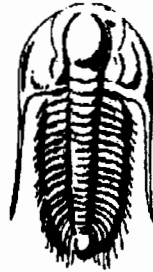


15-095-21961

1-28s-6w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S. Market
Wichita Ks. 67202

ATTN: Vern Schrag

1-28s-6w Kingman Ks.

Hirt #1-1

Start Date: 2005.05.03 @ 15:55:38

End Date: 2005.05.04 @ 01:10:38

Job Ticket #: 20671 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Lario Oil & Gas

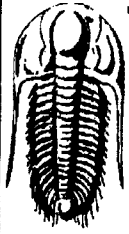
Hirt #1-1

1-28s-6w Kingman Ks.

DST # 1

Miss.

2005.05.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lario Oil & Gas

Hirt #1-1

301 S. Market
Wichita Ks. 67202

1-28s-6w Kingman Ks.

ATTN: Vern Schrag

Job Ticket: 20671

DST#: 1

Test Start: 2005.05.03 @ 15:55:38

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 18:50:23

Time Test Ended: 01:10:38

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **3786.00 ft (KB) To 3800.00 ft (KB) (TVD)**

Reference Elevations: 1443.00 ft (KB)

Total Depth: 3800.00 ft (KB) (TVD)

1433.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6755 Inside

Press@RunDepth: 201.46 psig @ 3787.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.05.03

End Date:

2005.05.04

Last Calib.: 2005.05.04

Start Time: 15:55:43

End Time:

01:10:38

Time On Btm: 2005.05.03 @ 18:47:08

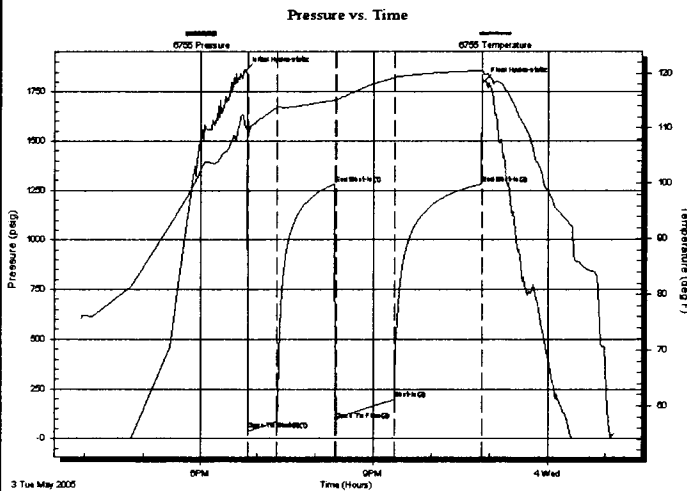
Time Off Btm: 2005.05.03 @ 22:53:38

TEST COMMENT: F: Strong blow. B.O.B. in 10 secs. GTS in 14 mins. (see gas volume report)

IS: Weak blow. 1 - 3".

FF: Strong blow. (see gas volume report)

FS: Fair blow. 2 - 8".



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1855.49 | 110.20 | Initial Hydro-static |
| 4 | 44.75 | 109.02 | Open To Flow (1) |
| 34 | 87.67 | 113.70 | Shut-In(1) |
| 94 | 1282.95 | 115.08 | End Shut-In(1) |
| 95 | 95.44 | 115.01 | Open To Flow (2) |
| 155 | 201.46 | 119.15 | Shut-In(2) |
| 245 | 1281.64 | 120.48 | End Shut-In(2) |
| 247 | 1804.39 | 119.87 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 285.00 | SW .095 ohms @ 48 deg. | 4.00 |
| 110.00 | SOCMV 1%o 29%m 70%w | 1.54 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 2.00 | 26.02 |
| Last Gas Rate | 0.13 | 4.00 | 6.89 |
| Max. Gas Rate | 0.13 | 4.00 | 6.89 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Hirt #1-1

301 S. Market
Wichita Ks. 67202

1-28s-6w Kingman Ks.

Job Ticket: 20671

DST#: 1

ATTN: Vern Schrag

Test Start: 2005.05.03 @ 15:55:38

Tool Information

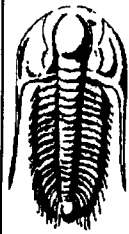
| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3780.00 ft | Diameter: 3.80 inches | Volume: 53.02 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | 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: 70000.00 lb |
| | | | <u>Total Volume: 53.02 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 21.00 ft | | | String Weight: Initial 55000.00 lb |
| Depth to Top Packer: | 3786.00 ft | | | Final 56000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 14.00 ft | | | |
| Tool Length: | 41.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3760.00 | |
| Shut In Tool | 5.00 | | | 3765.00 | |
| Hydraulic tool | 5.00 | | | 3770.00 | |
| Jars | 5.00 | | | 3775.00 | |
| Safety Joint | 2.00 | | | 3777.00 | |
| Packer | 4.00 | | | 3781.00 | 27.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3786.00 | |
| Stubb | 1.00 | | | 3787.00 | |
| Recorder | 0.00 | 6755 | Inside | 3787.00 | |
| Perforations | 8.00 | | | 3795.00 | |
| Recorder | 0.00 | 13222 | Outside | 3795.00 | |
| Bullnose | 5.00 | | | 3800.00 | 14.00 Bottom Packers & Anchor |

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Hirt #1-1

301 S. Market
Wichita Ks. 67202

1-28s-6w Kingman Ks.

Job Ticket: 20671

DST#: 1

ATTN: Vern Schrag

Test Start: 2005.05.03 @ 15:55:38

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: | 129000 ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.99 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 4000.00 ppm | | | |
| Filter Cake: 0.20 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---|---------------|
| 285.00 | SW .095 ohms @ 48 deg. | 3.998 |
| 110.00 | SOCMV 1%o 29% _m 70% _w | 1.543 |

Total Length: 395.00 ft Total Volume: 5.541 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Hirt #1-1

301 S. Market
Wichita Ks. 67202

1-28s-6w Kingman Ks.

Job Ticket: 20671

DST#: 1

ATTN: Vern Schrag

Test Start: 2005.05.03 @ 15:55:38

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1 | 20 | 0.25 | 2.00 | 26.02 |
| 1 | 30 | 0.25 | 2.00 | 26.02 |
| 2 | 10 | 0.25 | 2.50 | 26.81 |
| 2 | 20 | 0.25 | 2.00 | 26.02 |
| 2 | 30 | 0.25 | 2.00 | 26.02 |
| 2 | 40 | 0.25 | 1.00 | 24.43 |
| 2 | 50 | 0.13 | 3.00 | 6.51 |
| 2 | 60 | 0.13 | 4.00 | 6.89 |

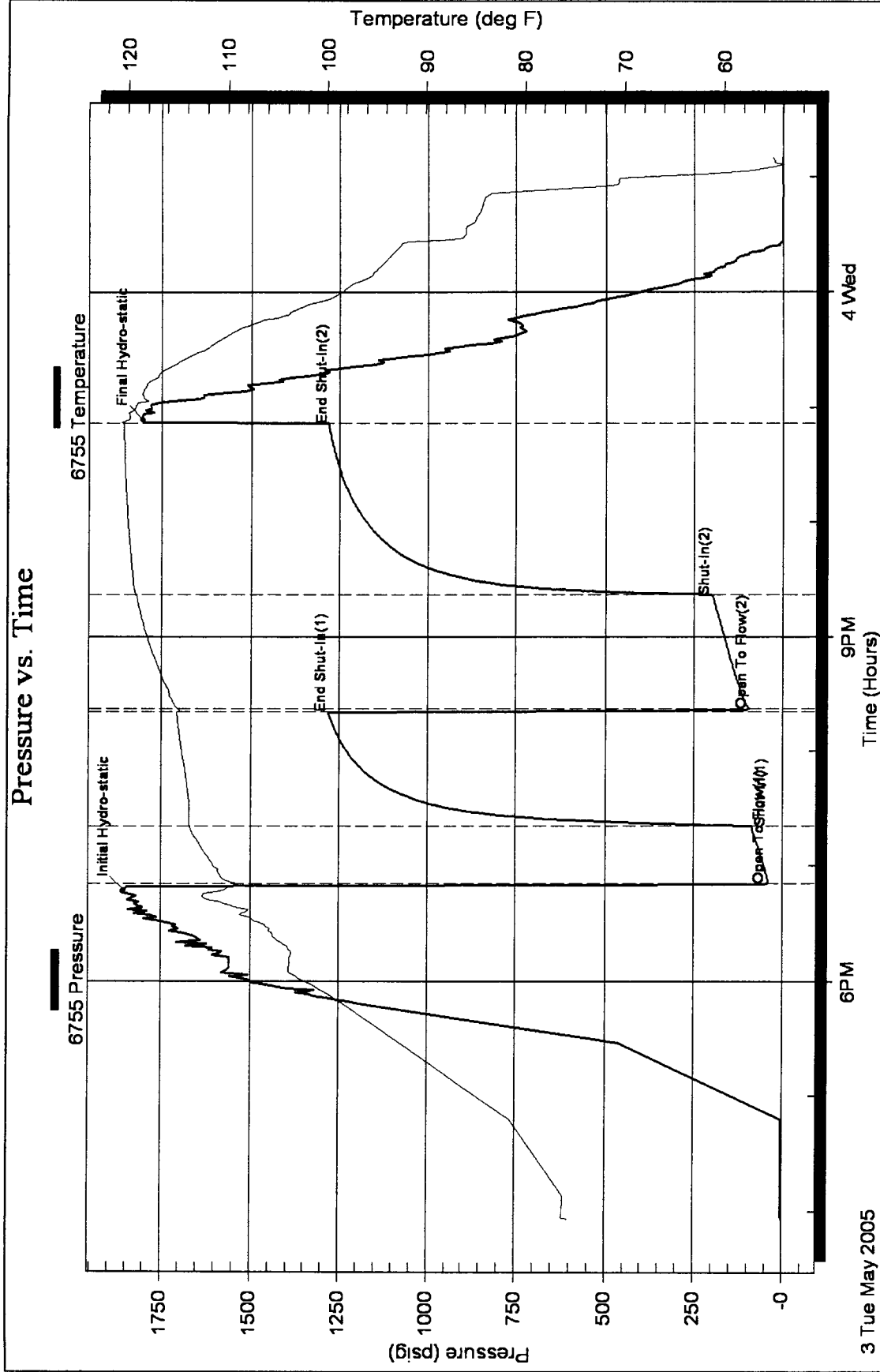
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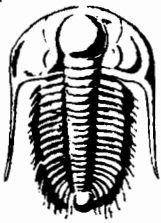
Inside

Lario Oil & Gas

1-28s-6w Kingman Ks.

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
7453

No 20671

05/03

Test Ticket

Well Name & No. Hirt # 1-1 Test No. 1 Date 5-3-05
 Company Lario Oil & Gas Zone Tested Mess
 Address 301 S. Market, Wichita Ks. 67202 Elevation 1443 KB 1433 GL
 Co. Rep / Geo. Vern Schrag Cont. Val Energy #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 1 Twp. 28^S Rge. 6^W Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3786 - 3800' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 9,000
 Anchor Length 14' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 3781' Tool Weight 2100#
 Bottom Packer Depth 3786' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3800' Wt. Pipe Run None Drill Collar Run None
 Mud Wt. 9.2 LCM --- Vis. 50 WL 8.000 Drill Pipe Size 4 1/2" Ft. Run 3780'
 Blow Description IF: Strong blow 3.0.3. in 10 sec. GTS in 14 min. (see gas volume report) IST: Weak below 1-3".
FF: Strong blow (see gas volume report) FST: Fair below 2-8".

| Recovery - Total Feet | GIP | Ft. in DC | Ft. in DP |
|---|--|-----------|------------|
| <u>395</u> | <u>yes</u> | <u>6</u> | <u>395</u> |
| Rec. <u>110</u> Feet of <u>SOCMUD</u> | %gas <u>1</u> %oil <u>70</u> %water <u>29</u> %mud | | |
| Rec. <u>285</u> Feet of <u>SW</u> | %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>120</u> °F Gravity <u>N/A</u> °API D @ _____ °F Corrected Gravity <u>N/A</u> °API | | | |
| RW <u>.095</u> @ <u>48</u> °F Chlorides <u>129,000</u> ppm Recovery _____ Chlorides <u>4,000</u> ppm System | | | |

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|-----------------|-----------------|--------------|------------------------|
| (A) Initial Hydrostatic Mud | <u>1855</u> PSI | <u>1855</u> PSI | <u>6755</u> | <u>950</u> |
| (B) First Initial Flow Pressure | <u>45</u> PSI | <u>45</u> PSI | <u>3787'</u> | Elec. Rec. <u>✓</u> |
| (C) First Final Flow Pressure | <u>88</u> PSI | <u>88</u> PSI | <u>13222</u> | Jars <u>✓ 200</u> |
| (D) Initial Shut-In Pressure | <u>1283</u> PSI | <u>1283</u> PSI | <u>3795'</u> | Safety Jt. <u>✓ 50</u> |
| (E) Second Initial Flow Pressure | <u>95</u> PSI | <u>95</u> PSI | --- | Circ Sub _____ |
| (F) Second Final Flow Pressure | <u>201</u> PSI | <u>201</u> PSI | --- | Sampler _____ |
| (G) Final Shut-In Pressure | <u>1282</u> PSI | <u>1282</u> PSI | <u>30</u> | Straddle _____ |
| (Q) Final Hydrostatic Mud | <u>1804</u> PSI | <u>1804</u> PSI | <u>40</u> | Ext. Packer _____ |

| | Final Flow | Final Shut-In | T-On Location | T-Started | T-Open | T-Pulled | T-Out |
|---|---------------------|---------------|---------------|-------------|-------------|-------------|---|
| | <u>60</u> | <u>60</u> | <u>1510</u> | <u>1555</u> | <u>1850</u> | <u>2258</u> | <u>0110</u> |
| TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE. | | | | | | | |
| Approved By | <u>Vern Schrag</u> | | | | | | |
| Our Representative | <u>Gary Wolcott</u> | | | | | | |
| | | | | | | | Mileage <u>✓ 100</u> Sub Total: <u>1300</u> Std. By <u>✓ 60</u> Other <u>✓ 150</u> Total: <u>1510.00</u> LIABILITY CHARGE FOR TESTER |

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

