



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Suemaaur Expl & Prod LLC

35 6s 28w Sheridan KS

539 N Carancahua Ste 1100
Corpus Christi TX 78401

Campbell 1-35

Job Ticket: 61221

DST#: 1

ATTN: Bob Petersen

Test Start: 2017.01.13 @ 02:22:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:25:30

Time Test Ended: 11:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3912.00 ft (KB) To 3933.00 ft (KB) (TVD)

Reference Elevations: 2736.00 ft (KB)

Total Depth: 3933.00 ft (KB) (TVD)

2732.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

Serial #: 8372 Outside

Press@RunDepth: 105.93 psig @ 3915.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.13

End Date:

2017.01.13

Last Calib.:

2017.01.13

Start Time: 02:22:02

End Time:

11:08:15

Time On Btm:

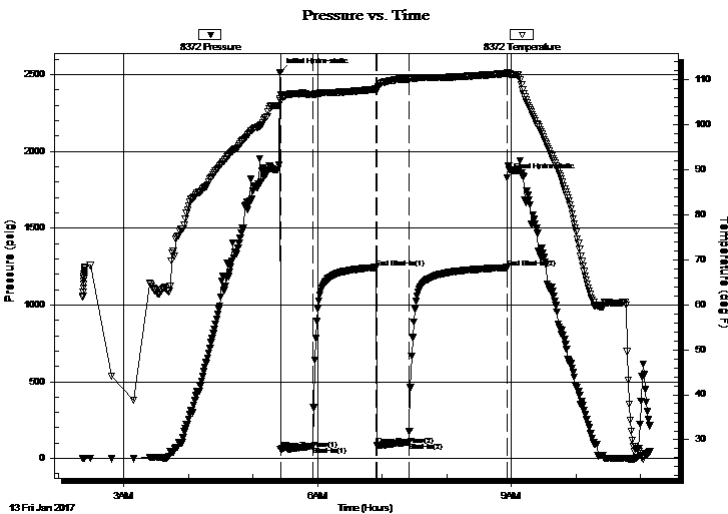
2017.01.13 @ 05:25:15

Time Off Btm:

2017.01.13 @ 08:56:15

TEST COMMENT: 30-IFP- Tool Slide 10ft. 1in. Blow Building to 3 3/4in.
60-ISIP- No Blow
30-FFP- Surface Blow Building to 3in.
90-FSIP- Weak Surface Blow in 3min. Died in 5min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2514.02	105.66	Initial Hydro-static
1	58.82	105.29	Open To Flow (1)
30	80.51	106.70	Shut-In(1)
90	1243.09	107.91	End Shut-In(1)
90	84.17	107.55	Open To Flow (2)
120	105.93	110.17	Shut-In(2)
211	1243.18	111.38	End Shut-In(2)
211	1829.21	111.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 5%o 95%m	0.30
93.00	OCM 20%o 80%m	0.46
31.00	OCM 40%o 60%m	0.15
1.00	CO 100%	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Suemaaur Expl & Prod LLC

35 6s 28w Sheridan KS

539 N Carancahua Ste 1100
Corpus Christi TX 78401

Campbell 1-35

Job Ticket: 61221

DST#: 1

ATTN: Bob Petersen

Test Start: 2017.01.13 @ 02:22:00

Tool Information

Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 63000.00 lb
		Total Volume: 52.90 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3912.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			3885.00	
Shut In Tool	5.00			3890.00	
Hydraulic tool	5.00			3895.00	
Jars	5.00			3900.00	
Safety Joint	2.00			3902.00	
Packer	5.00			3907.00	28.00 Bottom Of Top Packer
Packer	5.00			3912.00	
Stubb	1.00			3913.00	
Perforations	2.00			3915.00	
Recorder	0.00	8789	Inside	3915.00	
Recorder	0.00	8372	Outside	3915.00	
Perforations	15.00			3930.00	
Bullnose	3.00			3933.00	21.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaaur Expl & Prod LLC

35 6s 28w Sheridan KS

539 N Carancahua Ste 1100
Corpus Christi TX 78401

Campbell 1-35

Job Ticket: 61221

DST#: 1

ATTN: Bob Petersen

Test Start: 2017.01.13 @ 02:22:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 8.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	OCM 5%o 95%m	0.305
93.00	OCM 20%o 80%m	0.457
31.00	OCM 40%o 60%m	0.152
1.00	CO 100%	0.014

Total Length: 187.00 ft

Total Volume: 0.928 bbl

Num Fluid Samples: 0

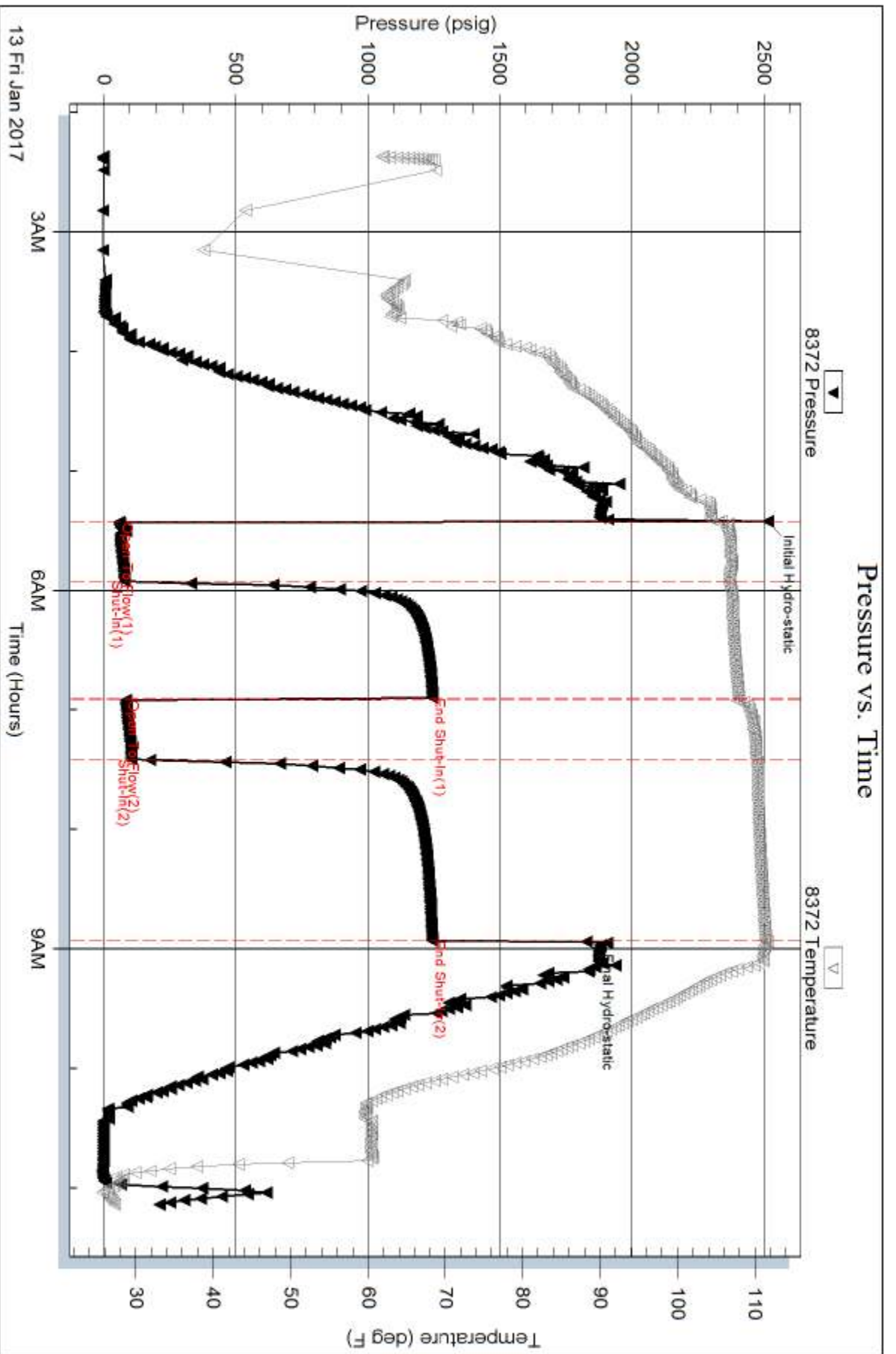
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



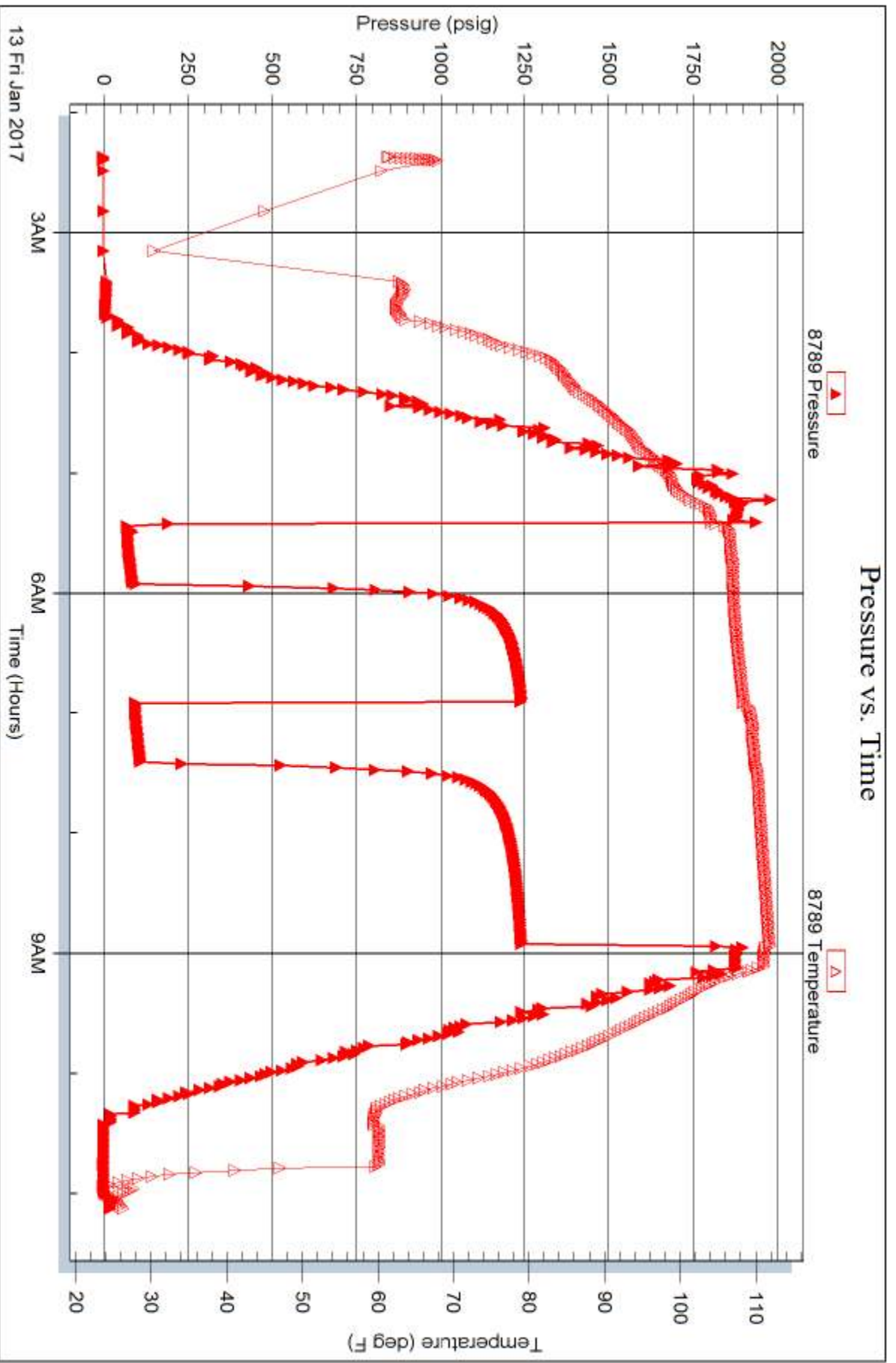
Serial #: 8789

Inside

Suenaur Expl & Prod LLC

Campbell 1-35

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61221

Printed: 2017.01.13 @ 11:25:45



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Suemaour Expl & Prod LLC

35 6s 28w Sheridan KS

539 N Carancahua Ste 1100
Corpus Christi TX 78401

Campbell 1-35

Job Ticket: 61222

DST#: 2

ATTN: Bob Petersen

Test Start: 2017.01.13 @ 23:55:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:04:15

Time Test Ended: 08:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3975.00 ft (KB) To 3992.00 ft (KB) (TVD)

Reference Elevations: 2736.00 ft (KB)

Total Depth: 3992.00 ft (KB) (TVD)

2732.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

Serial #: 8372 Outside

Press@RunDepth: 165.81 psig @ 3979.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.13

End Date:

2017.01.14

Last Calib.:

2017.01.14

Start Time: 23:55:02

End Time:

08:58:15

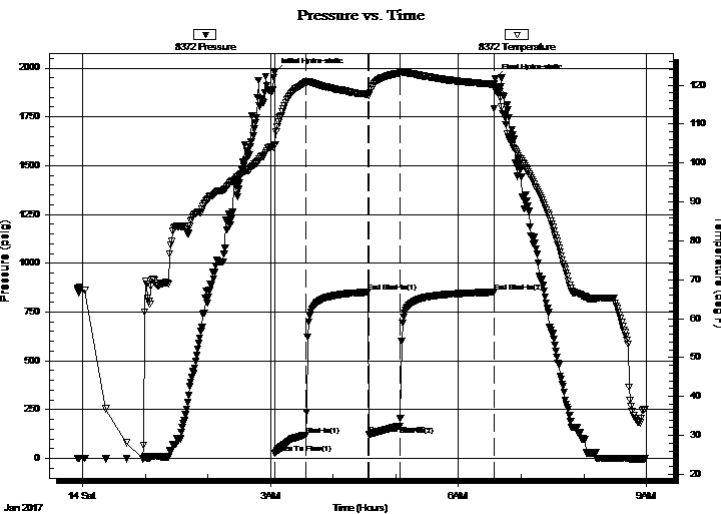
Time On Btm:

2017.01.14 @ 03:03:45

Time Off Btm:

2017.01.14 @ 06:34:45

TEST COMMENT: 30-IFP- BOB in 12min.
60-ISIP- Surface Blow in 1min. Building to 1in. In 12min. Died Back in 20min.
30-FFP- BOB in 15min.
90-FSIP- Surface Blow in 1min. Building to 1 1/4in. In 12min. Died Back in 20min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.47	104.44	Initial Hydro-static
1	25.80	104.65	Open To Flow (1)
30	120.04	120.60	Shut-In(1)
90	850.48	117.63	End Shut-In(1)
91	124.87	117.34	Open To Flow (2)
121	165.81	123.08	Shut-In(2)
210	851.25	120.19	End Shut-In(2)
211	1943.86	119.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
249.00	MCW 5% m 95% w Show of Oil	1.80
10.00	OWCM 10% o 10% w 80% m	0.14
63.00	CO 100%	0.88

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Suemaaur Expl & Prod LLC

35 6s 28w Sheridan KS

539 N Carancahua Ste 1100
Corpus Christi TX 78401

Campbell 1-35

Job Ticket: 61222

DST#: 2

ATTN: Bob Petersen

Test Start: 2017.01.13 @ 23:55:00

Tool Information

Drill Pipe:	Length: 3769.00 ft	Diameter: 3.80 inches	Volume: 52.87 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 53.78 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3975.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	45.00 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			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	2.00			3965.00	
Packer	5.00			3970.00	28.00 Bottom Of Top Packer
Packer	5.00			3975.00	
Stubb	1.00			3976.00	
Perforations	3.00			3979.00	
Recorder	0.00	8789	Inside	3979.00	
Recorder	0.00	8372	Outside	3979.00	
Perforations	10.00			3989.00	
Bullnose	3.00			3992.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaaur Expl & Prod LLC

35 6s 28w Sheridan KS

539 N Carancahua Ste 1100
Corpus Christi TX 78401

Campbell 1-35

Job Ticket: 61222

DST#: 2

ATTN: Bob Petersen

Test Start: 2017.01.13 @ 23:55:00

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:

96000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 8.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
249.00	MCW 5% _m 95% _w Show of Oil	1.798
10.00	OWCM 10% _o 10% _w 80% _m	0.140
63.00	CO 100%	0.884

Total Length: 322.00 ft

Total Volume: 2.822 bbl

Num Fluid Samples: 0

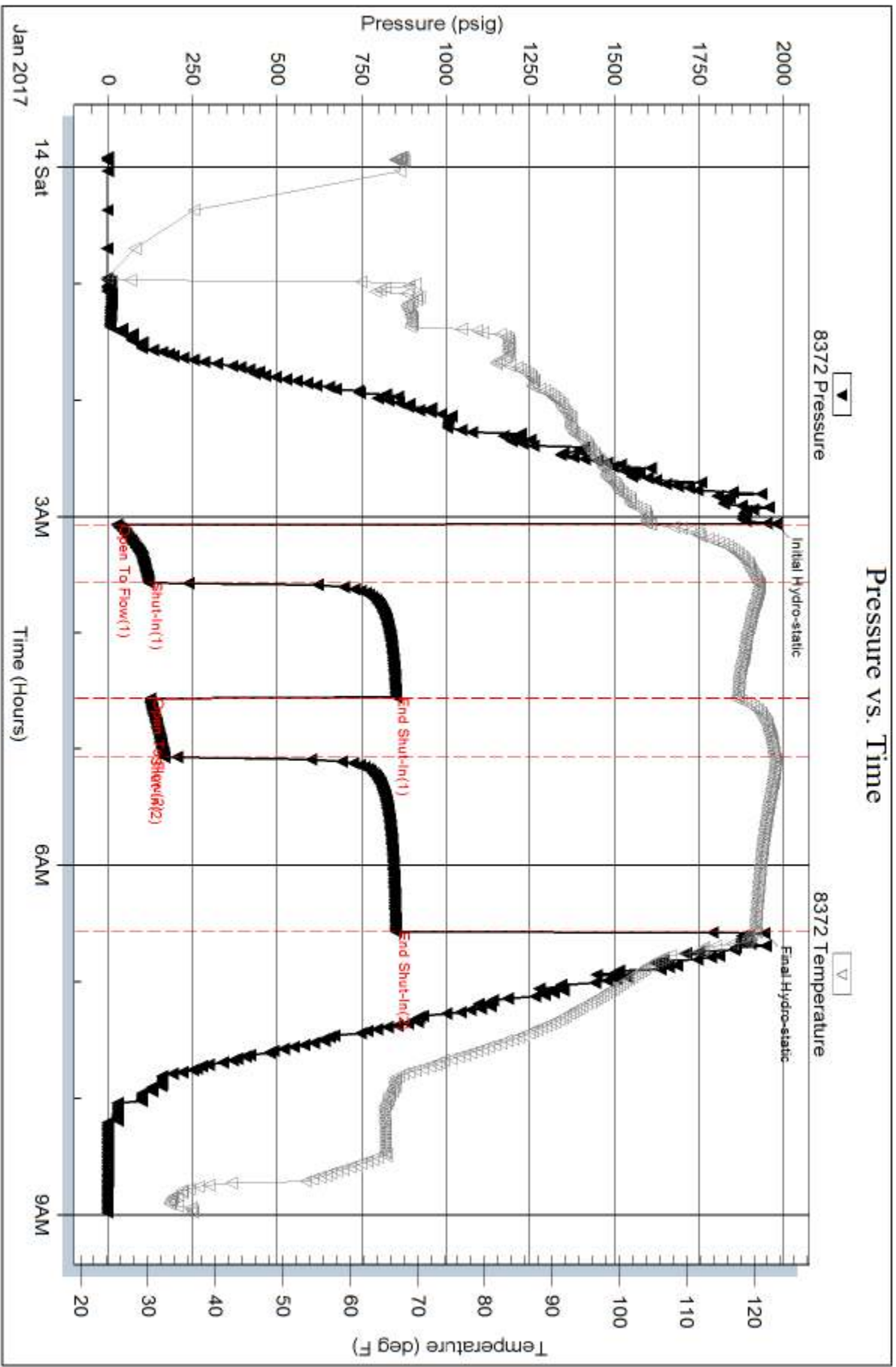
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .222 @ 26



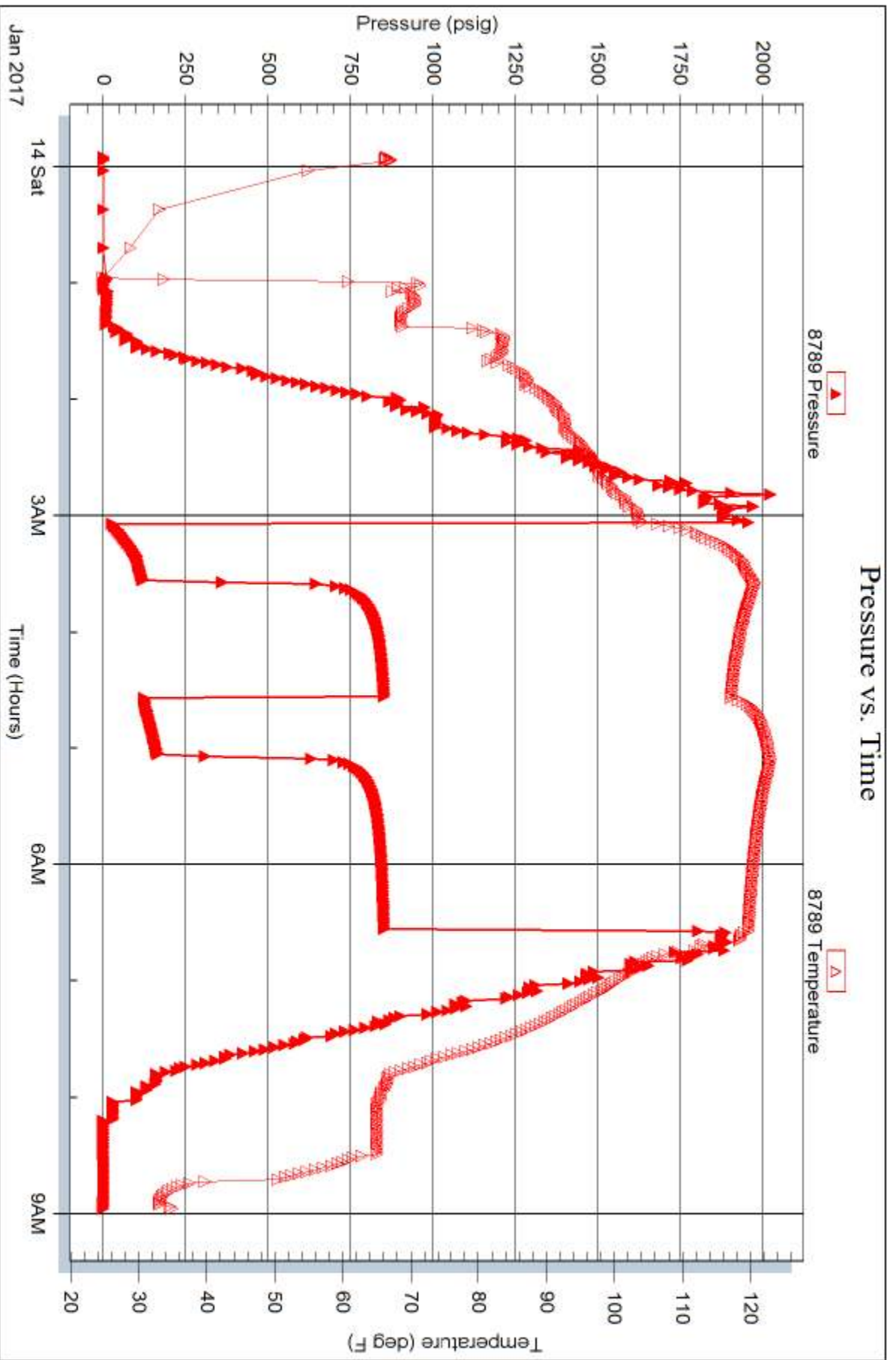
Serial #: 8789

Inside

Suenaur Expl & Prod LLC

Campbell 1-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61222

Printed: 2017.01.14 @ 12:10:44