



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Suema Exploration & Production, LLC

**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65383

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2016.06.23 @ 14:56:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:56:45

Time Test Ended: 22:20:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: **3834.00 ft (KB) To 3888.00 ft (KB) (TVD)**

Reference Elevations: 2713.00 ft (KB)

Total Depth: 3888.00 ft (KB) (TVD)

2708.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 60.44 psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.23

End Date:

2016.06.23

Last Calib.: 1899.12.30

Start Time: 14:56:05

End Time:

22:20:14

Time On Btm: 2016.06.23 @ 16:56:00

Time Off Btm: 2016.06.23 @ 20:30:30

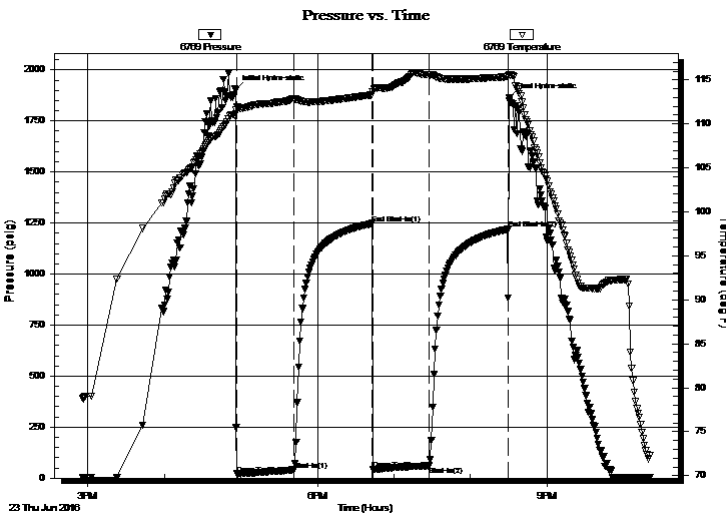
TEST COMMENT: 45 - IF: Blow built slowly to 1 1/4"

60 - IS: No blow back

45 - FF: No blow

60 - FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.67	111.13	Initial Hydro-static
1	20.65	111.97	Open To Flow (1)
46	40.12	112.83	Shut-In(1)
107	1247.22	113.29	End Shut-In(1)
108	43.28	113.62	Open To Flow (2)
152	60.44	115.57	Shut-In(2)
213	1218.92	115.37	End Shut-In(2)
215	1863.20	115.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	0.37

## Gas Rates

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



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**Schroeder #1-35**

Job Ticket: 65383

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2016.06.23 @ 14:56:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:56:45

Time Test Ended: 22:20:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: **3834.00 ft (KB) To 3888.00 ft (KB) (TVD)**

Reference Elevations: 2713.00 ft (KB)

Total Depth: 3888.00 ft (KB) (TVD)

2708.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8366** **Outside**

Press@RunDepth: psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.23 End Date: 2016.06.23

Last Calib.: 2016.06.23

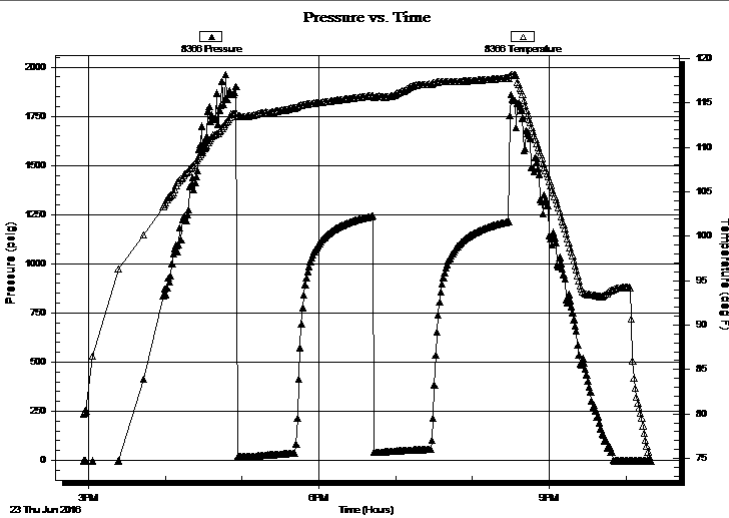
Start Time: 14:56:05 End Time: 22:19:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 45 - IF: Blow built slowly to 1 1/4"  
60 - IS: No blow back  
45 - FF: No blow  
60 - FS: No blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	0.37

## Gas Rates

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



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## FLUID SUMMARY

Suemaor Exploration & Production, LLC

**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65383

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2016.06.23 @ 14:56:00

### 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud 100%	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

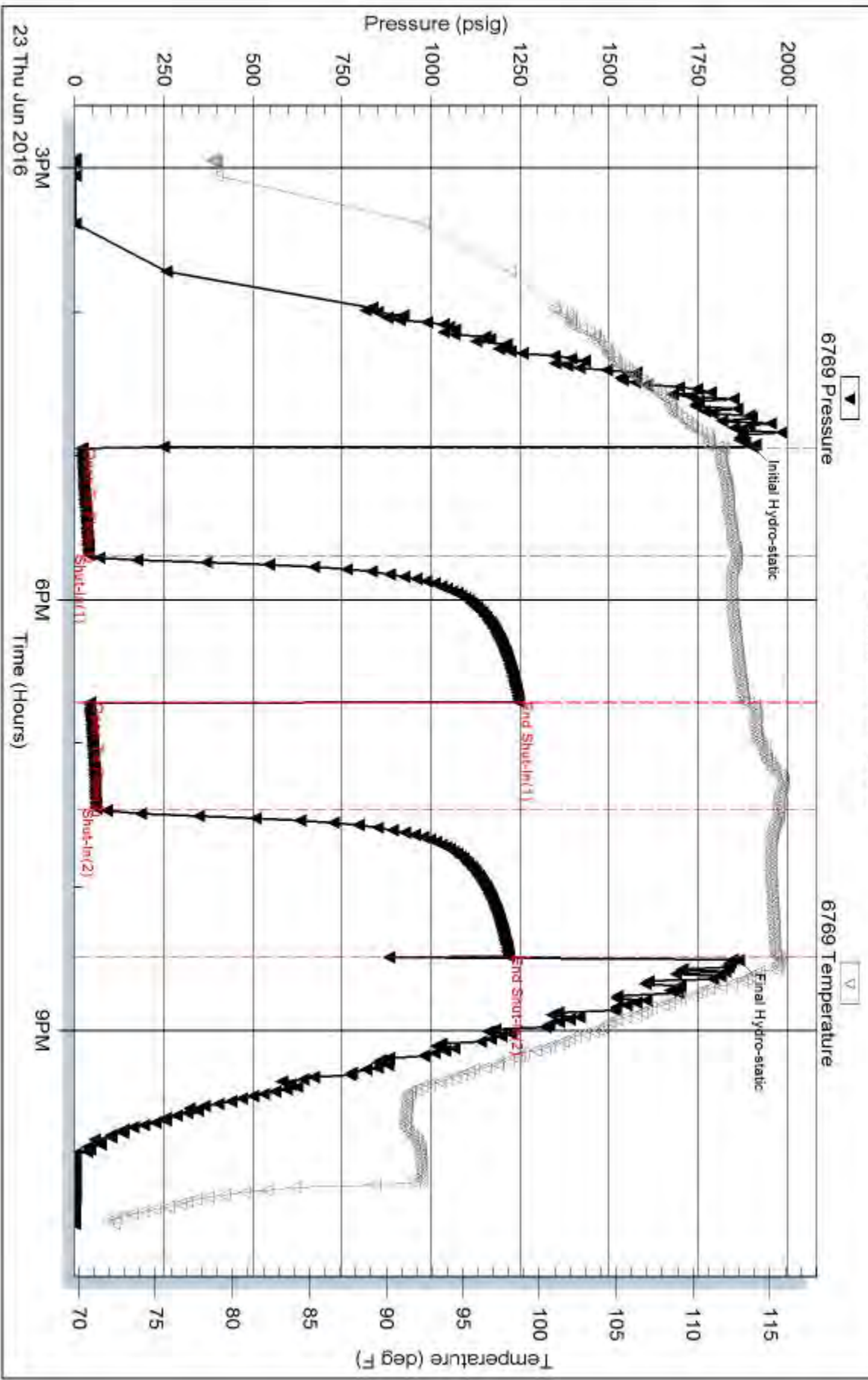
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

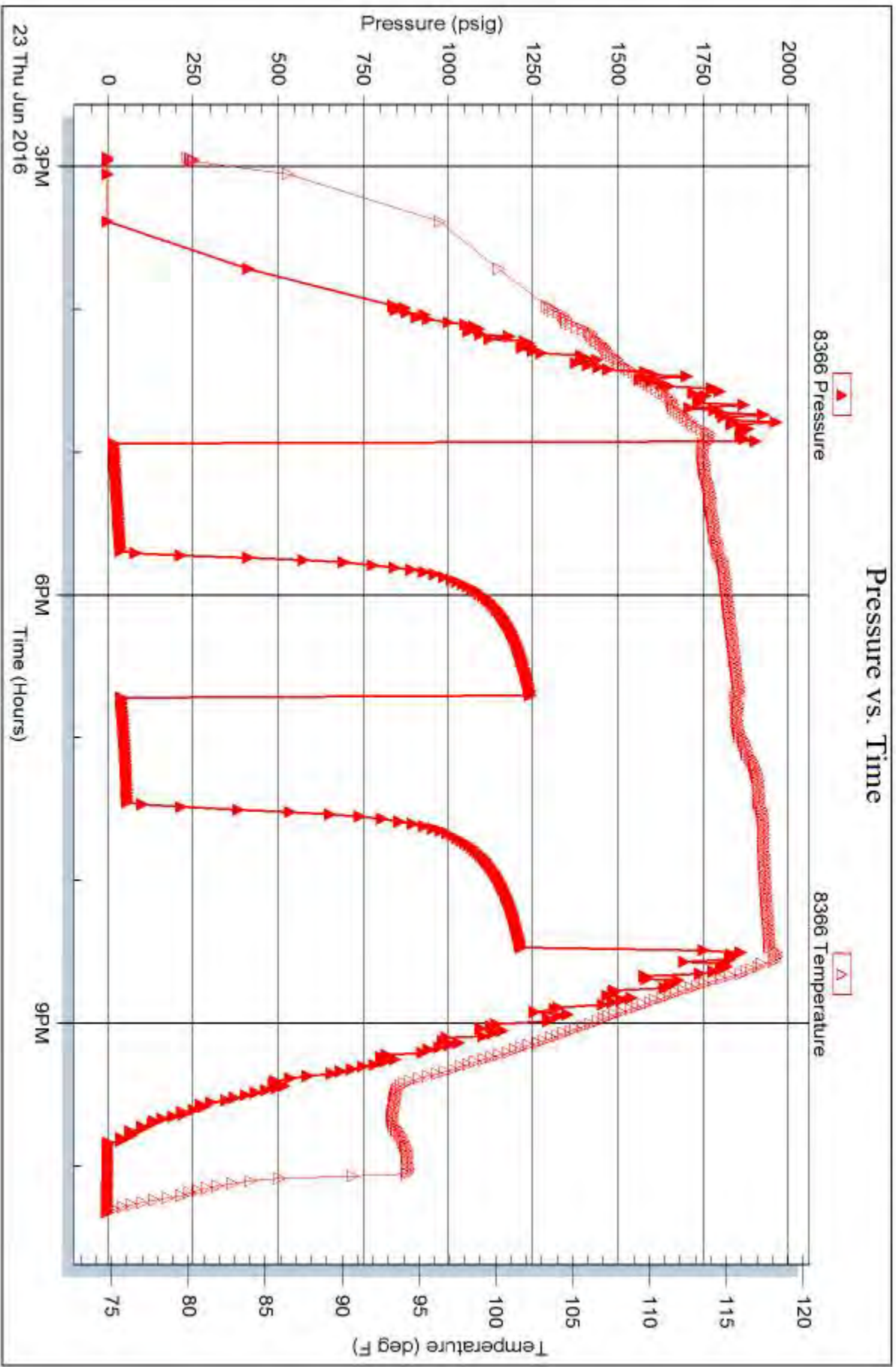


Serial #: 8366

Outside Suenor Exploration & Production, LLC

Schroeder #1-35

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65383

Printed: 2016.06.23 @ 22:49:49



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Suema Exploration & Production, LLC

**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65384

**DST#: 2**

ATTN: Bob Peterson

Test Start: 2016.06.24 @ 05:53:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:46:30

Time Test Ended: 13:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3890.00 ft (KB) To 3914.00 ft (KB) (TVD)**

Reference Elevations: 2713.00 ft (KB)

Total Depth: 3914.00 ft (KB) (TVD)

2708.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 414.35 psig @ 3891.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.24

End Date:

2016.06.24

Last Calib.:

2016.06.24

Start Time: 05:53:05

End Time:

13:50:59

Time On Btm:

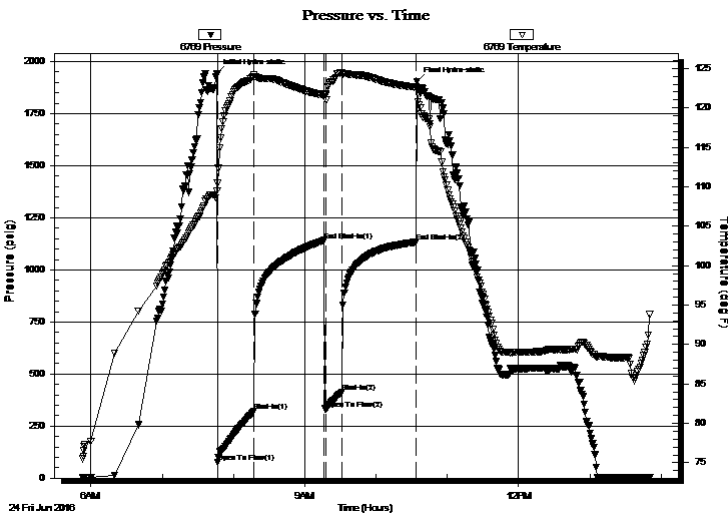
2016.06.24 @ 07:46:15

Time Off Btm:

2016.06.24 @ 10:34:15

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 2 1/4 min.  
60 - IS: Blow back built to BOB at 18 min.  
15 - FF: Blow built to BOB at 3 1/2 min.  
60 - FS: Blow back built to BOB at 30 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.17	109.46	Initial Hydro-static
1	76.74	110.42	Open To Flow (1)
31	320.87	124.15	Shut-In(1)
91	1142.03	121.59	End Shut-In(1)
92	332.03	121.59	Open To Flow (2)
106	414.35	124.41	Shut-In(2)
168	1132.91	122.61	End Shut-In(2)
168	1904.45	122.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWOCM 40% m, 30% o, 15% w, 15% g	0.30
62.00	GOCM 58% m, 22% o, 20% g	0.30
891.00	Rev out - Smpls @ 5,10,13,20,25 min.	11.93
0.00	13 - 25 min. MCO 72% o, 26% m, 2% g	0.00
0.00	5 - 10 min. CGO 76% o, 23% g, 1% m	0.00
50.00	CO 91% o, 9% g	0.70

\* Recovery from multiple tests

## Gas Rates

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



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539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65384

**DST#: 2**

ATTN: Bob Peterson

Test Start: 2016.06.24 @ 05:53:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GWOCM 40% <i>m</i> , 30% <i>o</i> , 15% <i>w</i> , 15% <i>g</i>	0.305
62.00	GOCM 58% <i>m</i> , 22% <i>o</i> , 20% <i>g</i>	0.305
891.00	Rev out - Smpls @ 5,10,13,20,25 min.	11.934
0.00	13 - 25 min. MCO 72% <i>o</i> , 26% <i>m</i> , 2% <i>g</i>	0.000
0.00	5 - 10 min. CGO 76% <i>o</i> , 23% <i>g</i> , 1% <i>m</i>	0.000
50.00	CO 91% <i>o</i> , 9% <i>g</i>	0.701
0.00	GIP = 325'	0.000

Total Length: 1065.00 ft      Total Volume: 13.245 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

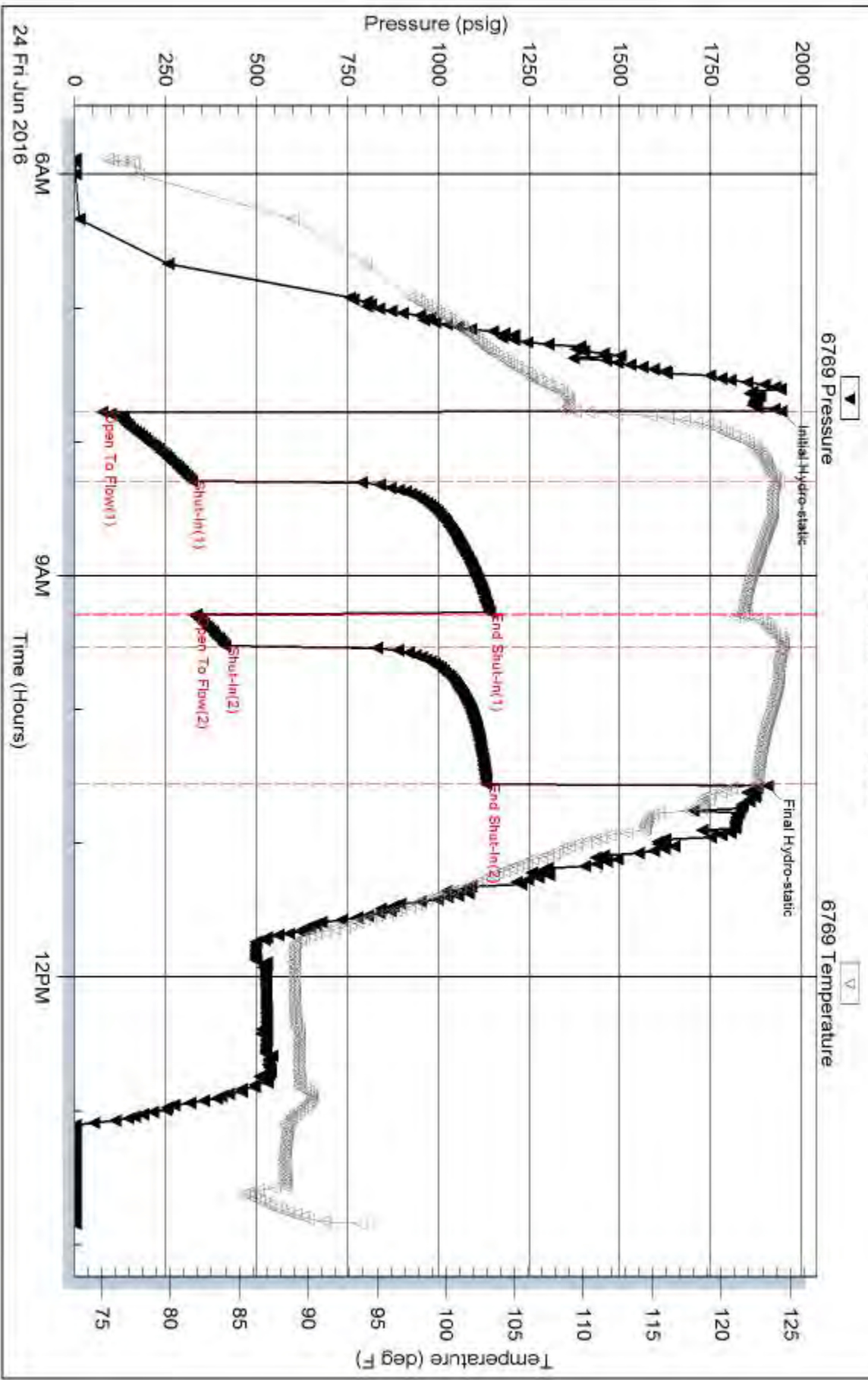
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 36.2 api @ 100 deg F Corrected Gravity = 32.2

Rev out around 10 bbl total fluid - Roughly 8 bbl at 13 min. when it changed from CO to MCO

### Pressure vs. Time







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**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

ATTN: Bob Peterson

Job Ticket: 65385

**DST#: 3**

Test Start: 2016.06.24 @ 21:40:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:30

Time Test Ended: 06:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3954.00 ft (KB) To 3969.00 ft (KB) (TVD)**

Reference Elevations: 2713.00 ft (KB)

Total Depth: 3969.00 ft (KB) (TVD)

2708.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6769**

**Inside**

Press @ Run Depth: 156.86 psig @ 3955.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.24

End Date:

2016.06.25

Last Calib.:

2016.06.25

Start Time: 21:40:05

End Time:

06:19:00

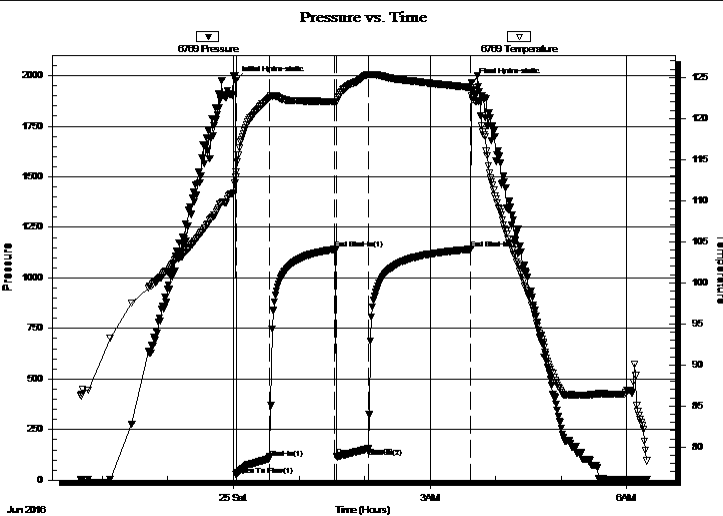
Time On Btm:

2016.06.25 @ 00:02:15

Time Off Btm:

2016.06.25 @ 03:38:15

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 8 1/2 min.  
60 - IS: Blow back built to 5"  
30 - FF: Blow built to BOB at 11 min.  
90 - FS: Blow back built to BOB at 45 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1975.28	112.91	Initial Hydro-static
1	25.70	113.53	Open To Flow (1)
31	106.91	122.55	Shut-In(1)
91	1141.63	122.00	End Shut-In(1)
92	117.54	121.89	Open To Flow (2)
122	156.86	125.33	Shut-In(2)
215	1141.81	123.75	End Shut-In(2)
216	1964.55	122.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SW/GOCM 41% <sub>m</sub> , 32% <sub>o</sub> , 24% <sub>g</sub> , 3% <sub>w</sub>	0.30
62.00	GOM 38% <sub>m</sub> , 36% <sub>o</sub> , 25% <sub>g</sub>	0.30
258.00	CGO 85% <sub>o</sub> , 15% <sub>g</sub>	3.05
0.00	GIP = 755'	0.00

## Gas Rates

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

\* Recovery from multiple tests



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539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65385

**DST#: 3**

ATTN: Bob Peterson

Test Start: 2016.06.24 @ 21:40:00

### GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:30

Time Test Ended: 06:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3954.00 ft (KB) To 3969.00 ft (KB) (TVD)**

Total Depth: 3969.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2713.00 ft (KB)

2708.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8366 Outside**

Press@RunDepth: psig @ 3955.00 ft (KB)

Start Date: 2016.06.24

End Date:

2016.06.25

Start Time: 21:40:05

End Time:

06:18:30

Capacity: 8000.00 psig

Last Calib.:

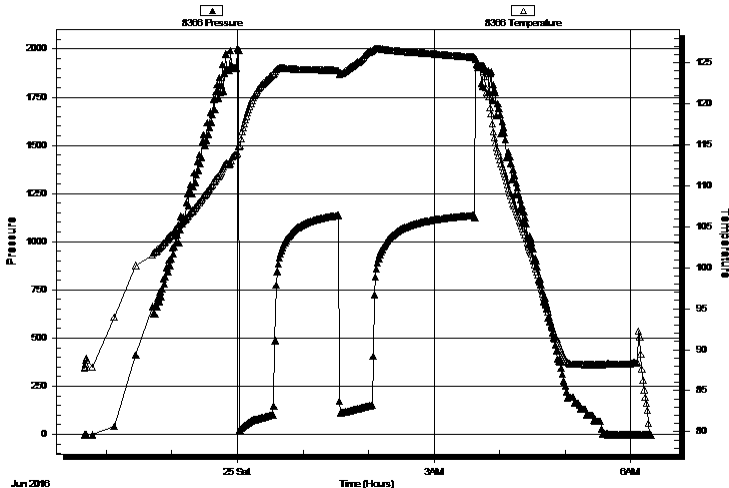
2016.06.25

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 8 1/2 min.  
60 - IS: Blow back built to 5"  
30 - FF: Blow built to BOB at 11 min.  
90 - FS: Blow back built to BOB at 45 min.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
62.00	SW/GOCM 41% <i>m</i> , 32% <i>o</i> , 24% <i>g</i> , 3% <i>w</i>	0.30
62.00	GOM 38% <i>m</i> , 36% <i>o</i> , 25% <i>g</i>	0.30
258.00	CGO 85% <i>o</i> , 15% <i>g</i>	3.05
0.00	GIP = 755'	0.00

### Gas Rates

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

\* Recovery from multiple tests



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**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65385

**DST#: 3**

ATTN: Bob Peterson

Test Start: 2016.06.24 @ 21:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	SW/GOCM 41%m, 32%o, 24%g, 3%w	0.305
62.00	GOM 38%m, 36%o, 25%g	0.305
258.00	CGO 85%o, 15%g	3.054
0.00	GIP = 755'	0.000

Total Length: 382.00 ft      Total Volume: 3.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

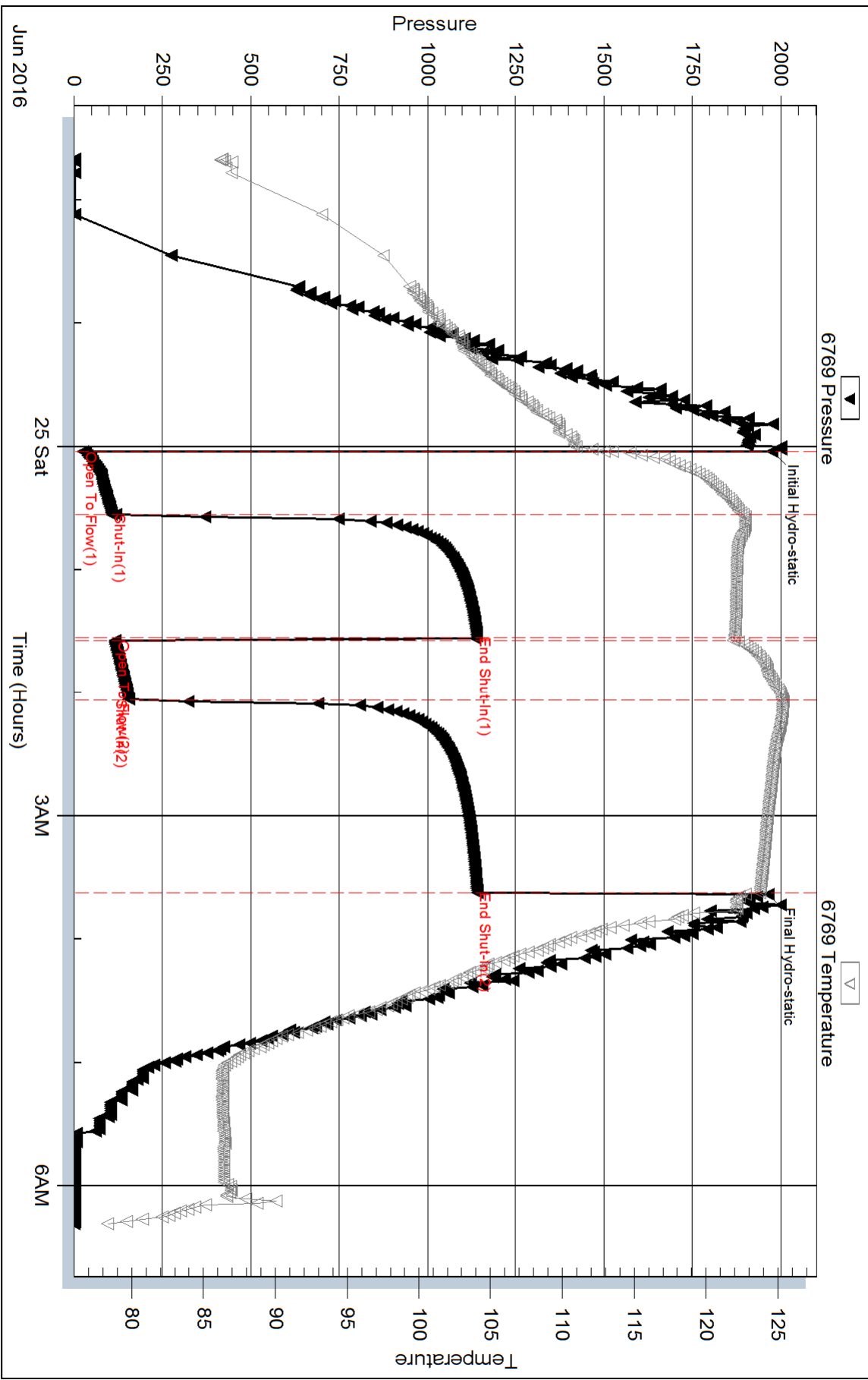
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 38 api @ 76 deg F

Corrected Gravity = 36.4 api

### Pressure vs. Time

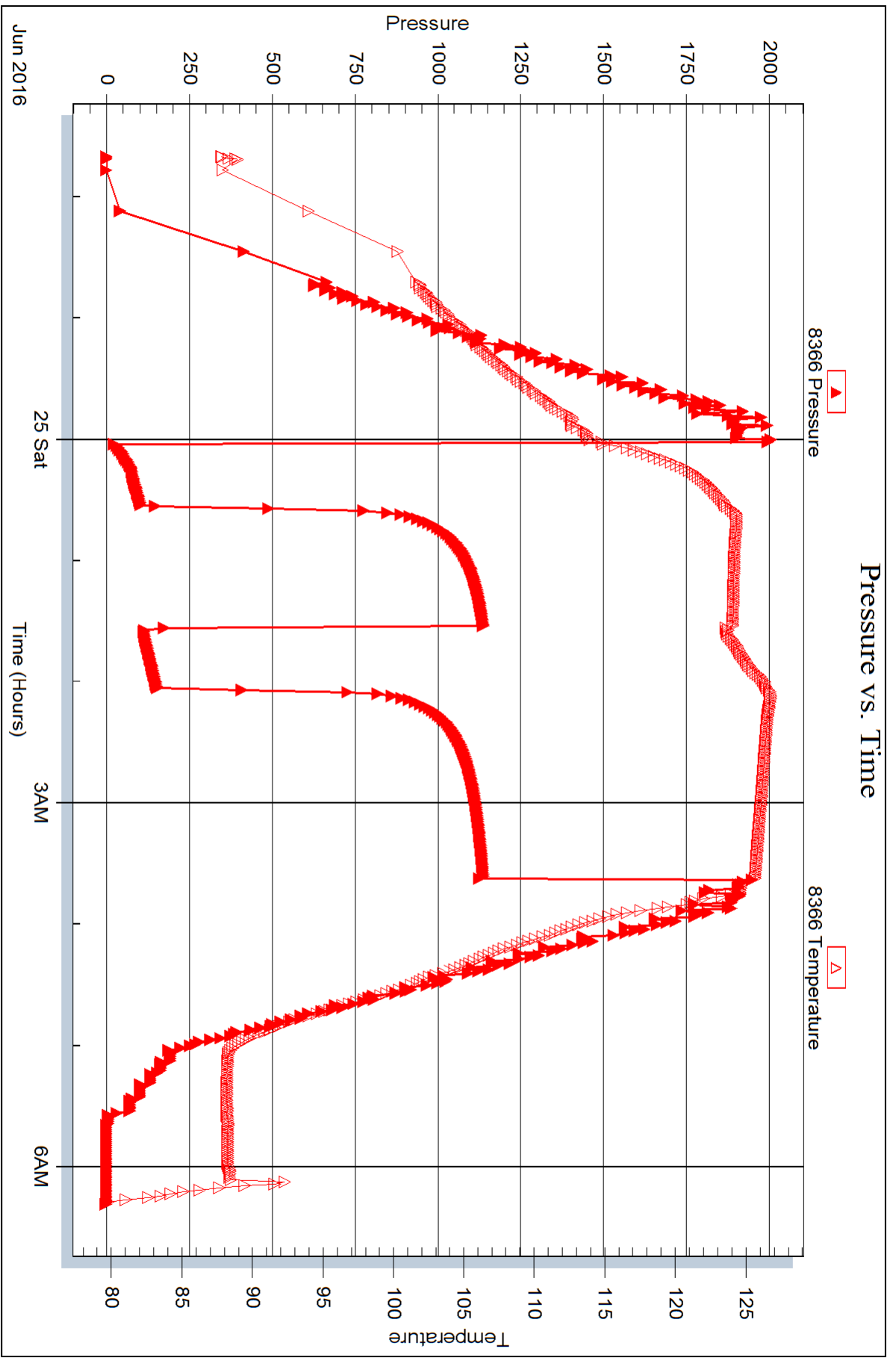


Serial #: 8366

Outside Suemaur Exploration & Production, LLC

Schroeder #1-35

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65385

Printed: 2016.06.25 @ 07:05:44



**TRILOBITE  
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# DRILL STEM TEST REPORT

Suemaor Exploration & Production, LLC

**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65386

**DST#: 4**

ATTN: Bob Peterson

Test Start: 2016.06.25 @ 12:45:00

## GENERAL INFORMATION:

Formation: **LKC Lower "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:35:15

Time Test Ended: 19:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3973.00 ft (KB) To 3989.00 ft (KB) (TVD)**

Reference Elevations: 2713.00 ft (KB)

Total Depth: 3989.00 ft (KB) (TVD)

2708.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 637.87 psig @ 3974.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.25

End Date:

2016.06.25

Last Calib.:

2016.06.25

Start Time:

12:45:05

End Time:

19:06:14

Time On Btm:

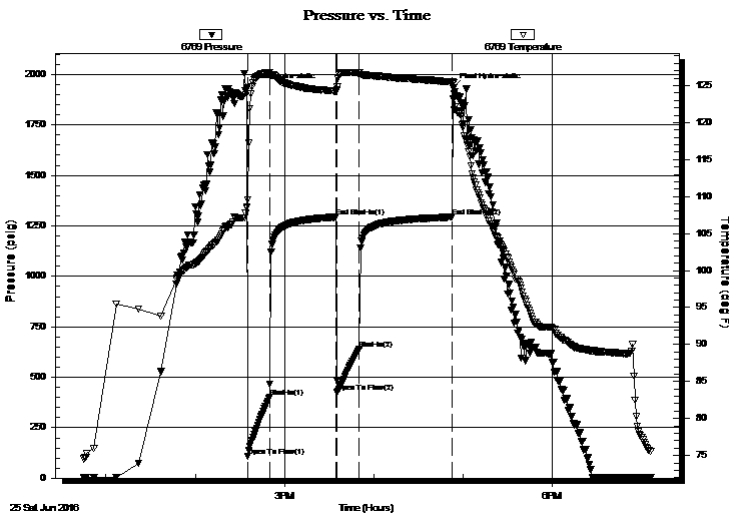
2016.06.25 @ 14:34:45

Time Off Btm:

2016.06.25 @ 16:53:30

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 1 3/4 min.  
45 - IS: Blow back built to just over 1"  
15 - FF: Blow built to BOB at 2 min.  
60 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.87	108.57	Initial Hydro-static
1	108.59	109.53	Open To Flow (1)
16	401.64	126.75	Shut-In(1)
60	1293.71	124.26	End Shut-In(1)
61	425.37	124.81	Open To Flow (2)
76	637.87	126.69	Shut-In(2)
138	1293.71	125.51	End Shut-In(2)
139	1933.64	125.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1135.00	Water 98%w , 2%m	14.23
200.00	MCW w/trace oil 73%w , 27%m	2.81
0.00	GIP = 50'	0.00

\* Recovery from multiple tests

## Gas Rates

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



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**35/6s/28w Sheridan, KS**

539 N. Carancahua STE 1100  
Corpus Christi, TX 78401

**Schroeder #1-35**

Job Ticket: 65386

**DST#: 4**

ATTN: Bob Peterson

Test Start: 2016.06.25 @ 12:45:00

## 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:

11500 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1135.00	Water 98%w , 2%m	14.227
200.00	MCW w /trace oil 73%w , 27%m	2.805
0.00	GIP = 50'	0.000

Total Length: 1335.00 ft      Total Volume: 17.032 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .521 ohms @ 77.9 deg F

Chlorides = 11,500 ppm

H2S gas in water - my meter went off 2 times while I was on the floor 16ppm, and 27 ppm - had a decent breeze blowing across floor towards the pits

### Pressure vs. Time

