

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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## DRILL STEM TEST REPORT

Prepared For: **Suemaur LLC.**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

ATTN: Larry Nicholson

### **Hanson Trust #1-30**

### **30-3s-27w Decatur,KS**

Start Date: 2018.07.04 @ 03:42:00

End Date: 2018.07.04 @ 14:04:10

Job Ticket #: 64453                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 09:58:37



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaaur LLC.

**30-3s-27w Decatur, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

ATTN: Larry Nicholson

Job Ticket: 64453

**DST#: 1**

Test Start: 2018.07.04 @ 03:42:00

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:50

Time Test Ended: 14:04:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

**Interval: 3648.00 ft (KB) To 3722.00 ft (KB) (TVD)**

Reference Elevations: 2632.00 ft (KB)

Total Depth: 3722.00 ft (KB) (TVD)

2627.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8653**

**Inside**

Press@RunDepth: 165.01 psig @ 3655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.04

End Date:

2018.07.04

Last Calib.: 2018.07.04

Start Time: 03:42:01

End Time:

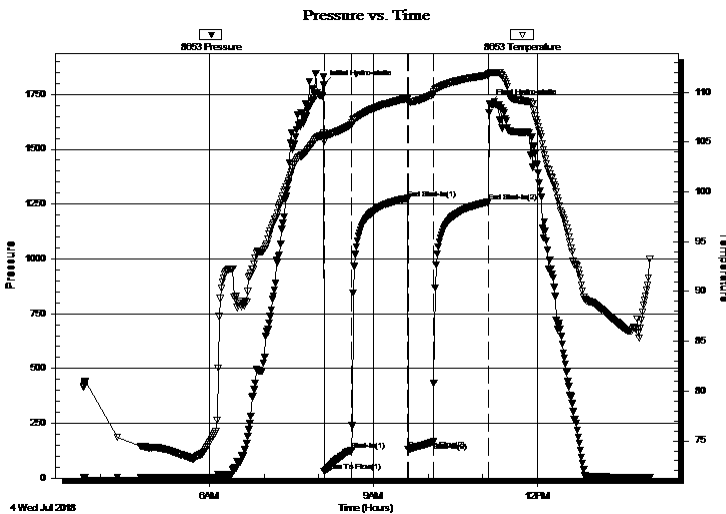
14:04:10

Time On Btm: 2018.07.04 @ 08:05:39

Time Off Btm: 2018.07.04 @ 11:07:09

**TEST COMMENT:** IF-30- Strong blow ; BOB in 20 min; Built to 13.42"  
ISI-60- No blow back  
FF-30- Good blow ; BOB in 30 min; Built to 10.25"  
FSI-60- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.24	105.93	Initial Hydro-static
1	30.45	105.12	Open To Flow (1)
31	126.91	106.78	Shut-In(1)
93	1275.68	109.44	End Shut-In(1)
93	133.28	109.02	Open To Flow (2)
121	165.01	109.81	Shut-In(2)
181	1259.42	111.74	End Shut-In(2)
182	1706.24	111.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	M 100%M	1.91
107.00	MW 70%W 30%M	1.52

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

ATTN: Larry Nicholson

Job Ticket: 64453

**DST#: 1**

Test Start: 2018.07.04 @ 03:42:00

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:50

Time Test Ended: 14:04:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

**Interval: 3648.00 ft (KB) To 3722.00 ft (KB) (TVD)**

Reference Elevations: 2632.00 ft (KB)

Total Depth: 3722.00 ft (KB) (TVD)

2627.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8737 Outside**

Press@RunDepth: psig @ 3655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.04

End Date:

2018.07.04

Last Calib.:

2018.07.04

Start Time: 03:42:01

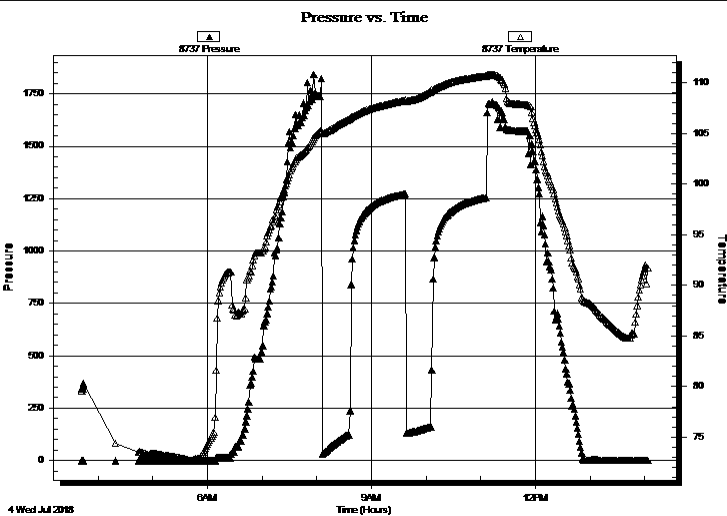
End Time:

14:04:10

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-30- Strong blow ; BOB in 20 min; Built to 13.42"  
ISI-60- No blow back  
FF-30- Good blow ; BOB in 30 min; Built to 10.25"  
FSI-60- No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	M 100%M	1.91
107.00	MW 70%W 30%M	1.52

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

Job Ticket: 64453

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2018.07.04 @ 03:42:00

## Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.82 inches	Volume: 51.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 52.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	201.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3648.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3621.00	
Shut In Tool	5.00			3626.00	
Hydraulic tool	5.00			3631.00	
Jars	5.00			3636.00	
Safety Joint	3.00			3639.00	
Packer	5.00			3644.00	28.00 Bottom Of Top Packer
Packer	4.00			3648.00	
Stubb	1.00			3649.00	
Perforations	5.00			3654.00	
Change Over Sub	1.00			3655.00	
Recorder	0.00	8653	Inside	3655.00	
Recorder	0.00	8737	Outside	3655.00	
Drill Pipe	63.00			3718.00	
Change Over Sub	1.00			3719.00	
Bullnose	3.00			3722.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

Job Ticket: 64453

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2018.07.04 @ 03:42:00

## 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:

17000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	M 100%M	1.915
107.00	MW 70%W 30%M	1.517

Total Length: 357.00 ft

Total Volume: 3.432 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

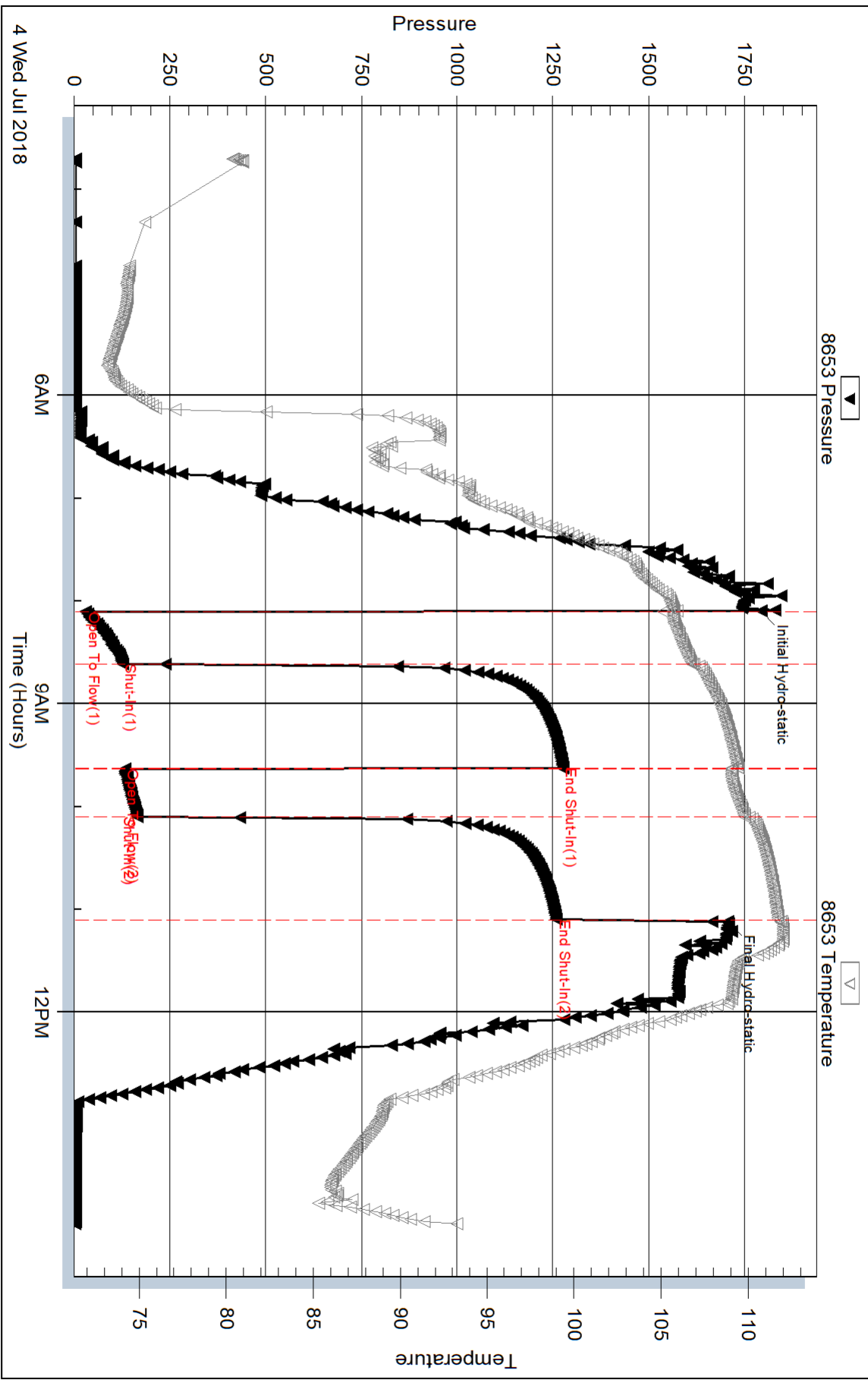
Laboratory Name:

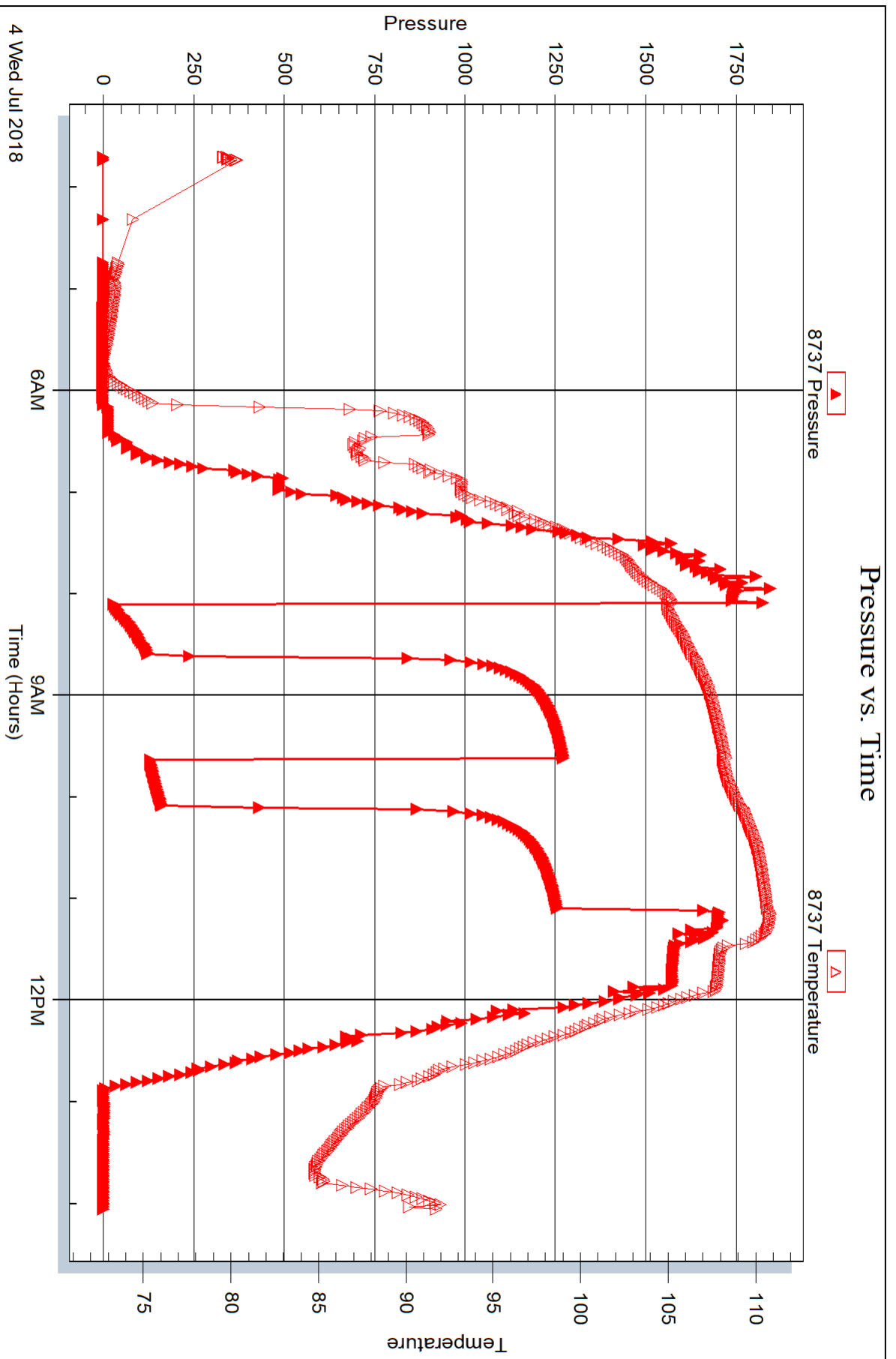
Laboratory Location:

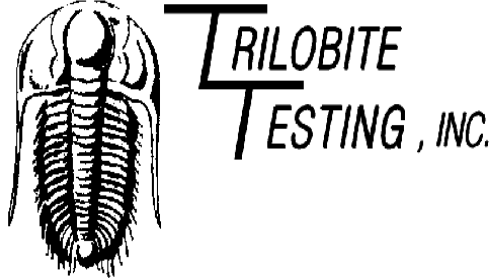
Recovery Comments: LCM- 6#



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Suemaur LLC.**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

ATTN: Larry Nicholson

### **Hanson Trust #1-30**

### **30-3s-27w Decatur,KS**

Start Date: 2018.07.05 @ 06:31:00

End Date: 2018.07.05 @ 13:43:00

Job Ticket #: 64454                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 09:58:17

Suemaur LLC.  
30-3s-27w Decatur,KS  
Hanson Trust #1-30  
DST # 2  
LKC "G"  
2018.07.05



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaur LLC.

**30-3s-27w Decatur, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

ATTN: Larry Nicholson

Job Ticket: 64454

**DST#: 2**

Test Start: 2018.07.05 @ 06:31:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:40

Time Test Ended: 13:43:00

Test Type: Inflate Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

**Interval: 3763.00 ft (KB) To 3785.00 ft (KB) (TVD)**

Reference Elevations: 2632.00 ft (KB)

Total Depth: 3785.00 ft (KB) (TVD)

2627.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8653**

**Inside**

Press@RunDepth: 35.35 psig @ 3769.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.05

End Date:

2018.07.05

Last Calib.:

2018.07.05

Start Time:

06:31:01

End Time:

13:43:00

Time On Btm:

2018.07.05 @ 09:05:20

Time Off Btm:

2018.07.05 @ 12:07:39

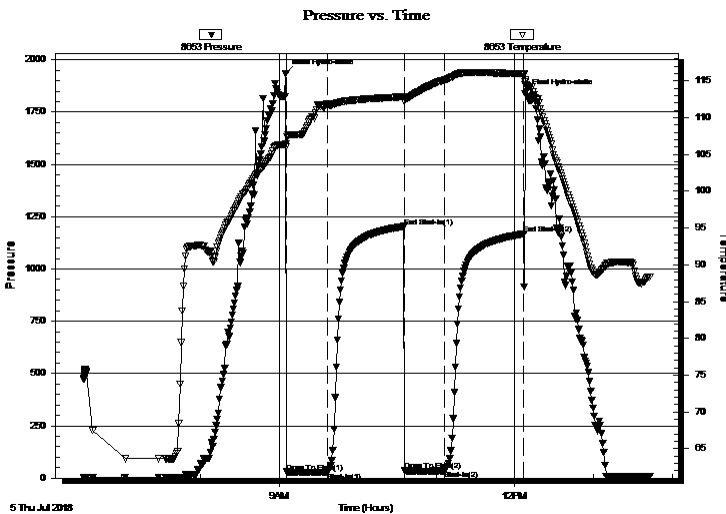
**TEST COMMENT:** IF-30- Weak surface blow ; built to 1"

ISI-60- No blow back

FF-30- Weak blow ; built to 2.5"

FSI-60- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.50	106.46	Initial Hydro-static
1	30.16	106.02	Open To Flow (1)
32	29.53	111.84	Shut-In(1)
91	1203.28	112.86	End Shut-In(1)
91	38.37	112.16	Open To Flow (2)
121	35.35	115.14	Shut-In(2)
182	1167.90	115.96	End Shut-In(2)
183	1837.37	115.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100%M	0.05

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

Job Ticket: 64454

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2018.07.05 @ 06:31:00

## Tool Information

Drill Pipe:	Length: 3590.00 ft	Diameter: 3.82 inches	Volume: 50.89 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 51.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3763.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 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			3736.00	
Shut In Tool	5.00			3741.00	
Hydraulic tool	5.00			3746.00	
Jars	5.00			3751.00	
Safety Joint	3.00			3754.00	
Packer	5.00			3759.00	28.00 Bottom Of Top Packer
Packer	4.00			3763.00	
Packer - Shale	0.00			3763.00	
Stubb	1.00			3764.00	
Perforations	5.00			3769.00	
Recorder	0.00	8653	Inside	3769.00	
Recorder	0.00	8737	Outside	3769.00	
Perforations	13.00			3782.00	
Bullnose	3.00			3785.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Suemaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

Job Ticket: 64454

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2018.07.05 @ 06:31:00

**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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	M 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

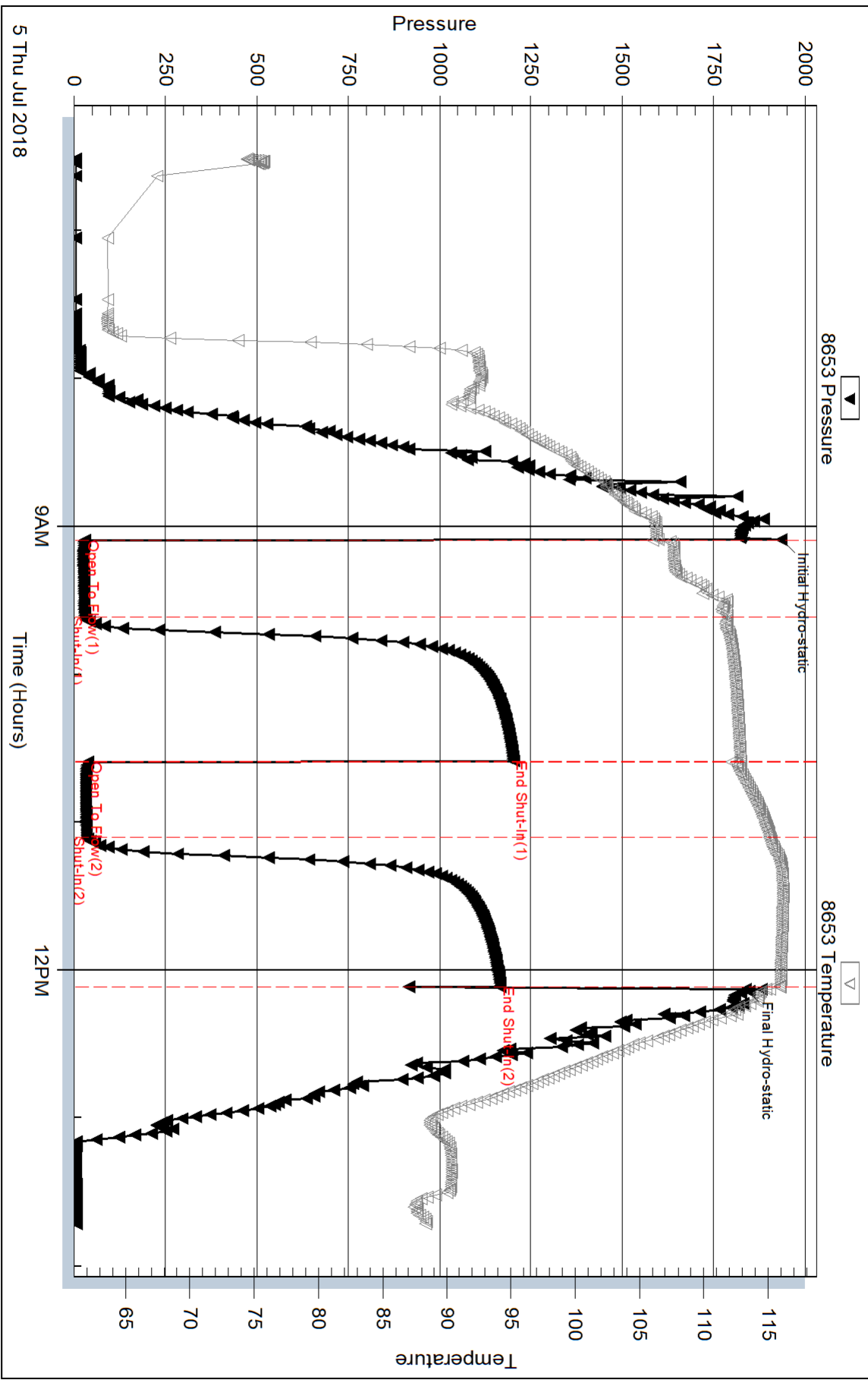
Serial #:

Laboratory Name:

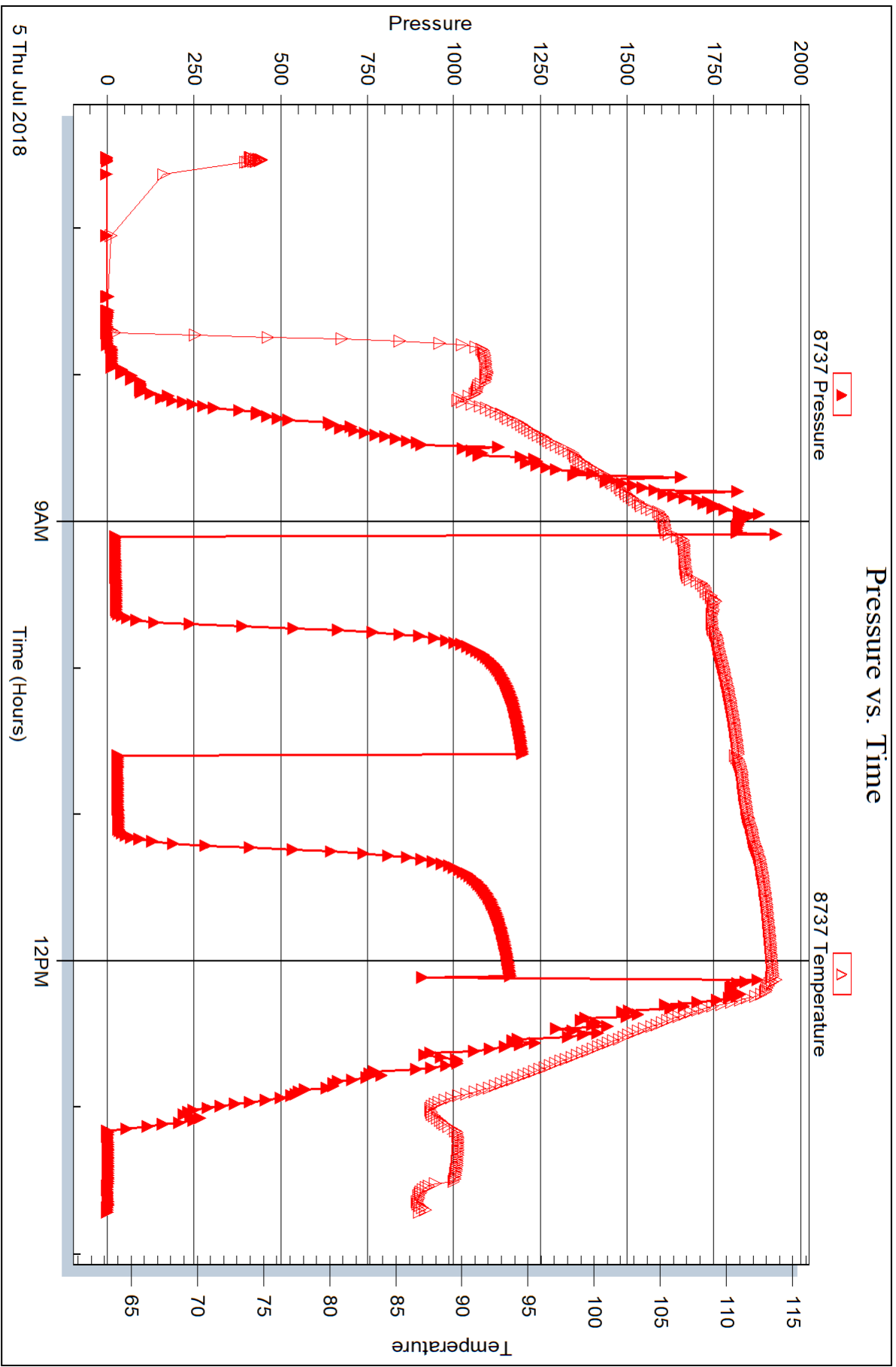
Laboratory Location:

Recovery Comments: LCM- 6#

# Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Suemaur LLC.**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

ATTN: Larry Nicholson

### **Hanson Trust #1-30**

### **30-3s-27w Decatur,KS**

Start Date: 2018.07.06 @ 03:14:00

End Date: 2018.07.06 @ 14:11:32

Job Ticket #: 64455                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 09:57:55

Suemaur LLC. 30-3s-27w Decatur,KS Hanson Trust #1-30 DST # 3 LKC "J - K" 2018.07.06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaur LLC.

**30-3s-27w Decatur, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

ATTN: Larry Nicholson

Job Ticket: 64455

**DST#: 3**

Test Start: 2018.07.06 @ 03:14:00

## GENERAL INFORMATION:

Formation: **LKC "J - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:23

Time Test Ended: 14:11:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

**Interval: 3821.00 ft (KB) To 3882.00 ft (KB) (TVD)**

Reference Elevations: 2632.00 ft (KB)

Total Depth: 3882.00 ft (KB) (TVD)

2627.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8653**

**Inside**

Press@RunDepth: 113.40 psig @ 3828.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.06

End Date:

2018.07.06

Last Calib.:

2018.07.06

Start Time: 03:14:01

End Time:

14:11:33

Time On Btm:

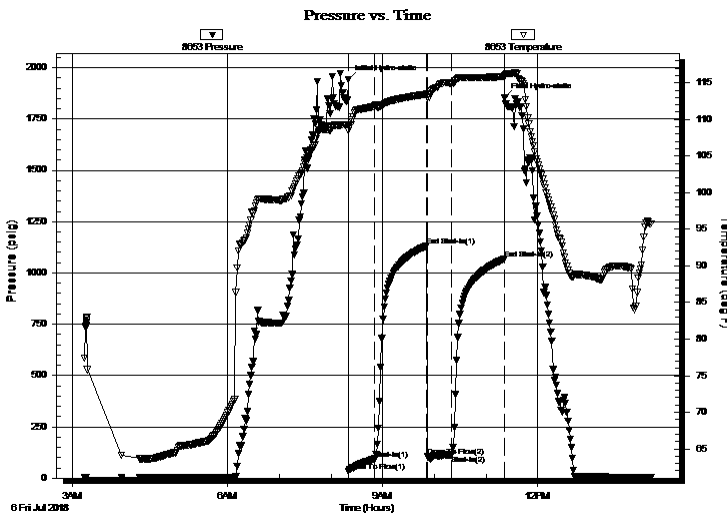
2018.07.06 @ 08:20:13

Time Off Btm:

2018.07.06 @ 11:21:32

**TEST COMMENT:** IF- 30- Strong blow ; BOB in 13 min; Built to 19"  
IS- 60- Slight blow back; Built to 1/2"  
FF- 30- Strong blow ; BOB in 10 min; Built to 23 1/2"  
FSI-60- Slight blow back; Built to 1"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.27	109.31	Initial Hydro-static
1	33.12	108.49	Open To Flow (1)
30	93.95	111.80	Shut-In(1)
91	1132.28	113.45	End Shut-In(1)
92	104.34	113.01	Open To Flow (2)
120	113.40	114.93	Shut-In(2)
181	1069.42	115.85	End Shut-In(2)
182	1855.34	115.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
252.00	OCM 20%O 80%M	1.94
32.00	CO 100%O	0.45

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

Job Ticket: 64455

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2018.07.06 @ 03:14:00

## Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.82 inches	Volume: 54.38 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	211.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3821.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3802.00	
Shut In Tool	5.00			3807.00	
Hydraulic tool	5.00			3812.00	
Packer	5.00			3817.00	20.00 Bottom Of Top Packer
Packer	4.00			3821.00	
Packer - Shale	0.00			3821.00	
Stubb	1.00			3822.00	
Perforations	5.00			3827.00	
Change Over Sub	1.00			3828.00	
Recorder	0.00	8653	Inside	3828.00	
Recorder	0.00	8737	Outside	3828.00	
Drill Pipe	32.00			3860.00	
Change Over Sub	1.00			3861.00	
Perforations	18.00			3879.00	
Bullnose	3.00			3882.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaur LLC.

**30-3s-27w Decatur,KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Hanson Trust #1-30**

Job Ticket: 64455

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2018.07.06 @ 03:14:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	OCM 20%O 80%M	1.943
32.00	CO 100%O	0.454

Total Length: 284.00 ft

Total Volume: 2.397 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

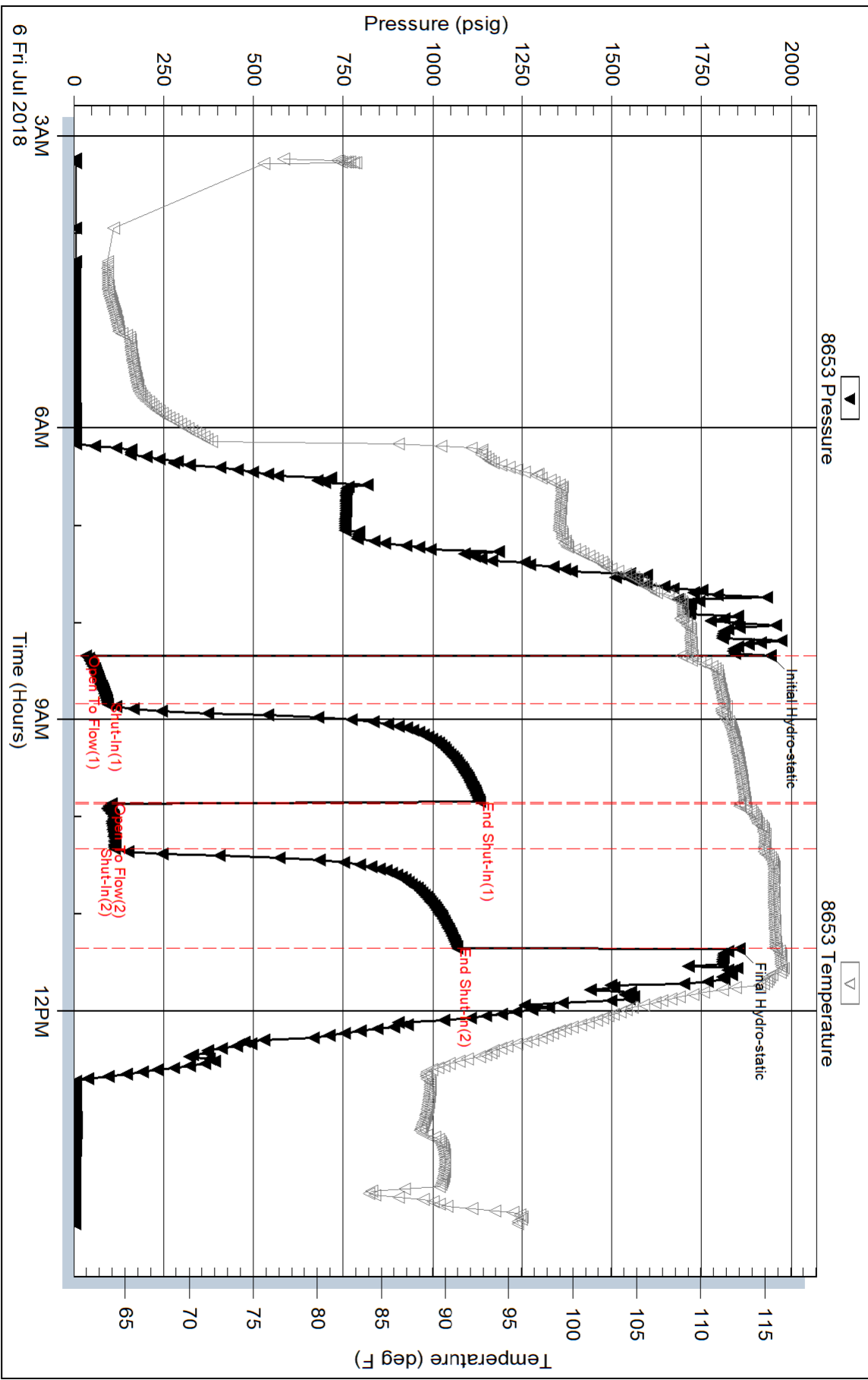
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 7#

### Pressure vs. Time



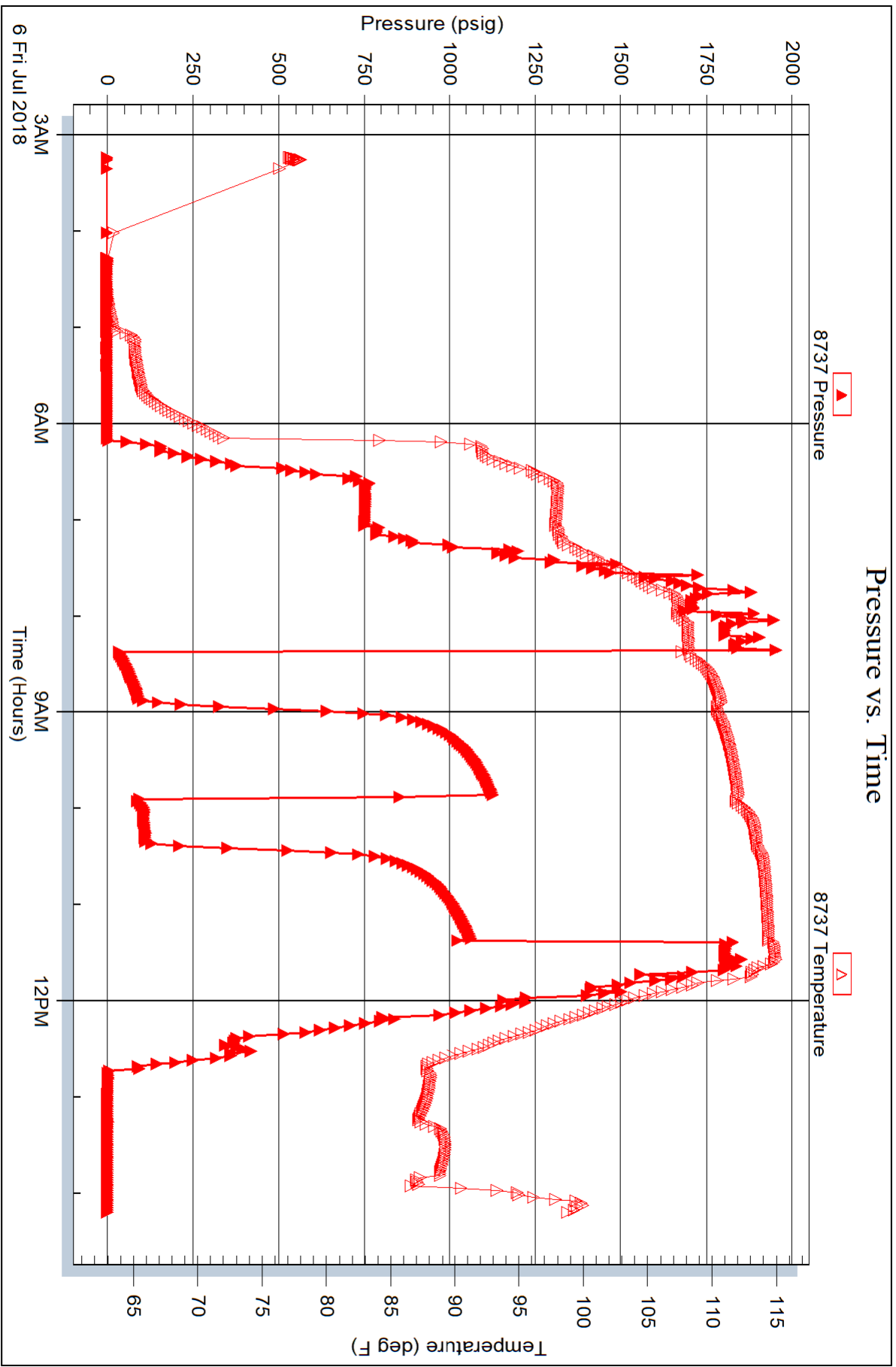
Serial #: 8737

Outside

Suenaur LLC

Hanson Trust #1-30

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64453**

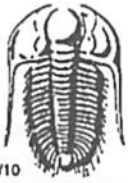
Well Name & No. Hanson Trust #1-30 Test No. 1 Date 7-21-18  
 Company Suemaier LLC Elevation 2637 KB 2627 GL  
 Address 539 N. Carancahwa STE 1100 Corpus Christi TX 78401  
 Co. Rep / Geo. Larry Nicholson Rig Murfin 24  
 Location: Sec. 30 Twp 3<sup>s</sup> Rge. 27<sup>w</sup> Co. Decatur State KS

Interval Tested 3648-3722 Zone Tested Tocantá-LKC "C"  
 Anchor Length 74' Drill Pipe Run 3645 Mud Wt. 8.7  
 Top Packer Depth 3643 Drill Collars Run 176' Vis 69  
 Bottom Packer Depth 3648 Wt. Pipe Run — WL 5.6  
 Total Depth 3722 Chlorides 700 ppm System LCM 6#  
 Blow Description IF - Strong blow; BOB in 20min; Built to 13'42"  
ISE - No blow back  
FF - Good blow; BOB in 30min; Built to 10'25"  
FSE - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>M</u>			<u>100</u>	
<u>107</u>	<u>MW</u>			<u>70</u>	<u>30</u>

Rec Total 357' BHT 111° Gravity — API RW .32 @ 160° F Chlorides 17000 ppm  
 (A) Initial Hydrostatic 1793  Test 1050 T-On Location 03:26  
 (B) First Initial Flow 30  Jars 250 T-Started 03:42  
 (C) First Final Flow 126  Safety Joint 75 T-Open 08:06  
 (D) Initial Shut-In 1275  Circ Sub \_\_\_\_\_ T-Pulled 11:06  
 (E) Second Initial Flow 133  Hourly Standby \_\_\_\_\_ T-Out 14:04  
 (F) Second Final Flow 165  Mileage 232 RT <sup>27</sup> rt Comments \_\_\_\_\_  
 (G) Final Shut-In 1259  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1706  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Accessibility \_\_\_\_\_ Total 1652  
 Final Flow 30 Sub Total 1652 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 69

Approved By [Signature] 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. 64454

Well Name & No. Hanson Trust #1-30 Test No. 2 Date 7-05-18  
 Company Suewau LLC Elevation 2637 KB 2627 GL  
 Address 539 N. Carancahua STE 100 Corpus Christi TX 78401  
 Co. Rep / Geo. Larry Nicholson Rig Murfin #24  
 Location: Sec. 30 Twp 3<sup>s</sup> Rge. 27<sup>w</sup> Co. DeCATUR State Ks

Interval Tested 3763-3785 Zone Tested LKC "G"  
 Anchor Length 27' Drill Pipe Run 3590 Mud Wt. 9.3  
 Top Packer Depth 3758 Drill Collars Run 176' Vis 56  
 Bottom Packer Depth 3763 Wt. Pipe Run - WL 6.4  
 Total Depth 3785 Chlorides 1400 ppm System LCM 6#  
 Blow Description IF- Weak surface blow; Built to 1"  
ISE- No blow back  
FF- Weak blow; Built to 2.5"  
FSE- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</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 10' BHT 116° Gravity 1050 API RW @ °F Chlorides ppm  
 (A) Initial Hydrostatic 1935  Test 1050 T-On Location 06:20  
 (B) First Initial Flow 30  Jars 250 T-Started 06:31  
 (C) First Final Flow 29  Safety Joint 75 T-Open 09:06  
 (D) Initial Shut-In 1203  Circ Sub  T-Pulled 12:06  
 (E) Second Initial Flow 38  Hourly Standby  T-Out 13:43  
 (F) Second Final Flow 35  Mileage 232 RT 27 Comments   
 (G) Final Shut-In 1167  Sampler   
 (H) Final Hydrostatic 1837  Straddle   Ruined Shale Packer   
 Shale Packer 250  Ruined Packer   
 Extra Packer   Extra Copies   
 Initial Open 30  Extra Recorder  Sub Total 0  
 Initial Shut-In 60  Day Standby  Total 1652  
 Final Flow 30  Accessibility  MP/DST Disc't   
 Final Shut-In 60 Sub Total 1652

Approved By [Signature] 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. 64455

Well Name & No. Hanson Trust #1-30 Test No. 3 Date 7-06-18  
 Company Suemar LLC Elevation 2632 KB 2627 GL  
 Address 539 N. Comanche Ave STE 1100 Corpus Christi TX 78401  
 Co. Rep / Geo. Larry Nicholson Rig Murfin 24  
 Location: Sec. 30 Twp 3<sup>s</sup> Rge. 27<sup>w</sup> Co. DeCATUR State KS

Interval Tested 3821-3882 Zone Tested LKC J+K  
 Anchor Length 60' Drill Pipe Run 3836 Mud Wt. 9.1  
 Top Packer Depth 3816 Drill Collars Run 176' Vis 62  
 Bottom Packer Depth 3821 Wt. Pipe Run — WL 6.0  
 Total Depth 3882 Chlorides 1600 ppm System LCM 7#

Blow Description IF - Strong blow; BOB in 13 min; Built to 19"  
FSF - Slight blow back; built to 12"  
FF - Strong blow; BOB in 10 min; Built to 23 1/2"  
FSF - Slight blow back; built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
<u>32</u>	<u>CO</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 284 BHT 1150 Gravity 38 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1941  Test 1050 T-On Location 03:00  
 (B) First Initial Flow 33  Jars 250 T-Started 03:14  
 (C) First Final Flow 93  Safety Joint 75 T-Open 08:20  
 (D) Initial Shut-In 1132  Circ Sub \_\_\_\_\_ T-Pulled 11:20  
 (E) Second Initial Flow 104  Hourly Standby \_\_\_\_\_ T-Out 14:11  
 (F) Second Final Flow 113  Mileage 232 RT X 2 Comments \_\_\_\_\_  
 (G) Final Shut-In 1069  Sampler 27+27 \_\_\_\_\_  
 (H) Final Hydrostatic 1855  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1679  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1679

Approved By [Signature] Our Representative Code Richard

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.







# Cementing Treatment



<b>Start Date</b>	7/10/2018	<b>Field Ticket#</b>	
<b>End Date</b>	7/10/2018	<b>Well</b>	HANSON TRUST 1-30
<b>Client</b>	SUEMAUR EXPLORATION and PRODUCTION LLC	<b>API#</b>	15-039-21251
<b>Client Field Rep.</b>	Chuck Schmidt	<b>Well Classification</b>	
<b>Service Sup.</b>	Edgar Rodriguez	<b>County</b>	DECATUR
<b>District</b>	Liberal, KS	<b>State/Province</b>	KS
<b>Type of Job</b>	Long String	<b>Formation</b>	
<b>Execution ID</b>	EXC-08577-R1F9Z402	<b>Rig</b>	Murfin 24
<b>Project ID</b>	PRJ1008495		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Previous Casing	8.10	8.63	24.00	200.00	200.00			
Open Hole	7.88			4,495.00	4,495.00	20.00		
Casing	4.95	5.50	15.50	4,495.00	4,495.00			
Open Hole	7.88			2,360.00	2,360.00	120.00		
<b>Shoe Length (ft):</b>	42							

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>	DV Tool
<b>Bottom Plug Provided By</b>		<b>Tool Depth (ft)</b>	2,553.00
<b>Bottom Plug Size</b>		<b>Max Tubing Pressure - Rated (psi)</b>	
<b>Top Plug Used?</b>	Yes	<b>Max Tubing Pressure - Operated (psi)</b>	
<b>Top Plug Provided By</b>	BJ	<b>Max Casing Pressure - Rated (psi)</b>	7,500.00
<b>Top Plug Size</b>	5.500	<b>Max Casing Pressure - Operated (psi)</b>	2,000.00
<b>Centralizers Used</b>	Yes	<b>Pipe Movement</b>	Reciprocation
<b>Centralizers Quantity</b>	50.00	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Type</b>	Bow	<b>Top Connection Thread</b>	8RD
<b>Landing Collar Depth (ft)</b>	4,453	<b>Top Connection Size</b>	5.5

# Cementing Treatment



## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)	300.00	10 min SGS	
Circulation Rate (bpm)	3.50	30 min SGS	
Circulation Volume (bbls)		Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)		Gas Units	
Mud Density Out (ppg)			
PV Mud In			
PV Mud Out			
YP Mud In			
YP Mud Out			

## TEMPERATURE

Ambient Temperature (°F)	75.00	Slurry Cement Temperature (°F)	70.00
Mix Water Temperature (°F)	70.00	Flow Line Temperature (°F)	

## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	UltraBond	8.4000			2,652.00				20.0000
Spacer / Pre Flush / Flush	Integranguard Clean	8.7000			2,552.00				20.0000
Tail Slurry	First Stage Primary	14.5000	1.5609	6.98	3,200.00	1,300.00	180	276.0000	49.1000
Displacement 1	Fresh Water	8.3400			3,101.00			0.0000	32.3000
Displacement Final	Mud	9.0000			0.00			0.0000	73.8000
Spacer / Pre Flush / Flush	Fresh Water	8.3400			0.00				20.0000

# Cementing Treatment



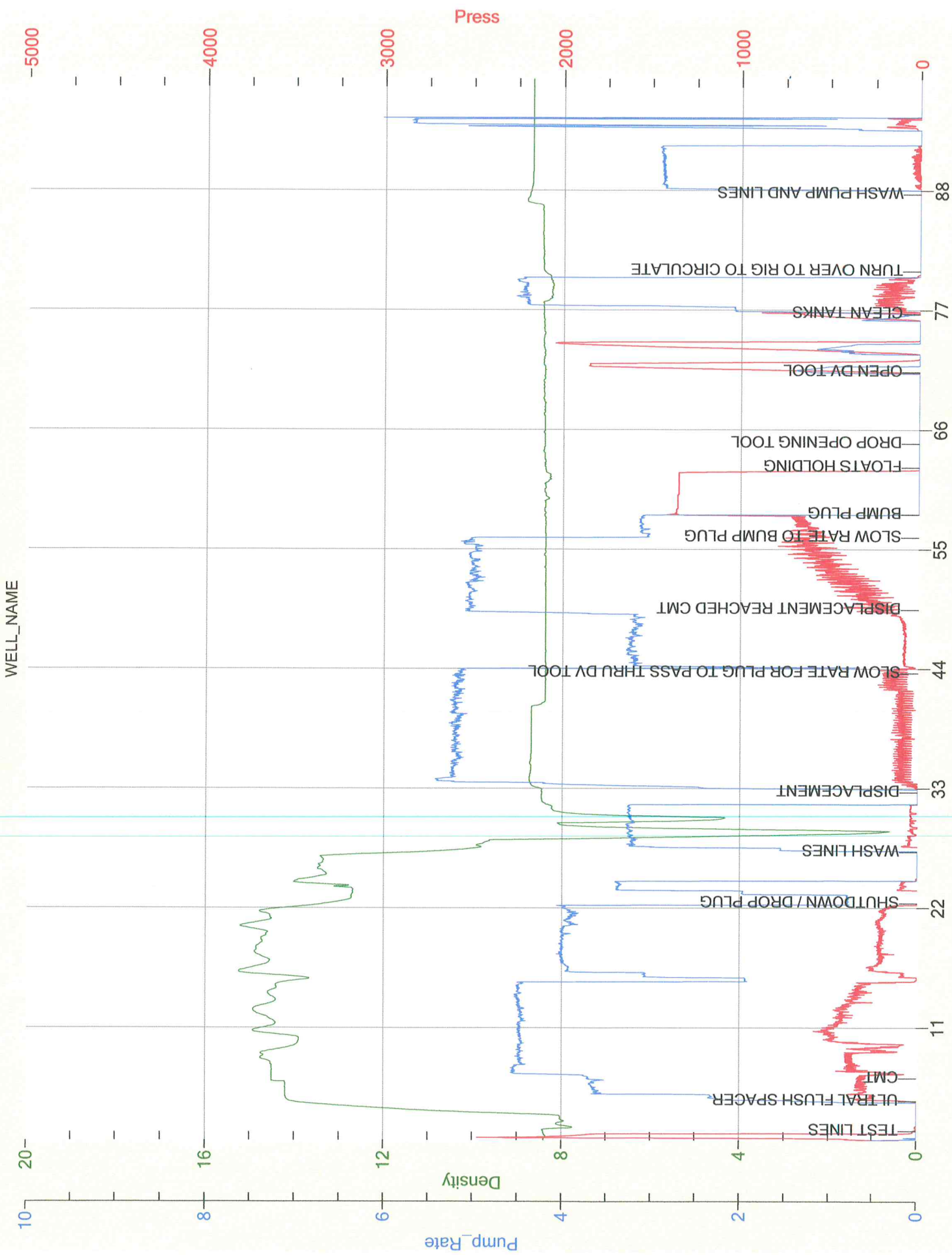
## Treatment Report

JOB LOG ATTACHED

## Job Summary

JOB LOG ATTACHED

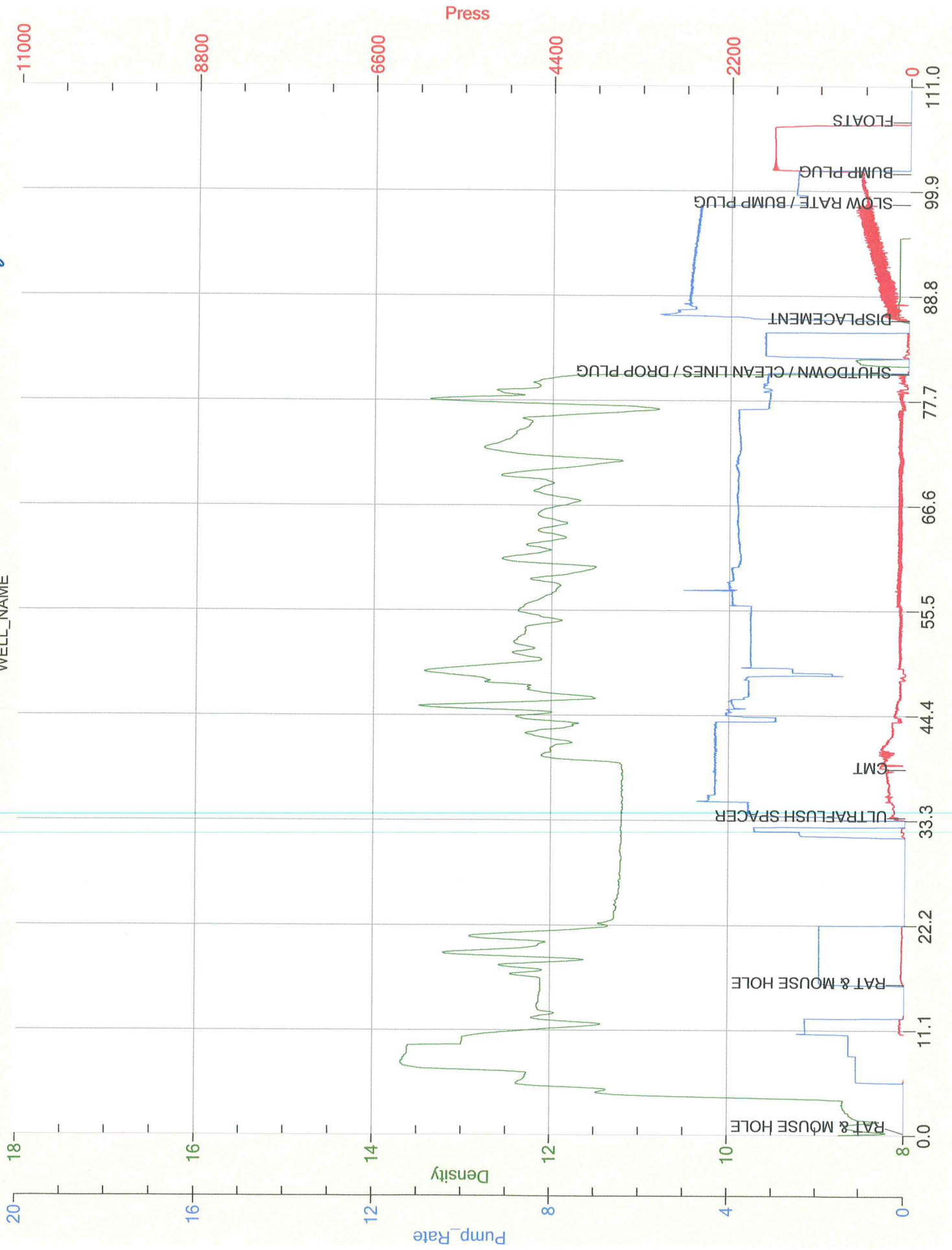
# SUEMAUR / FIRST STAGE





SUEMAUR EXPLORATION  
WELL\_NAME

*second stage*



Customer Name Suemaur Exploration  
 Well Name Hanson Trust #1-30  
 Job Type Surface

District Liberal  
 Supervisor Victor Corona-Marta  
 Engineer Kevin Aldridge



Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbbls)	Pipe Pressure (psi)	Comments
	6/19/2018	Mobilization	Arrive on location	Cement Pump Truck						Arrived at location
		Standby	Other (See comment)							location was very muddy
		Operational	Rig Up	Cement Pump Truck						Rig up to rig
	6:45	Operational	Safety Meeting							Safety Meeting
	7:05	Operational	Pressure Test	Cement Pump Truck		8.33	2	5	1500	pressure test lines to 1500psi
	7:12	Operational	Pump Spacer	Cement Pump Truck		14.9	5	45		pump 5bbbls of fresh water spacer
	7:15	operational	Pumping Cement	Cement Pump Truck						pump 45bbbls of cement from 190sacks at 14.9lbs
		Operational	Clean Pumps and Lines	Cement Pump Truck		8.33				wash pump and lines
	7:35	Operational	Pump Displacement	Cement Pump Truck		8.33	5	5		displacement of 11bbbls
	7:40	Operational	Pump Displacement	Cement Pump Truck		8.33	5	5		5bbbls gone/slow down rate
	7:55	Operational	Pump Displacement	Cement Pump Truck		8.33	3	11		11bbbls gone
										Had 0 bbbls in water returns
50										had 20bbbls in cement returns
51										rig down
52										
53										Crew and I thanked the company man and rig crew for job opportunity.
54										
55										
56										
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72										
73										
74										



Customer: Suemaur Exploration  
Date: Saturday, June 30, 2018  
Well Name: Hanson Trust #1-30  
Well Location: Decatur KS  
Supervisor: Victor Corona-Marta

Equipment Operators: Victor Corona-Marta - Jose Calderon - Carlos Ibarra

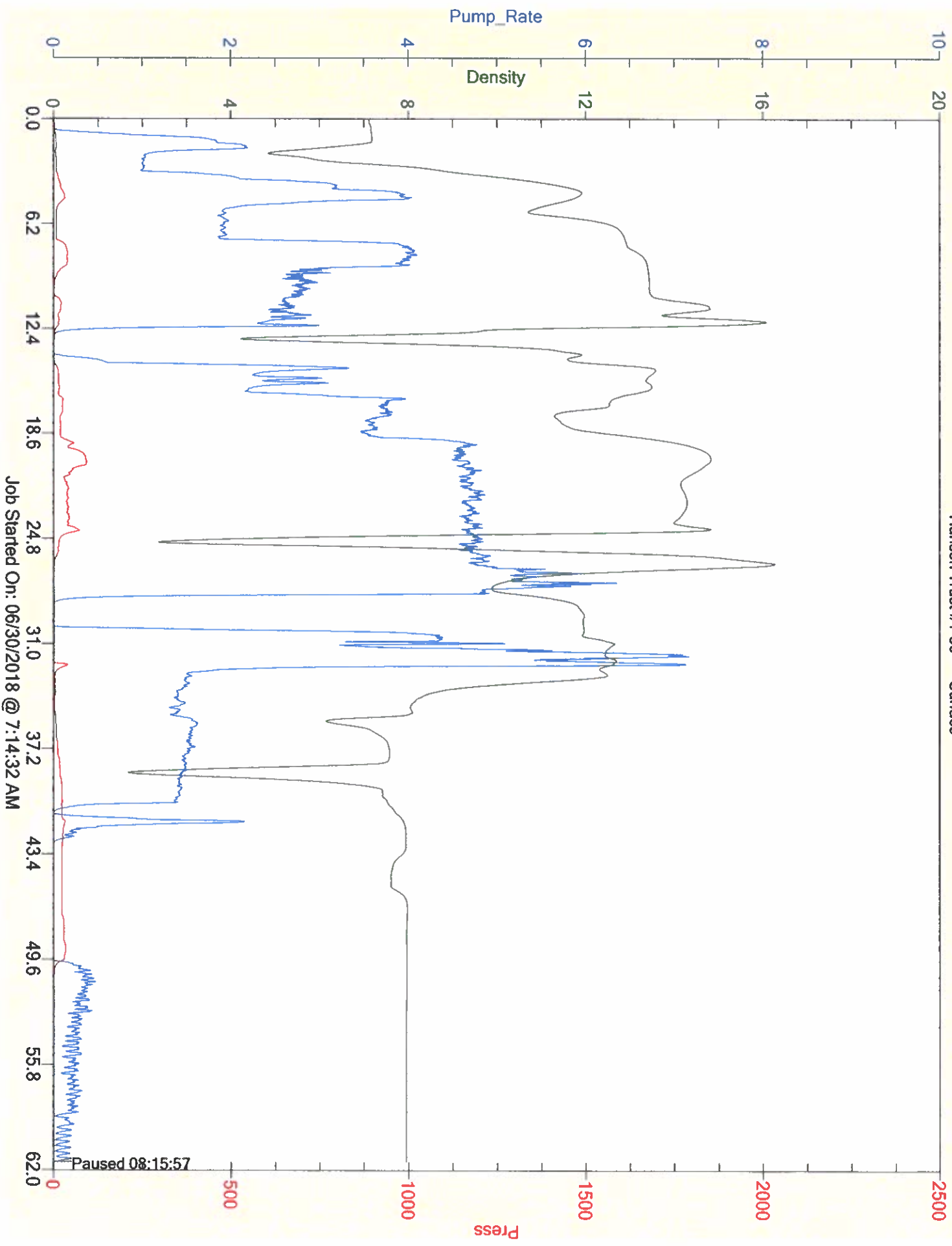
Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	Yes	No
Was the job performed in a professional manner?	Yes	No
Were the calculations prepared and explained properly?	Yes	No
Were the correct services dispatched to the job site?	Yes	No
Were the services performed as requested?	Yes	No
Did the job site environment remain unchanged?	Yes	No
Did the equipment perform in the manner expected?	Yes	No
Did the materials meet your expectations?	Yes	No
Was the crew prepared for the job?	Yes	No
Was the crew prompt in the rig-up and actual job?	Yes	No
Were reasonable recommendations given, as requested?	Yes	No
Did the crew perform safely?	Yes	No
Was the job performed to your satisfaction?	Yes	No

Customer Signature: *Esequiel P. Perez* Date: 6/30/2018

Additional Comments:

# Suemaur Exploration

Hanson Trust #1-30 - - Surface



Job Started On: 06/30/2018 @ 7:14:32 AM

Paused 08:15:57



**CEMENT MIXING WATER GUIDELINES**

Company Name:

**Suemaur Exploration**

Lease Name:

**Hanson Trust #1-30**

County

**Decatur**

State

**KS**

Water Source:

**TANK**

Submitted By:

**Victor Corona-Marta**

Date:

**6/30/2018**

pH Level

**7**

Must be less than 8.5

Sulfates

**400**

Must be less than 1,000 PPM

Chlorides

**0**

Must be less than 3,000 PPM

Temperature

**64**

**COMMENTS**

Thank You

Customer Signature

*Leopoldo Perez*

# Cementing Treatment



<b>Start Date</b>	6/29/2018	<b>Field Ticket#</b>	FT-08217-R4Y4R60202-89024
<b>End Date</b>	6/30/2018	<b>Well</b>	HANSON TRUST 1-30
<b>Client</b>	SUEMAUR EXPLORATION and PRODUCTION LLC	<b>API#</b>	15-039-21251
<b>Client Field Rep.</b>	Andy Grubb	<b>Well Classification</b>	
<b>Service Sup.</b>	Victor Corona-Marta	<b>County</b>	DECATUR
<b>District</b>	Liberal, KS	<b>State/Province</b>	KS
<b>Type of Job</b>	Surface	<b>Formation</b>	
<b>Execution ID</b>	EXC-08217-R4Y4R602	<b>Rig</b>	
<b>Project ID</b>	PRJ1008182		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25			200.00	200.00	175.00		
Casing	8.10	8.63	24.00	200.00	200.00			
<b>Shoe Length (ft):</b>	42							

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>	Swege
<b>Bottom Plug Provided By</b>		<b>Tool Depth (ft)</b>	217.00
<b>Bottom Plug Size</b>		<b>Max Tubing Pressure - Rated (psi)</b>	
<b>Top Plug Used?</b>	No	<b>Max Tubing Pressure - Operated (psi)</b>	
<b>Top Plug Provided By</b>		<b>Max Casing Pressure - Rated (psi)</b>	
<b>Top Plug Size</b>		<b>Max Casing Pressure - Operated (psi)</b>	
<b>Centralizers Used</b>	Yes	<b>Pipe Movement</b>	None
<b>Centralizers Quantity</b>	3.00	<b>Job Pumped Through</b>	No Manifold
<b>Centralizers Type</b>	Bow	<b>Top Connection Thread</b>	ltc
<b>Landing Collar Depth (ft)</b>	158	<b>Top Connection Size</b>	8.625

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Solids Present at End of Circulation</b>	No
---------------------------	-----	---	----



# Cementing Treatment



Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Spacer	0.00	5.00			
	Primary Cement displacement	0.00	43.10			
		0.00	15.20			

	Min	Max	Avg
Pressure (psi)	0.00	1,000.00	20.00
Rate (bpm)	3.00	5.00	4.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	20.00
Calculated Displacement Volume (bbls)	11.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	11.00	Amount of Spacer to Surface	5.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	20.00
Bump Plug	No	Amount Bled Back After Job	0.00
Bump Plug Pressure (psi)	20.00	Total Volume Pumped (bbls)	61.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

## CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

## SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	
Operators Max SQ Pressure (psi)			

## COMMENTS

### Treatment Report



# Cementing Treatment



5bbls of spacer of fresh water, 45bbls of cement, 11bbls of displacement with fresh water

## Job Summary

job summary on job log

Customer Name SUEMAUR EXPLORATION  
 Well Name HANSON TRUST 1-30  
 Job Type Long String

District LIBERAL  
 Supervisor EDGAR RODRIGUEZ  
 Engineer KEVIN ALDRIDGE

Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
7/9/2018	Mobilization	Arrive on Location	Cement Pump Truck						ARRIVE ON LOCATION
17:40	Operational	Other (See comments)							RIG READY TO RUN CASING
17:50	Operational	Other (See comments)							RUN FLOAT EQUIPMENT
21:20	Operational	Other (See comments)							CASING ON BOTTOM
21:23	Operational	Other (See comment)							RIG CIRCULATING FOR 1 HOUR
21:25	Operational	Other (See comments)							WRONG SIZE OF CMT HEAD / DRIVING TO MEET SOMEONE HALF WAY TO GET CORRECT ONE
21:25	Operational	Other (See comments)							PUMP OPERATOR WILL HOLD STEACS BRIEFING WITH CREW AND RIG UP
7/10/2018	Operational	Other (See comments)							
1:50	Operational	Other (See comments)							ARRIVE WITH CORRECT SIZE OF HEAD
2:10	Operational	Other (See comments)							JOB STEACS BRIEFING
2:20	Operational	Other (See comments)							SWITCH TO BJ CEMENT HEAD
2:26	Operational	Other (See comment)							1ST STAGE
2:26	Operational	Other (See comments)			8.3			2500	TEST LINES
2:31	Operational	Other (See comment)			8.4	4.5	20	480	PUMP ULTRAFULSH SPACER
2:36	Operational	Other (See comment)			14.5	4	50	260	PUMP 180 SKS CMT
2:51	Operational	Other (See comment)							SHUTDOWN / CLEAN LINES / DROP PLUG
2:58	Operational	Other (See comment)							DISPLACEMENT
2:58	Operational	Other (See comment)			8.3	5	40	120	FRESH WATER (40 BBLs)
3:07	Operational	Other (See comment)			8.8	5		120	WATER BASED MUD (66 WBM)

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Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbbls)	Pipe Pressure (psi)	Comments
3:11	Operational	Other (See comment)			8.8	3	50	140	SLOW RATE FOR PLUG TO PASS THRU DV TOOL
3:16	Operational	Other (See comment)			8.8	5	65	280	CONTINUE DISPLACEMENT
3:23	Operational	Other (See comment)			8.8	3	96	810	SLOW RATE TO BUMP PLUG
3:26	Operational	Other (See comment)			8.8	3	106	720	BUMP PLUG WITH 720 PSI AND TOOK UP TO 1360 PSI / HOLD FOR 3 MINUTES
3:29	Operational	Other (See comment)							CHECK FLOATS / 0.5 BBLS BACK
3:32	Operational	Other (See comment)							DROP MSC OPENING TOOL
3:40	Operational	Other (See comments)			8.8	2	2	980	PRESSURE UP TO 980 PSI AND IT OPENED / WILL CLEAN MUD OFF OF TANKS
3:50	Operational	Other (See comments)							TURN IT OVER TO RIG / CIRCULATE 4 HOURS
	Operational	Other (See comments)							2ND STAGE
7:17	Operational	Other (See comments)			12	2	17.6	50	PLUG RAT & MOUSE HOLE (45 SKS)
7:45	Operational	Other (See comments)			8.4	4.5	20	260	ULTRAFUSH SPACER
7:50	Operational	Other (See comments)			12	4	153	120	390 SKS CMT
8:31	Operational	Other (See comments)							SHUTDOWN / CLEAN LINES / DROP PLUG
8:37	Operational	Other (See comments)							DISPLACEMENT
8:39	Operational	Other (See comments)			8.3	5	10	320	10 BBLS DISPLACEMENT GONE CMT OUT (127.6 SKS - 50 BBLS)
8:41	Operational	Other (See comments)			8.3	5	20	340	20 BBLS
8:43	Operational	Other (See comments)			8.3	5	30	440	30 BBLS
8:45	Operational	Other (See comments)			8.3	5	40	530	40 BBLS
8:47	Operational	Other (See comments)			8.3	5	50	640	50 BBLS
8:50	Operational	Other (See comments)			8.3	2.5	50	640	SLOW RATE



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Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
8:54	Operational	Other (See comments)			8.3	2.5	61	720	BUMP PLUG WITH 720 PSI AND TOOK UP TO 1650 PSI / HOLD FOR 4 MINUTES
8:58	Operational	Other (See comments)							CHECK FLOATS / 0.2 BBLs BACK
9:00	Operational	Other (See comments)							END JOB
9:00	Operational	Other (See comments)							NO ADDITIONAL HRS CHARGED TO CUSTOMER DUE TO 4 HRS OF NPT.
									A TOTAL OF 50 CENTRALIZERS WERE USED, BUT WE WILL ONLY CHARGE THEM FOR 23 CENTRALIZERS GIVING THEM CREDIT FOR \$1511.58 FOR RIG DOWN TIME
9:05	Operational	Other (See comments)							RIG DOWN STEACS BRIEFING
9:15	Operational	Other (See comments)							RIG DOWN
10:15	Operational	Other (See comments)							CREW LEAVE LOCATION