

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# **Geological Report**

## **Bemis #1-29**

1868' FNL & 788' FEL

Sec. 29 T13s R19w

Ellis County, Kansas



**Flatland Resources Corporation**

## General Data

Well Data: Flatland Resources Corporation  
Bemis #1-29  
1868' FNL & 788' FEL  
Sec. 29 T13s R19w  
Ellis County, Kansas  
API # 15-051-26820-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: January 31, 2016

Completion Date: February 8, 2016

Elevation: 2154' Ground Level  
2162' Kelly Bushing

Directions: Intersection of Highway 40 and Yocemento Rd,  $\frac{3}{4}$  mi south on Yocemento Rd, West through gate 2 miles along trail to location.

Casing: 219' 8 5/8" surface casing

Samples: 10' wet and dry, 3150' to RTD

Drilling Time: 3100' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"  
CNL/CDL, DIL, MEL

Drillstem Tests: Four, Trilobite Testing, Inc. "Jim Svaty"

Problems: None

Remarks: Rig shut down for a day due to snow storm

## Formation Tops

Formation	Flatland Resources Corp Bemis #1-29 Sec. 29 T13s R19w 1868' FNL & 788' FEL
Anhydrite	1485', +677
Base	1528', +634
Topeka	3208', -1046
Heebner	3444', -1284
Toronto	3467', -1305
Lansing	3489', -1327
BKC	3739', -1577
Marmaton	3785', -1623
Arbuckle	3837', -1675
LTD	3913', -1751
RTD	3920', -1758

## Sample Zone Descriptions

- Toronto (3467', -1305): Covered in DST #1**  
 Ls – Fine crystalline with poor inter-crystalline and scattered vuggy porosity, light oil stain in porosity, slight show of free oil when broken, no odor, very light yellow fluorescents.
- LKC “C” zone (3518', -1356): Covered in DST #1**  
 Ls – Fine crystalline, oolitic with poor to fair oomoldic and scattered poor inter-crystalline porosity, light to fair spotted oil stain, slight show of free oil, light odor, light yellow fluorescents.
- LKC “F” zone (3575', -1413): Covered in DST #2**  
 Ls – Fine to sub-crystalline with poor to fair vuggy and inter-crystalline porosity, light oil stain in porosity, fair show of free oil, light odor, dull to fair yellow fluorescents.
- LKC “H” zone (3623', -1461): Covered in DST #3**  
 Ls – Fine to sub-crystalline, oolitic with poor oomoldic and oolitic porosity, light to fair oil stain and saturation, slight show of free oil when broken, light odor, fair yellow fluorescents.

**LKC "I" zone**

**(3647', -1485): Covered in DST #3**

Ls – Fine to sub-crystalline, oolitic with poor to fair oomoldic and oolitic porosity, light brown oil stain in porosity, slight show of free oil when broken, light odor.

**Arbuckle**

**(3837', -1675): Covered in DST #4**

Dolo – Fine to medium rhombic crystalline with poor to fair inter-crystalline and vuggy porosity, light to heavy oil stain with scattered fair saturation, fair show of free oil, good odor.

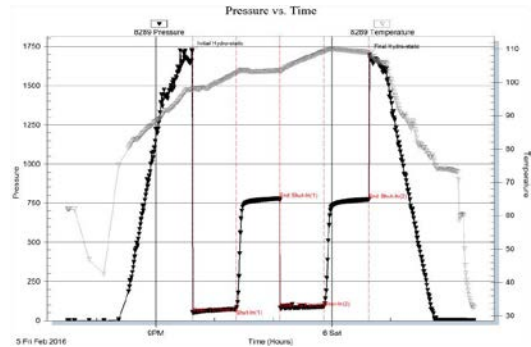
**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Jim Svaty"

**DST #1 Toronto thru LKC "C"**

Interval (3446' – 3535') Anchor Length 89'

- IHP – 1718 #
- IFP – 45" – Built to 2 in. 51-74 #
- ISI – 45" – Dead 779 #
- FFP – 45" – W.S.B. 80-89 #
- FSI – 45" – Dead 772 #
- FHP – 1697 #
- BHT – 109°F

Recovery: 95' Oil Spotted Mud

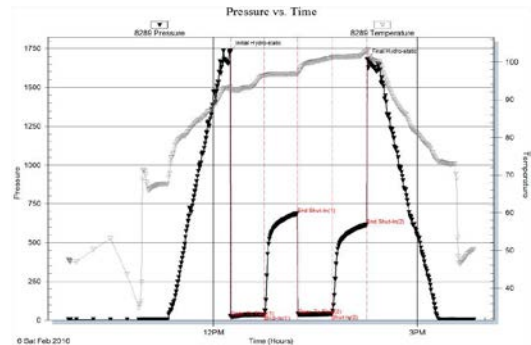


**DST #2 LKC "D-F"**

Interval (3533' – 3585') Anchor Length 52'

- IHP – 1734 #
- IFP – 30" – Built to 2 3/4 in. 24-34 #
- ISI – 30" – Dead 685 #
- FFP – 30" – W.S.B. 37-41 #
- FSI – 30" – Dead 615 #
- FHP – 1682 #
- BHT – 103°F

Recovery: 57' WCM w/ Oil Spots 30% Water

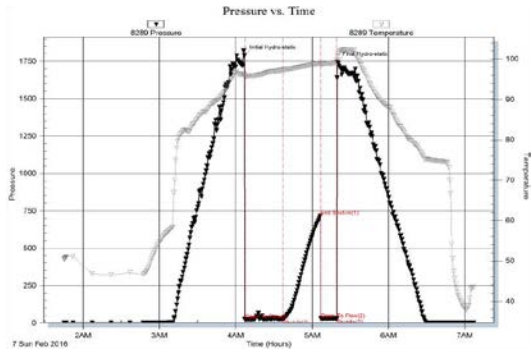


**DST #3 LKC "H-K"**

Interval (3608' – 3700') Anchor Length 92'

- IHP – 1791 #
- IFP – 30" – Built to 1 ½ in. 23-26 #
- ISI – 30" – Dead 716 #
- FFP – 10" – Dead 28-29 #
- FHP – 1745 #
- BHT – 100°F

Recovery: 10' Oil Spotted Mud

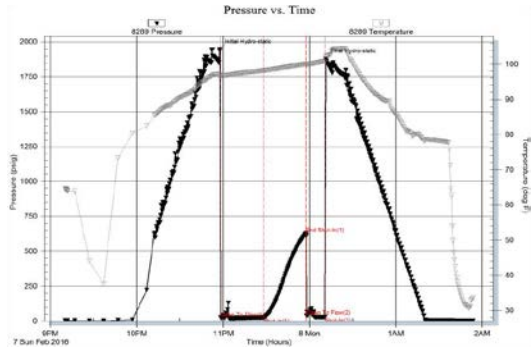


**DST #4 Arbuckle**

Interval (3798' – 3853') Anchor Length 55'

- IHP – 1944 #
- IFP – 30" – Built to ¼ in. 24-24 #
- ISI – 30" – Dead 628 #
- FFP – 10" – Dead 38-28 #
- FHP – 1878 #
- BHT – 101°F

Recovery: 5' OCM 15% Oil



**Structural Comparison**

	Flatland Resources Corp Bemis #1-29 Sec. 29 T13s R19w 1868' FNL & 788' FEL	Yost Oil Operations, Inc. Bemis #1 Sec. 28 T13s R19w 990' FNL & 990' FWL		Rains & Williamson Bemis #1 Sec. 20 T13s R19w N2 S2 SE	
<b>Formation</b>					
Anhydrite	1485', +677	1513', +679	(-2)	1416', +681	(-4)
Base	1528', +634	1555', +637	(-3)	1459', +638	(-4)
Topeka	3208', -1046	3237', -1045	(-1)	NA	NA
Heebner	3444', -1284	3480', -1288	(+4)	3373', -1276	(-8)
Toronto	3467', -1305	3505', -1313	(+8)	3396', -1299	(-6)
Lansing	3489', -1327	3526', -1334	(+7)	3418', -1321	(-6)
BKC	3739', -1577	3776', -1584	(+7)	3664', -1567	(-10)
Marmaton	3785', -1623	3808', -1616	(+7)	3719', -1622	(-1)
Arbuckle	3837', -1675	Not Reached	NR	3773', -1676	(+1)



## **Summary**

The location for the Bemis #1-29 was found via 3-D seismic survey. The new well ran slightly lower structurally than expected via the survey. Four Drill Stem Tests were conducted, all of which were negative. After all gathered data had been examined the decision was made to plug and abandon the Bemis #1-29 well.

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



## DRILL STEM TEST REPORT

Prepared For: **Flatland Resources Corp.**

PO Box 763  
Hays KS 67601

ATTN: Jason T Alm

### **Bemis #1-29**

#### **29 13s 19w Ellis,KS**

Start Date: 2016.02.05 @ 19:30:00

End Date: 2016.02.06 @ 02:25:00

Job Ticket #: 64757                      DST #: 1

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

Printed: 2016.02.09 @ 08:53:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64757

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.02.05 @ 19:30:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC " C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:37:30

Time Test Ended: 02:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 3446.00 ft (KB) To 3535.00 ft (KB) (TVD)**

Reference Elevations: 2162.00 ft (KB)

Total Depth: 3535.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 89.37 psig @ 3449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.05

End Date:

2016.02.06

Last Calib.:

2016.02.06

Start Time: 19:30:02

End Time:

02:25:00

Time On Btm:

2016.02.05 @ 21:37:00

Time Off Btm:

2016.02.06 @ 00:38:00

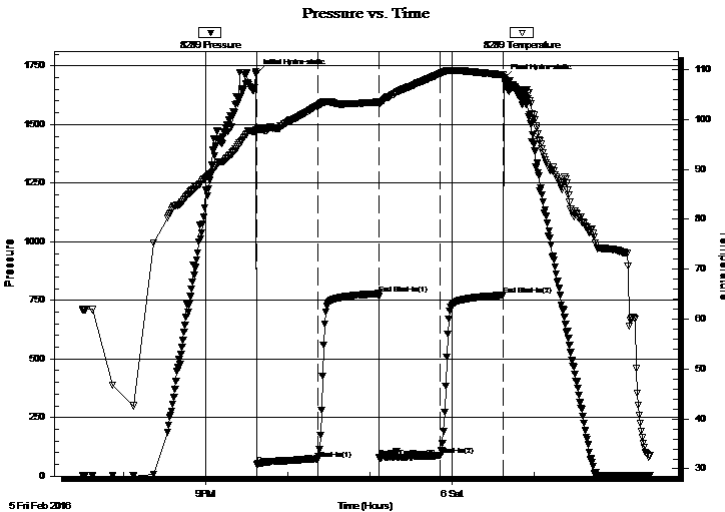
TEST COMMENT: 45-IF- Surface Blow Building to 2". In 15 min.

45-ISI- No Blow

45-FF- Weak Surface Blow

45-FSI- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.42	97.86	Initial Hydro-static
1	51.80	97.61	Open To Flow (1)
45	73.56	102.74	Shut-In(1)
90	778.89	103.52	End Shut-In(1)
90	80.56	103.26	Open To Flow (2)
135	89.37	109.27	Shut-In(2)
181	772.42	108.94	End Shut-In(2)
181	1697.14	108.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	Oil Speck Mud 100%	1.05

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64757

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.02.05 @ 19:30:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC " C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:37:30

Time Test Ended: 02:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: **3446.00 ft (KB) To 3535.00 ft (KB) (TVD)**

Total Depth: 3535.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2162.00 ft (KB)

2154.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8789** Inside

Press@RunDepth: psig @ 3449.00 ft (KB)

Start Date: 2016.02.05

End Date:

2016.02.06

Start Time: 19:30:02

End Time:

02:24:45

Capacity: 8000.00 psig

Last Calib.: 2016.02.06

Time On Btm:

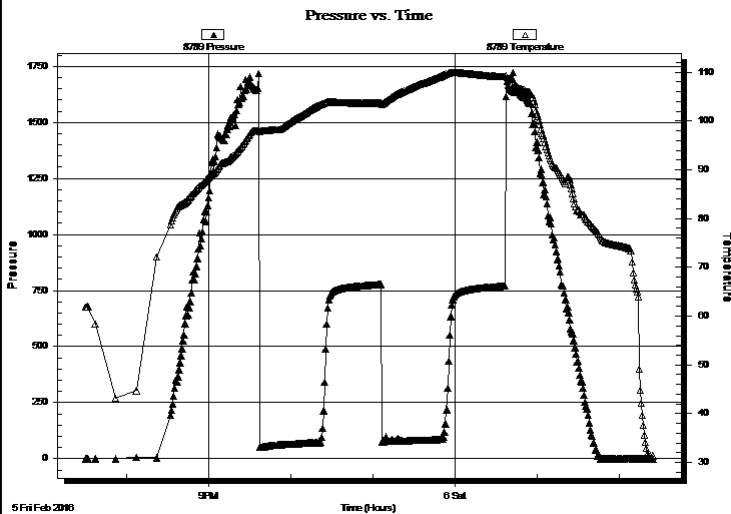
Time Off Btm:

TEST COMMENT: 45-IF- Surface Blow Building to 2". In 15 min.

45-ISI- No Blow

45-FF- Weak Surface Blow

45-FSI- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	Oil Speck Mud 100%	1.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64757

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.02.05 @ 19:30:00

## Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3446.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	110.00 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			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	5.00			3441.00	21.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Perforations	1.00			3448.00	
Change Over Sub	1.00			3449.00	
Recorder	0.00	8789	Inside	3449.00	
Recorder	0.00	8289	Outside	3449.00	
Blank Spacing	63.00			3512.00	
Change Over Sub	1.00			3513.00	
Perforations	19.00			3532.00	
Bullnose	3.00			3535.00	89.00 Bottom Packers & Anchor

**Total Tool Length: 110.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64757

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.02.05 @ 19:30:00

## 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:

bbbl

Water Loss: 8.73 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	Oil Speck Mud 100%	1.050

Total Length: 95.00 ft      Total Volume: 1.050 bbl

Num Fluid Samples: 0

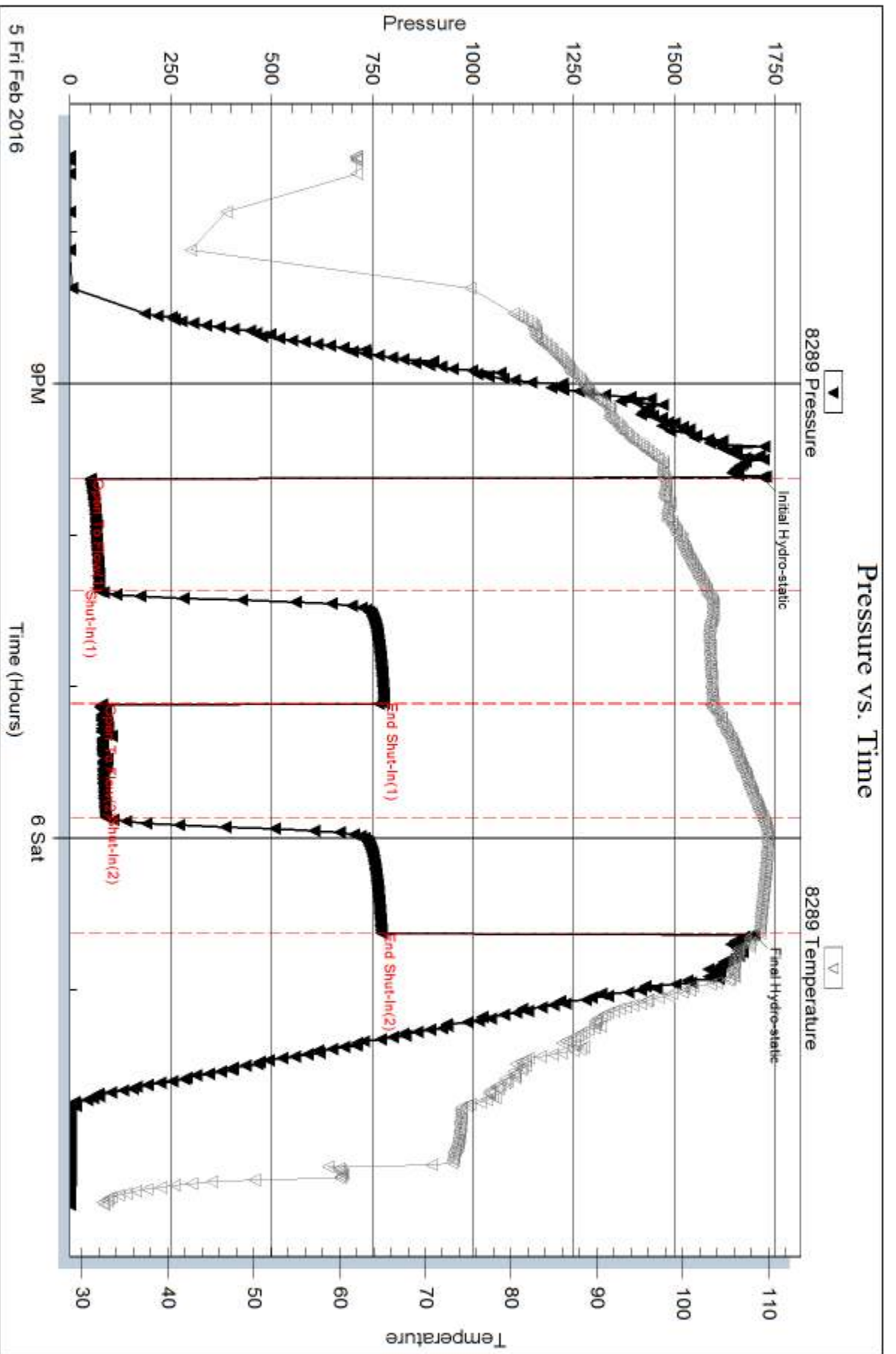
Num Gas Bombs: 0

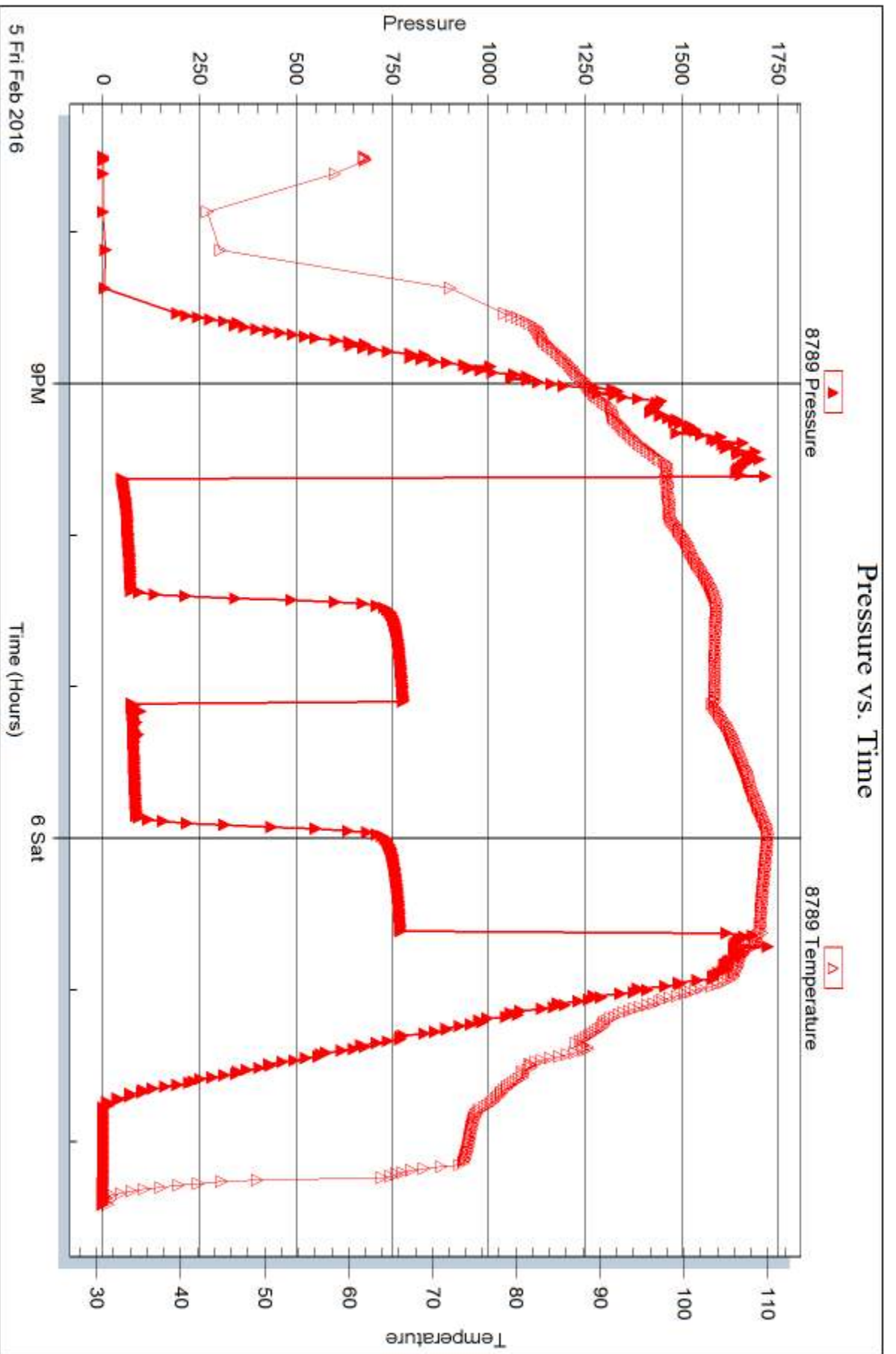
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Flatland Resources Corp.**

PO Box 763  
Hays KS 67601

ATTN: Jason T Alm

### **Bemis #1-29**

#### **29 13s 19w Ellis,KS**

Start Date: 2016.02.06 @ 09:52:00

End Date: 2016.02.06 @ 15:50:00

Job Ticket #: 64758                      DST #: 2

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

Printed: 2016.02.09 @ 08:52:59



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64758

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.02.06 @ 09:52:00

## GENERAL INFORMATION:

Formation: **LKC " D - F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:00

Time Test Ended: 15:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3533.00 ft (KB) To 3585.00 ft (KB) (TVD)**

Reference Elevations: 2162.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 40.53 psig @ 3550.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.06

End Date:

2016.02.06

Last Calib.:

2016.02.06

Start Time: 09:52:02

End Time:

15:49:45

Time On Btm:

2016.02.06 @ 12:14:45

Time Off Btm:

2016.02.06 @ 14:15:45

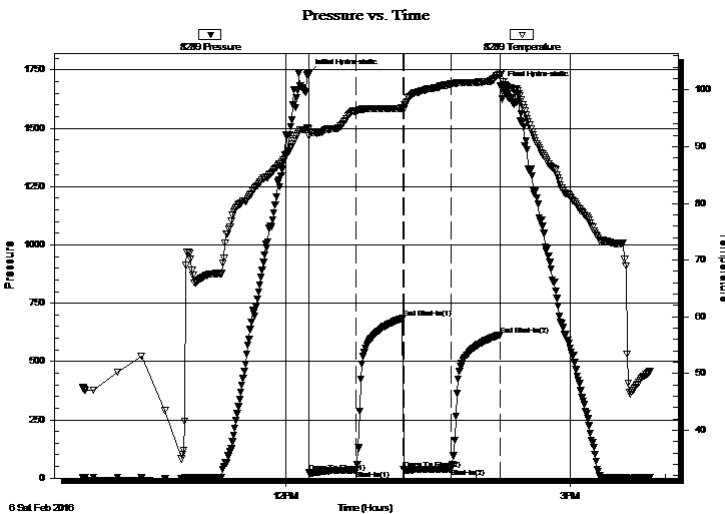
TEST COMMENT: 30-IF- Surface Blow Building to 2 3/4"

30-ISI- No Blow

30-FF- Weak Surface Blow

30-FSI- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.65	93.12	Initial Hydro-static
1	24.30	91.99	Open To Flow (1)
30	34.49	96.28	Shut-In(1)
60	685.44	96.81	End Shut-In(1)
60	37.73	96.52	Open To Flow (2)
90	40.53	101.13	Shut-In(2)
121	614.79	102.64	End Shut-In(2)
121	1681.64	102.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
57.00	Oil Speck WCM 30%w 70%m	0.52

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64758

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.02.06 @ 09:52:00

## Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3533.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	73.00 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			3513.00	
Shut In Tool	5.00			3518.00	
Hydraulic tool	5.00			3523.00	
Packer	5.00			3528.00	21.00 Bottom Of Top Packer
Packer	5.00			3533.00	
Stubb	1.00			3534.00	
Perforations	15.00			3549.00	
Change Over Sub	1.00			3550.00	
Recorder	0.00	8789	Inside	3550.00	
Recorder	0.00	8289	Outside	3550.00	
Blank Spacing	31.00			3581.00	
Change Over Sub	1.00			3582.00	
Bullnose	3.00			3585.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64758

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.02.06 @ 09:52:00

## 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:

28000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.74 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
57.00	Oil Speck WCM 30%w 70%m	0.517

Total Length: 57.00 ft      Total Volume: 0.517 bbf

Num Fluid Samples: 0

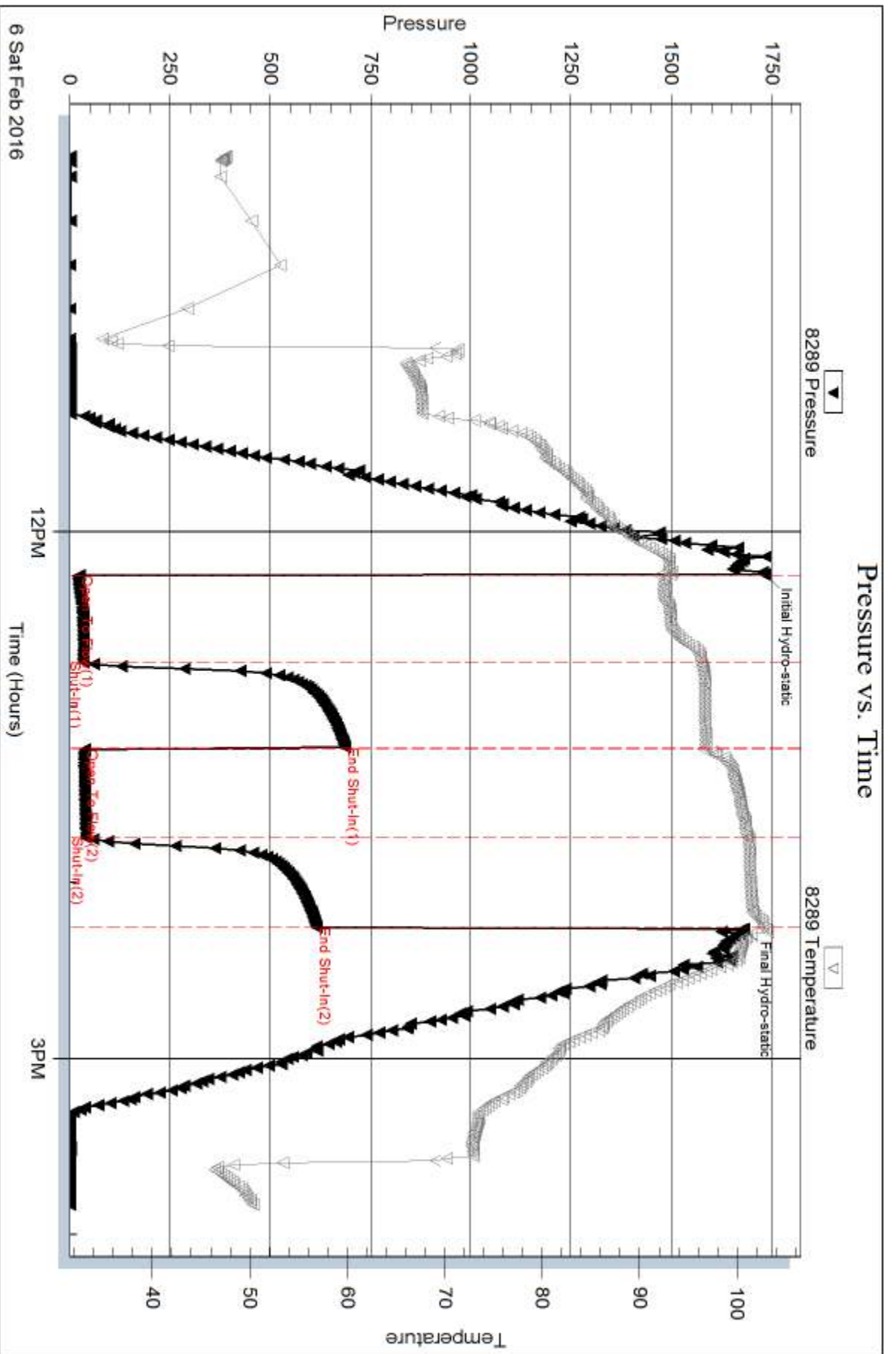
Num Gas Bombs: 0

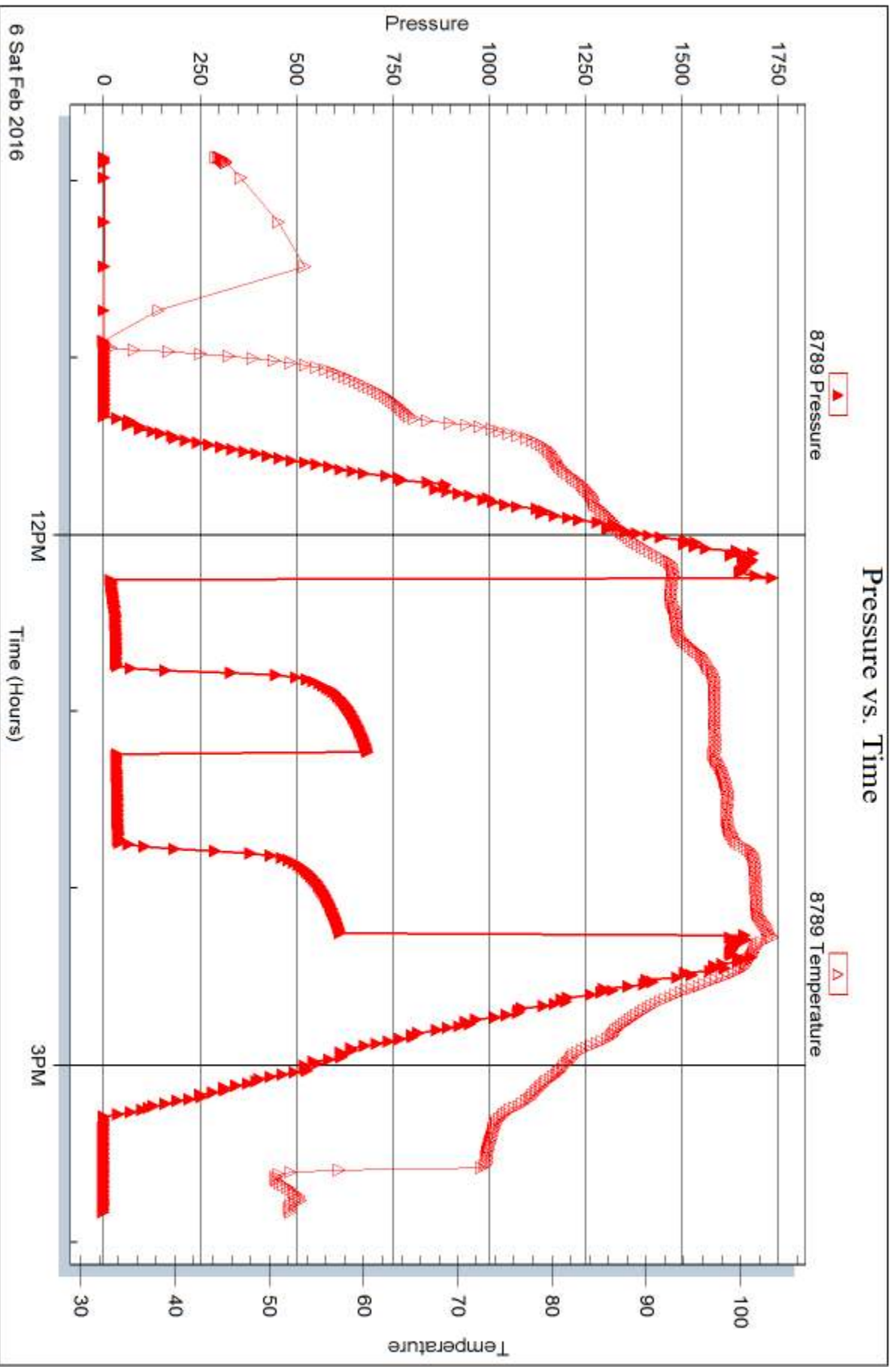
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .360 @ 48







## DRILL STEM TEST REPORT

Prepared For: **Flatland Resources Corp.**

PO Box 763  
Hays KS 67601

ATTN: Jason T Alm

### **Bemis #1-29**

#### **29 13s 19w Ellis,KS**

Start Date: 2016.02.07 @ 01:45:00

End Date: 2016.02.07 @ 07:07:00

Job Ticket #: 64759                      DST #: 3

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

Printed: 2016.02.09 @ 08:52:18





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64759

**DST#: 3**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 01:45:00

## GENERAL INFORMATION:

Formation: **LKC "H - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:45

Time Test Ended: 07:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3608.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Reference Elevations: 2162.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 26.18 psig @ 3612.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.07 End Date: 2016.02.07

Last Calib.: 2016.02.07

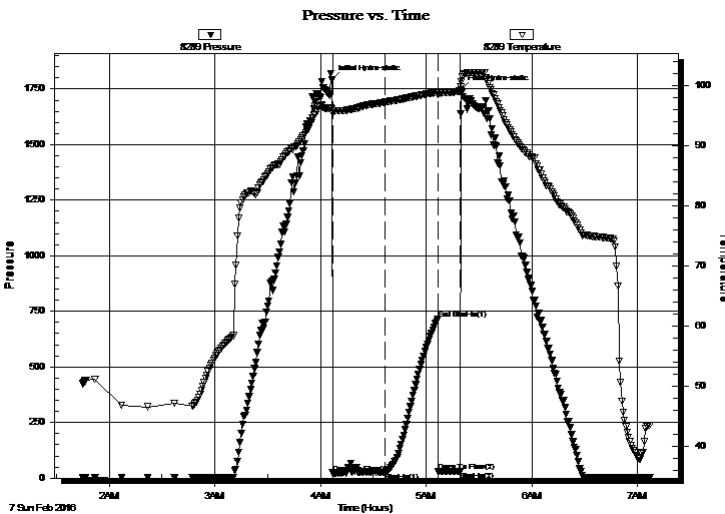
Start Time: 01:45:02 End Time: 07:07:00

Time On Btm: 2016.02.07 @ 04:06:30

Time Off Btm: 2016.02.07 @ 05:19:45

**TEST COMMENT:** 30-IF- Surface Blow Building to 1 1/2" In 20 min.  
30-ISI- No Blow  
10-FF- Good Surge on Open ---- No Blow  
Pulled

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.53	96.14	Initial Hydro-static
1	23.27	95.45	Open To Flow (1)
31	26.18	97.26	Shut-In(1)
60	715.59	98.93	End Shut-In(1)
61	28.56	98.51	Open To Flow (2)
73	28.60	99.09	Shut-In(2)
74	1745.48	100.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil Speck Mud 100%	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64759

**DST#: 3**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 01:45:00

## GENERAL INFORMATION:

Formation: **LKC " H - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:45

Time Test Ended: 07:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3608.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Reference Elevations: 2162.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8789** Inside

Press@RunDepth: psig @ 3612.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.07 End Date: 2016.02.07

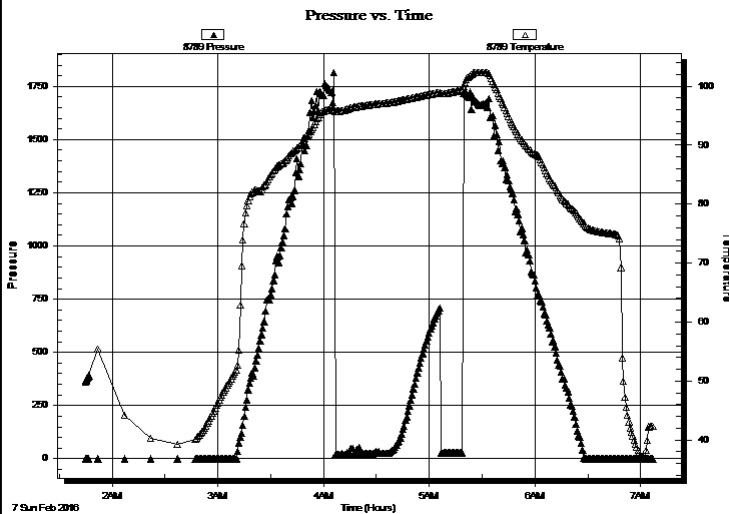
Last Calib.: 2016.02.07

Start Time: 01:45:02 End Time: 07:07:00

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IF- Surface Blow Building to 1 1/2" In 20 min.  
30-ISI- No Blow  
10-FF- Good Surge on Open ---- No Blow  
Pulled



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil Speck Mud 100%	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64759

**DST#: 3**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 01:45:00

## Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: 50.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3608.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	113.00 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			3588.00	
Shut In Tool	5.00			3593.00	
Hydraulic tool	5.00			3598.00	
Packer	5.00			3603.00	21.00 Bottom Of Top Packer
Packer	5.00			3608.00	
Stubb	1.00			3609.00	
Perforations	3.00			3612.00	
Recorder	0.00	8789	Inside	3612.00	
Recorder	0.00	8289	Outside	3612.00	
Perforations	20.00			3632.00	
Change Over Sub	1.00			3633.00	
Blank Spacing	63.00			3696.00	
Change Over Sub	1.00			3697.00	
Bullnose	3.00			3700.00	92.00 Bottom Packers & Anchor

**Total Tool Length: 113.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64759

**DST#: 3**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 01:45:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Oil Speck Mud 100%	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

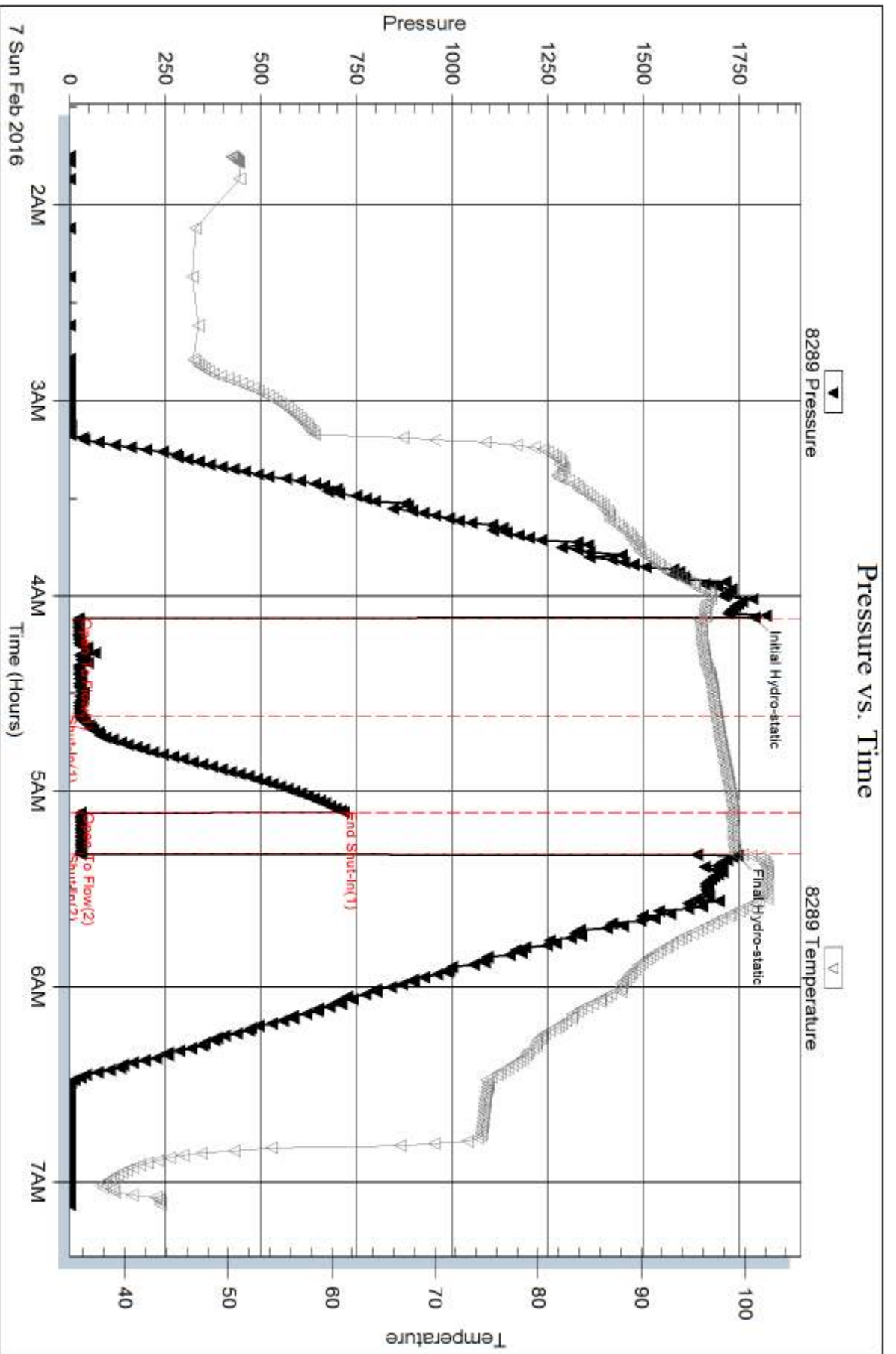
Num Gas Bombs: 0

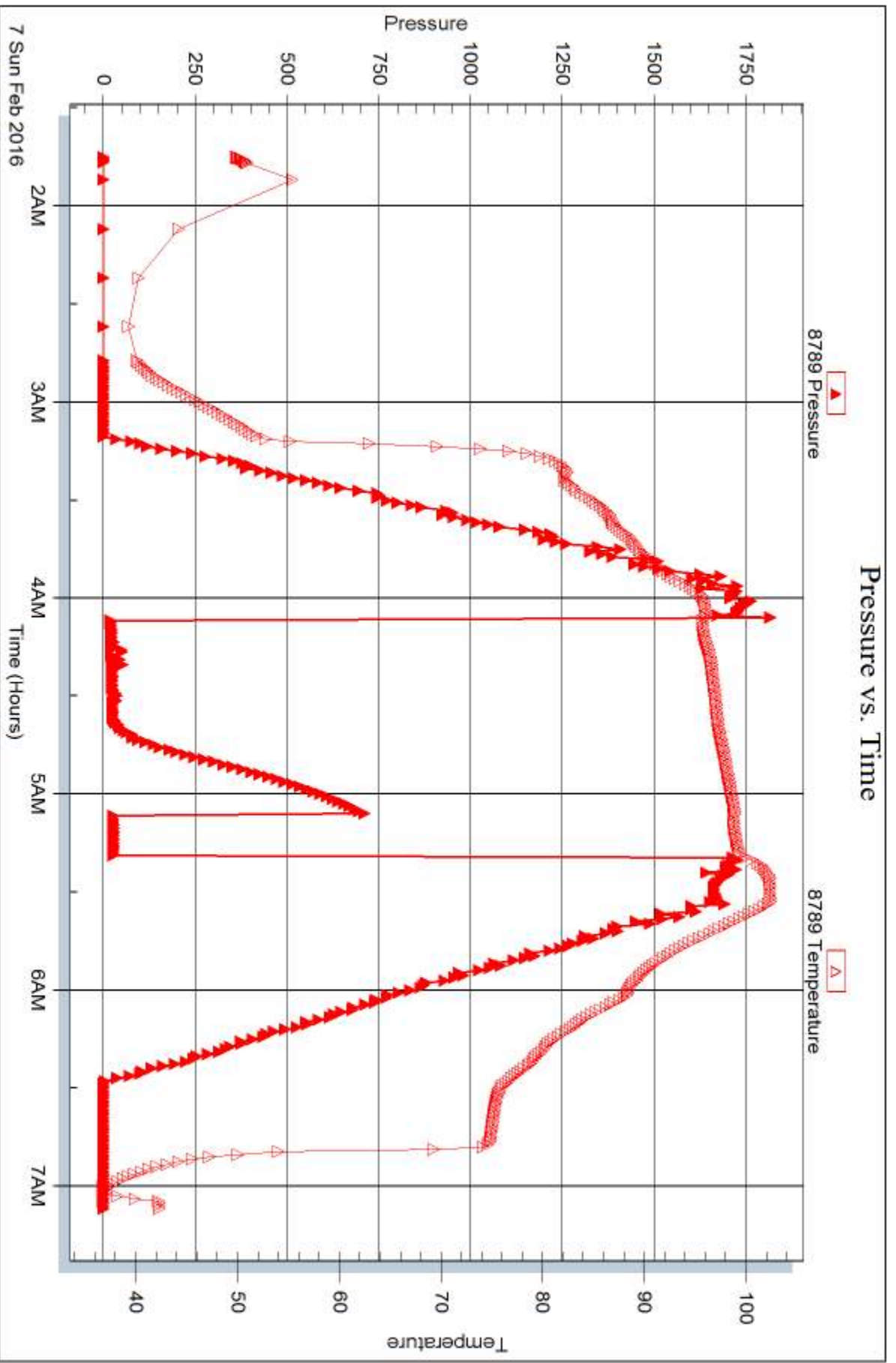
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Flatland Resources Corp.**

PO Box 763  
Hays KS 67601

ATTN: Jason T Alm

### **Bemis #1-29**

#### **29 13s 19w Ellis,KS**

Start Date: 2016.02.07 @ 21:10:00

End Date: 2016.02.08 @ 01:54:00

Job Ticket #: 64760                      DST #: 4

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

Printed: 2016.02.09 @ 08:51:52



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64760

**DST#: 4**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 21:10:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:45

Time Test Ended: 01:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3798.00 ft (KB) To 3853.00 ft (KB) (TVD)**

Reference Elevations: 2162.00 ft (KB)

Total Depth: 3853.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 24.28 psig @ 3802.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.07

End Date:

2016.02.08

Last Calib.:

2016.02.08

Start Time: 21:10:02

End Time:

01:54:00

Time On Btm:

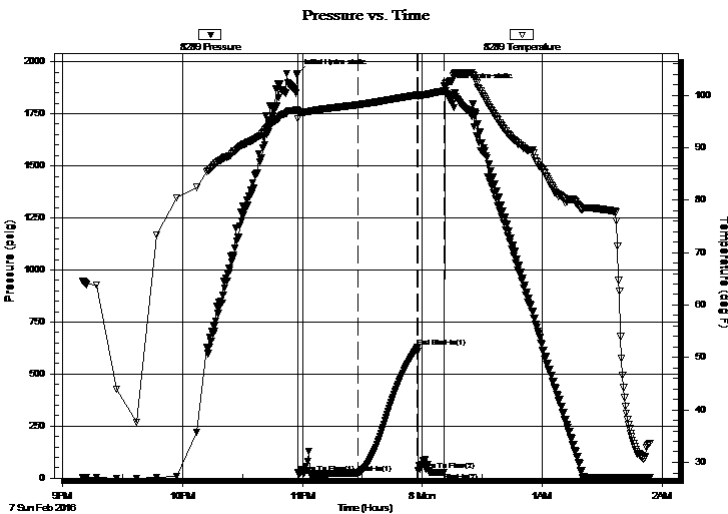
2016.02.07 @ 22:57:30

Time Off Btm:

2016.02.08 @ 00:11:15

**TEST COMMENT:** 30-IF- 1/4" Blow Died in 11 min.  
30-ISI- No Blow  
10-FF- Good Surge on Open ---- No Blow  
Pulled

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.40	96.95	Initial Hydro-static
1	24.60	95.55	Open To Flow (1)
31	24.28	98.15	Shut-In(1)
60	628.12	100.02	End Shut-In(1)
61	38.26	99.82	Open To Flow (2)
74	28.48	100.78	Shut-In(2)
74	1877.76	101.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 15%o 85%m	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Flatland Resources Corp.

**29 13s 19w Ellis, KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64760

**DST#: 4**

ATTN: Jason T Alm

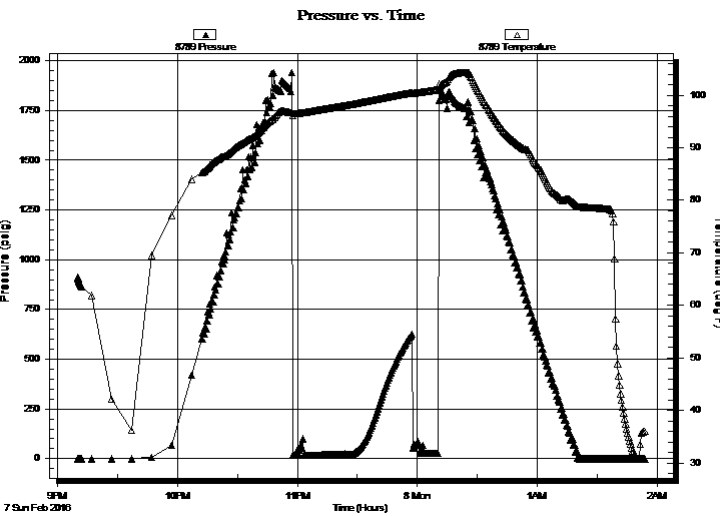
Test Start: 2016.02.07 @ 21:10:00

### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:57:45  
 Time Test Ended: 01:54:00  
 Interval: **3798.00 ft (KB) To 3853.00 ft (KB) (TVD)**  
 Total Depth: 3853.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2162.00 ft (KB)  
 2154.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8789** **Inside**  
 Press@RunDepth: psig @ 3802.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.02.07 End Date: 2016.02.08 Last Calib.: 2016.02.08  
 Start Time: 21:10:02 End Time: 01:53:45 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IF- 1/4" Blow Died in 11 min.  
 30-ISI- No Blow  
 10-FF- Good Surge on Open ---- No Blow  
 Pulled



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 15% @ 85% m	0.02

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64760

**DST#: 4**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 21:10:00

## Tool Information

Drill Pipe:	Length: 3774.00 ft	Diameter: 3.80 inches	Volume: 52.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3798.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	76.00 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			3778.00	
Shut In Tool	5.00			3783.00	
Hydraulic tool	5.00			3788.00	
Packer	5.00			3793.00	21.00 Bottom Of Top Packer
Packer	5.00			3798.00	
Stubb	1.00			3799.00	
Perforations	3.00			3802.00	
Recorder	0.00	8789	Inside	3802.00	
Recorder	0.00	8289	Outside	3802.00	
Perforations	15.00			3817.00	
Change Over Sub	1.00			3818.00	
Blank Spacing	31.00			3849.00	
Change Over Sub	1.00			3850.00	
Bullnose	3.00			3853.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Flatland Resources Corp.

**29 13s 19w Ellis,KS**

PO Box 763  
Hays KS 67601

**Bemis #1-29**

Job Ticket: 64760

**DST#: 4**

ATTN: Jason T Alm

Test Start: 2016.02.07 @ 21:10:00

### 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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 15%o 85%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

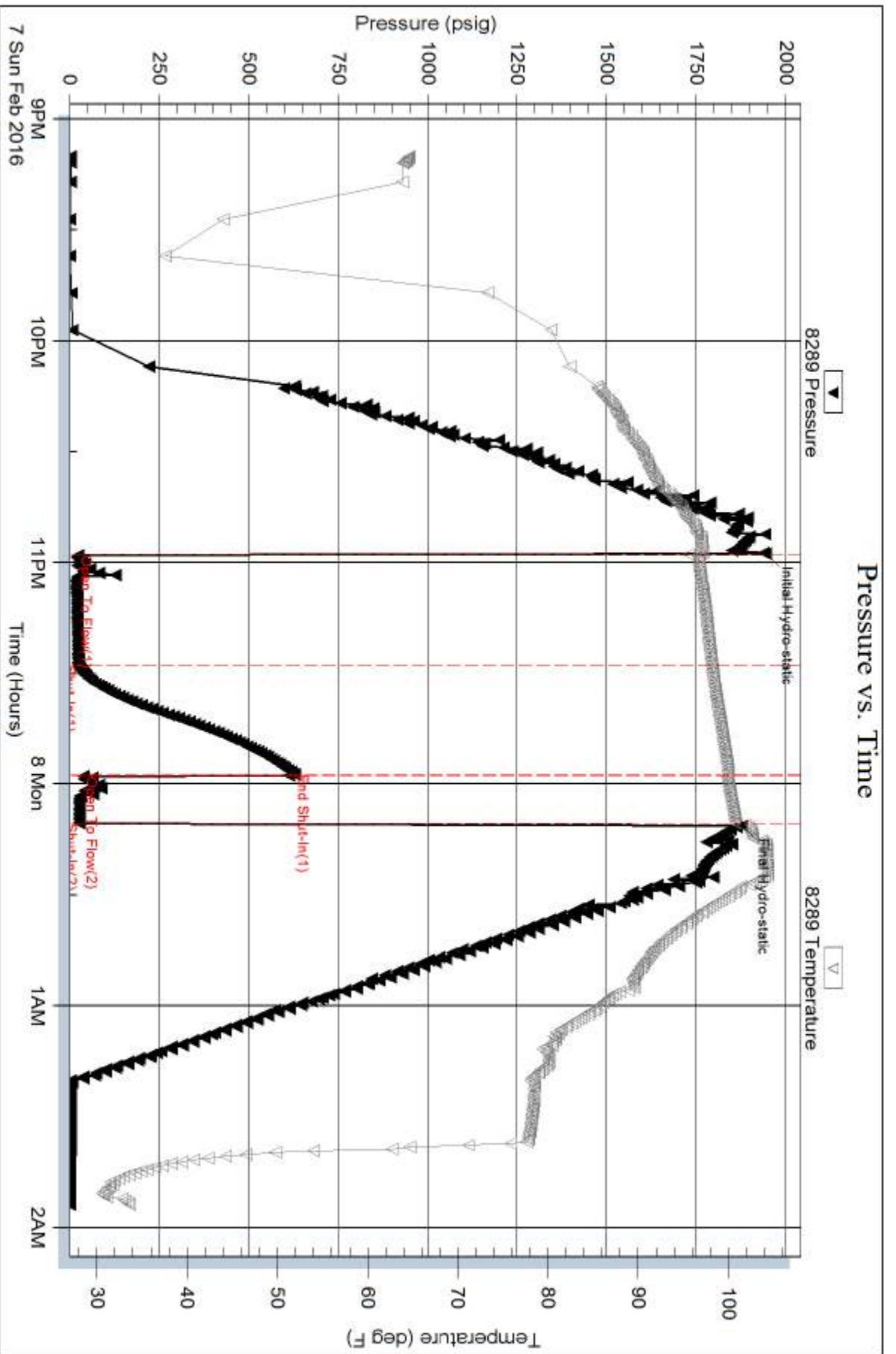
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



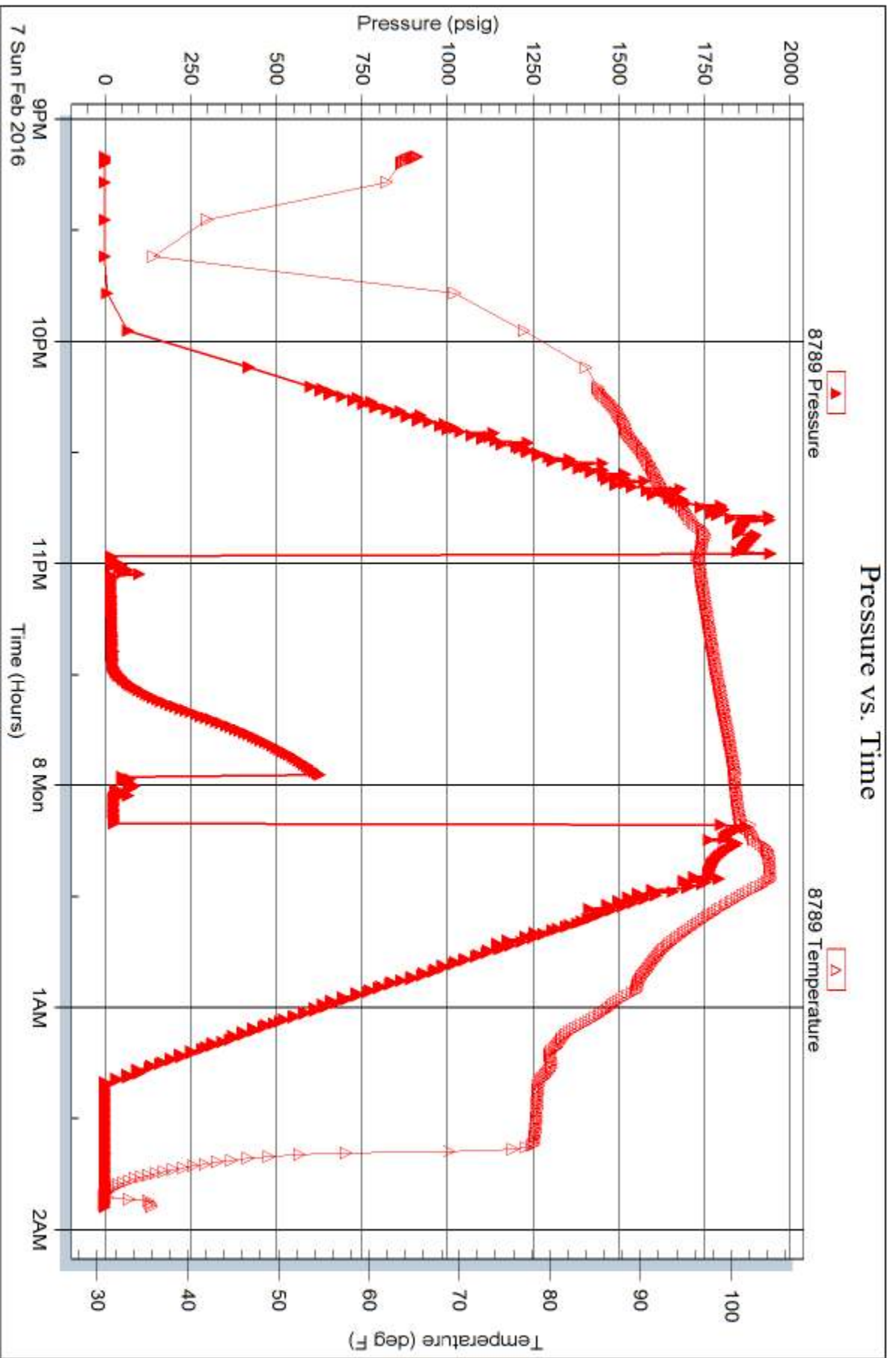
Serial #: 8789

Inside

Flatland Resources Corp.

Bennis #1-29

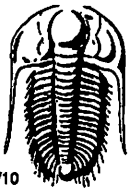
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64760

Printed: 2016.02.09 @ 08:51:54



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64757

Well Name & No. Bemis #1-29 Test No. 1 Date 2-5-16  
 Company FLATLAND Resources Corporation Elevation 2162 KB 2155 GL  
 Address P.O. Box 763 Hays KS 67601  
 Co. Rep / Geo. JASON T. ALM Rig Discovery #3  
 Location: Sec. 29 Twp. 13<sup>S</sup> Rge. 19<sup>W</sup> Co. Ellis State KS

Interval Tested 3446 - 3535 Zone Tested Toronto - LKC "C"  
 Anchor Length 89 Drill Pipe Run 3425 Mud Wt. 9.0  
 Top Packer Depth 3441 Drill Collars Run 31 Vis 51  
 Bottom Packer Depth 3446 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3535 Chlorides 4000 ppm System LCM 1

Blow Description IF - Surface Blow Building to 2 in. In 15 min.  
ISI - No Blow  
FF - Weak Surface Blow  
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>Oil Speck Mud</u>			<u>100</u>	
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
Rec Total	<u>95</u>				

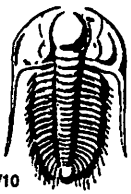
BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1718  Test 1050 T-On Location 17:40  
 (B) First Initial Flow 51  Jars \_\_\_\_\_ T-Started 19:30  
 (C) First Final Flow 73  Safety Joint \_\_\_\_\_ T-Open 21:37  
 (D) Initial Shut-In 778  Circ Sub \_\_\_\_\_ T-Pulled 00:37  
 (E) Second Initial Flow 80  Hourly Standby \_\_\_\_\_ T-Out 02:25  
 (F) Second Final Flow 89  Mileage 29 29 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 772  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1697  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  
 Final Shut-In 45  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1079

Sub Total 1079 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64758

Well Name & No. Bemis #1-29 Test No. 2 Date 2-6-16  
 Company Flatland Resources Corporation Elevation 2162 KB 2154 GL  
 Address P.O. Box 763 HAYS KS 67601  
 Co. Rep / Geo. JASON T. ATM Rig Discovery #3  
 Location: Sec. 29 Twp. 13S Rge. 19W Co. Ellis State KS

Interval Tested 3533-3585 Zone Tested LKC "D-F"  
 Anchor Length 52 Drill Pipe Run 3488 Mud Wt. 9  
 Top Packer Depth 3528 Drill Collars Run 31 Vis 50  
 Bottom Packer Depth 3533 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3585 Chlorides 6000 ppm System LCM 1  
 Blow Description IF - Surface Blow Building to 2 3/4 in.  
ISI - No Blow  
FF - Weak Surface Blow  
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>57</u>	<u>Oil Speck WCM</u>		<u>30</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

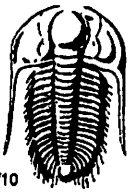
Rec Total 57 BHT 103 Gravity \_\_\_\_\_ API RW 360 @ 48 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic <u>1734</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>9:51</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>9:52</u>
(C) First Final Flow <u>34</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>12:15</u>
(D) Initial Shut-In <u>685</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:15</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:50</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>29</u>	Comments _____
(G) Final Shut-In <u>614</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1681</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>20</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1079</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1079</u>	

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

Our Representative \_\_\_\_\_

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64759

Well Name & No. Bemis # 1-29 Test No. 3 Date 2-7-16  
 Company Flatland Resources Corporation Elevation 2162 KB 2154 GL  
 Address P.O. Box 763 Hays KS 67601  
 Co. Rep / Geo. JASON T. ALM Rig Discovery #3  
 Location: Sec. 29 Twp. 135 Rge. 19w Co. Ellis State KS

Interval Tested 3608-3700 Zone Tested LKC "H-K"  
 Anchor Length 92 Drill Pipe Run 3584 Mud Wt. 9.0  
 Top Packer Depth 3603 Drill Collars Run 31 Vis 50  
 Bottom Packer Depth 3608 Wt. Pipe Run Ø WL 8.8  
 Total Depth 3700 Chlorides 6000 ppm System LCM 1

Blow Description IF - Surface Blow Building to 1/2 in. IN 20 min.  
ISI - No Blow  
FF - Hard Surge or Open - No Blow  
FSI - Pulled

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Oil Speck Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

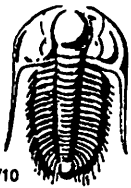
Rec Total 10 BHT 101 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1790  Test 1050 T-On Location 1:15  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 1:45  
 (C) First Final Flow 26  Safety Joint \_\_\_\_\_ T-Open 4:07  
 (D) Initial Shut-In 715  Circ Sub \_\_\_\_\_ T-Pulled 5:17  
 (E) Second Initial Flow 28  Hourly Standby \_\_\_\_\_ T-Out 7:07  
 (F) Second Final Flow 28  Mileage 29 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1745  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 10  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In Pulled  Day Standby \_\_\_\_\_ Total 1079  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1079

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64760

Well Name & No. Bemis # 1-29 Test No. 4 Date 2-7-16  
 Company Flatland Resources Corporation Elevation 2162 KB 2154 GL  
 Address P.O. Box 763 Hays KS 67601  
 Co. Rep / Geo. JASON T. Alm Rig Discovery #3  
 Location: Sec. 29 Twp. 13<sup>s</sup> Rge. 19<sup>w</sup> Co. Ellis State KS

Interval Tested 3798-3853 Zone Tested Arbuckle.  
 Anchor Length 55 Drill Pipe Run 3774 Mud Wt. 9.2  
 Top Packer Depth 3793 Drill Collars Run 31 Vis 47  
 Bottom Packer Depth 3798 Wt. Pipe Run 0 WL 9.6  
 Total Depth 3853 Chlorides 7000 ppm System LCM 1

Blow Description FF - 1/4 in Blow Died in 11 min.  
ISI - No Blow  
FF - Wood Surge on Open - No Blow  
FSI - Pulled,

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OCM</u>	<u>15</u>		<u>85</u>	
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

Rec Total 5 BHT 102 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1944  Test 1050 T-On Location 20:25  
 (B) First Initial Flow 24  Jars \_\_\_\_\_ T-Started 21:10  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 22:58  
 (D) Initial Shut-In 628  Circ Sub \_\_\_\_\_ T-Pulled 00:10  
 (E) Second Initial Flow 38  Hourly Standby \_\_\_\_\_ T-Out 01:54  
 (F) Second Final Flow 28  Mileage 58 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ loaded 2/8 14:05  
 (H) Final Hydrostatic 1877  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1108  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1108

Approved By \_\_\_\_\_ Our Representative [Signature]  
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**JOB LOG**

**SWIFT Services, Inc.**

DATE 2-8-16 PAGE NO. 1

CUSTOMER  
Flatland Resources

WELL NO.  
1-29

LEASE  
Bemis

JOB TYPE  
Rotary Plug

TICKET NO.  
28763

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	3:00							On Location
	4:35	5	10			300		1st Plug @ 3815' - 50 SKS CMT Pump WTR SPACER
		5	13			300		Pump CMT
	4:42	5	5			350		Pump WTR SPACER
	4:50		45					Disp w/ MUD from Rotary
	6:00	5	10			300		2nd plug @ 1510' - 50 SKS CMT PUMP WTR SPACER
		5	13			300		Pump CMT
	6:10	5	5			150		Disp w/ WTR
	6:35	5	10			300		3rd Plug @ 755 100 SKS CMT Pump WTR SPACER
		5	26			300		Pump CMT
	6:45	5	5			100		Disp w/ wtr
	7:00	5	5			100		4th plug @ 280' - 50 SKS CMT Pump WTR SPACER
		5	13			100		Pump CMT
	7:10	5	1			100		Disp W/ WTR
	9:00	1	2.5			0		Top off @ 40' - 10 SKS CMT
	9:05	1	8			0		Plug Rat Hole - 30 SKS
	9:10	1	5			0		Plug Mouse Hole - 15 SKS
								Thanks DAVID, Austin & John

Customer <i>Figueroa Resources Corp</i>	Lease No.	Date <i>1/31/2016</i>
Lease <i>Bemis</i>	Well # <i>1-29</i>	
Field Order # <i>12596</i>	Station <i>Pisht, KS</i>	Casing <i>8 5/8</i>
		Depth <i>218</i>
Type Job <i>CNW 8 5/8 surface</i>	Formation <i>TD-219'</i>	County <i>Ellis</i>
		State <i>KS</i>
		Legal Description <i>29-13-15</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth <i>218</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>13 3/4</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>178</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Gslen</i>	Station Manager <i>Kevin Gordley</i>	Treater <i>Darin Franklin</i>
---	---	----------------------------------

Service Units <i>92911</i>	<i>27463</i>	<i>19960</i>	<i>19862</i>					
Driver Names <i>Darin</i>	<i>McGraw</i>	<i>Jake</i>	<i>Jake</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:15pm</i>					<i>on location / safety meeting</i>
					<i>150 slk common cement, 3% cc, 2% Gel</i>
					<i>150 pps, 1.34 yield, 6.14 water</i>
<i>11:00pm</i>	<i>150</i>		<i>3</i>	<i>5</i>	<i>Pump 3 bbls water</i>
	<i>150</i>		<i>36</i>	<i>5</i>	<i>mix 150 slk cement</i>
	<i>150</i>		<i>12 1/2</i>	<i>5</i>	<i>Displace 12 1/2 bbls water</i>
<i>11:15pm</i>					<i>Shut in</i>
					<i>Cement die circulate</i>
					<i>Job complete / Darin &amp; crew</i>
					<i>Thank you!!</i>