



## DRILL STEM TEST REPORT

Prepared For: **Suemaar Exploration & Production LLC**

802 N Carancahua  
Corpus Christi TX 78401

ATTN: Bob Petersen

### **Schroeder #1**

#### **26 6S 28W Sheridan KS**

Start Date: 2015.12.12 @ 21:30:00

End Date: 2015.12.13 @ 06:11:30

Job Ticket #: 64967                      DST #: 1

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

Printed: 2015.12.17 @ 16:23:32



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suema Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64967

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2015.12.12 @ 21:30:00

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:30

Time Test Ended: 06:11:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Robert Zodrow

Unit No: 72

**Interval: 3798.00 ft (KB) To 3817.00 ft (KB) (TVD)**

Reference Elevations: 2733.00 ft (KB)

Total Depth: 3817.00 ft (KB) (TVD)

2728.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 71.65 psig @ 3799.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.12

End Date:

2015.12.13

Last Calib.: 2015.12.13

Start Time: 21:30:05

End Time:

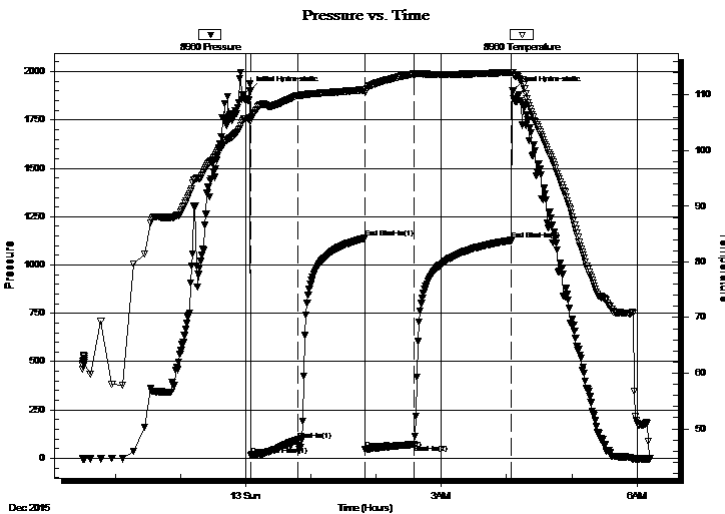
06:11:30

Time On Btm: 2015.12.13 @ 00:04:00

Time Off Btm: 2015.12.13 @ 04:05:30

**TEST COMMENT:** 45-IS- Blow built to 4"  
60-IS- No return  
45-FF- Blow built to 2 1/4"  
90-FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.06	105.85	Initial Hydro-static
1	15.17	105.47	Open To Flow (1)
44	95.36	109.93	Shut-In(1)
106	1138.77	110.94	End Shut-In(1)
106	47.39	110.56	Open To Flow (2)
151	71.65	113.76	Shut-In(2)
241	1127.60	114.07	End Shut-In(2)
242	1899.59	114.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10%M 90%W	0.30
30.00	OCM 1%O 99%M	0.15

## Gas Rates

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



# DRILL STEM TEST REPORT

Suemaar Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64967

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2015.12.12 @ 21:30:00

### GENERAL INFORMATION:

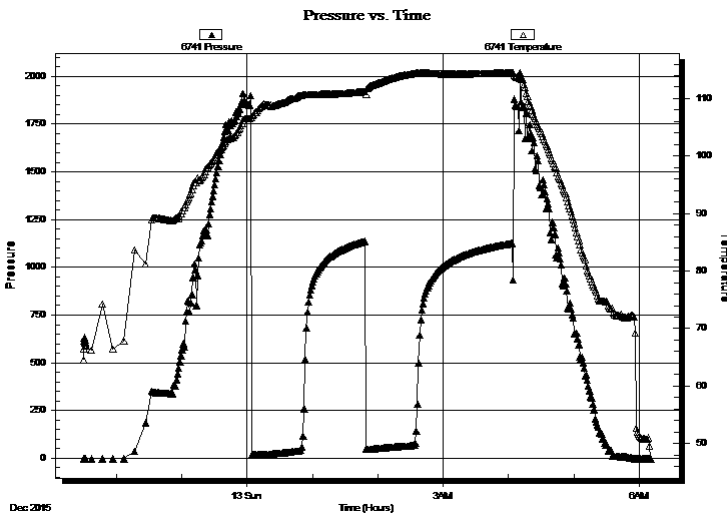
Formation: **Oread**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:04:30  
 Tester: Robert Zodrow  
 Time Test Ended: 06:11:30  
 Unit No: 72  
 Interval: **3798.00 ft (KB) To 3817.00 ft (KB) (TVD)**  
 Reference Elevations: 2733.00 ft (KB)  
 Total Depth: 3817.00 ft (KB) (TVD)  
 2728.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

**Serial #: 6741**

**Inside**

Press@RunDepth: psig @ 3799.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.12 End Date: 2015.12.13 Last Calib.: 2015.12.13  
 Start Time: 21:30:05 End Time: 06:11:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 45-IF- Blow built to 4"  
 60-ISI- No return  
 45-FF- Blow built to 2 1/4"  
 90-FSI- No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10%M 90%W	0.30
30.00	OCM 1%O 99%M	0.15

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64967

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2015.12.12 @ 21:30:00

## Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 51.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3798.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3776.00	
Hydraulic tool	5.00			3781.00	
Jars	5.00			3786.00	
Safety Joint	3.00			3789.00	
Packer	5.00			3794.00	27.00 Bottom Of Top Packer
Packer	4.00			3798.00	
Stubb	1.00			3799.00	
Recorder	0.00	6741	Inside	3799.00	
Recorder	0.00	8960	Outside	3799.00	
Perforations	15.00			3814.00	
Bullnose	3.00			3817.00	19.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64967

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2015.12.12 @ 21:30:00

### 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:

20000 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MW 10%M 90%W	0.295
30.00	OCM 1%O 99%M	0.148

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

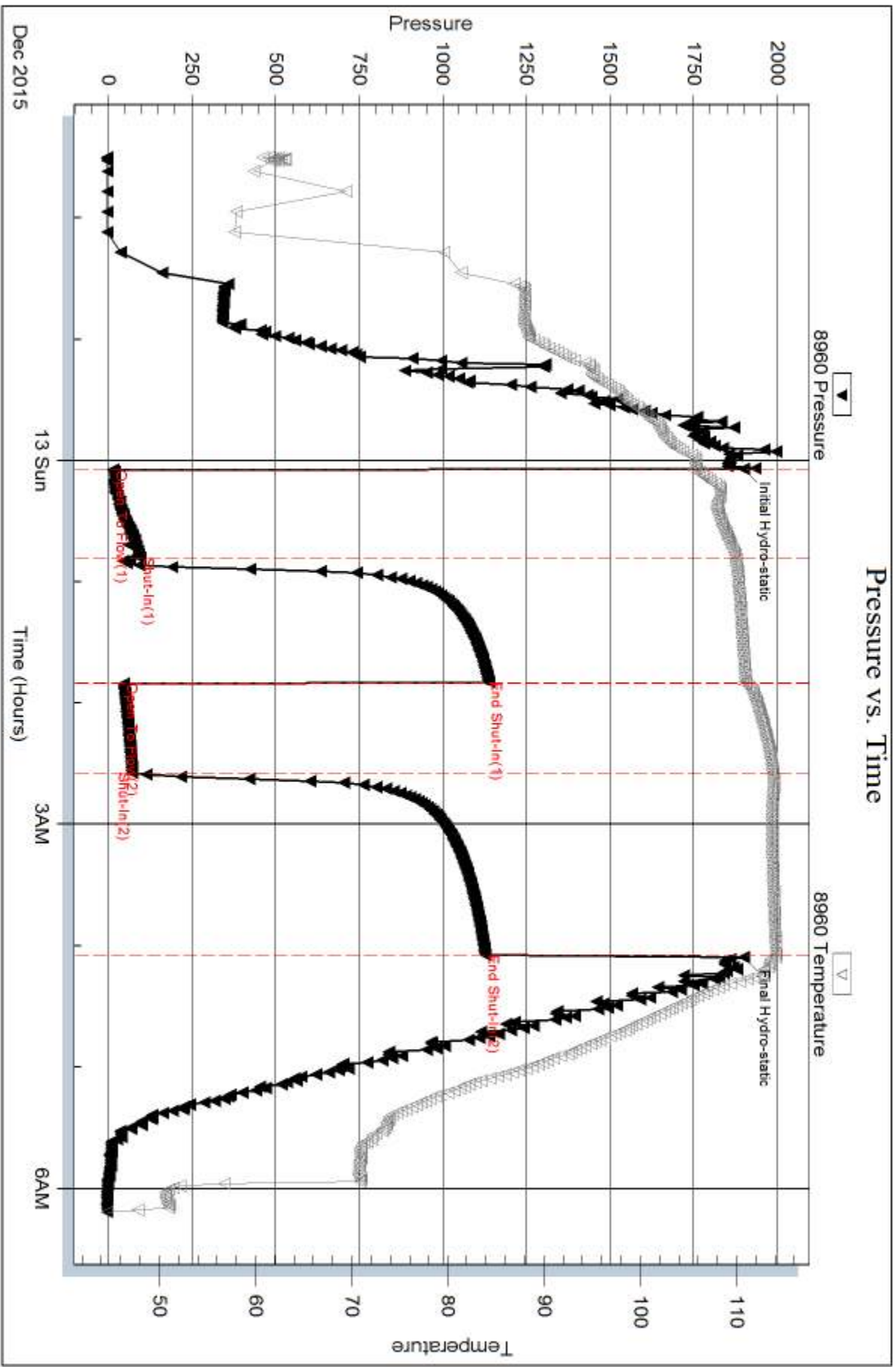
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .670 @ 36 Deg = 20000



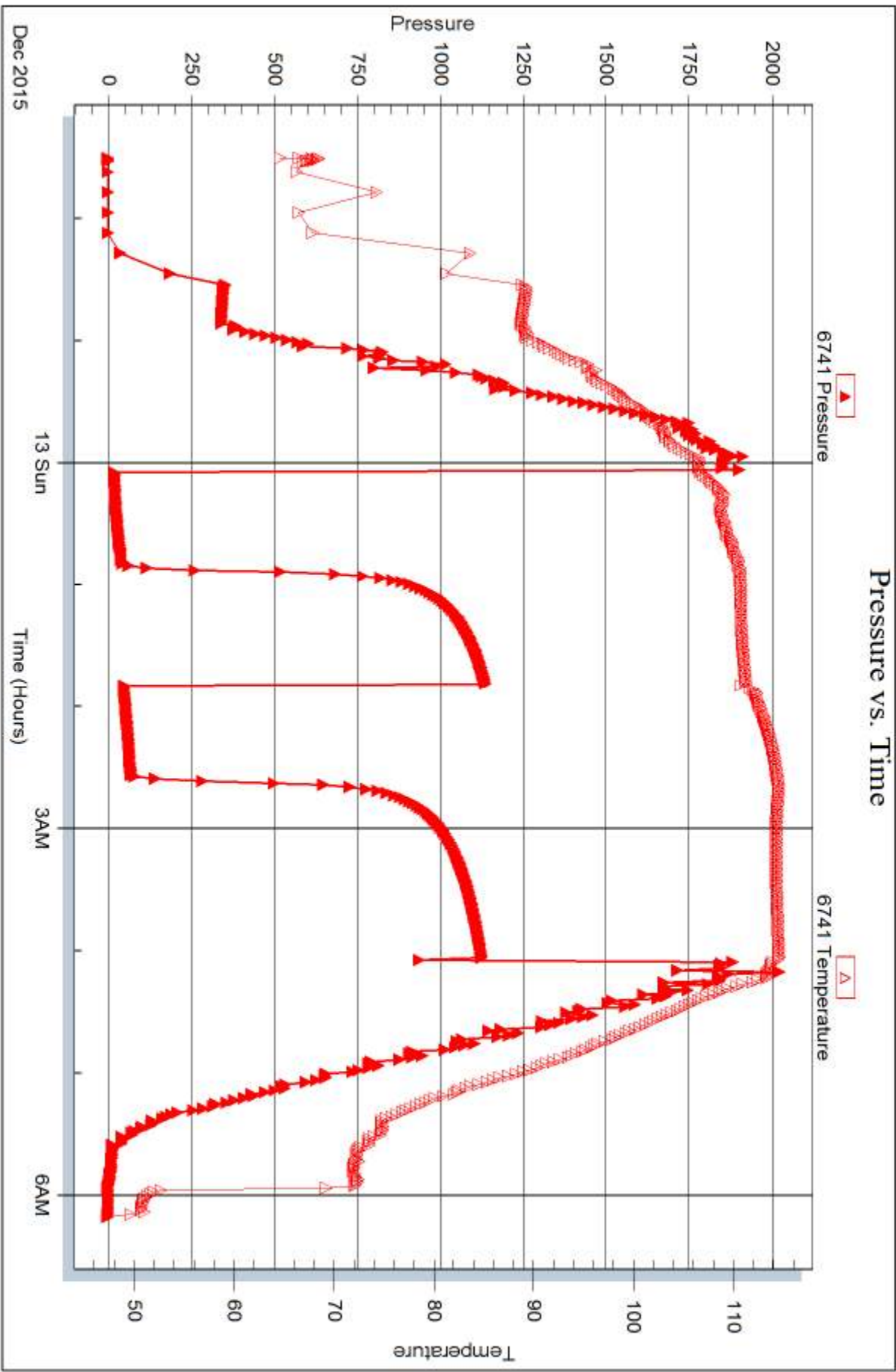
Serial #: 6741

Inside

Suenor Exploration & Production LLC

Schroeder #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64967

Printed: 2015.12.17 @ 16:23:34



## DRILL STEM TEST REPORT

Prepared For: **Suemaar Exploration & Production LLC**

802 N Carancahua  
Corpus Christi TX 78401

ATTN: Bob Petersen

### **Schroeder #1**

#### **26 6S 28W Sheridan KS**

Start Date: 2015.12.13 @ 17:10:00

End Date: 2015.12.14 @ 02:09:30

Job Ticket #: 64969                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.12.17 @ 16:23:11





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaour Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64969

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2015.12.13 @ 17:10:00

## GENERAL INFORMATION:

Formation: **Toronto & LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:47:00

Time Test Ended: 02:09:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 72

**Interval: 3845.00 ft (KB) To 3902.00 ft (KB) (TVD)**

Reference Elevations: 2733.00 ft (KB)

Total Depth: 3902.00 ft (KB) (TVD)

2728.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 80.65 psig @ 3846.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.13

End Date:

2015.12.14

Last Calib.: 2015.12.14

Start Time: 17:10:05

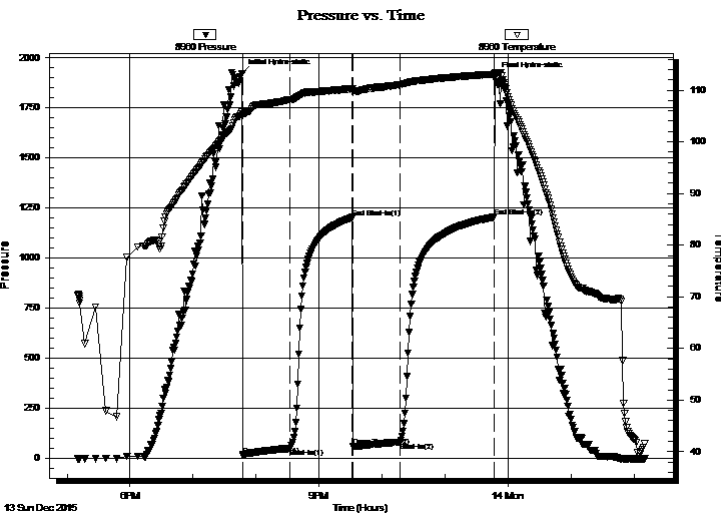
End Time:

02:09:30

Time On Btm: 2015.12.13 @ 19:46:30

Time Off Btm: 2015.12.13 @ 23:47:30

**TEST COMMENT:** 45-IF- Blow built to 6 1/2"  
60-IS- Surface blow started in 30 mins died in 40 mins  
45-FF- Blow built to 6"  
90-FS- Surface blow started in 25 mins died in 45 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.06	105.73	Initial Hydro-static
1	16.10	105.00	Open To Flow (1)
46	50.99	108.05	Shut-In(1)
105	1203.39	110.34	End Shut-In(1)
106	61.34	109.63	Open To Flow (2)
151	80.65	111.12	Shut-In(2)
240	1205.17	113.08	End Shut-In(2)
241	1907.73	113.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 20%G 30%M 50%O	0.30
130.00	GO 45%G 55%O	0.67

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64969

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2015.12.13 @ 17:10:00

## GENERAL INFORMATION:

Formation: **Toronto & LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:47:00

Time Test Ended: 02:09:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 72

**Interval: 3845.00 ft (KB) To 3902.00 ft (KB) (TVD)**

Total Depth: 3902.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2733.00 ft (KB)

2728.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741 Inside**

Press@RunDepth: psig @ 3846.00 ft (KB)

Start Date: 2015.12.13

End Date: 2015.12.14

Start Time: 17:10:05

End Time: 02:09:30

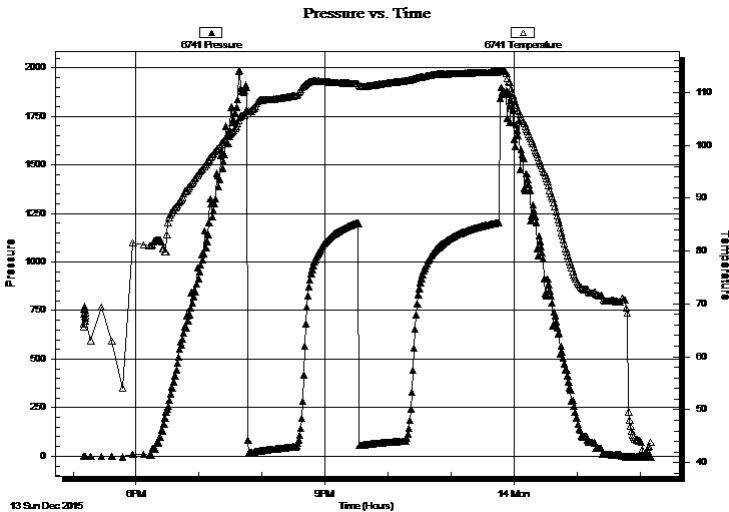
Capacity: 8000.00 psig

Last Calib.: 2015.12.14

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IF- Blow built to 6 1/2"  
60-IS- Surface blow started in 30 mins died in 40 mins  
45-FF- Blow built to 6"  
90-FS- Surface blow started in 25 mins died in 45 mins



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 20%G 30%M 50%O	0.30
130.00	GO 45%G 55%O	0.67

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaour Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64969

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2015.12.13 @ 17:10:00

## Tool Information

Drill Pipe:	Length: 3646.00 ft	Diameter: 3.80 inches	Volume: 51.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 52.06 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3845.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3823.00	
Hydraulic tool	5.00			3828.00	
Jars	5.00			3833.00	
Safety Joint	3.00			3836.00	
Packer	5.00			3841.00	27.00 Bottom Of Top Packer
Packer	4.00			3845.00	
Stubb	1.00			3846.00	
Recorder	0.00	6741	Inside	3846.00	
Recorder	0.00	8960	Outside	3846.00	
Perforations	20.00			3866.00	
Change Over Sub	1.00			3867.00	
Drill Pipe	31.00			3898.00	
Change Over Sub	1.00			3899.00	
Bullnose	3.00			3902.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64969

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2015.12.13 @ 17:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 629.00 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: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 20%G 30%M 50%O	0.295
130.00	GO 45%G 55%O	0.667

Total Length: 190.00 ft      Total Volume: 0.962 bbl

Num Fluid Samples: 0

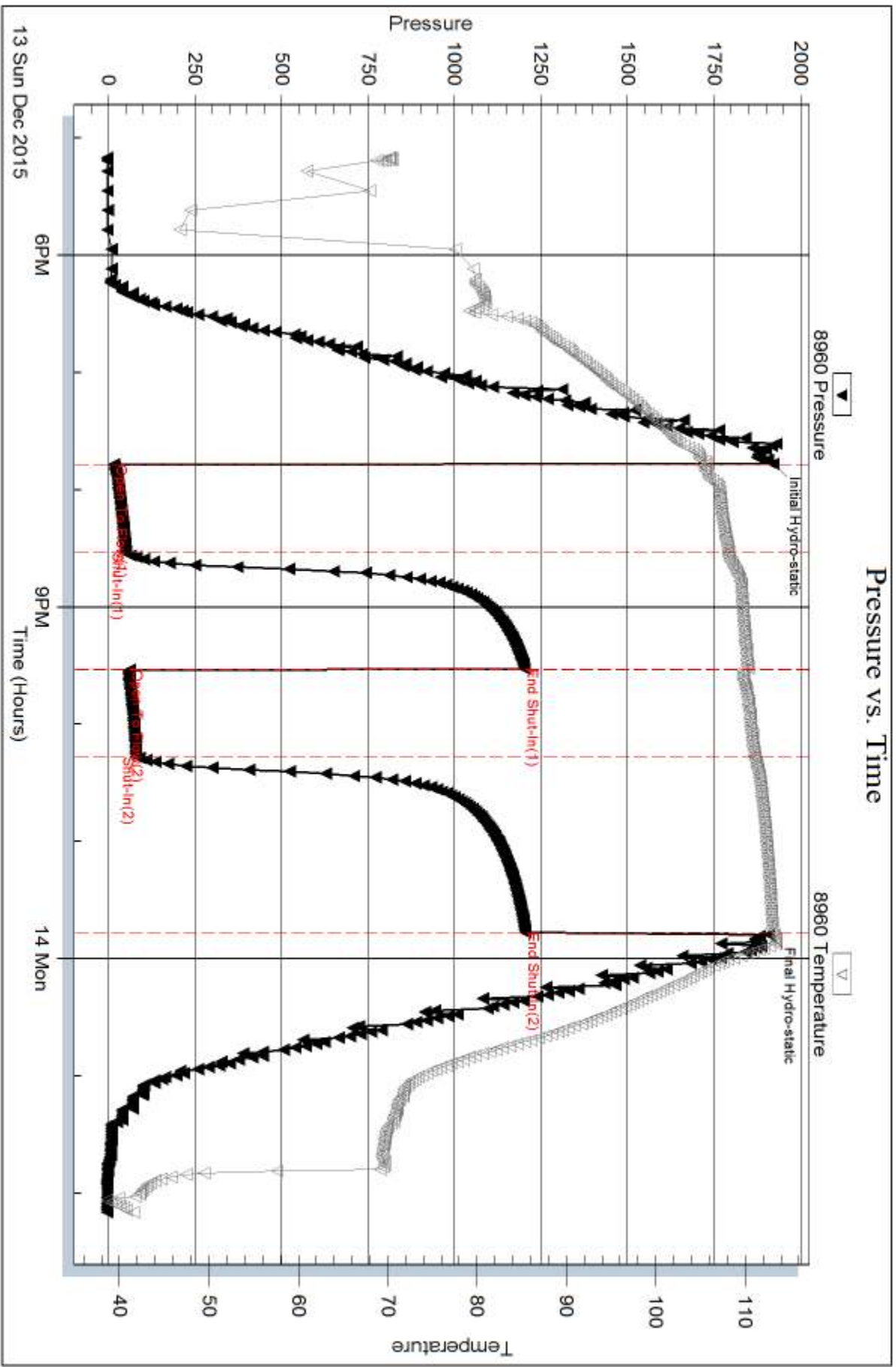
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



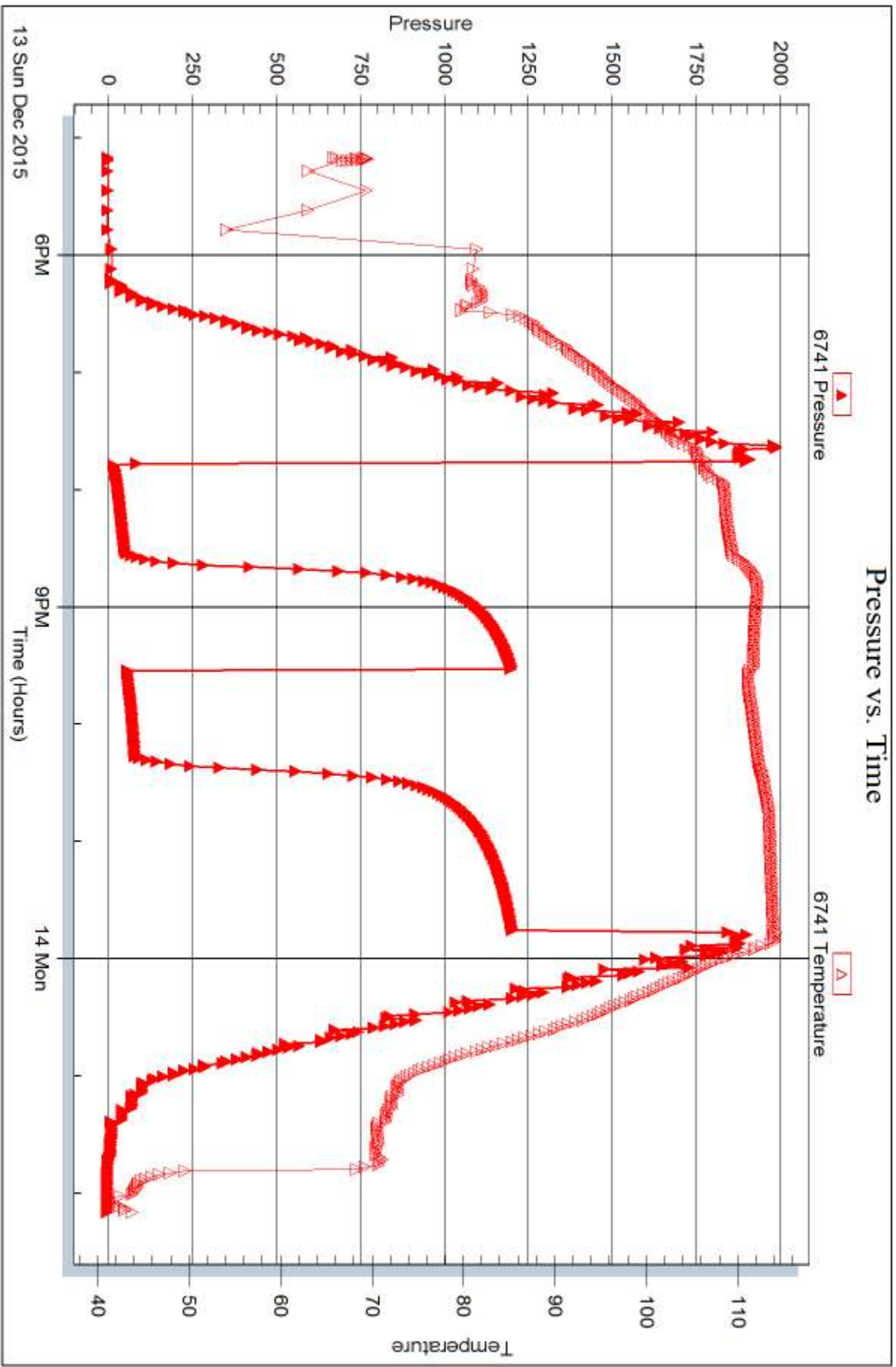
Serial #: 6741

Inside

Suenaar Exploration & Production LLC

Schroeder #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64969

Printed: 2015.12.17 @ 16:23:13



## DRILL STEM TEST REPORT

Prepared For: **Suemaar Exploration & Production LLC**

802 N Carancahua  
Corpus Christi TX 78401

ATTN: Bob Petersen

### **Schroeder #1**

#### **26 6S 28W Sheridan KS**

Start Date: 2015.12.14 @ 09:30:00

End Date: 2015.12.14 @ 17:19:00

Job Ticket #: 64970                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.12.17 @ 16:22:50



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suema Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64970

**DST#: 3**

ATTN: Bob Petersen

Test Start: 2015.12.14 @ 09:30:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:30:00

Time Test Ended: 17:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 72

**Interval: 3902.00 ft (KB) To 3926.00 ft (KB) (TVD)**

Reference Elevations: 2733.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2728.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 120.86 psig @ 3903.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.14

End Date:

2015.12.14

Last Calib.: 2015.12.14

Start Time: 09:30:05

End Time:

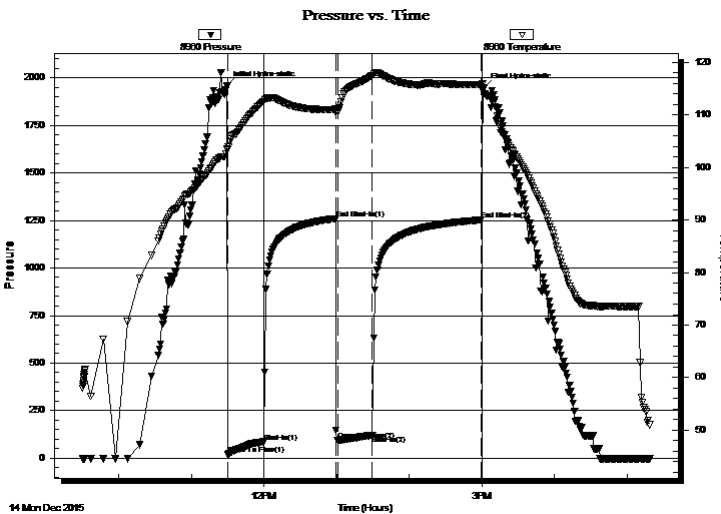
17:18:59

Time On Btm: 2015.12.14 @ 11:29:30

Time Off Btm: 2015.12.14 @ 15:01:30

**TEST COMMENT:** 30-IF- Bob in 12 mins  
60-ISI- Return built to 1 1/4"  
30-FF- Bob in 18 mins  
90-FSI- Return built to 1" died in 40 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.31	103.57	Initial Hydro-static
1	21.00	103.42	Open To Flow (1)
30	85.87	112.54	Shut-In(1)
90	1259.77	111.08	End Shut-In(1)
91	95.31	110.79	Open To Flow (2)
120	120.86	117.50	Shut-In(2)
210	1252.79	115.80	End Shut-In(2)
212	1946.38	115.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 10%G 35%O 55%M	0.30
240.00	GO 15%G 85%O	2.21
0.00	GIP 95'	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64970

**DST#: 3**

ATTN: Bob Petersen

Test Start: 2015.12.14 @ 09:30:00

## GENERAL INFORMATION:

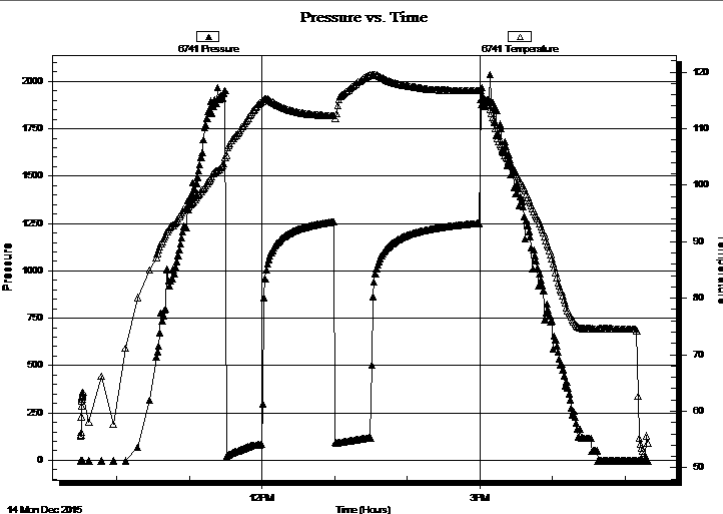
<b>Formation:</b> <b>LKC "C"</b>			
<b>Deviated:</b> No Whipstock:	ft (KB)	<b>Test Type:</b> Conventional Bottom Hole (Reset)	
<b>Time Tool Opened:</b> 11:30:00		<b>Tester:</b> Robert Zodrow	
<b>Time Test Ended:</b> 17:19:00		<b>Unit No:</b> 72	
<b>Interval:</b> <b>3902.00 ft (KB) To 3926.00 ft (KB) (TVD)</b>		<b>Reference Elevations:</b>	2733.00 ft (KB)
<b>Total Depth:</b> 3926.00 ft (KB) (TVD)			2728.00 ft (CF)
<b>Hole Diameter:</b> 7.88 inches	<b>Hole Condition:</b> Fair	<b>KB to GR/CF:</b>	5.00 ft

## Serial #: 6741

Inside

<b>Press@RunDepth:</b>	psig @	3903.00 ft (KB)	<b>Capacity:</b>	8000.00 psig
<b>Start Date:</b>	2015.12.14	<b>End Date:</b>	2015.12.14	<b>Last Calib.:</b> 2015.12.14
<b>Start Time:</b>	09:30:05	<b>End Time:</b>	17:18:59	<b>Time On Btm:</b>
				<b>Time Off Btm:</b>

**TEST COMMENT:** 30-IF- Bob in 12 mins  
60-ISI- Return built to 1 1/4"  
30-FF- Bob in 18 mins  
90-FSI- Return built to 1" died in 40 mins



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 10%G 35%O 55%M	0.30
240.00	GO 15%G 85%O	2.21
0.00	GIP 95'	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaour Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64970

**DST#: 3**

ATTN: Bob Petersen

Test Start: 2015.12.14 @ 09:30:00

## Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.80 inches	Volume: 51.97 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.89 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3902.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3880.00	
Hydraulic tool	5.00			3885.00	
Jars	5.00			3890.00	
Safety Joint	3.00			3893.00	
Packer	5.00			3898.00	27.00 Bottom Of Top Packer
Packer	4.00			3902.00	
Stubb	1.00			3903.00	
Recorder	0.00	6741	Inside	3903.00	
Recorder	0.00	8960	Outside	3903.00	
Perforations	20.00			3923.00	
Bullnose	3.00			3926.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64970

**DST#: 3**

ATTN: Bob Petersen

Test Start: 2015.12.14 @ 09:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 10%G 35%O 55%M	0.295
240.00	GO 15%G 85%O	2.210
0.00	GIP 95'	0.000

Total Length: 300.00 ft      Total Volume: 2.505 bbl

Num Fluid Samples: 0

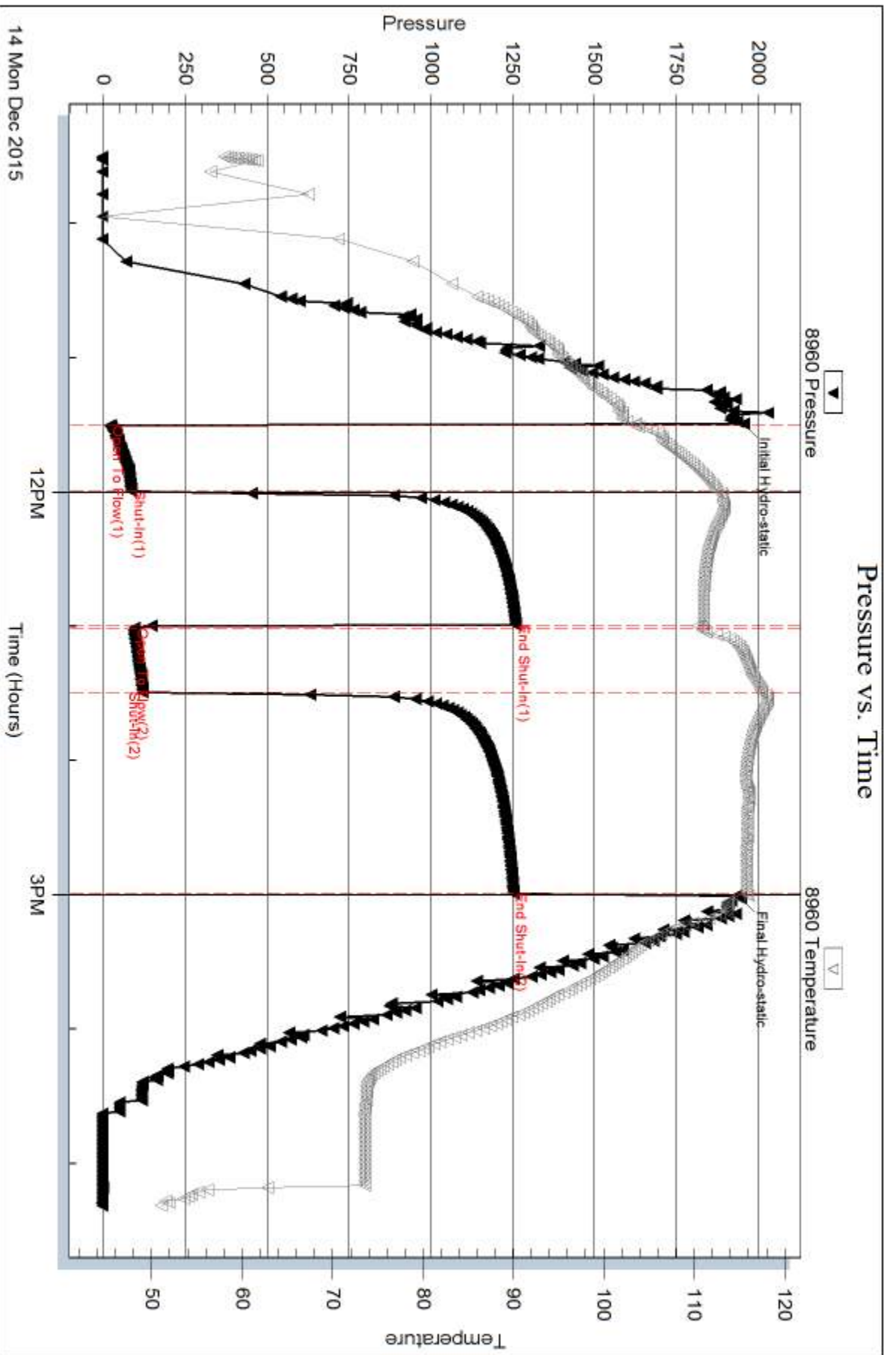
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



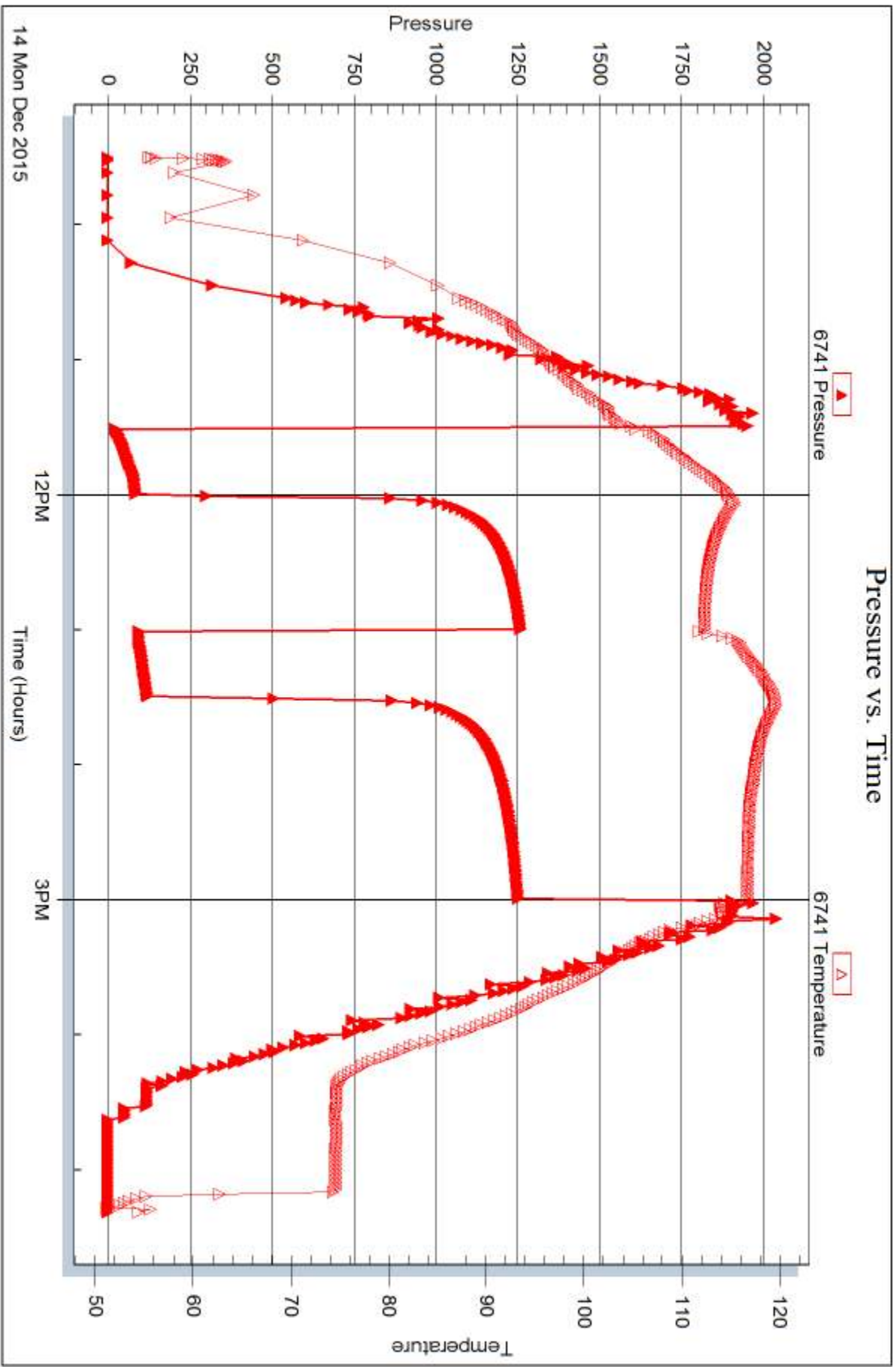
Serial #: 6741

Inside

Suenaur Exploration & Production LLC

Schroeder #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64970

Printed: 2015.12.17 @ 16:22:51



## DRILL STEM TEST REPORT

Prepared For: **Suemaar Exploration & Production LLC**

802 N Carancahua  
Corpus Christi TX 78401

ATTN: Bob Petersen

### **Schroeder #1**

#### **26 6S 28W Sheridan KS**

Start Date: 2015.12.15 @ 03:20:00

End Date: 2015.12.15 @ 10:42:30

Job Ticket #: 64971                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.12.17 @ 16:22:22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaour Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64971

**DST#: 4**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 03:20:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:30

Time Test Ended: 10:42:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 72

**Interval: 3966.00 ft (KB) To 3982.00 ft (KB) (TVD)**

Reference Elevations: 2733.00 ft (KB)

Total Depth: 3982.00 ft (KB) (TVD)

2728.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 99.47 psig @ 3967.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.15 End Date: 2015.12.15

Last Calib.: 2015.12.15

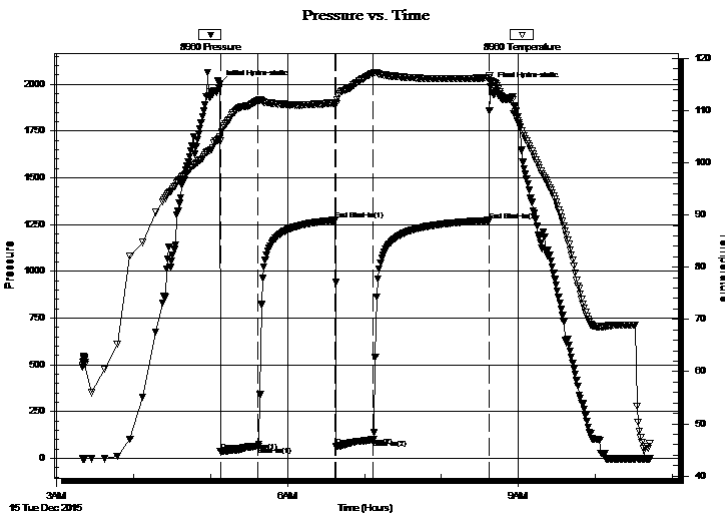
Start Time: 03:20:05 End Time: 10:42:29

Time On Btm: 2015.12.15 @ 05:07:00

Time Off Btm: 2015.12.15 @ 08:38:30

**TEST COMMENT:** 30-IS- Bob in 25 mins  
60-IS- Return built to 1/4" died back to surface  
30-FF- Bob in 20 mins  
90-FS- Return built to 1" died in 52 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.35	104.87	Initial Hydro-static
1	35.28	104.29	Open To Flow (1)
30	65.07	111.91	Shut-In(1)
90	1272.81	111.41	End Shut-In(1)
91	65.26	111.37	Open To Flow (2)
120	99.47	117.14	Shut-In(2)
210	1272.00	116.24	End Shut-In(2)
212	1985.82	115.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 15%G 20%O 65%M	0.30
140.00	GO 25%G 75%O	0.81
0.00	GIP 190'	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaor Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64971

**DST#: 4**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 03:20:00

## GENERAL INFORMATION:

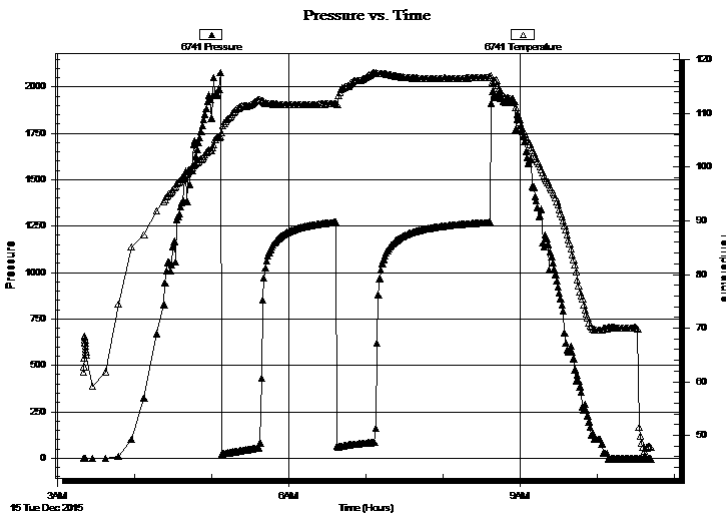
Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 05:07:30 Tester: Robert Zodrow  
 Time Test Ended: 10:42:30 Unit No: 72  
 Interval: **3966.00 ft (KB) To 3982.00 ft (KB) (TVD)** Reference Elevations: 2733.00 ft (KB)  
 Total Depth: 3982.00 ft (KB) (TVD) 2728.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

## Serial #: 6741

Inside

Press@RunDepth: psig @ 3967.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.15 End Date: 2015.12.15 Last Calib.: 2015.12.15  
 Start Time: 03:20:05 End Time: 10:41:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IF- Bob in 25 mins  
 60-ISI- Return built to 1/4" died back to surface  
 30-FF- Bob in 20 mins  
 90-FSI- Return built to 1" died in 52 mins



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 15%G 20%O 65%M	0.30
140.00	GO 25%G 75%O	0.81
0.00	GIP 190'	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaour Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64971

**DST#: 4**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 03:20:00

## Tool Information

Drill Pipe:	Length: 3768.00 ft	Diameter: 3.80 inches	Volume: 52.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 53.78 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3966.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3944.00	
Hydraulic tool	5.00			3949.00	
Jars	5.00			3954.00	
Safety Joint	3.00			3957.00	
Packer	5.00			3962.00	27.00 Bottom Of Top Packer
Packer	4.00			3966.00	
Stubb	1.00			3967.00	
Recorder	0.00	6741	Inside	3967.00	
Recorder	0.00	8960	Outside	3967.00	
Perforations	16.00			3983.00	
Bullnose	3.00			3986.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64971

**DST#: 4**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 03:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOCM 15%G 20%O 65%M	0.295
140.00	GO 25%G 75%O	0.807
0.00	GIP 190'	0.000

Total Length: 200.00 ft      Total Volume: 1.102 bbl

Num Fluid Samples: 0

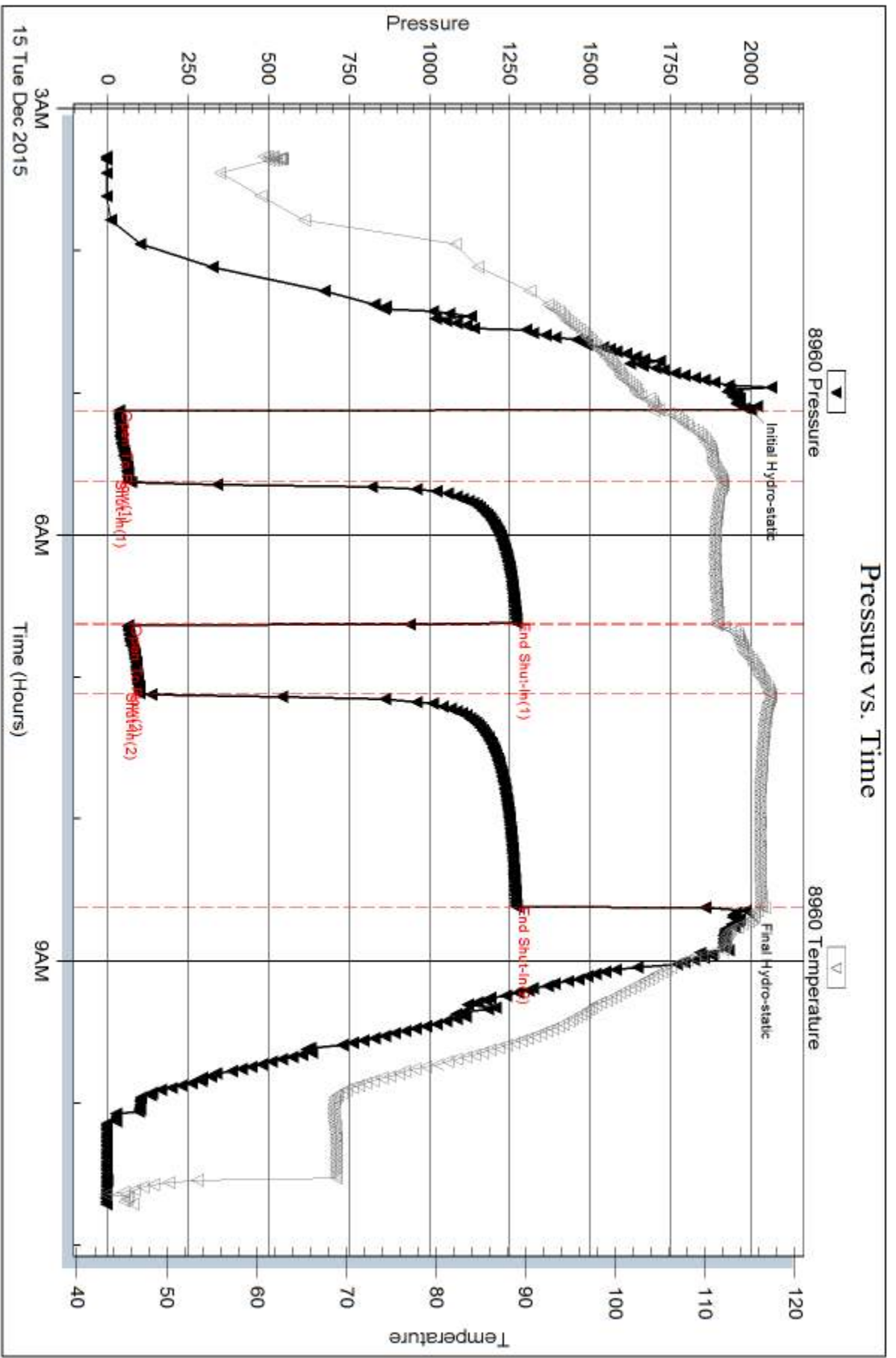
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



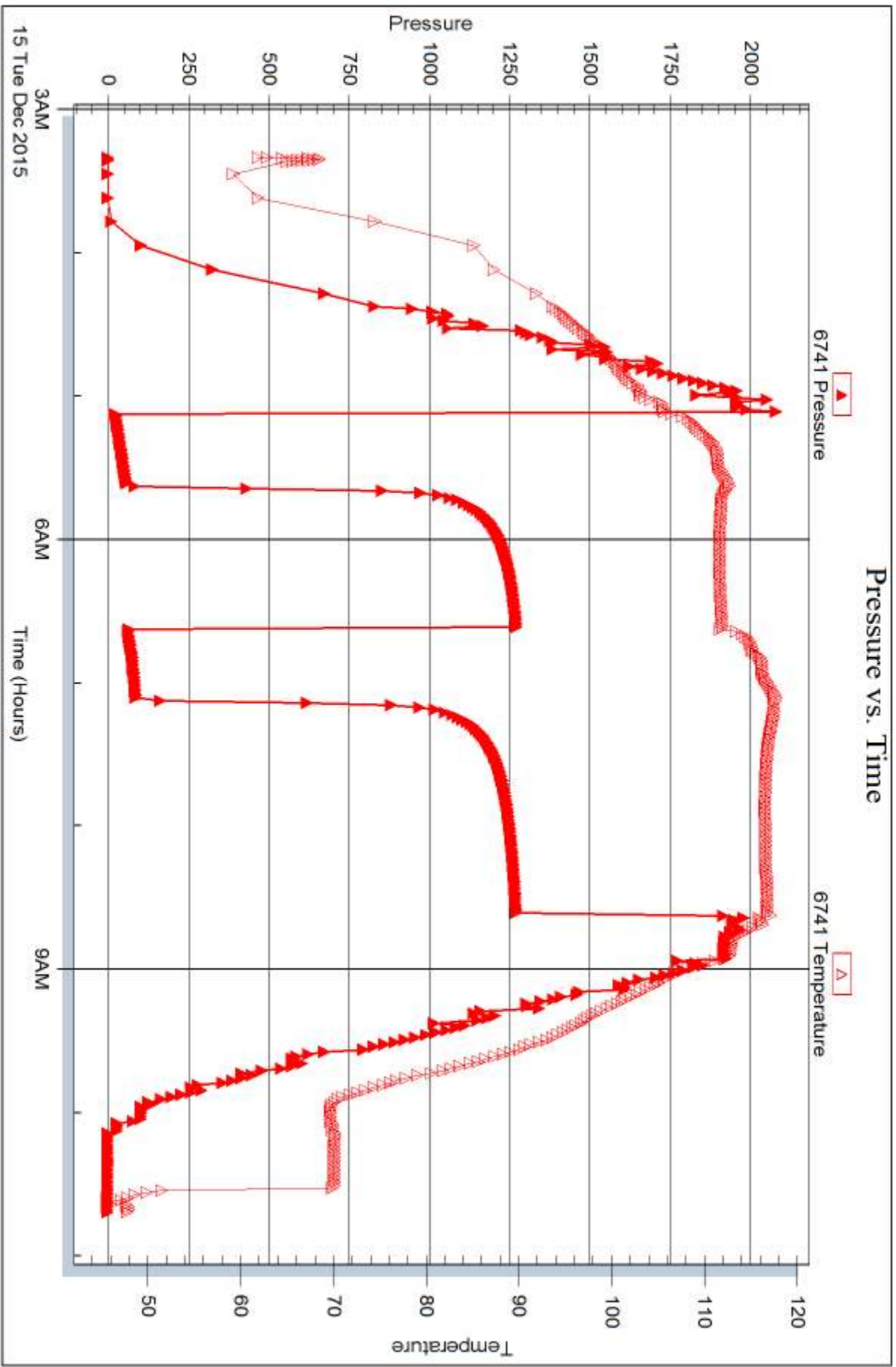
Serial #: 6741

Inside

Suenaur Exploration & Production LLC

Schroeder #1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Suemaur Exploration & Production LLC**

802 N Carancahua  
Corpus Christi TX 78401

ATTN: Bob Petersen

### **Schroeder #1**

#### **26 6S 28W Sheridan KS**

Start Date: 2015.12.15 @ 23:30:00

End Date: 2015.12.16 @ 10:43:00

Job Ticket #: 64972                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.12.17 @ 16:00:07



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Suema Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64972

**DST#: 5**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 23:30:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:01:00  
 Time Test Ended: 10:43:00  
 Interval: **4014.00 ft (KB) To 4058.00 ft (KB) (TVD)**  
 Total Depth: 4058.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Robert Zodrow  
 Unit No: 72  
 Reference Elevations: 2733.00 ft (KB)  
 2728.00 ft (CF)  
 KB to GR/CF: 5.00 ft

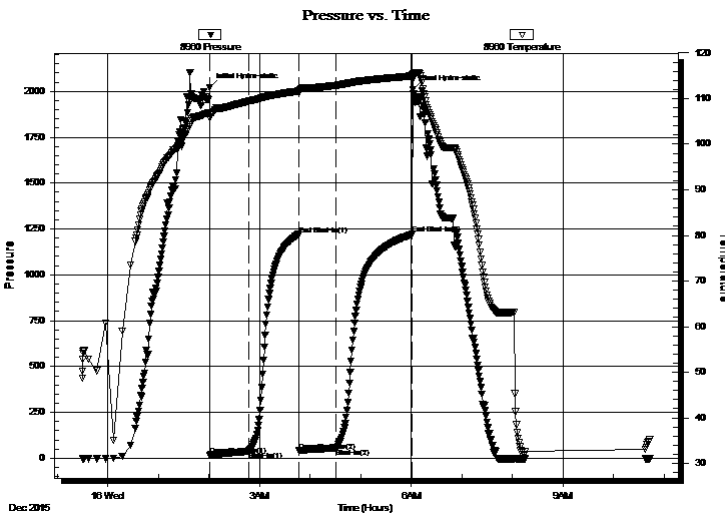
**Serial #: 8960**

**Outside**

Press@RunDepth: 56.18 psig @ 4015.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.15 End Date: 2015.12.16 Last Calib.: 2015.12.16  
 Start Time: 23:30:05 End Time: 10:43:00 Time On Btm: 2015.12.16 @ 02:00:30  
 Time Off Btm: 2015.12.16 @ 06:02:00

TEST COMMENT: 45-IF- Blow built to 4"  
 60-IS- No return  
 45-FF- Blow built to 5"  
 90-FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.28	106.90	Initial Hydro-static
1	16.43	105.71	Open To Flow (1)
46	36.80	109.40	Shut-In(1)
106	1217.17	111.65	End Shut-In(1)
106	39.91	111.25	Open To Flow (2)
151	56.18	112.90	Shut-In(2)
241	1220.35	114.96	End Shut-In(2)
242	2009.99	115.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	GOCM 10%G 25%O 65%M	0.37
15.00	GO 10%G 90%O	0.07

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Suemaur Exploration &amp; Production LLC

**26 6S 28W Sheridan KS**802 N Carancahua  
Corpus Christi TX 78401**Schroeder #1**

Job Ticket: 64972

**DST#: 5**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 23:30:00

### GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:00

Time Test Ended: 10:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 72

**Interval: 4014.00 ft (KB) To 4058.00 ft (KB) (TVD)**

Reference Elevations: 2733.00 ft (KB)

Total Depth: 4058.00 ft (KB) (TVD)

2728.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6741 Inside**

Press@RunDepth: psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.15

End Date:

2015.12.16

Last Calib.:

2015.12.16

Start Time: 23:30:05

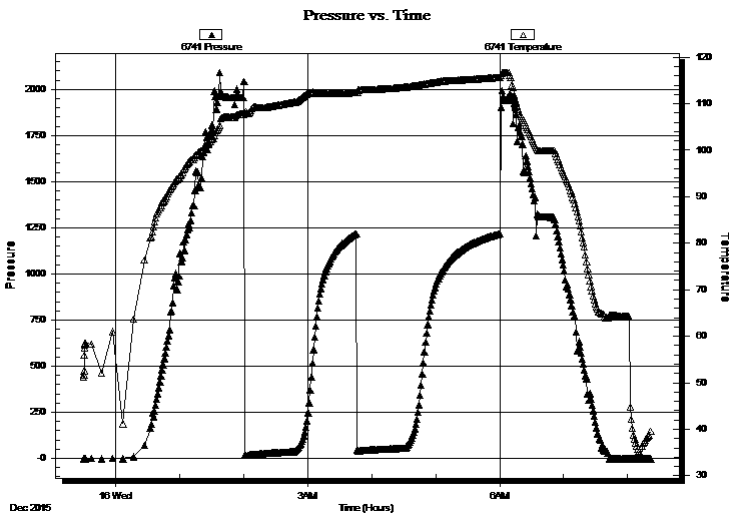
End Time:

08:21:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IF- Blow built to 4"  
 60-ISI- No return  
 45-FF- Blow built to 5"  
 90-FSI- No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
75.00	GOCM 10%G 25%O 65%M	0.37
15.00	GO 10%G 90%O	0.07

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaour Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64972

**DST#: 5**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 23:30:00

## Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 54.66 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4014.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3992.00	
Hydraulic tool	5.00			3997.00	
Jars	5.00			4002.00	
Safety Joint	3.00			4005.00	
Packer	5.00			4010.00	27.00 Bottom Of Top Packer
Packer	4.00			4014.00	
Stubb	1.00			4015.00	
Recorder	0.00	6741	Inside	4015.00	
Recorder	0.00	8960	Outside	4015.00	
Perforations	7.00			4022.00	
Change Over Sub	1.00			4023.00	
Drill Pipe	31.00			4054.00	
Change Over Sub	1.00			4055.00	
Bullnose	3.00			4058.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 64972

**DST#: 5**

ATTN: Bob Petersen

Test Start: 2015.12.15 @ 23:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	GOCM 10%G 25%O 65%M	0.369
15.00	GO 10%G 90%O	0.074

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

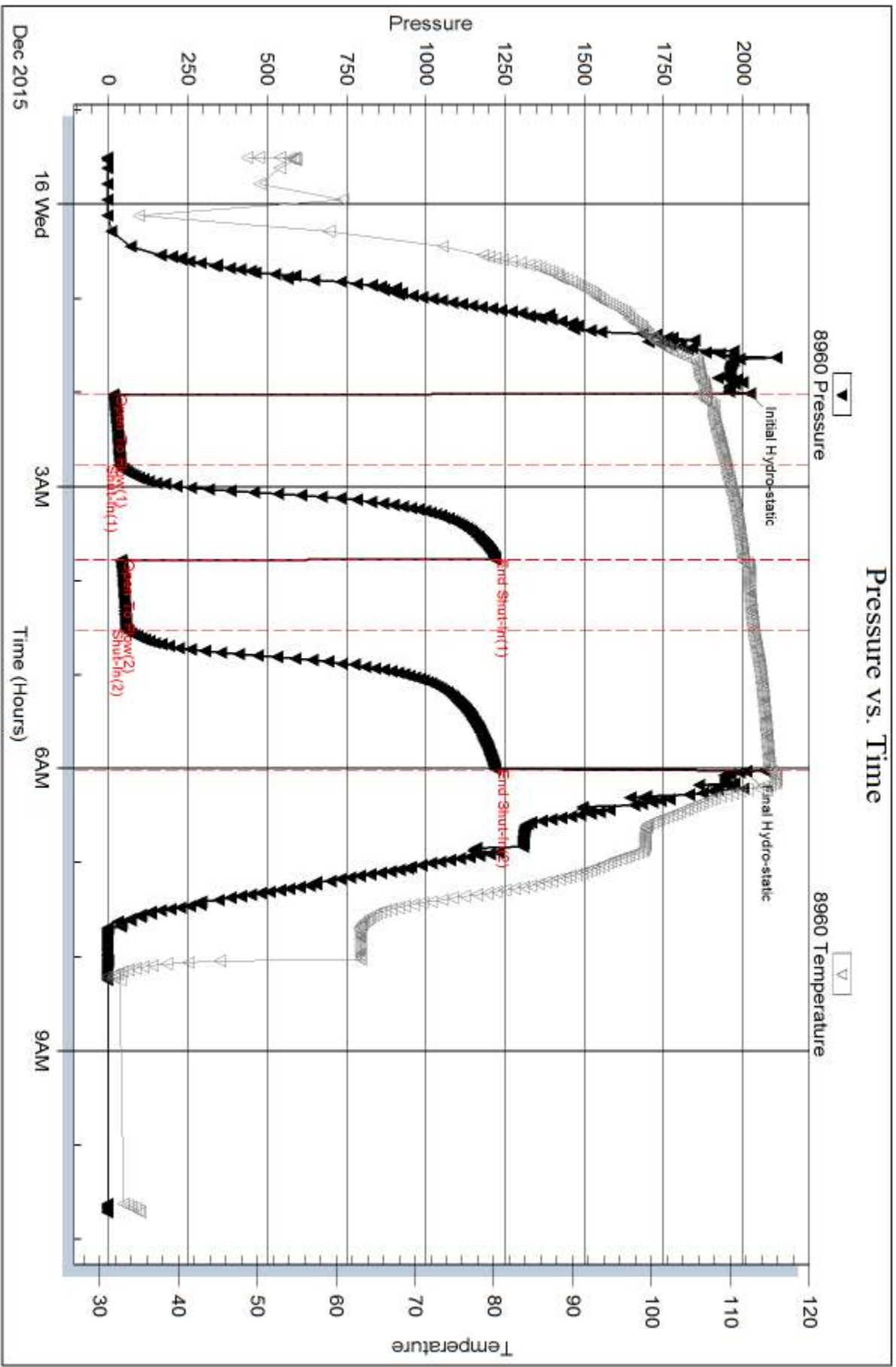
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



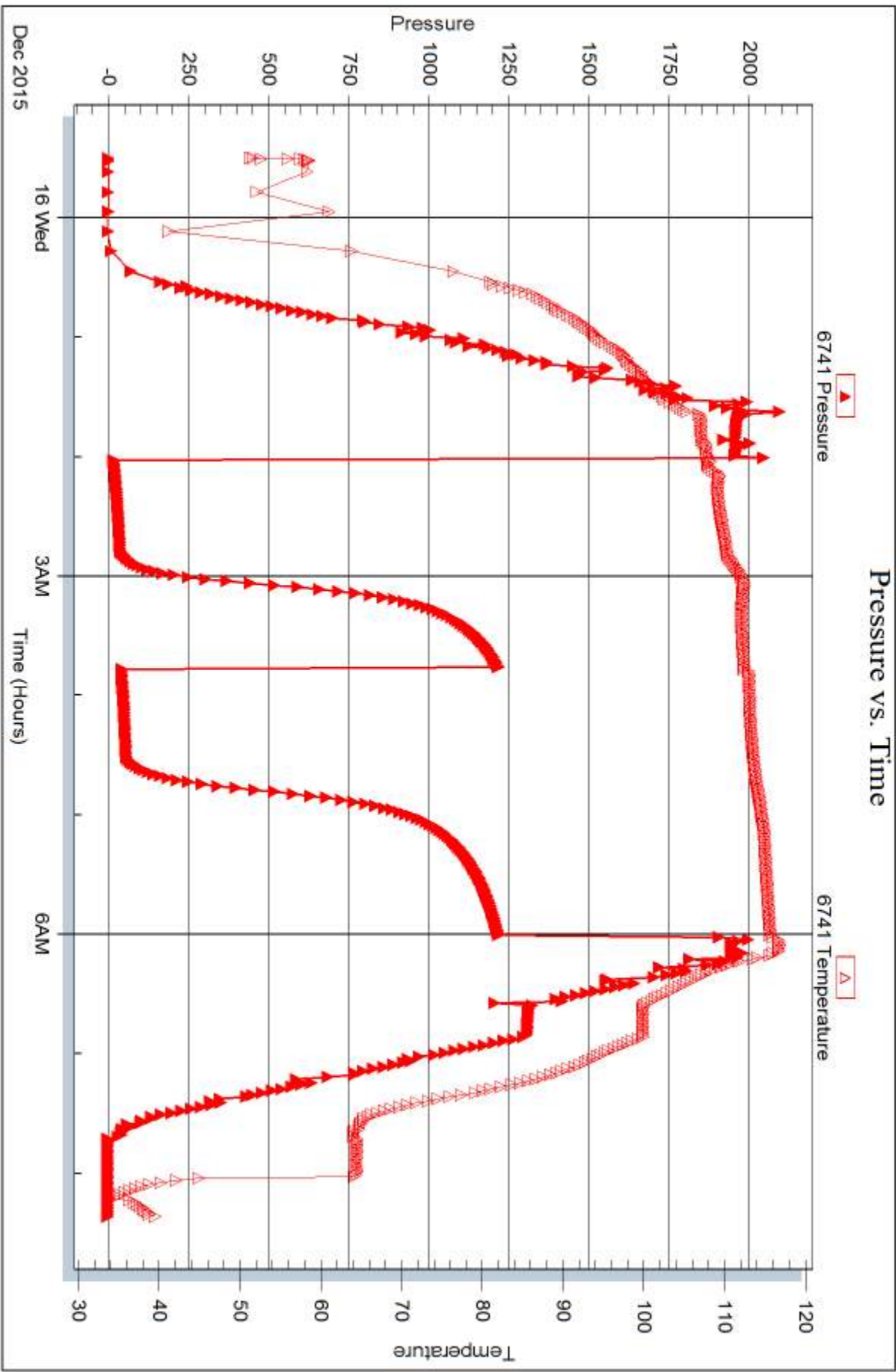
Serial #: 6741

Inside

Suenor Exploration & Production LLC

Schroeder #1

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Suemaar Exploration & Production LLC**

802 N Carancahua  
Corpus Christi TX 78401

ATTN: Bob Petersen

### **Schroeder #1**

#### **26 6S 28W Sheridan KS**

Start Date: 2015.12.18 @ 03:13:00

End Date: 2015.12.18 @ 11:03:30

Job Ticket #: 62869                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.12.18 @ 16:46:10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaor Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 62869

**DST#: 6**

ATTN: Bob Petersen

Test Start: 2015.12.18 @ 03:13:00

## GENERAL INFORMATION:

Formation: **Lower "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:45

Time Test Ended: 11:03:30

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3982.00 ft (KB) To 4015.00 ft (KB) (TVD)**

Reference Elevations: 2733.00 ft (KB)

Total Depth: 4476.00 ft (KB) (TVD)

2728.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 412.61 psig @ 3983.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.18

End Date: 2015.12.18

Last Calib.: 2015.12.18

Start Time: 03:13:05

End Time: 11:03:29

Time On Btm: 2015.12.18 @ 05:52:15

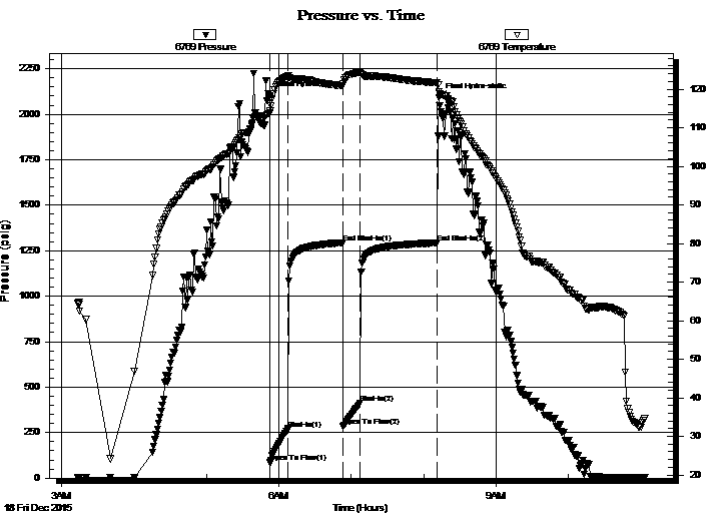
Time Off Btm: 2015.12.18 @ 08:12:45

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 2 1/2 min. (Diesel in bucket)

45 - IS: Blow back built to 6 3/4"

15 - FF: Blow built to BOB at 3 1/4 min.

60 - FS: Blow back built to 4 1/2"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.09	113.83	Initial Hydro-static
1	84.97	114.51	Open To Flow (1)
16	271.15	123.42	Shut-In(1)
61	1293.93	120.87	End Shut-In(1)
61	284.88	121.31	Open To Flow (2)
76	412.61	124.35	Shut-In(2)
139	1292.93	121.64	End Shut-In(2)
141	2090.40	119.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
503.00	SOMCW 91%w , 4%m, 3%g, 2%o	5.35
190.00	SO/MCW 60%w , 30%m, 6%g, 4%o	2.67
125.00	SO/WCM 61%m, 31%w , 4%o, 4%g	1.75
60.00	GMWCO 60%o, 15%m, 15%w , 10%g	0.84
0.00	GIP = 190'	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Suemaur Exploration & Production LLC  
 802 N Carancahua  
 Corpus Christi TX 78401  
 ATTN: Bob Petersen

**26 6S 28W Sheridan KS**  
**Schroeder #1**  
 Job Ticket: 62869 **DST#: 6**  
 Test Start: 2015.12.18 @ 03:13:00

## GENERAL INFORMATION:

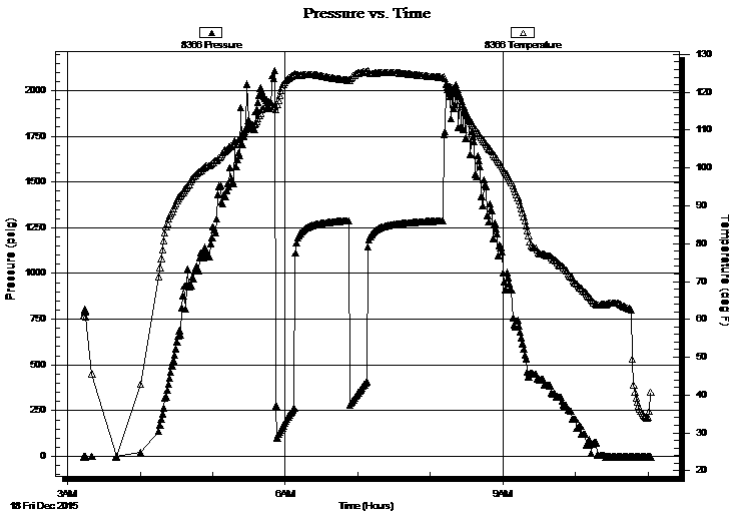
**Formation:** Lower "G"  
**Deviated:** No Whipstock: ft (KB)  
**Test Type:** Conventional Straddle (Reset)  
**Time Tool Opened:** 05:52:45  
**Tester:** James Winder  
**Time Test Ended:** 11:03:30  
**Unit No:** 83  
**Interval:** 3982.00 ft (KB) To 4015.00 ft (KB) (TVD)  
**Reference Elevations:** 2733.00 ft (KB)  
 Total Depth: 4476.00 ft (KB) (TVD) 2728.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

## Serial #: 8366 Outside

**Press@RunDepth:** psig @ 3983.00 ft (KB)  
**Capacity:** 8000.00 psig  
**Start Date:** 2015.12.18 **End Date:** 2015.12.18  
**Last Calib.:** 2015.12.18  
**Start Time:** 03:13:05 **End Time:** 11:02:44  
**Time On Btm:**  
**Time Off Btm:**

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 2 1/2 min. (Diesel in bucket)  
 45 - IS: Blow back built to 6 3/4"  
 15 - FF: Blow built to BOB at 3 1/4 min.  
 60 - FS: Blow back built to 4 1/2"

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
503.00	SOMCW 91%w , 4%m, 3%g, 2%o	5.35
190.00	SO/MCW 60%w , 30%m, 6%g, 4%o	2.67
125.00	SO/WCM 61%m, 31%w , 4%o, 4%g	1.75
60.00	GMWCO 60%o, 15%m, 15%w , 10%g	0.84
0.00	GIP = 190'	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Suema Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 62869

**DST#: 6**

ATTN: Bob Petersen

Test Start: 2015.12.18 @ 03:13:00

## GENERAL INFORMATION:

Formation: **Lower "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:45

Time Test Ended: 11:03:30

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

Interval: **3982.00 ft (KB) To 4015.00 ft (KB) (TVD)**

Total Depth: 4476.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2733.00 ft (KB)

2728.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8167 Below (Straddle)**

Press@RunDepth: psig @ 4016.00 ft (KB)

Start Date: 2015.12.18

End Date: 2015.12.18

Start Time: 03:13:05

End Time: 11:01:44

Capacity: 8000.00 psig

Last Calib.: 2015.12.18

Time On Btm:

Time Off Btm:

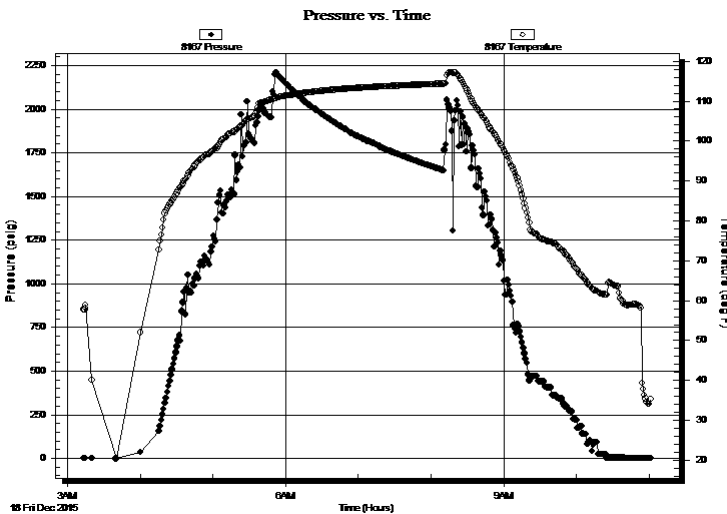
TEST COMMENT: 15 - IF: Blow built to BOB (11") at 2 1/2 min. (Diesel in bucket)

45 - IS: Blow back built to 6 3/4"

15 - FF: Blow built to BOB at 3 1/4 min.

60 - FS: Blow back built to 4 1/2"

## PRESSURE SUMMARY



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

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
503.00	SOMCW 91%w, 4%m, 3%g, 2%o	5.35
190.00	SO/MCW 60%w, 30%m, 6%g, 4%o	2.67
125.00	SO/WCM 61%m, 31%w, 4%o, 4%g	1.75
60.00	GMWCO 60%o, 15%m, 15%w, 10%g	0.84
0.00	GIP = 190'	0.00

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Suemaaur Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 62869

**DST#: 6**

ATTN: Bob Petersen

Test Start: 2015.12.18 @ 03:13:00

## Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3982.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	4015.00 ft			
Interval between Packers:	33.00 ft			
Tool Length:	522.00 ft			
Number of Packers:	3	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
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00		Inside	3964.00	
Jars	5.00			3969.00	
Safety Joint	3.00			3972.00	
Packer	5.00			3977.00	28.00 Bottom Of Top Packer
Packer	5.00			3982.00	
Stubb	1.00			3983.00	
Recorder	0.00	6769	Inside	3983.00	
Recorder	0.00	8366	Outside	3983.00	
Perforations	27.00			4010.00	
Blank Off Sub	1.00			4011.00	
Blank Spacing	4.00			4015.00	33.00 Tool Interval
Packer	0.00			4015.00	
Packer - Shale	0.00			4015.00	
Stubb	1.00			4016.00	
Recorder	0.00	8167	Below	4016.00	
Perforations	11.00			4027.00	
Blank Spacing	446.00			4473.00	
Bullnose	3.00			4476.00	461.00 Bottom Packers & Anchor

**Total Tool Length: 522.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Suemaer Exploration & Production LLC

**26 6S 28W Sheridan KS**

802 N Carancahua  
Corpus Christi TX 78401

**Schroeder #1**

Job Ticket: 62869

**DST#: 6**

ATTN: Bob Petersen

Test Start: 2015.12.18 @ 03:13:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
503.00	SOMCW 91%w , 4%m, 3%g, 2%o	5.352
190.00	SO/MCW 60%w , 30%m, 6%g, 4%o	2.665
125.00	SO/WCM 61%m, 31%w , 4%o, 4%g	1.753
60.00	GMWCO 60%o, 15%m, 15%w , 10%g	0.842
0.00	GIP = 190'	0.000

Total Length: 878.00 ft Total Volume: 10.612 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

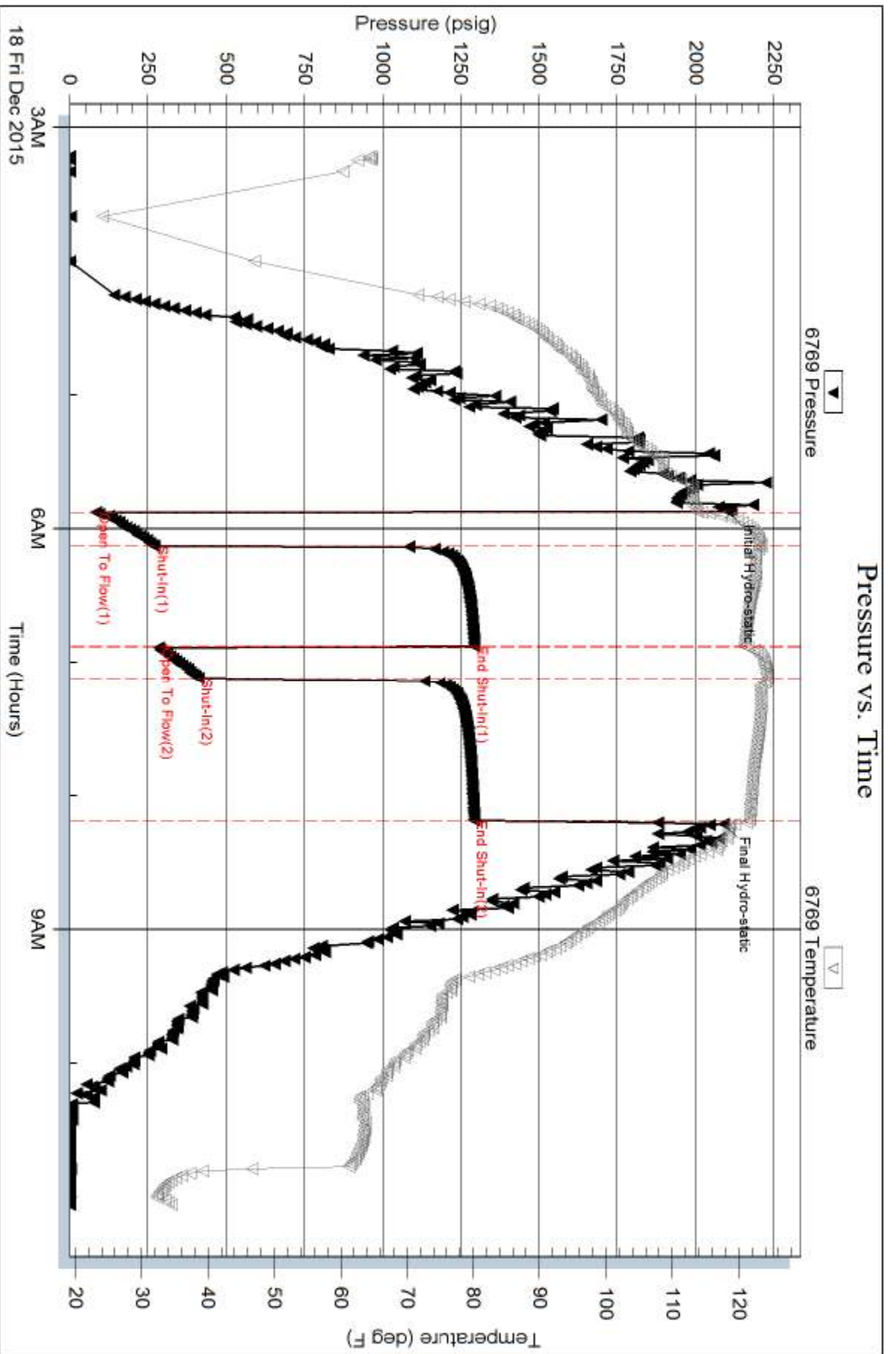
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 34 api @ 42 deg F Corrected Gravity = 35.8 api

RW = .262 ohms @ 53.2 deg F Chlorides = 37,000 ppm

Slight H2S - highest reading I got w as 3 ppm until I got squirted directly on the monitor then it show ed around 12 ppm

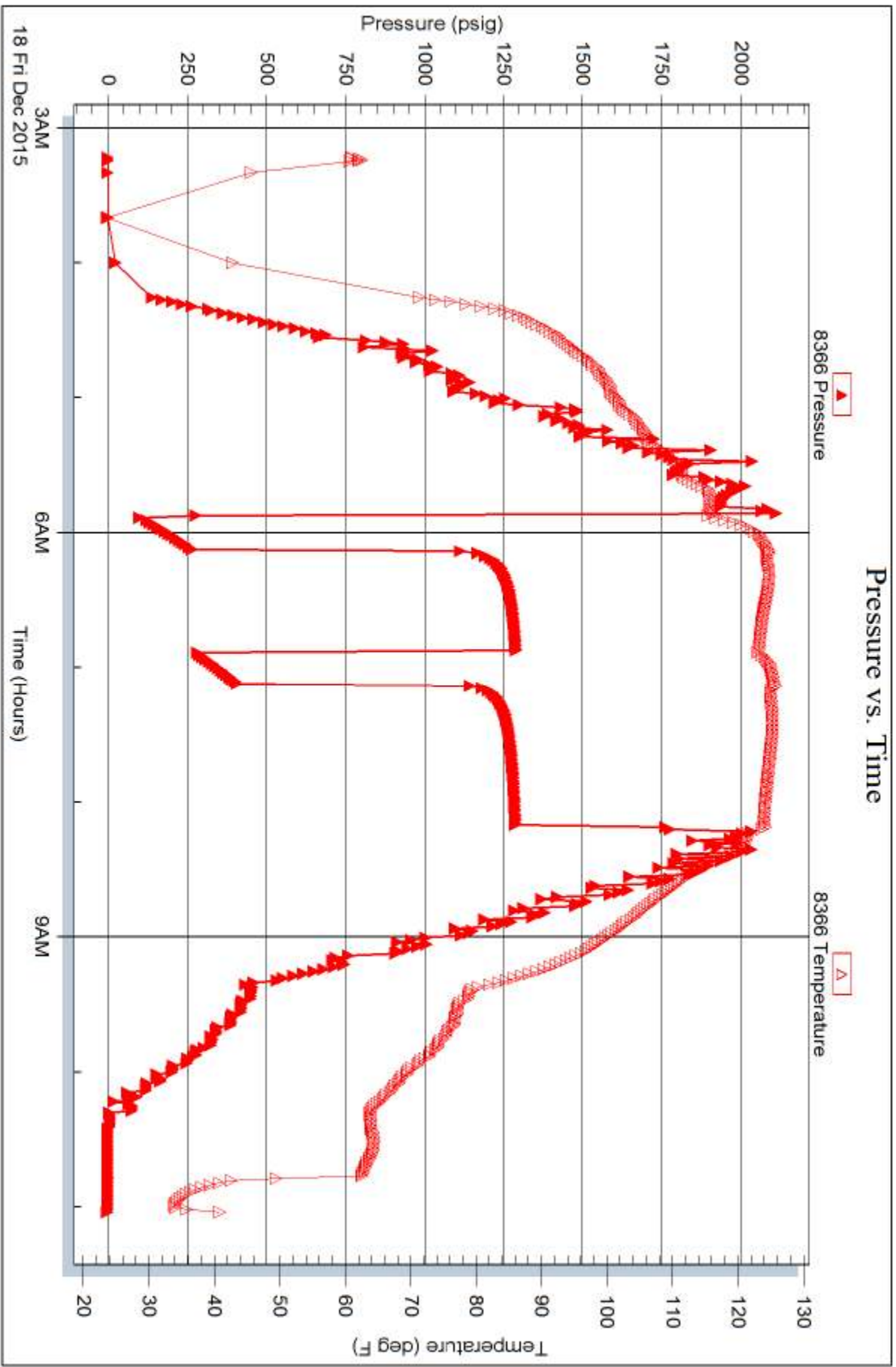


Serial #: 8366

Outside Suenamur Exploration & Production LLC

Schroeder #1

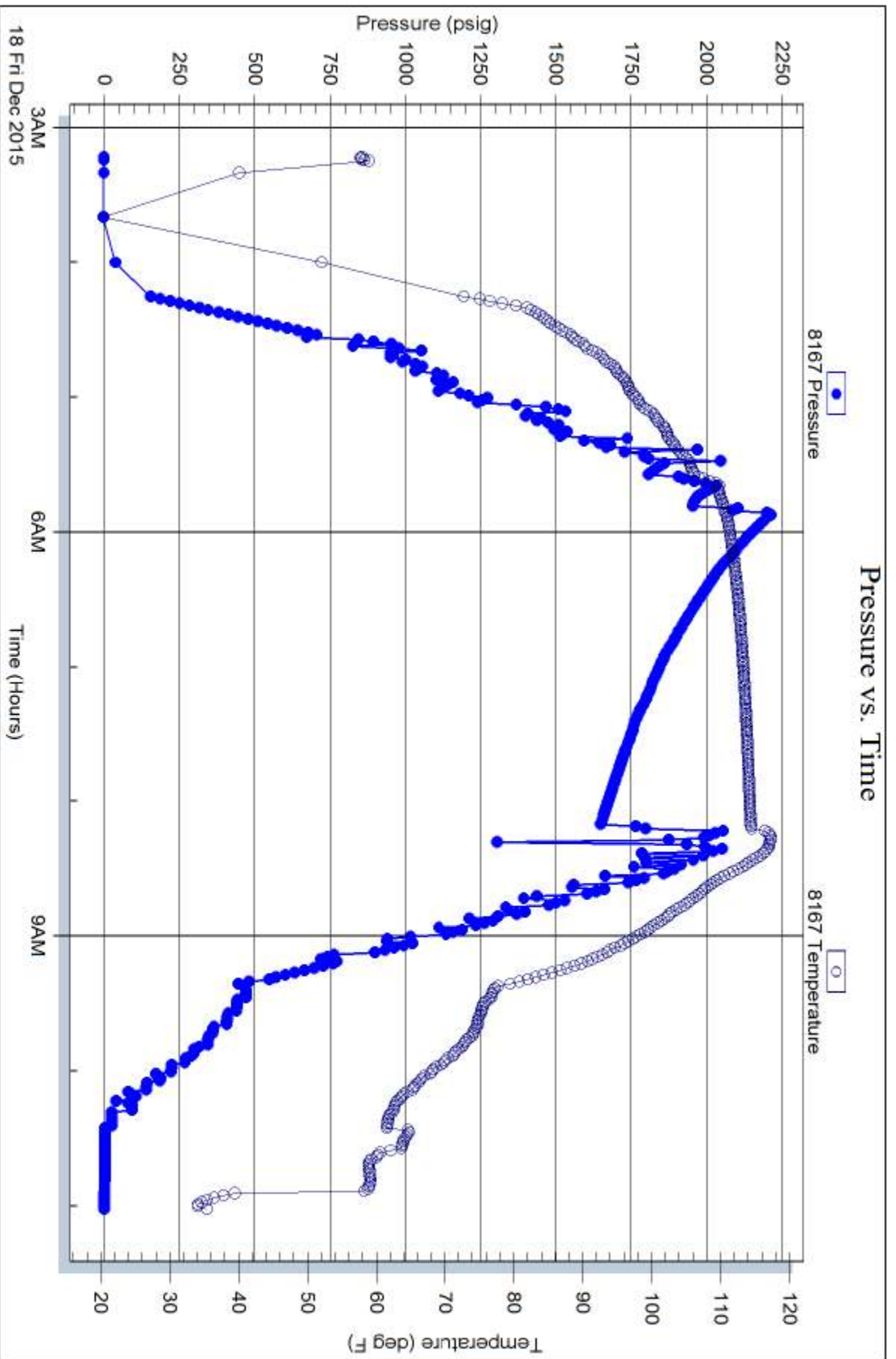
DST Test Number: 6

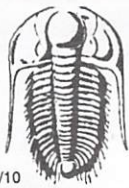


Triobite Testing, Inc

Ref. No: 62869

Printed: 2015.12.18 @ 16:46:12





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64967** 22853

Well Name & No. Schroeder #1 Test No. I Date 12-12-2015  
 Company Suemaar Exploration & Production Elevation 2733 KB 2728 GL  
 Address 802 N. Carancahua Corpus Christi TX 78401  
 Co. Rep / Geo. Bob Petersen Rig Murfin #7  
 Location: Sec. 26 Twp. 6S Rge. 28W Co. Sheridan State KS

Interval Tested 3798 — 3817 Zone Tested Oread  
 Anchor Length 19 Drill Pipe Run 3610 Mud Wt. 8.7  
 Top Packer Depth 3794 Drill Collars Run 187 Vis 76  
 Bottom Packer Depth 3798 Wt. Pipe Run 0 WL 6  
 Total Depth 3817 Chlorides 1000 ppm System LCM 2  
 Blow Description IF - Blow built to 4"  
ISI - No return  
FF - Blow built to 2 1/4" (diesel)  
FST NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>	<u>1</u>		<u>99</u>	
<u>60</u>	<u>mw</u>		<u>90</u>	<u>10</u>	

Rec Total 90 BHT 114 Gravity — API RW 670 @ 36 °F Chlorides 20,000 ppm  
 (A) Initial Hydrostatic 1900  Test 1050 T-On Location 19:00 12-12  
 (B) First Initial Flow 15  Jars 250 T-Started 21:30 12-12  
 (C) First Final Flow 95  Safety Joint 75 T-Open 00:04 12-13  
 (D) Initial Shut-In 1138  Circ Sub T-Pulled 04:04 12-13  
 (E) Second Initial Flow 47  Hourly Standby T-Out 06:11 12-13  
 (F) Second Final Flow 71  Mileage 60 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1127  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1899  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1435 MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 90  
 Approved By [Signature] Our Representative Robert Zeelew  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64969

Well Name & No. Schroeder #1 Test No. 2 Date 12-13-2015  
 Company Suemaar Expl & Prod LLC Elevation 2733 KB 2728 GL  
 Address 802 N. Carancahua Corpus christi TX 78401  
 Co. Rep / Geo. Bob Petersen Rig murfin #7  
 Location: Sec. 26 Twp. 6S Rge. 28W Co. Sheridan State KS

Interval Tested 3845 — 3902 Zone Tested Toranto & LKC "A"  
 Anchor Length 57 Drill Pipe Run 3646 Mud Wt. 9.0  
 Top Packer Depth 3841 Drill Collars Run 187 Vis 62  
 Bottom Packer Depth 3845 Wt. Pipe Run 0 WL 6  
 Total Depth 3902 Chlorides 1,100 ppm System LCM 2

Blow Description IF - Blow built to 6 1/2" (diesel)  
ISF - Surface blow started in 30mins died in 40mins  
FF - Blow built to 6"  
FSI - Surface blow started in 25mins died in 45mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>90</u>	<u>45</u>	<u>55</u>		
<u>60</u>	<u>9mco</u>	<u>20</u>	<u>50</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 190 BHT 113 Gravity 19 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1921</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>16:10 12-13</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:10 12-13</u>
(C) First Final Flow <u>51</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:47 12-13</u>
(D) Initial Shut-In <u>1203</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>23:46 12-13</u>
(E) Second Initial Flow <u>61</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:09 12-14</u>
(F) Second Final Flow <u>80</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT</u>	Comments
(G) Final Shut-In <u>1205</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1907</u>	<input type="checkbox"/> Straddle	

Initial Open \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1435  
 MP/DST Disc't \_\_\_\_\_

Sub Total 1435

Approved By \_\_\_\_\_ Our Representative Robert Zeehew  
 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. **64970**

Well Name & No. Schroeder #1 Test No. 3 Date 12-14-2015  
 Company Suemaur Expl & Prod LLC Elevation 2733 KB 2728 GL  
 Address 802 N. Caranca Hua Corpus Christi TX 78401  
 Co. Rep / Geo. Bob Petersen Rig Murfin #7  
 Location: Sec. 26 Twp. 6S Rge. 28W Co. Sheridan State KS

Interval Tested 3902 — 3926 Zone Tested LKC "C"  
 Anchor Length 24 Drill Pipe Run 3705 Mud Wt. 9.1  
 Top Packer Depth 3898 Drill Collars Run 187 Vis 58  
 Bottom Packer Depth 3902 Wt. Pipe Run 0 WL 6  
 Total Depth 3926 Chlorides 1,100 ppm System LCM 2

Blow Description IF - Bob in 12 mins  
ISI - Return built to 1 1/4" (diesel)  
FF - Bob in 18 mins  
FSI - Return built to 1" died in 40 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>90</u>	<u>15</u>	<u>85</u>		
<u>60</u>	<u>90cm</u>	<u>10</u>	<u>35</u>	<u>55</u>	
	<u>MIP 95'</u>				

Rec Total 300 BHT 116 Gravity 35 API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 1956  Test 1050 T-On Location 09:00 12-14  
 (B) First Initial Flow 21  Jars 250 T-Started 09:30 12-14  
 (C) First Final Flow 86  Safety Joint 75 T-Open 11:30 12-14  
 (D) Initial Shut-In 1259  Circ Sub \_\_\_\_\_ T-Pulled 14:59 12-14  
 (E) Second Initial Flow 95  Hourly Standby \_\_\_\_\_ T-Out 17:19 12-14  
 (F) Second Final Flow 121  Mileage 60 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1253  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1946  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
 Sub Total 0  
 Total 1435  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative Robert Zichow  
 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. **64971**

Well Name & No. Schroeder #1 Test No. 4 Date 12-15-2015  
 Company Suemaur Expl. & Prod. LLC Elevation 2733 KB 2728 GL  
 Address 802 N. Carancahua Corpus Christi TX 78401  
 Co. Rep / Geo. Bob Petersen Rig Murfin #7  
 Location: Sec. 26 Twp. 6S Rge. 28W Co. Sheridan State KS

Interval Tested 3966 — 3982 Zone Tested LKC "D"  
 Anchor Length 16 Drill Pipe Run 3768 Mud Wt. 9.1  
 Top Packer Depth 3962 Drill Collars Run 187 Vis 58  
 Bottom Packer Depth 3966 Wt. Pipe Run 0 WL 6  
 Total Depth 3982 Chlorides 1,100 ppm System LCM 2

Blow Description IF - Bob in 25 mins  
ISI - Return built to 1/4" died back to surface  
FF - Bob in 20 mins  
FSI - Return built to 1" died in 52 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>90</u>	<u>25</u>	<u>75</u>		
<u>60</u>	<u>90cm</u>	<u>15</u>	<u>20</u>		<u>65</u>

Rec Total 200 BHT 116 Gravity 37 API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2000  Test 1050 T-On Location 02:30 12-15  
 (B) First Initial Flow 35  Jars 250 T-Started 03:20 12-15  
 (C) First Final Flow 65  Safety Joint 75 T-Open 05:07 12-15  
 (D) Initial Shut-In 1272  Circ Sub \_\_\_\_\_ T-Pulled 08:37 12-15  
 (E) Second Initial Flow 65  Hourly Standby \_\_\_\_\_ T-Out 10:42 12-15  
 (F) Second Final Flow 99  Mileage 60 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1272  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1985  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
 Sub Total 0  
 Total 1435  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Robert Zochow  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64972**

Well Name & No. Schroeder #1 Test No. 5 Date 12-15-2015  
 Company Suemaer Expl. & Prod LLC Elevation 2733 KB 2728 GL  
 Address 802 N. Carancahua Corpus Christi TX 78401  
 Co. Rep / Geo. Bob Petersen Rig Murfin #7  
 Location: Sec. 26 Twp. 6S Rge. 28W Co. Sheridan State KS

Interval Tested 4014 — 4058 Zone Tested LKC "A-J"  
 Anchor Length 44 Drill Pipe Run 3831 Mud Wt. 9.3  
 Top Packer Depth 4010 Drill Collars Run 187 Vis 51  
 Bottom Packer Depth 4014 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4058 Chlorides 1000 ppm System LCM 2  
 Blow Description IF - Blow built to 4"  
ISI - No return  
FF - Blow built to 5"  
FSI - NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>75</u>	<u>90cm</u>	<u>10</u>	<u>25</u>		<u>65</u>

Rec Total 90 BHT 115 Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2020  Test 1150 T-On Location 22:30 12-15  
 (B) First Initial Flow 16  Jars 250 T-Started 23:30 12-15  
 (C) First Final Flow 37  Safety Joint 75 T-Open 02:01 12-16  
 (D) Initial Shut-In 1217  Circ Sub — T-Pulled 06:01 12-16  
 (E) Second Initial Flow 40  Hourly Standby — T-Out 08:21 12-16  
 (F) Second Final Flow 56  Mileage 60 RT x 2 Comments Drove out loaded  
 (G) Final Shut-In 1220  Sampler +60 tool at 15:00 on 12-17  
 (H) Final Hydrostatic 2009  Straddle —  
 Ruined Shale Packer —  
 Ruined Packer —  
 Extra Packer —  
 Extra Recorder —  
 Day Standby —  
 Accessibility —  
 Sub Total 1595 Total 1595 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative Robert Zedlow  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62869

Well Name & No. ~~Suemar Exploration & Production~~ Schoeder #1 Test No. 6 Date 12-18-15  
 Company Suemar Exploration & Production Elevation 2733 KB 2728 GL  
 Address 802 N. Carancahua Corpus Christi TX 78401  
 Co. Rep / Geo. Bob Peterson Rig Murfin #7  
 Location: Sec. 26 Twp. 6s Rge. 28w Co. Sheridan State KS

Interval Tested 3982 - 4015 Zone Tested Lower "6"  
 Anchor Length 33 Anchor 461 Tail Drill Pipe Run 3771 Mud Wt. 9.3  
 Top Packer Depth 3977 - 3982 Drill Collars Run 187 Vis 57  
 Bottom Packer Depth 4015 Wt. Pipe Run - WL 6.4  
 Total Depth 4476 Chlorides 900 ppm System LCM 3

Blow Description IF: Blow built to BOB (11") at 2 1/2 min. (Diesel in bucket)  
ISI: Blowback built to 6 3/4"  
FF: Blow built to BOB at 3 1/4 min.  
FST: Blowback built to 4 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GMWCO</u>	<u>10</u>	<u>60</u>	<u>15</u>	<u>15</u>
<u>125</u>	<u>50/WCM</u>	<u>4</u>	<u>4</u>	<u>31</u>	<u>61</u>
<u>190</u>	<u>50/MCW</u>	<u>6</u>	<u>4</u>	<u>60</u>	<u>30</u>
<u>503</u>	<u>50MCW</u>	<u>3</u>	<u>2</u>	<u>91</u>	<u>4</u>
<u>Rec</u>	<u>Feet of GIP=190'</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 878 BHT 122 Gravity 35.8 API RW 262 @ 53.2°F Chlorides 37000 ppm

(A) Initial Hydrostatic 2104  Test 1150 T-On Location 2:20  
 (B) First Initial Flow 85  Jars 250 T-Started 3:13  
 (C) First Final Flow 271  Safety Joint 75 T-Open 5:52  
 (D) Initial Shut-In 1294  Circ Sub \_\_\_\_\_ T-Pulled 8:11  
 (E) Second Initial Flow 285  Hourly Standby \_\_\_\_\_ T-Out 11:00  
 (F) Second Final Flow 413  Mileage 60 RT Comments low levels of H2S  
 (G) Final Shut-In 1293  Sampler \_\_\_\_\_ gas  
 (H) Final Hydrostatic 2090  Straddle 600  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2135  
 Sub Total 2135 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative James Winder

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.