# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Bramwell Petroleum INC

15183 SW 25th AVE
Spivey KS 67142

ATTN: Doug Bramwell

**Kohman #12**

**7-30s-7w**

Job Ticket: 42548 **DST#: 1**

Test Start: 2011.08.25 @ 18:46:13

## GENERAL INFORMATION:

Formation: **Hertha/ Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:50:58
Time Test Ended: 01:24:43

Test Type: Conventional Bottom Hole
Tester: Chris Staats
Unit No: 34

**Interval: 3775.00 ft (KB) To 3855.00 ft (KB) (TVD)**
Total Depth: 3855.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1525.00 ft (KB)
1515.00 ft (CF)
KB to GR/CF: 10.00 ft

**Serial #: 8166** Outside
Press@RunDepth: 238.11 psig @ 3776.00 ft (KB)
Start Date: 2011.08.25 End Date: 2011.08.26
Start Time: 18:46:18 End Time: 01:24:42

Capacity: 8000.00 psig
Last Calib.: 2011.08.26
Time On Btm: 2011.08.25 @ 20:46:13
Time Off Btm: 2011.08.25 @ 22:59:43

TEST COMMENT: IF: Strong blow BOB 8 min
ISI No blow back
FF: Weak surface blow
FSI: No blow back

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DEC 22 2011
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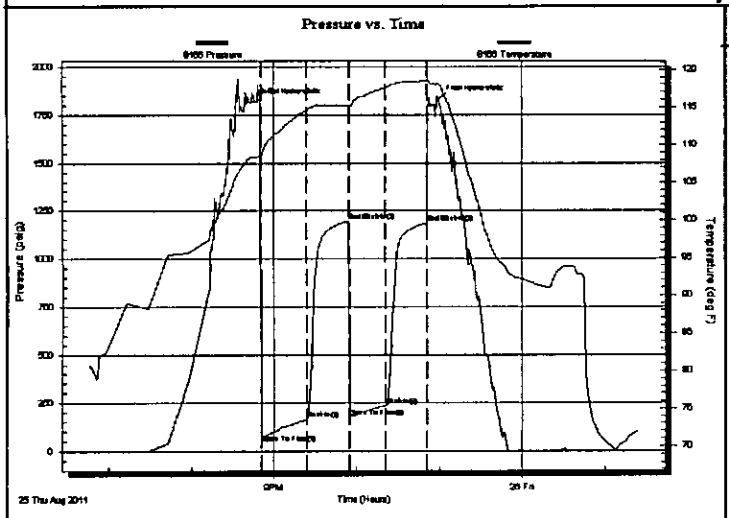



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 1816.78 | 108.29 | Initial Hydro-static |
| 5 | 38.57 | 108.51 | Open To Flow (1) |
| 38 | 165.85 | 114.68 | Shut-In(1) |
| 68 | 1195.75 | 115.28 | End Shut-In(1) |
| 69 | 178.93 | 115.10 | Open To Flow (2) |
| 95 | 238.11 | 117.57 | Shut-In(2) |
| 125 | 1185.04 | 118.44 | End Shut-In(2) |
| 134 | 1830.23 | 118.02 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 588 GIP | 0.00 |
| 402.00 | O, M 5% oil 95% mud | 4.55 |
| 186.00 | O,M,W 5% oil 20% mud 75%water | 2.61 |
| | | |
| | | |
| | | |

## Gas Rates

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

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bramwell Petroleum INC

15183 SW 25th AVE
Spivey KS 67142

ATTN: Doug Bramwell

**Kohman #12**

**7-30s-7w**

Job Ticket: 42548 **DST#: 1**

Test Start: 2011.08.25 @ 18:46:13

## 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: | 43.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 10.39 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 3500.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 0.00 | 588 GIP | 0.000 |
| 402.00 | O, M 5% oil 95% mud | 4.555 |
| 186.00 | O,M,W 5% oil 20% mud 75%water | 2.609 |

Total Length: 588.00 ft Total Volume: 7.164 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**GAS RATES**

Bramwell Petroleum INC

15183 SW 25th AVE
Spivey KS 67142

ATTN: Doug Bramwell

**Kohman #12**

**7-30s-7w**

Job Ticket: 42548 **DST#: 1**

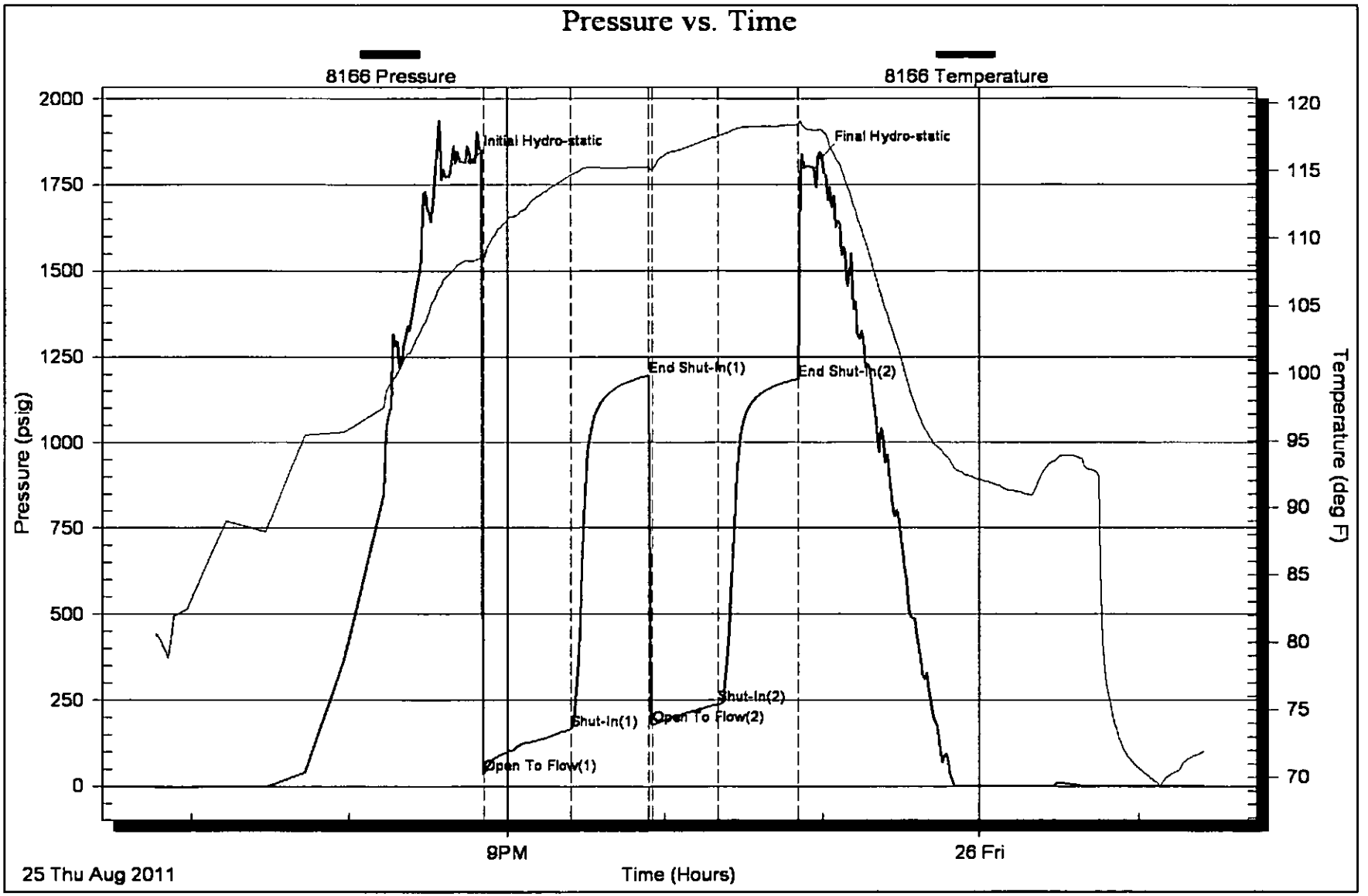
Test Start: 2011.08.25 @ 18:46:13

## 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 ($m^3/d$) |
|---|---|---|---|---|
| | | 0.00 | 0.00 | 0.00 |


Pressure vs. Time
8166 Pressure
8166 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
9PM
26 Fri
25 Thu Aug 2011
Time (Hours)

# DRILL STEM TEST REPORT

Bramwell Petroleum INC

15183 SW 25th AVE
Spivey KS 67142

ATTN: Doug Bramwell

**Kohman #12**

**7-30s-7w**

Job Ticket: 42549 **DST#: 2**

Test Start: 2011.08.27 @ 01:04:02

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:04:47
Time Test Ended: 08:11:32

Test Type: Conventional Bottom Hole
Tester: Chris Staats
Unit No: 34

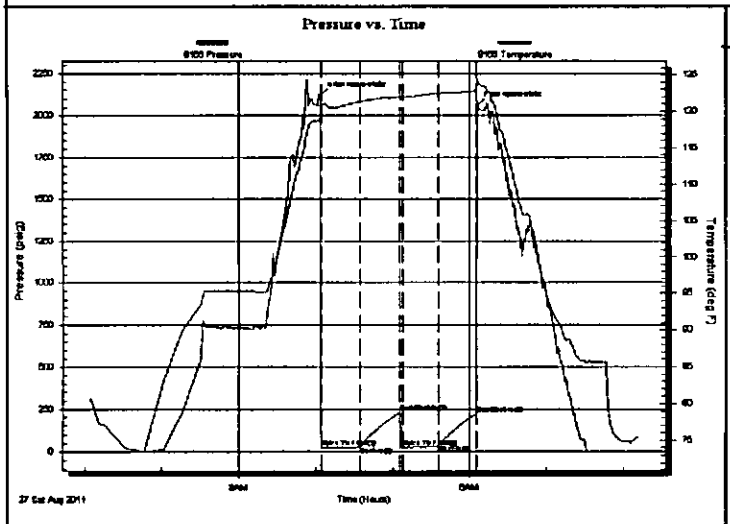
**Interval: 4150.00 ft (KB) To 4300.00 ft (KB) (TVD)**
Total Depth: 4300.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1525.00 ft (KB)
1515.00 ft (CF)
KB to GR/CF: 10.00 ft

**Serial #: 8166** **Outside**
Press@RunDepth: 41.81 psig @ 4151.00 ft (KB)
Start Date: 2011.08.27 End Date: 2011.08.27
Start Time: 01:04:07 End Time: 08:11:31

Capacity: 8000.00 psig
Last Calib.: 2011.08.27
Time On Btm: 2011.08.27 @ 04:03:32
Time Off Btm: 2011.08.27 @ 06:06:02

TEST COMMENT: IF: Strong blow BOB 30 sec
ISI: No blow back
FF: Strong blow BOB 2 sec
FSI: No blow back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2115.82 | 118.90 | Initial Hydro-static |
| 2 | 25.77 | 120.76 | Open To Flow (1) |
| 32 | 30.04 | 121.34 | Shut-In(1) |
| 62 | 230.92 | 121.96 | End Shut-In(1) |
| 64 | 25.34 | 122.01 | Open To Flow (2) |
| 92 | 41.81 | 122.42 | Shut-In(2) |
| 122 | 222.65 | 122.74 | End Shut-In(2) |
| 123 | 2061.97 | 124.27 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 992' GIP | 0.00 |
| 60.00 | MUDD 100% | 0.30 |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bramwell Petroleum INC

15183 SW 25th AVE
Spivey KS 67142

ATTN: Doug Bramwell

**Kohman #12**

**7-30s-7w**

Job Ticket: 42549 **DST#: 2**

Test Start: 2011.08.27 @ 01:04:02

## 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: | 52.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 13.98 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 11000.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

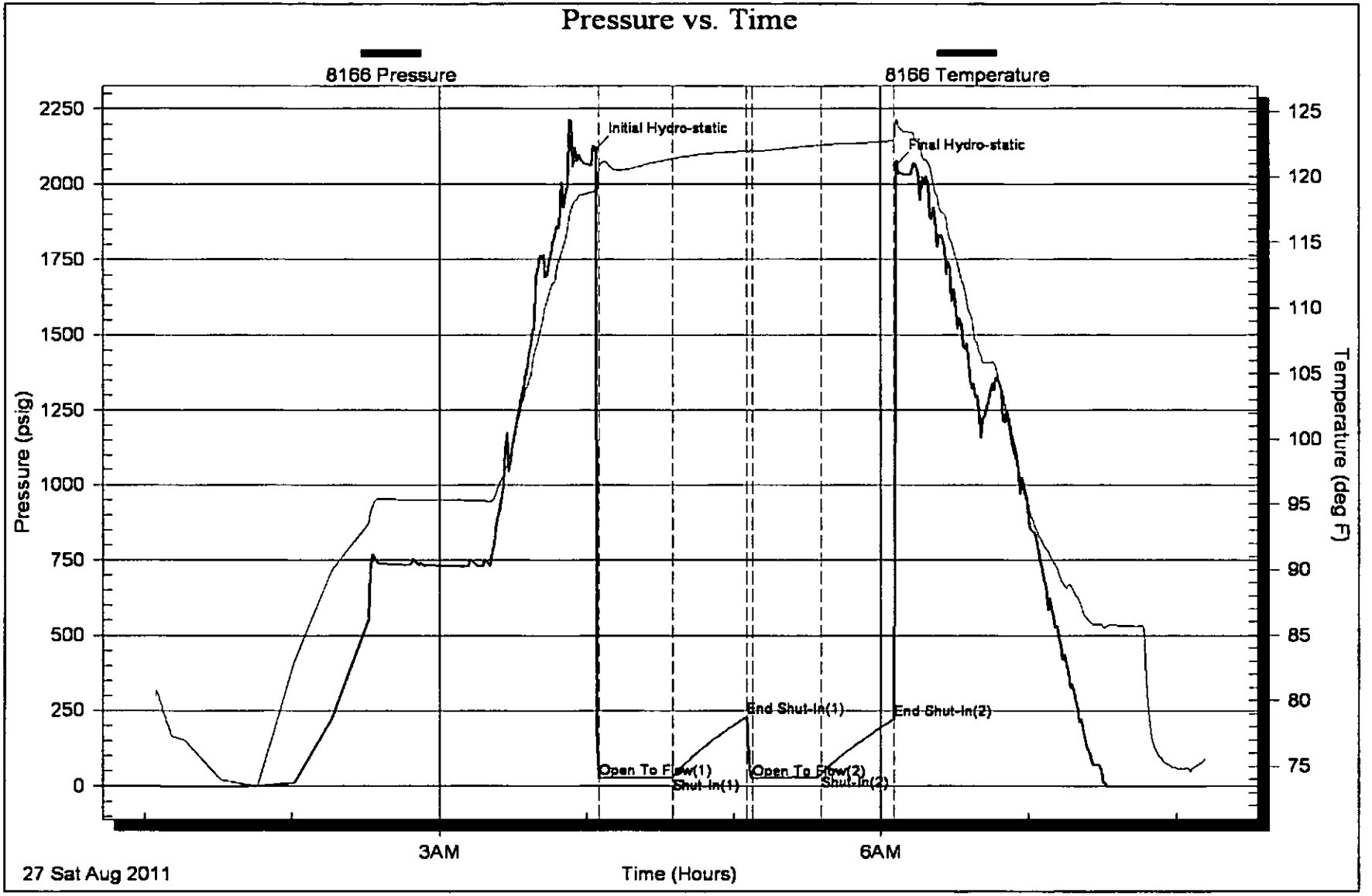
## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 0.00 | 992' GIP | 0.000 |
| 60.00 | MUDD 100% | 0.295 |

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8166 Pressure
8166 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
3AM
6AM
27 Sat Aug 2011
Time (Hours)

# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

AUG 29 2011

BY:

## Test Ticket

NO. 042548 16279

Well Name & No. Kohman #12 Test No. 1 Date 8-25-11

Company Bramwell Petroleum INC Elevation 1525 KB 1515 GL

Address 15183 SW 25th Ave Spivey KS 67142

Co. Rep / Geo. Doug Bramwell Rig Hardt DRlg #1

Location: Sec. 7 Twp. 30 S Rge. 7 W Co. Kingman State KS

Interval Tested 3775- 3855 Zone Tested Hertha / Swope

Anchor Length 80' Drill Pipe Run 3720 Mud Wt. 9.2

Top Packer Depth 3770 Drill Collars Run 119 Vis 43

Bottom Packer Depth 3775 Wt. Pipe Run 0 WL 10.4

Total Depth 3855 Chlorides 3500 ppm System LCM 0

Blow Description IF: STRONG blow BOB 8 MIN

ISI: NO blow back

FF:

FSI:

| | | | | | | |
|---|---|---|---|---|---|---|
| Rec | Feet of 588' GIP | %gas | %oil | %water | %mud | |
| Rec 402' | Feet of O, M | %gas | 5 %oil | %water 95 | %mud | |
| Rec 186' | Feet of ~~000~~, O, M, W | %gas | 5 %oil | 75 %water | 20 %mud | |
| Rec | Feet of | %gas | %oil | %water | %mud | |
| Rec | Feet of | %gas | %oil | %water | %mud | |

Rec Total 588 BHT 118 Gravity ____ API RW .089@ 76 °F Chlorides 90,000 ppm

| | | | |
|---|---|---|---|
| (A) Initial Hydrostatic 1816 | ☑ Test 1125- | T-On Location ~~0~~ 17:00 | |
| (B) First Initial Flow 38 | ☑ Jars 250- | T-Started 18:46 | |
| (C) First Final Flow 165 | ☑ Safety Joint 75- | T-Open 20:50 | |
| (D) Initial Shut-In 1195 | ☐ Circ Sub | T-Pulled 23:00 | |
| (E) Second Initial Flow 178 | ☐ Hourly Standby | T-Out 1:00 | |
| (F) Second Final Flow 238 | ☑ Mileage 110 Miles 154- | Comments | |
| (G) Final Shut-In 1185 | ☐ Sampler | | |
| (H) Final Hydrostatic 1830 | ☐ Straddle | ☐ Ruined Shale Packer | |
| | ☐ Shale Packer | ☐ Ruined Packer | |
| Initial Open 30 | ☐ Extra Packer | ☐ Extra Copies | |
| Initial Shut-In 30 | ☐ Extra Recorder | Sub Total Ø | |
| Final Flow 30 | ☐ Day Standby | Total 1604- | |
| Final Shut-In 30 | ☐ Accessibility | MP/DST Disc't | |
| | Sub Total 1604- | | |

Approved By Del Bramwell Our Representative Chris Staab

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.

# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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RECEIVED
SEP 08 2011
BY:

# Test Ticket

NO. 042549

Well Name & No. Kohman #12 Test No. 2 Date 8-27-11

Company Bramwell PeTRoLeum INC Elevation 1525 KB 1515 GL

Address 15183 SW 25th AVE Spivey KS 67142

Co. Rep / Geo. Dougbramwell Rig HardT DRLg #1

Location: Sec. 7 Twp. 30S Rge. 7W Co. Kingman State KS

Interval Tested 4150 4300 Zone Tested Mississippi

Anchor Length 150' Drill Pipe Run ~~4053~~ 4021 Mud Wt. 9.1

Top Packer Depth 4145 Drill Collars Run 119 Vis 52

Bottom Packer Depth 4150 Wt. Pipe Run 0 WL 14.0

Total Depth 4300 Chlorides 11,000 ppm System LCM 0

Blow Description IF: STRONG blow BOB 30sec

ISI: NO blow back

FF: STRONG blow BOB 2sec

FSI: NO blow back

| | | | | | |
|---|---|---|---|---|---|
| Rec | Feet of 992' GIP | %gas | %oil | %water | %mud |
| Rec 60' | Feet of MUDD | %gas | %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 Total 60' BHT 122 Gravity — API RW — @ — F Chlorides 16,000 ppm

| | | | |
|---|---|---|---|
| (A) Initial Hydrostatic 2115 | ☑ Test 1225- | T-On Location 00:15 |
| (B) First Initial Flow 25 | ☑ Jars 250- | T-Started 1:04 |
| (C) First Final Flow 30 | ☑ Safety Joint 75- | T-Open 4:04 |
| (D) Initial Shut-In 230 | ☐ Circ Sub | T-Pulled 6:15 |
| (E) Second Initial Flow 25 | ☐ Hourly Standby | T-Out 8:10 |
| (F) Second Final Flow 41 | ☑ Mileage 110 miles 154- | Comments |
| (G) Final Shut-In 222 | ☐ Sampler | |
| (H) Final Hydrostatic 2061 | ☐ Straddle | ☐ Ruined Shale Packer |
| | ☐ Shale Packer | ☐ Ruined Packer |
| Initial Open 30 | ☐ Extra Packer | ☐ Extra Copies |
| Initial Shut-In 30 | ☐ Extra Recorder | Sub Total 0 |
| Final Flow 30 | ☐ Day Standby | Total 1704- |
| Final Shut-In 30 | ☐ Accessibility | MP/DST Disc't |
| | Sub Total 1704- | |

Approved By Doug Bramwell Our Representative Chris Staab

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