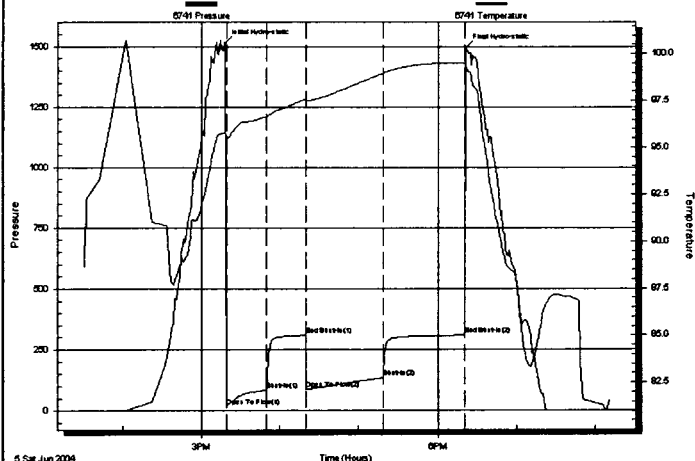
Time On Btm: 2004.06.05 @ 15:18:31

Time Off Btm: 2004.06.05 @ 18:21:31

TEST COMMENT: IF-Weak to fair built to 4" in.  
FF-Weak built to 3" in.

ISI-Dead  
FSI-Dead

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1514.61         | 95.80        | Initial Hydro-static |
| 1           | 16.82           | 95.62        | Open To Flow (1)     |
| 32          | 83.72           | 96.66        | Shut-In (1)          |
| 62          | 308.32          | 97.57        | End Shut-In (1)      |
| 62          | 86.18           | 97.49        | Open To Flow (2)     |
| 120         | 134.35          | 98.94        | Shut-In (2)          |
| 182         | 307.95          | 99.51        | End Shut-In (2)      |
| 183         | 1496.51         | 99.32        | Final Hydro-static   |

### Recovery

| Length (ft) | Description            | Volume (bbl) |
|-------------|------------------------|--------------|
| 260.00      | Muddy Salt W.25%M-75%W | 2.52         |
|             | with oil scum on top   |              |
|             |                        |              |
|             |                        |              |
|             |                        |              |
|             |                        |              |

### Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating, Inc.

**Powell # 24-1**

900 N.Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19440

**DST#: 2**

ATTN: Hal Porter

Test Start: 2004.06.05 @ 13:30:01

### Tool Information

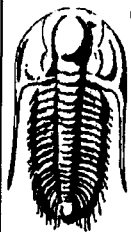
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2975.00 ft | Diameter: 3.80 inches | Volume: 41.73 bbl              | Tool Weight: 2200.00 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: 124.00 ft  | Diameter: 2.25 inches | Volume: 0.61 bbl               | Weight to Pull Loose: 65000.00 lb  |
|                           |                    |                       | <u>Total Volume: 42.34 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 3097.00 ft         |                       |                                | Final 60000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 43.00 ft           |                       |                                |                                    |
| Tool Length:              | 63.00 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  |       |         | 3078.00 |                               |
| Shut In Tool    | 5.00  |       |         | 3083.00 |                               |
| Hydraulic tool  | 5.00  |       |         | 3088.00 |                               |
| Packer          | 4.00  |       |         | 3092.00 | 20.00 Bottom Of Top Packer    |
| Packer          | 5.00  |       |         | 3097.00 |                               |
| Stubb           | 1.00  |       |         | 3098.00 |                               |
| Perforations    | 1.00  |       |         | 3099.00 |                               |
| Change Over Sub | 1.00  |       |         | 3100.00 |                               |
| Recorder        | 0.00  | 6741  | Inside  | 3100.00 |                               |
| Blank Spacing   | 31.00 |       |         | 3131.00 |                               |
| Change Over Sub | 1.00  |       |         | 3132.00 |                               |
| Perforations    | 5.00  |       |         | 3137.00 |                               |
| Recorder        | 0.00  | 13308 | Outside | 3137.00 |                               |
| Bullnose        | 3.00  |       |         | 3140.00 | 43.00 Bottom Packers & Anchor |

**Total Tool Length: 63.00**



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

IA Operating, Inc.

**Powell # 24-1**

900 N. Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19440

**DST#: 2**

ATTN: Hal Porter

Test Start: 2004.06.05 @ 13:30:01

### 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: 39000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description            | Volume<br>bbl |
|--------------|------------------------|---------------|
| 260.00       | Muddy Salt W.25%M-75%W | 2.518         |
|              | with oil scum on top   |               |

Total Length: 260.00 ft      Total Volume: 2.518 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

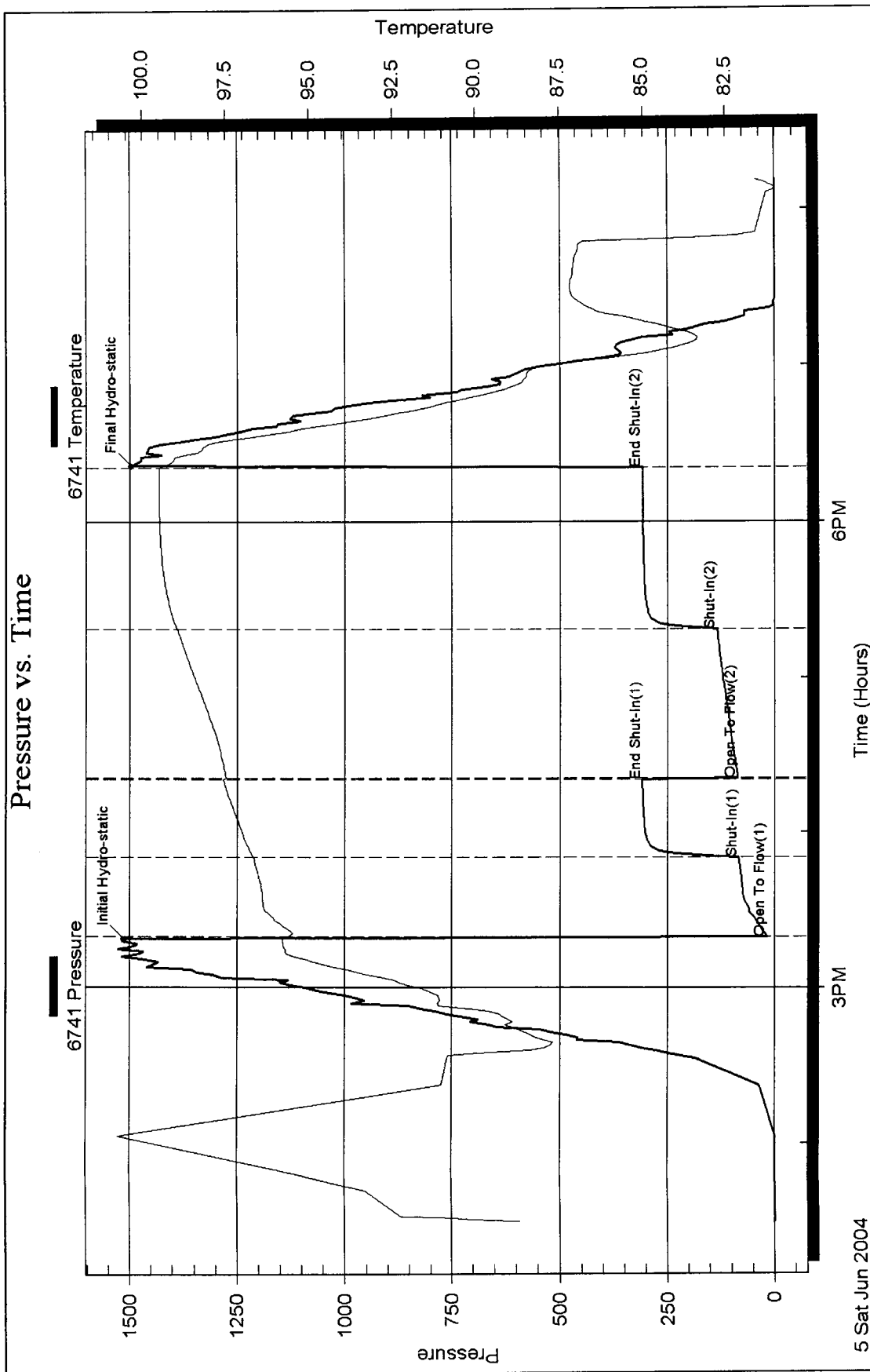
Serial #:

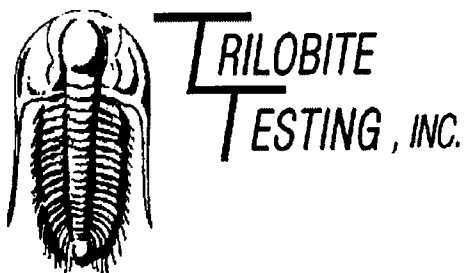
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

900 N. Tyler Road #14  
Wichita, Ks. 67212

ATTN: Hal Porter

**24--11s--16w**

**Powell # 24-1**

Start Date: 2004.06.06 @ 08:58:11

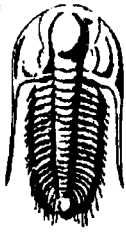
End Date: 2004.06.06 @ 16:10:11

Job Ticket #: 19441                      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

IA Operating, Inc.

900 N. Tyler Road #14  
Wichita, Ks. 67212

ATTN: Hal Porter

**Powell # 24-1**

**24-11s-16w**

Job Ticket: 19441

**DST#: 3**

Test Start: 2004.06.06 @ 08:58:11

### GENERAL INFORMATION:

Formation: **L.Kc.-I-J**

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

Time Tool Opened: 11:13:11

Time Test Ended: 16:10:11

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3181.00 ft (KB) To 3265.00 ft (KB) (TVD)**

Total Depth: **3265.00 ft (KB) (TVD)**

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

Reference Elevations: **1816.00 ft (KB)**

**1811.00 ft (CF)**

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

**Serial #: 6741** Inside

Press@RunDepth: **119.41 psig @ 3184.00 ft (KB)**

Start Date: **2004.06.06**

End Date:

**2004.06.06**

Capacity: **7000.00 psig**

Last Calib.: **2004.06.06**

Start Time: **08:58:12**

End Time:

**16:10:11**

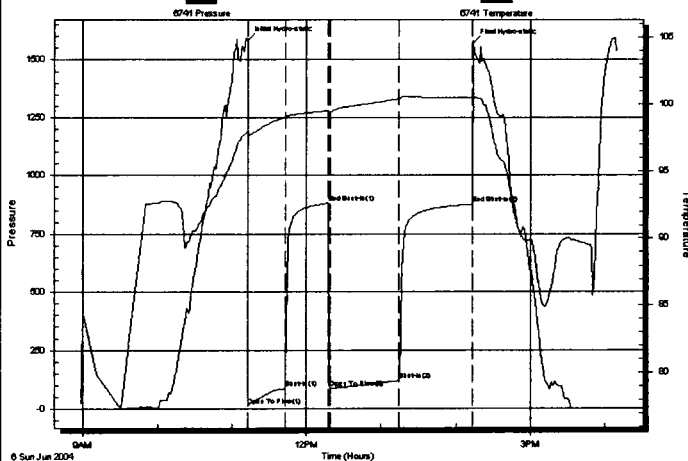
Time On Btm: **2004.06.06 @ 11:12:41**

Time Off Btm: **2004.06.06 @ 14:13:41**

TEST COMMENT: **F-Weak built to 4" in.**  
**FF-Weak built to 4" in.**

**ISI-Dead**  
**FSI-Dead**

Pressure vs. Time



### PRESSURE SUMMARY

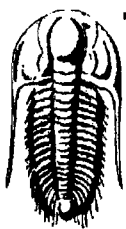
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1585.48         | 97.92        | Initial Hydro-static |
| 1           | 14.71           | 97.44        | Open To Flow (1)     |
| 31          | 85.78           | 99.02        | Shut-In (1)          |
| 65          | 879.88          | 99.47        | End Shut-In (1)      |
| 67          | 86.00           | 99.38        | Open To Flow (2)     |
| 122         | 119.41          | 100.40       | Shut-In (2)          |
| 180         | 875.50          | 100.48       | End Shut-In (2)      |
| 181         | 1572.60         | 100.54       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 230.00      | Muddy Salt water 40%M-60%W | 2.10         |
|             |                            |              |
|             |                            |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating, Inc.

**Powell # 24-1**

900 N.Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19441

**DST#: 3**

ATTN: Hal Porter

Test Start: 2004.06.06 @ 08:58:11

### Tool Information

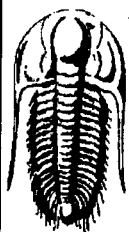
|                           |                    |                         |                   |                                    |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3063.00 ft | Diameter: 3.80 inches   | Volume: 42.97 bbl | Tool Weight: 2200.00 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: 124.00 ft  | Diameter: 2.25 inches   | Volume: 0.61 bbl  | Weight to Pull Loose: 66000.00 lb  |
|                           |                    | Total Volume: 43.58 bbl |                   | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 26.00 ft           |                         |                   | String Weight: Initial 63000.00 lb |
| Depth to Top Packer:      | 3181.00 ft         |                         |                   | Final 64000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                         |                   |                                    |
| Interval between Packers: | 84.00 ft           |                         |                   |                                    |
| Tool Length:              | 104.00 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  |       |         | 3162.00 |                               |
| Shut In Tool    | 5.00  |       |         | 3167.00 |                               |
| Hydraulic tool  | 5.00  |       |         | 3172.00 |                               |
| Packer          | 4.00  |       |         | 3176.00 | 20.00 Bottom Of Top Packer    |
| Packer          | 5.00  |       |         | 3181.00 |                               |
| Stubb           | 1.00  |       |         | 3182.00 |                               |
| Perforations    | 1.00  |       |         | 3183.00 |                               |
| Change Over Sub | 1.00  |       |         | 3184.00 |                               |
| Recorder        | 0.00  | 6741  | Inside  | 3184.00 |                               |
| Blank Spacing   | 62.00 |       |         | 3246.00 |                               |
| Change Over Sub | 1.00  |       |         | 3247.00 |                               |
| Recorder        | 0.00  | 11084 | Outside | 3247.00 |                               |
| Perforations    | 15.00 |       |         | 3262.00 |                               |
| Bullnose        | 3.00  |       |         | 3265.00 | 84.00 Bottom Packers & Anchor |

**Total Tool Length: 104.00**



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

IA Operating, Inc.

**Powell # 24-1**

900 N. Tyler Road #14  
Wichita, Ks. 67212

**24-11s-16w**

Job Ticket: 19441

**DST#: 3**

ATTN: Hal Porter

Test Start: 2004.06.06 @ 08:58:11

### 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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 230.00       | Muddy Salt water 40%M-60%W | 2.097         |

Total Length: 230.00 ft

Total Volume: 2.097 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

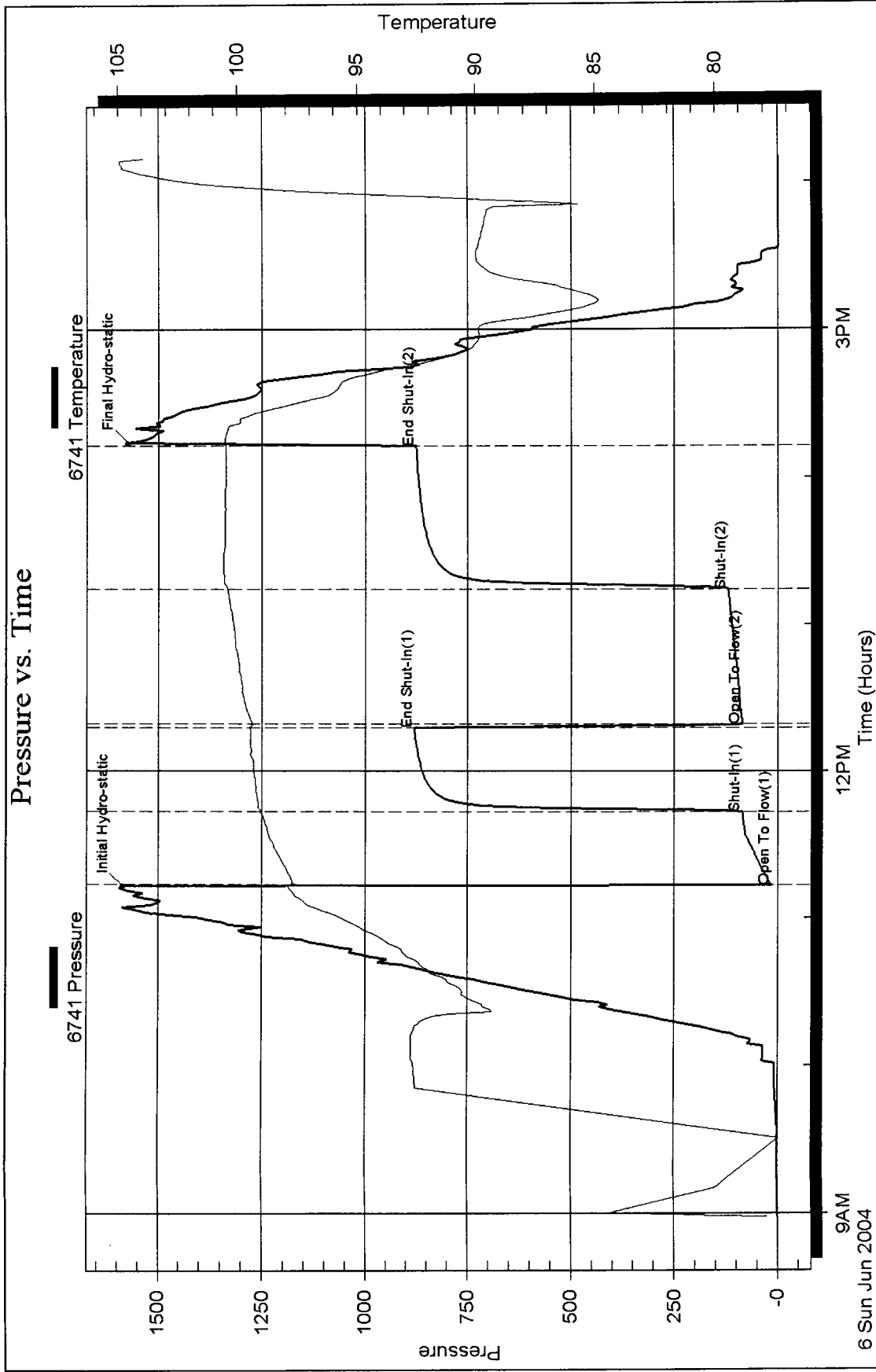
Serial #: 6741

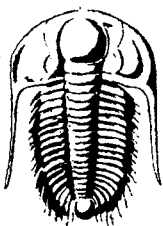
Inside

IA Operating, Inc.

24--11s--16w

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19439

05/03

## Test Ticket

Well Name & No. POWELL #24-1 Test No. #1 Date 6-5-04  
 Company IA OPERATING, INC. Zone Tested TOP. - L, K. - C  
 Address 900 N. TYLER ROAD #14 WICHITA, KS 67212 Elevation 1816 KB 1811 GL  
 Co. Rep / Geo. RANDY KILIAN Cont. MURFIN #16 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 24 Twp. 11S Rge. 16W Co. ELLIS State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 2988 To 3078 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 61,000  
 Anchor Length 90' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 64,000  
 Top Packer Depth 2983 Tool Weight 2200  
 Bottom Packer Depth 2988 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3078 Wt. Pipe Run 0 Drill Collar Run 124'  
 Mud Wt. 9.1 LCM 1 1/2 # Vis. 5' WL 7.8 Drill Pipe Size 4 1/2 XH Ft. Run 2849'  
 Blow Description IF - WEAK BUILT TO 4" IN FSI - WEAK SURF BLOW BACK  
FF - WEAK TO FAIR BUILT TO 7" IN. FSI - WEAK SURF BLOW BACK

Recovery - Total Feet 200 GIP 150' Ft. in DC 124 Ft. in DP 76  
 Rec. 80' Feet of MUDDY SALTW. %gas \_\_\_\_\_ %oil 60 %water 40 %mud  
 Rec. 120 Feet of SOCM %gas 10 %oil \_\_\_\_\_ %water 90 %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 126 @ 69 °F Chlorides 27,000 ppm Recovery \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System

|                                  |      |        |          |                 |       |              |             |
|----------------------------------|------|--------|----------|-----------------|-------|--------------|-------------|
| (A) Initial Hydrostatic Mud      | AK-1 | Alpine | 1454 PSI | Recorder No.    | 6741  | Test         | B. HOLE TO  |
| (B) First Initial Flow Pressure  |      |        | 14 PSI   | (depth)         | 2991  | Elec. Rec.   | ✓ 150       |
| (C) First Final Flow Pressure    |      |        | 75 PSI   | Recorder No.    | 11084 | Jars         |             |
| (D) Initial Shut-In Pressure     |      |        | 433 PSI  | (depth)         | 3055  | Safety Jt.   |             |
| (E) Second Initial Flow Pressure |      |        | 75 PSI   | Recorder No.    |       | Circ Sub     |             |
| (F) Second Final Flow Pressure   |      |        | 105 PSI  | (depth)         |       | Sampler      |             |
| (G) Final Shut-In Pressure       |      |        | 290 PSI  | Initial Opening | 30    | Straddle     |             |
| (Q) Final Hydrostatic Mud        |      |        | 1431 PSI | Initial Shut-In | 30    | Ext. Packer  |             |
|                                  |      |        |          | Final Flow      | 60    | Shale Packer |             |
|                                  |      |        |          | Final Shut-In   | 60    | Mileage      | 10 35 59.50 |
|                                  |      |        |          | T-On Location   | 22:30 | Sub Total:   | 909.50      |
|                                  |      |        |          | T-Started       | 23:28 | Std. By      |             |
|                                  |      |        |          | T-Open          | 01:06 | Other        |             |
|                                  |      |        |          | T-Pulled        | 04:07 | Total:       |             |
|                                  |      |        |          | T-Out           | 05:33 |              |             |

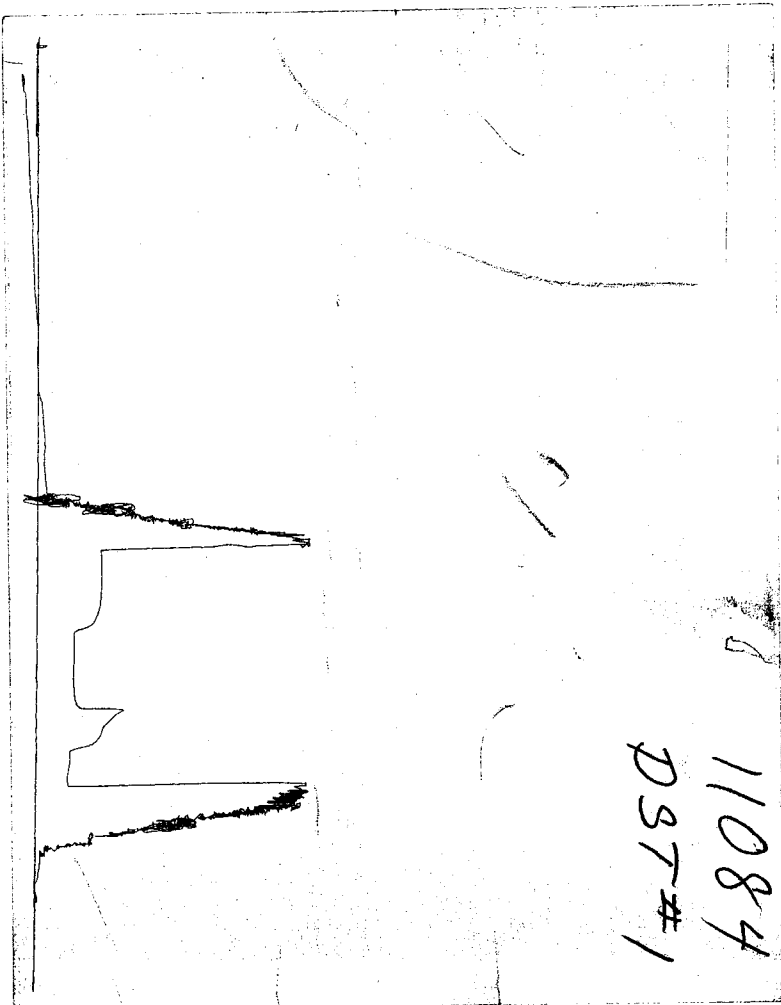
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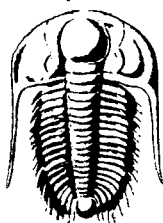
Approved By \_\_\_\_\_

Our Representative John J. Schmidt

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19440

05/03

## Test Ticket

|                 |                    |                            |              |                 |        |
|-----------------|--------------------|----------------------------|--------------|-----------------|--------|
| Well Name & No. | POWELL # 24-1      | Test No.                   | 2            | Date            | 6-5-04 |
| Company         | IA OPERATING, INC. | Zone Tested                | 4, KC. - F-6 |                 |        |
| Address         |                    | Elevation                  | 1816         | KB              | 1811   |
| Co. Rep / Geo.  | RANDY KILIAN       | Cont.                      | MURFIN #16   | Est. Ft. of Pay | Por. % |
| Location: Sec.  | 24                 | Twp.                       | 11S          | Rge.            | 16W    |
|                 |                    | Co.                        | ELLIS        | State           | KS     |
| No. of Copies   |                    | Disbtribution Sheet (Y, N) |              | Turnkey (Y, N)  |        |
|                 |                    | Evaluation (Y, N)          |              |                 |        |

|                     |                              |                      |        |                       |          |
|---------------------|------------------------------|----------------------|--------|-----------------------|----------|
| Interval Tested     | 3097 TO 3140                 | Initial Str Wt./Lbs. | 60,000 | Unseated Str Wt./Lbs. | 60,000   |
| Anchor Length       | 43'                          | Wt. Set Lbs.         | 25,000 | Wt. Pulled Loose/Lbs. | 65,000   |
| Top Packer Depth    | 3092                         | Tool Weight          | 2200   |                       |          |
| Bottom Packer Depth | 3097                         | Hole Size 7 7/8"     | ✓      | Rubber Size 6 3/4"    | ✓        |
| Total Depth         | 3140                         | Wt. Pipe Run         | 0      | Drill Collar Run      | 124      |
| Mud Wt.             | 9.0                          | LCM                  | 1*     | Vis.                  | 46       |
|                     |                              | WL                   | 8.8    | Drill Pipe Size       | 4 1/2 XH |
| Blow Description    | IF-WEAK TO FAIR BUILT 4" IN. | FSI-DEAD             |        | Ft. Run               | 2975     |
|                     | FF-WEAK BUILT TO 3" IN.      | FSI-DEAD             |        |                       |          |

|                       |     |            |                  |           |            |                      |     |
|-----------------------|-----|------------|------------------|-----------|------------|----------------------|-----|
| Recovery - Total Feet | 260 | GIP        | 0                | Ft. in DC | 124        | Ft. in DP            | 136 |
| Rec.                  | 260 | Feet of    | MUDDY SW         | %gas      |            | %oil                 | 75  |
|                       |     |            |                  | %water    |            | %mud                 | 25  |
| Rec.                  |     | Feet of    | WITH OIL SCUM ON | %gas      |            | %oil                 |     |
|                       |     |            |                  | %water    |            | %mud                 |     |
| Rec.                  |     | Feet of    | TOP              | %gas      |            | %oil                 |     |
|                       |     |            |                  | %water    |            | %mud                 |     |
| Rec.                  |     | Feet of    |                  | %gas      |            | %oil                 |     |
|                       |     |            |                  | %water    |            | %mud                 |     |
| BHT                   | 99  | °F Gravity | -                | °API D @  | -          | °F Corrected Gravity | -   |
|                       |     |            |                  | °API      |            |                      |     |
| RW                    | .17 | @          | 80 °F            | Chlorides | 39,000 ppm | Recovery             | -   |
|                       |     |            |                  | Chlorides | 5,000 ppm  | System               |     |

|                                  |      |        |      |     |                 |       |             |         |
|----------------------------------|------|--------|------|-----|-----------------|-------|-------------|---------|
| (A) Initial Hydrostatic Mud      | AK-1 | Alpine | 1514 | PSI | Recorder No.    | 6741  | Test        | B. HOLE |
| (B) First Initial Flow Pressure  |      |        | 16   | PSI | (depth)         | 3100  | Elec. Rec.  | ✓       |
| (C) First Final Flow Pressure    |      |        | 83   | PSI | Recorder No.    | 13308 | Jars        |         |
| (D) Initial Shut-In Pressure     |      |        | 308  | PSI | (depth)         | 3137  | Safety Jt.  |         |
| (E) Second Initial Flow Pressure |      |        | 86   | PSI | Recorder No.    |       | Circ Sub    |         |
| (F) Second Final Flow Pressure   |      |        | 134  | PSI | (depth)         |       | Sampler     |         |
| (G) Final Shut-In Pressure       |      |        | 307  | PSI | Initial Opening | 30    | Straddle    |         |
| (Q) Final Hydrostatic Mud        |      |        | 1496 | PSI | Initial Shut-In | 30    | Ext. Packer |         |

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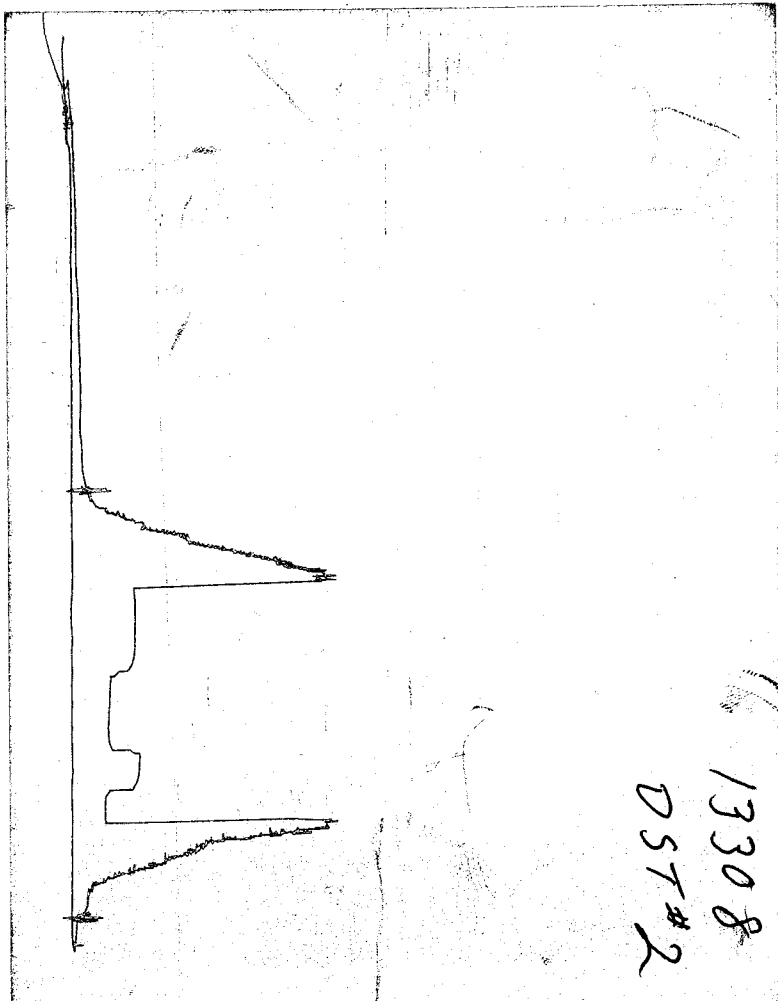
Approved By \_\_\_\_\_

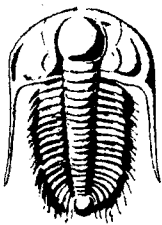
Our Representative John J. Schmidt

|               |          |
|---------------|----------|
| Final Flow    | 60       |
| Final Shut-In | 60       |
| T-On Location | 12:45    |
| T-Started     | 13:30    |
| T-Open        | 15:10 19 |
| T-Pulled      | 18:21    |
| T-Out         | 20:11    |
| Mileage       | 35       |
| Sub Total:    | 909.50   |
| Std. By       |          |
| Other         |          |
| Total:        |          |

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19441

05/03

## Test Ticket

|                                                          |                                         |                                              |
|----------------------------------------------------------|-----------------------------------------|----------------------------------------------|
| Well Name & No. <u>POWELL # 24-1</u>                     | Test No. <u>#3</u>                      | Date <u>6-6-05</u>                           |
| Company <u>1A OPERATING, INC.</u>                        | Zone Tested <u>L.K. - J-K</u>           |                                              |
| Address _____                                            | Elevation <u>1816</u> KB <u>1811</u> GL |                                              |
| Co. Rep / Geo. <u>RANDY KILIAN</u>                       | Cont. <u>MURFIN #14</u>                 | Est. Ft. of Pay _____ Por. _____ %           |
| Location: Sec. <u>24</u> Twp. <u>11S</u> Rge. <u>16W</u> | Co. <u>ELLIS</u>                        | State <u>KS</u>                              |
| No. of Copies _____                                      | Disbtribution Sheet (Y, N) _____        | Turnkey (Y, N) _____ Evaluation (Y, N) _____ |

|                                                               |                                    |                                     |
|---------------------------------------------------------------|------------------------------------|-------------------------------------|
| Interval Tested <u>3181 TO 3265</u>                           | Initial Str Wt./Lbs. <u>63,000</u> | Unseated Str Wt./Lbs. <u>64,000</u> |
| Anchor Length <u>84</u>                                       | Wt. Set Lbs. <u>25000</u>          | Wt. Pulled Loose/Lbs. <u>66,000</u> |
| Top Packer Depth <u>3176</u>                                  | Tool Weight <u>2200</u>            |                                     |
| Bottom Packer Depth <u>3181</u>                               | Hole Size <u>7 7/8"</u> ✓          | Rubber Size <u>6 3/4"</u> ✓         |
| Total Depth <u>3265</u>                                       | Wt. Pipe Run <u>0</u>              | Drill Collar Run <u>124</u>         |
| Mud Wt. <u>9.4</u> LCM <u>1#</u> Vis. <u>44</u> WL <u>9.2</u> | Drill Pipe Size <u>4 1/2 XH.</u>   | Ft. Run <u>3063</u>                 |
| Blow Description <u>FF-WEAK BUILT TO 4" IN.</u>               | <u>FSI - DEAD</u>                  |                                     |
| <u>FF-WEAK BUILT TO 4" IN.</u>                                | <u>FSI - DEAD</u>                  |                                     |

|                                   |                                           |                                   |                                      |
|-----------------------------------|-------------------------------------------|-----------------------------------|--------------------------------------|
| Recovery - Total Feet <u>230'</u> | GIP <u>0</u>                              | Ft. in DC <u>124</u>              | Ft. in DP <u>106</u>                 |
| Rec. <u>230</u>                   | Feet of <u>MUDDY S. WATER</u>             | %gas _____                        | %oil <u>40</u> %water <u>40</u> %mud |
| Rec. _____                        | Feet of _____                             | %gas _____                        | %oil _____ %water _____ %mud         |
| Rec. _____                        | Feet of _____                             | %gas _____                        | %oil _____ %water _____ %mud         |
| Rec. _____                        | Feet of _____                             | %gas _____                        | %oil _____ %water _____ %mud         |
| Rec. _____                        | Feet of _____                             | %gas _____                        | %oil _____ %water _____ %mud         |
| BHT <u>100</u> °F Gravity _____   | *API D @ _____                            | *F Corrected Gravity _____        | *API _____                           |
| RW <u>.14</u> @ <u>100</u> °F     | Chlorides <u>35000</u> ppm Recovery _____ | Chlorides <u>6,000</u> ppm System |                                      |

|                                  |                 |                           |                     |
|----------------------------------|-----------------|---------------------------|---------------------|
| (A) Initial Hydrostatic Mud      | <u>1585</u> PSI | Recorder No. <u>6741</u>  | Test <u>B. HOLE</u> |
| (B) First Initial Flow Pressure  | <u>14</u> PSI   | (depth) <u>3184</u>       | Elec. Rec. <u>✓</u> |
| (C) First Final Flow Pressure    | <u>85</u> PSI   | Recorder No. <u>11084</u> | Jars _____          |
| (D) Initial Shut-In Pressure     | <u>879</u> PSI  | (depth) <u>3247</u>       | Safety Jt. _____    |
| (E) Second Initial Flow Pressure | <u>86</u> PSI   | Recorder No. _____        | Circ Sub _____      |
| (F) Second Final Flow Pressure   | <u>119</u> PSI  | (depth) _____             | Sampler _____       |
| (G) Final Shut-In Pressure       | <u>875</u> PSI  | Initial Opening <u>30</u> | Straddle _____      |
| (Q) Final Hydrostatic Mud        | <u>1572</u> PSI | Initial Shut-In <u>30</u> | Ext. Packer _____   |

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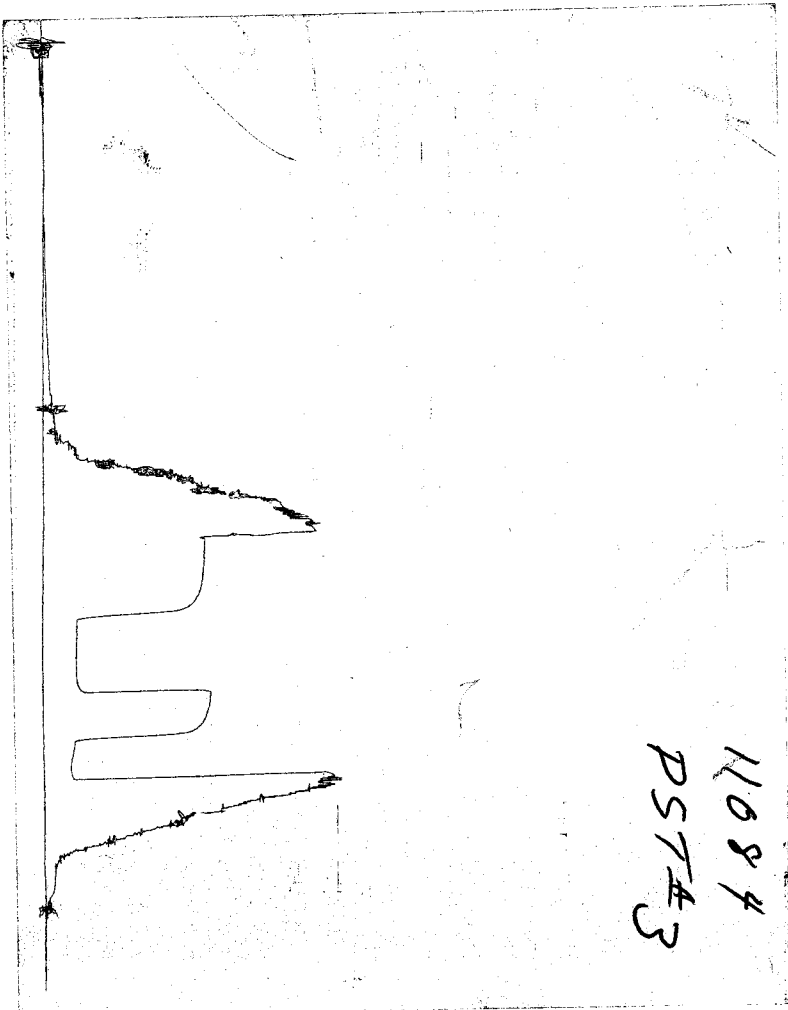
Our Representative John F. Schmidt

Final Flow 60  
Final Shut-In 60  
T-On Location 08:30  
T-Started 08:58  
T-Open 11:13  
T-Pulled 14:13  
T-Out 16:10

Shale Packer \_\_\_\_\_  
Mileage 35  
Sub Total: 909.50  
Std. By 40  
Other 6 extra copies  
Total: 949.50

# CHART PAGE

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6

6

9

Powell

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