

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 _____ 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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Form	ACO1 - Well Completion
Operator	Suemaur Exploration & Production, LLC
Well Name	Schroeder 1
Doc ID	1288893

All Electric Logs Run

Dual Induction
Gamma Ray
SP
Density /Neutron



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

Suemaer 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:

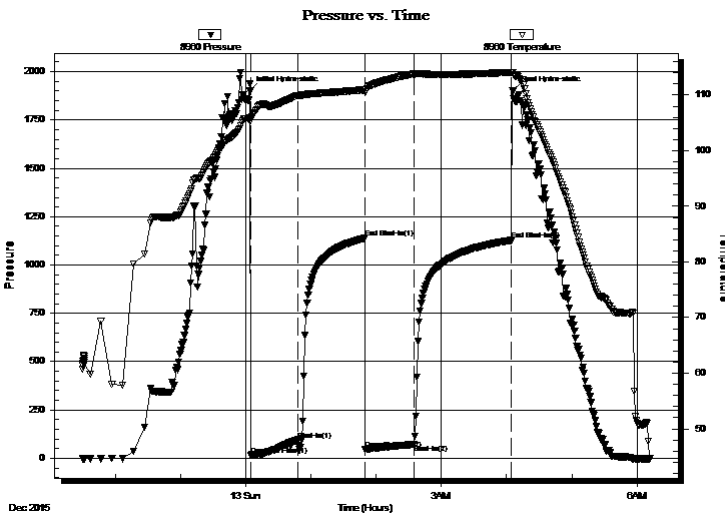
06:11:30

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)



**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 in³

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	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

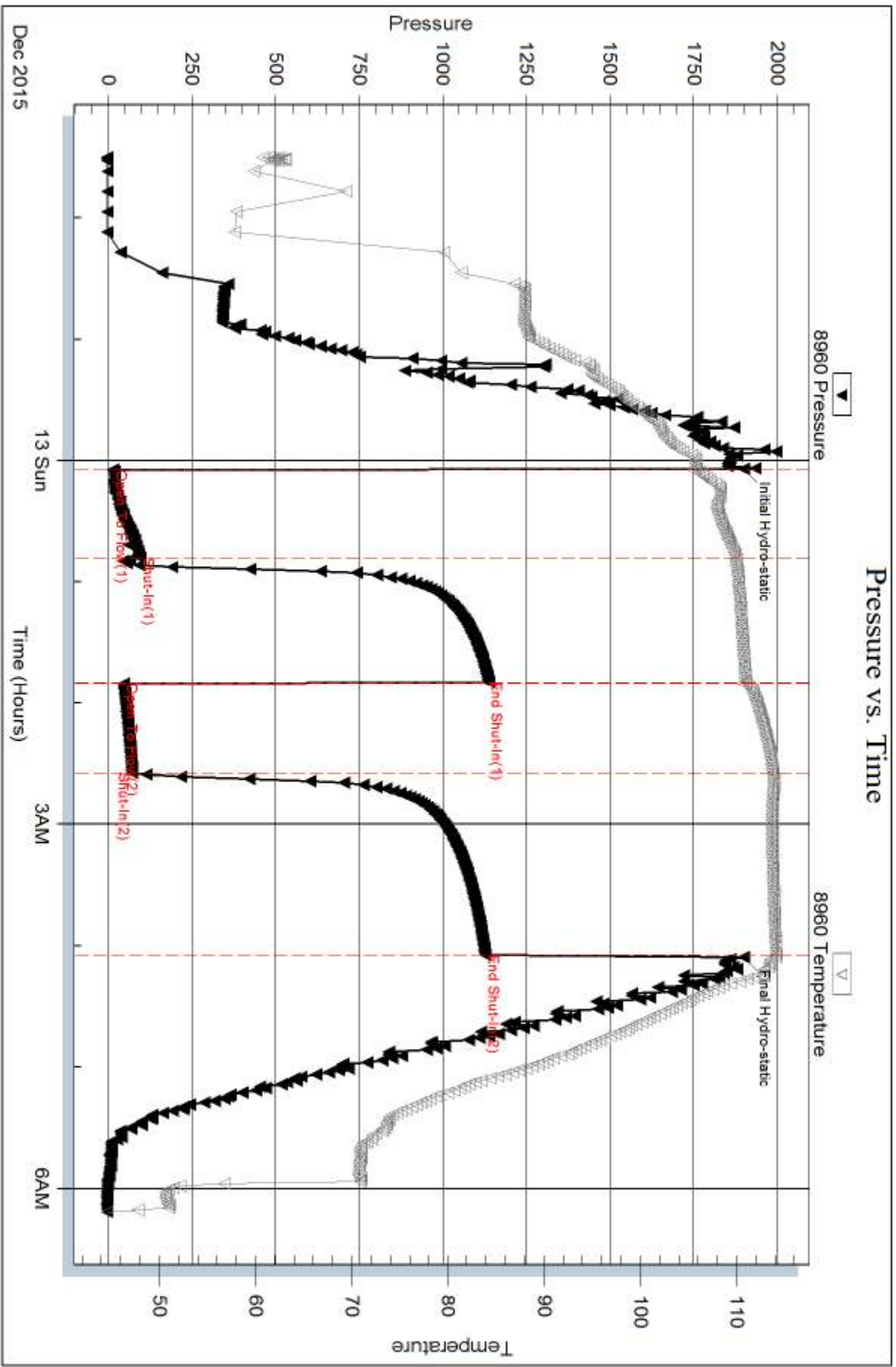
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .670 @ 36 Deg = 20000



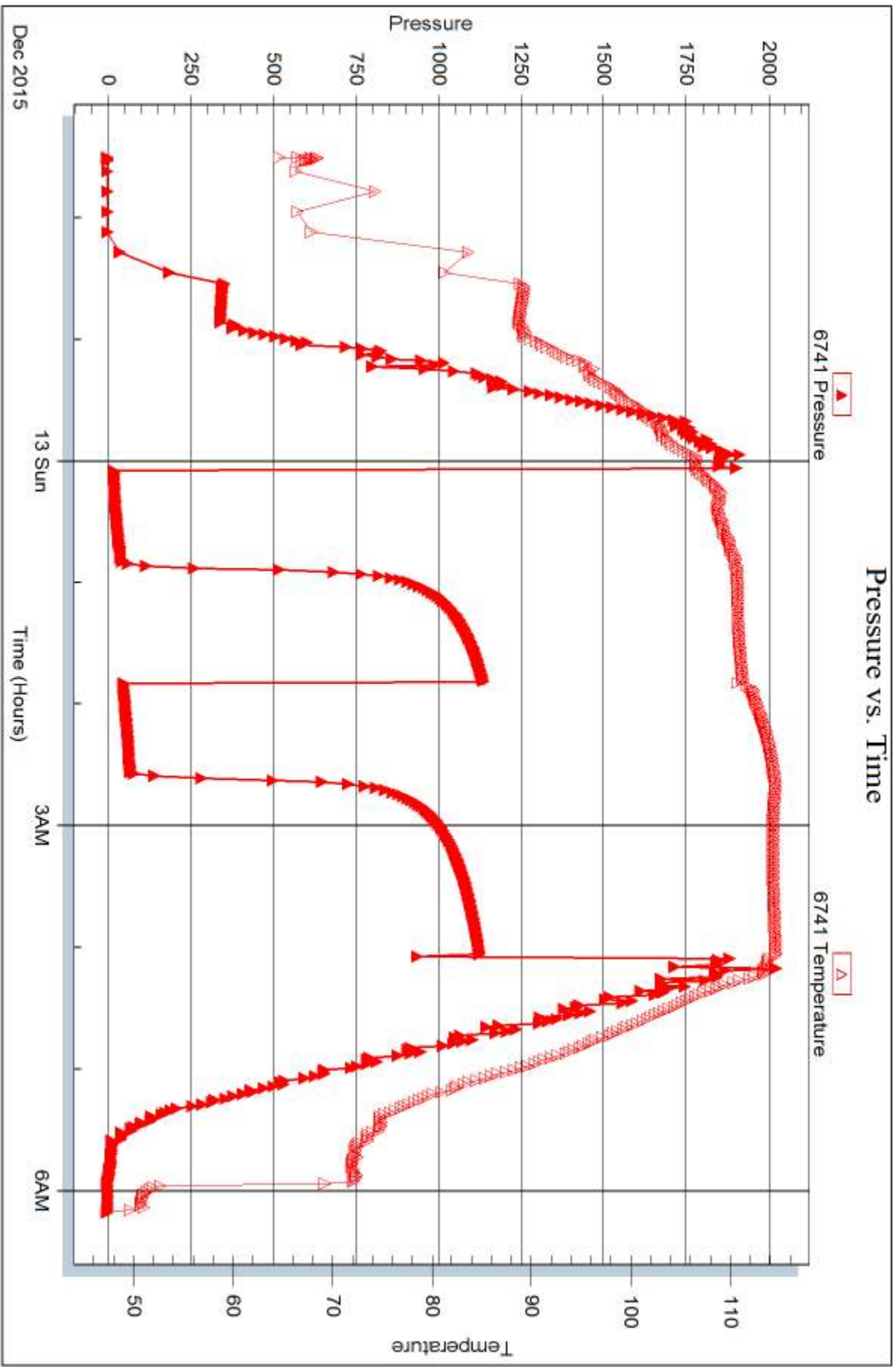
Serial #: 6741

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

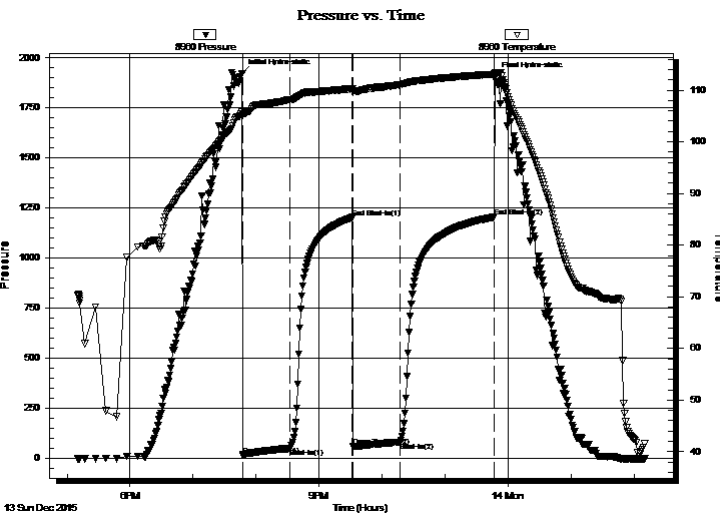
Last Calib.: 2015.12.14

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-ISI- Surface blow started in 30 mins died in 40 mins
45-FF- Blow built to 6"
90-FSI- 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

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 in³

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

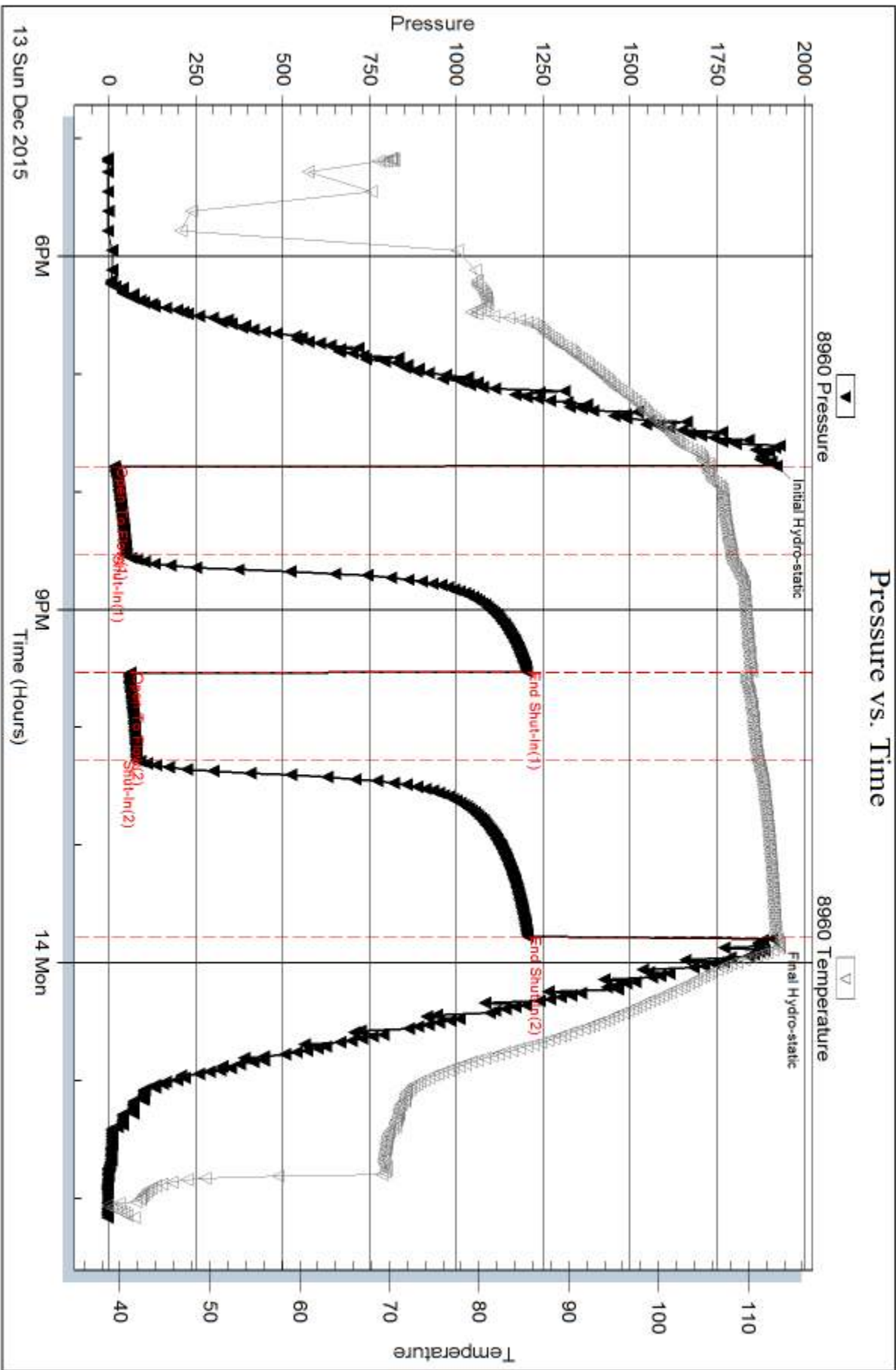
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



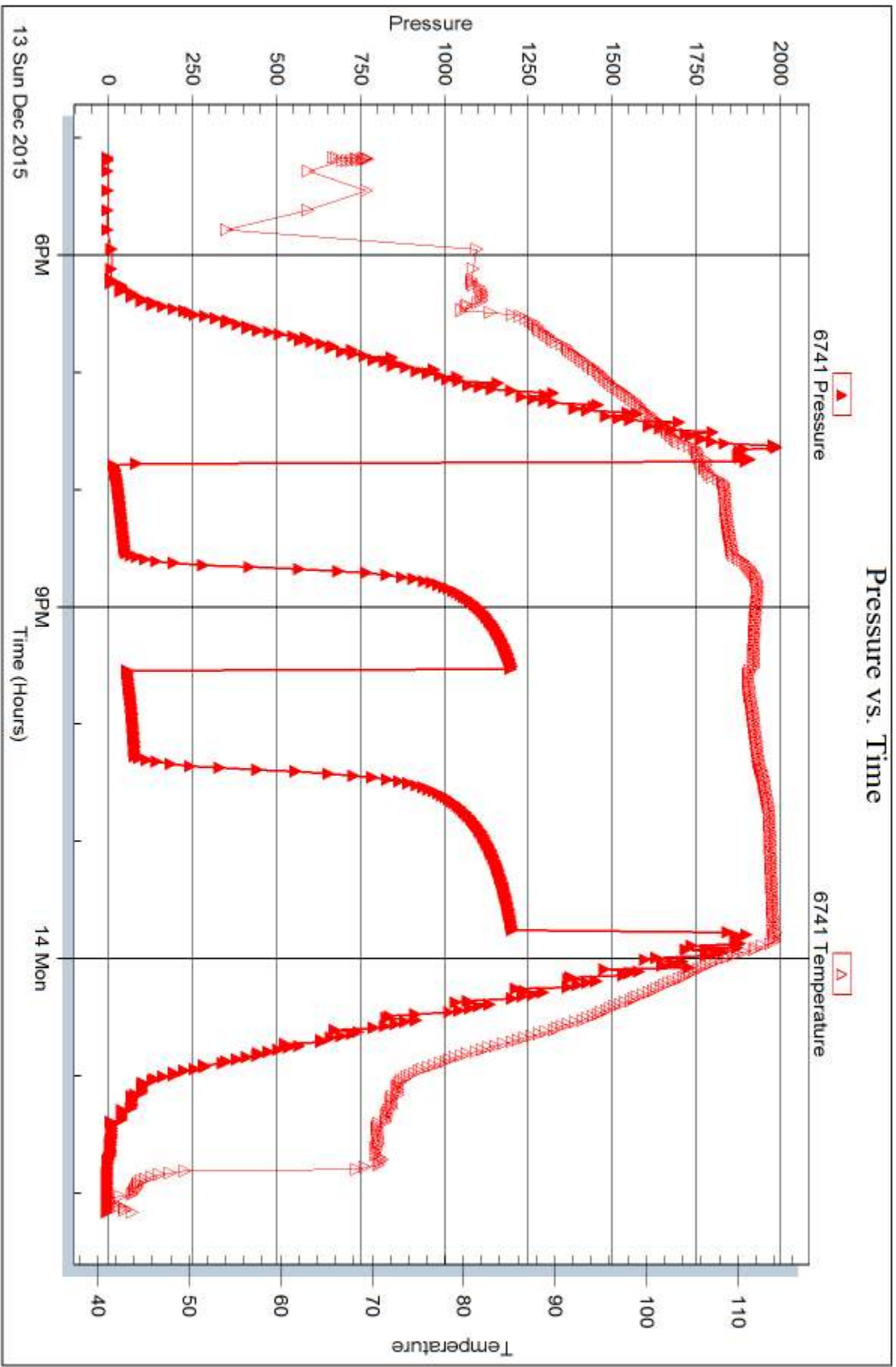
Serial #: 6741

Inside

Suenaar Exploration & Production LLC

Schroeder #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64969

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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

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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)

Total Depth: 3926.00 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 #: 8960 Outside

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

Start Date: 2015.12.14

End Date:

2015.12.14

Start Time: 09:30:05

End Time:

17:18:59

Capacity: 8000.00 psig

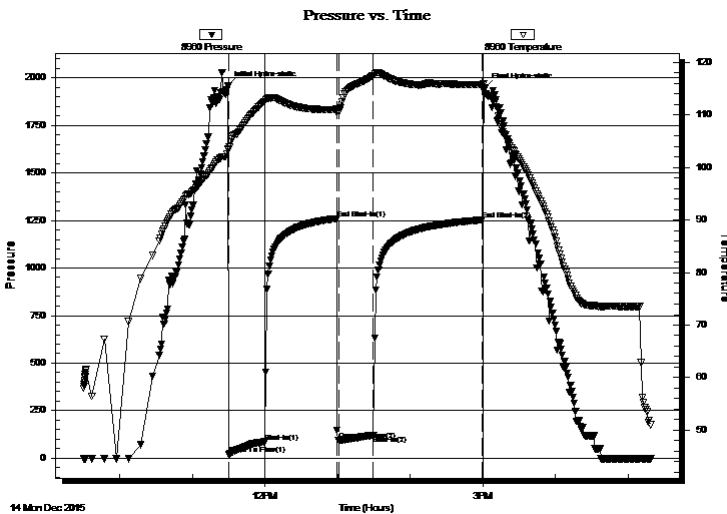
Last Calib.: 2015.12.14

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

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
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 5.99 in³
Resistivity: 0.00 ohm.m
Salinity: 1100.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: ppm

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

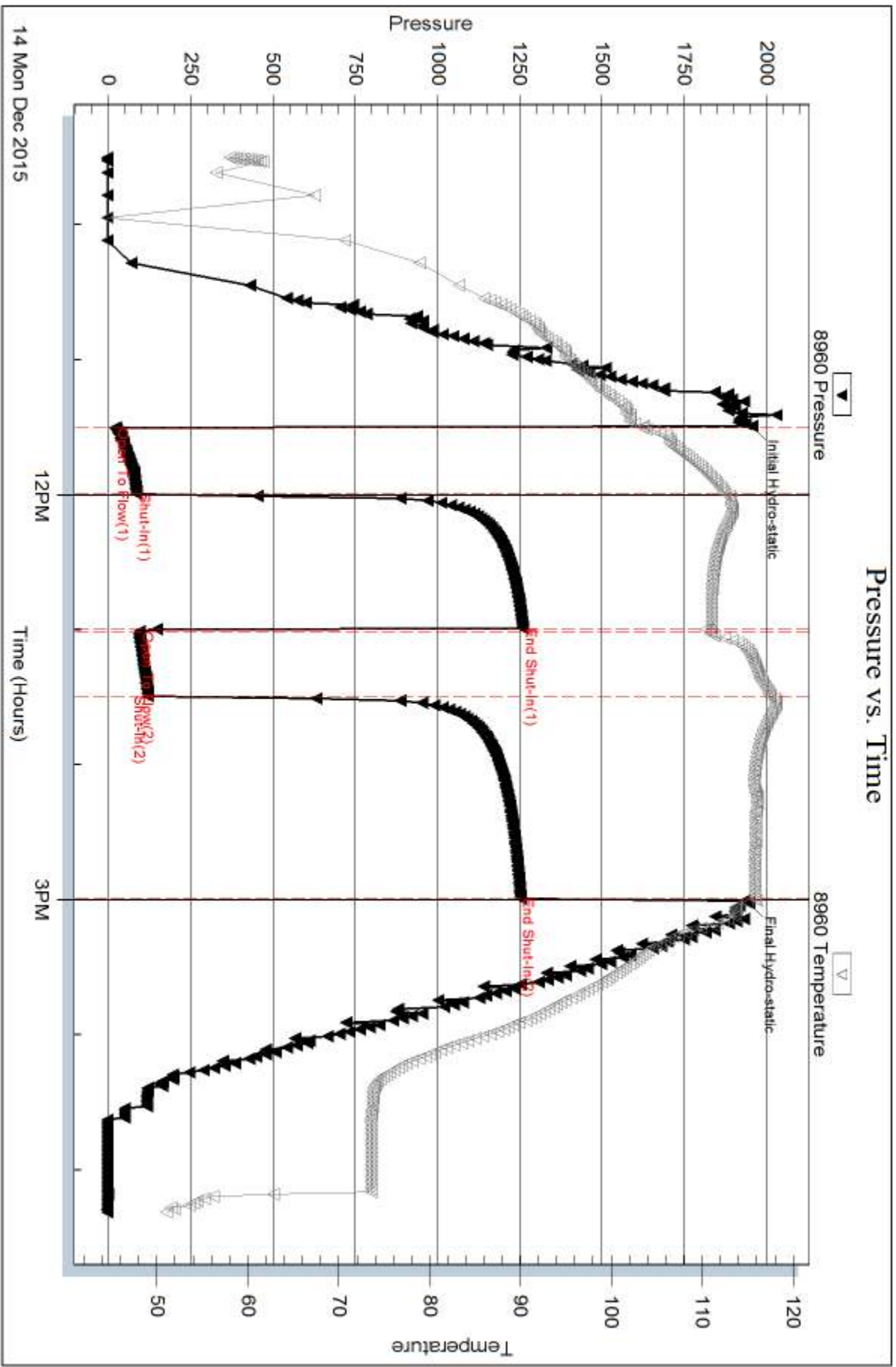
Num Gas Bombs: 0

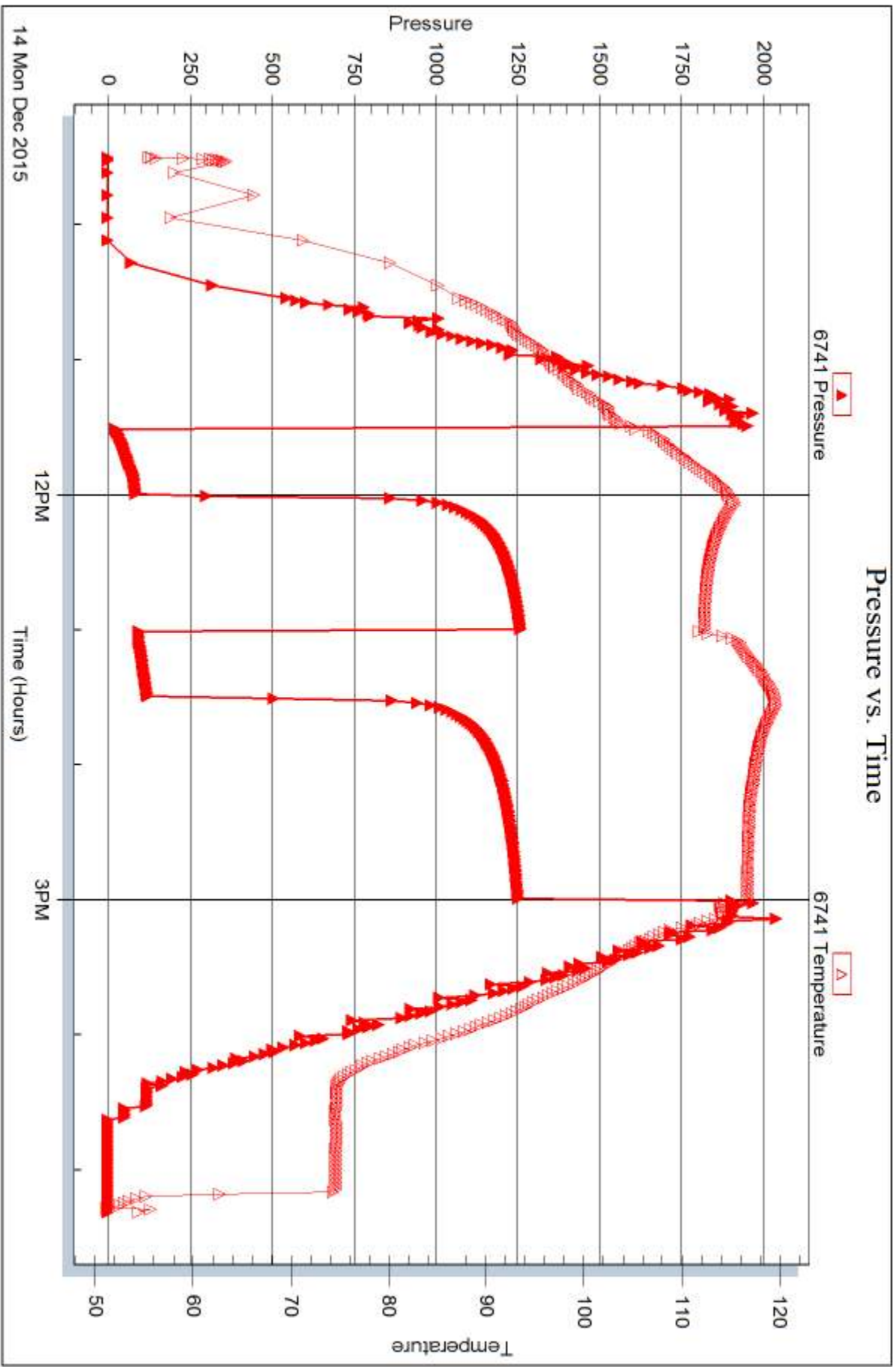
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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

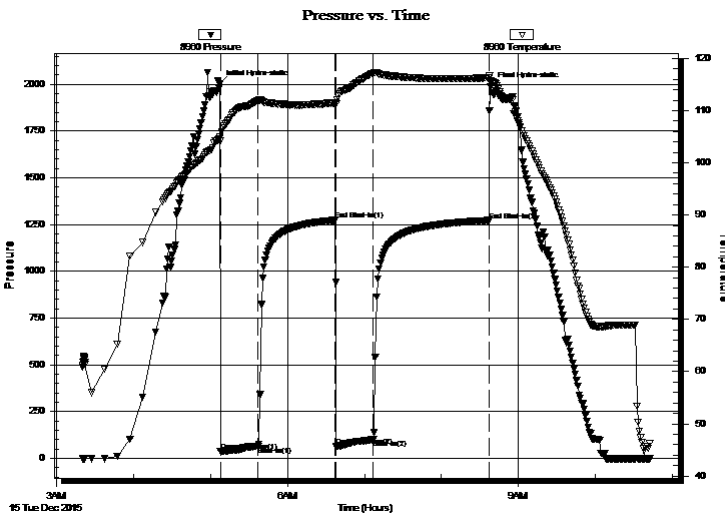
Serial #: 8960

Outside

Press@RunDepth: 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

TOOL DIAGRAM

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

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 in³

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

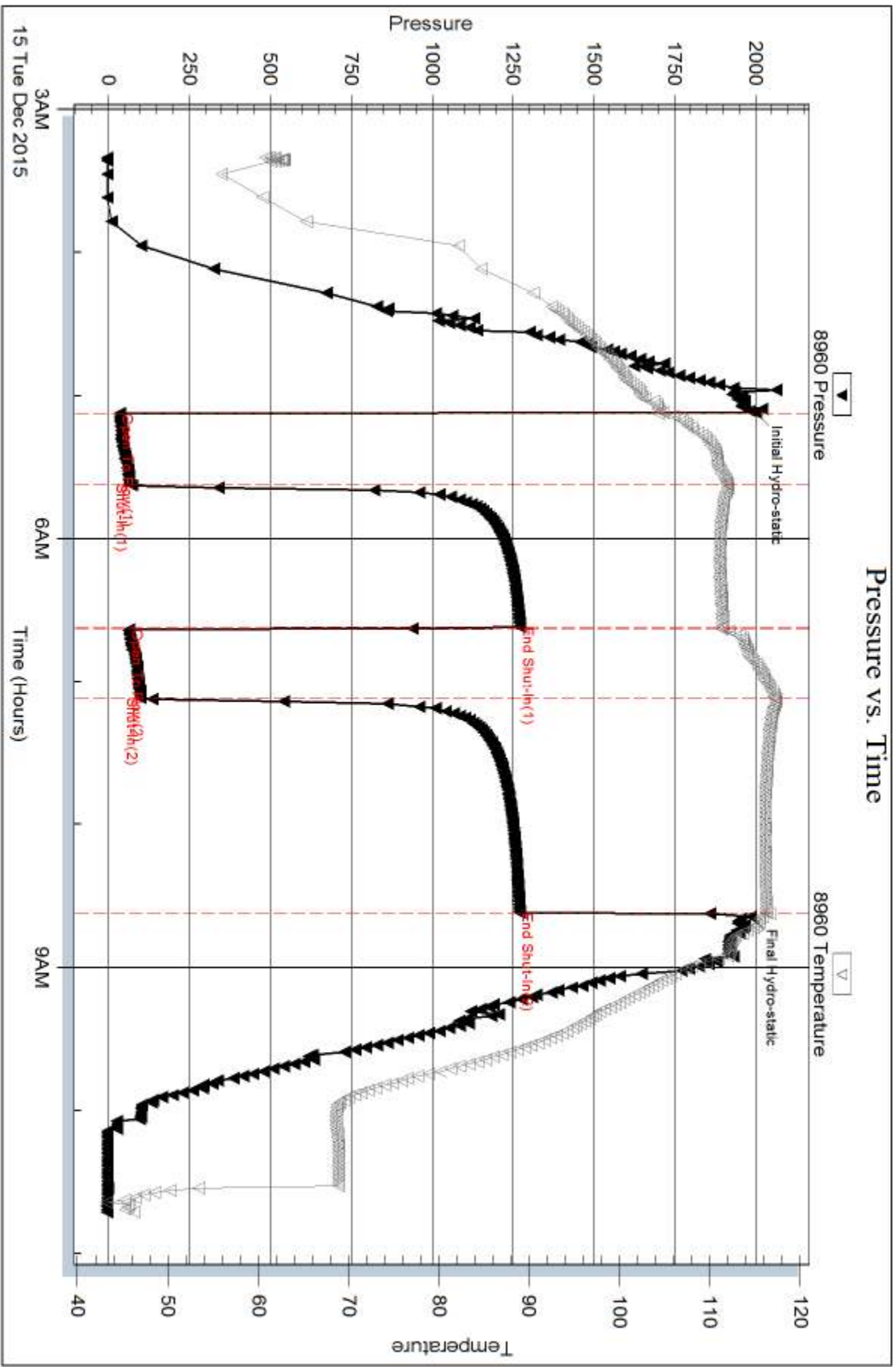
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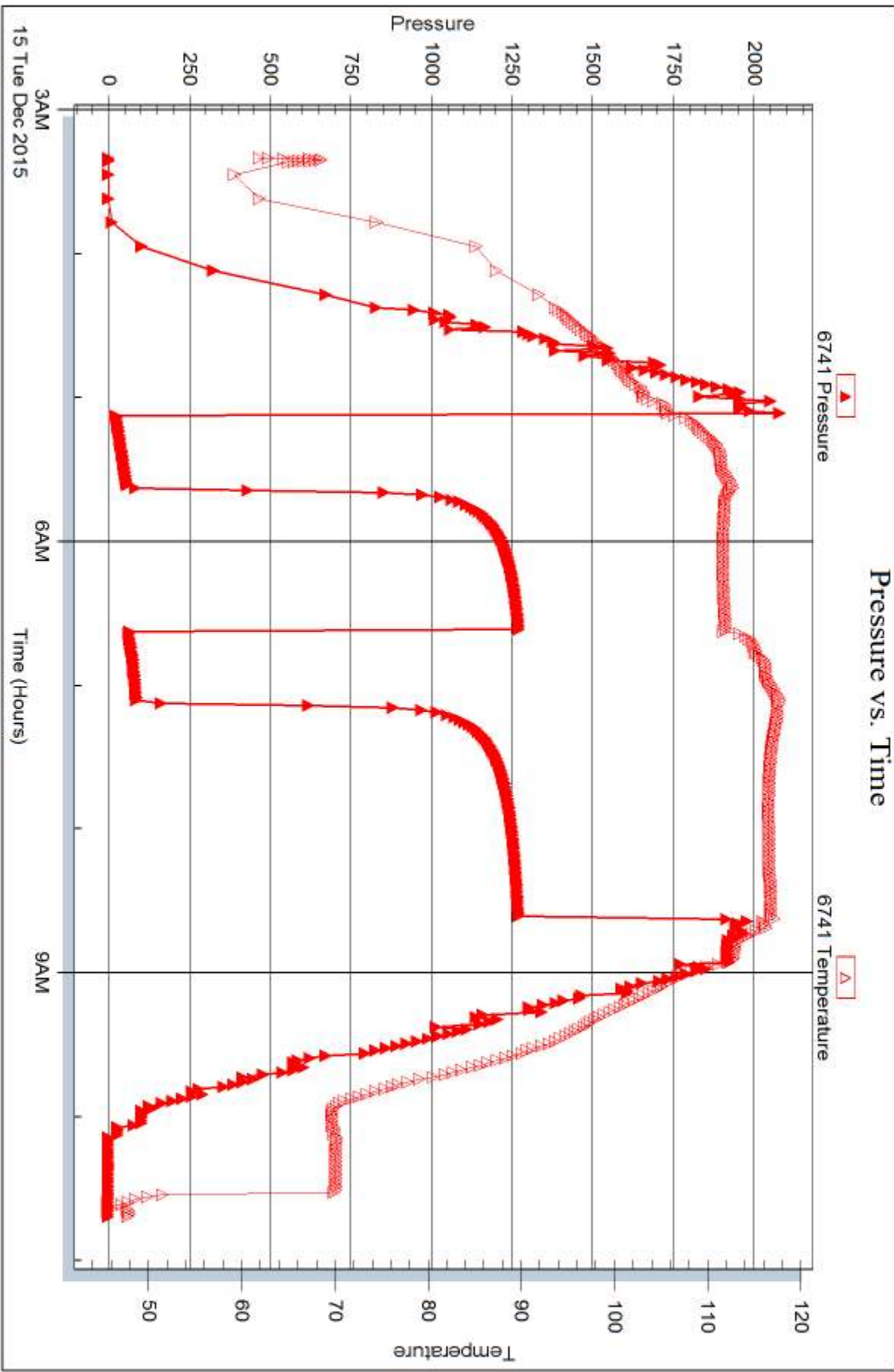
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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

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

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

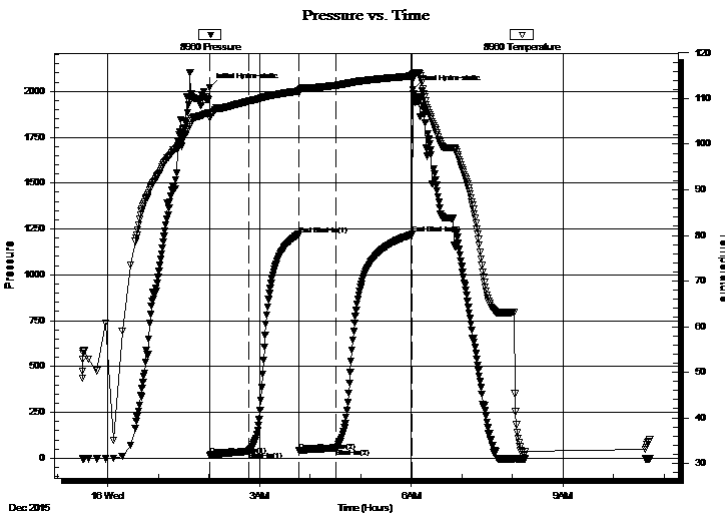
Serial #: 8960

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-ISI- No return
 45-FF- Blow built to 5"
 90-FSI- 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

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 in³

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

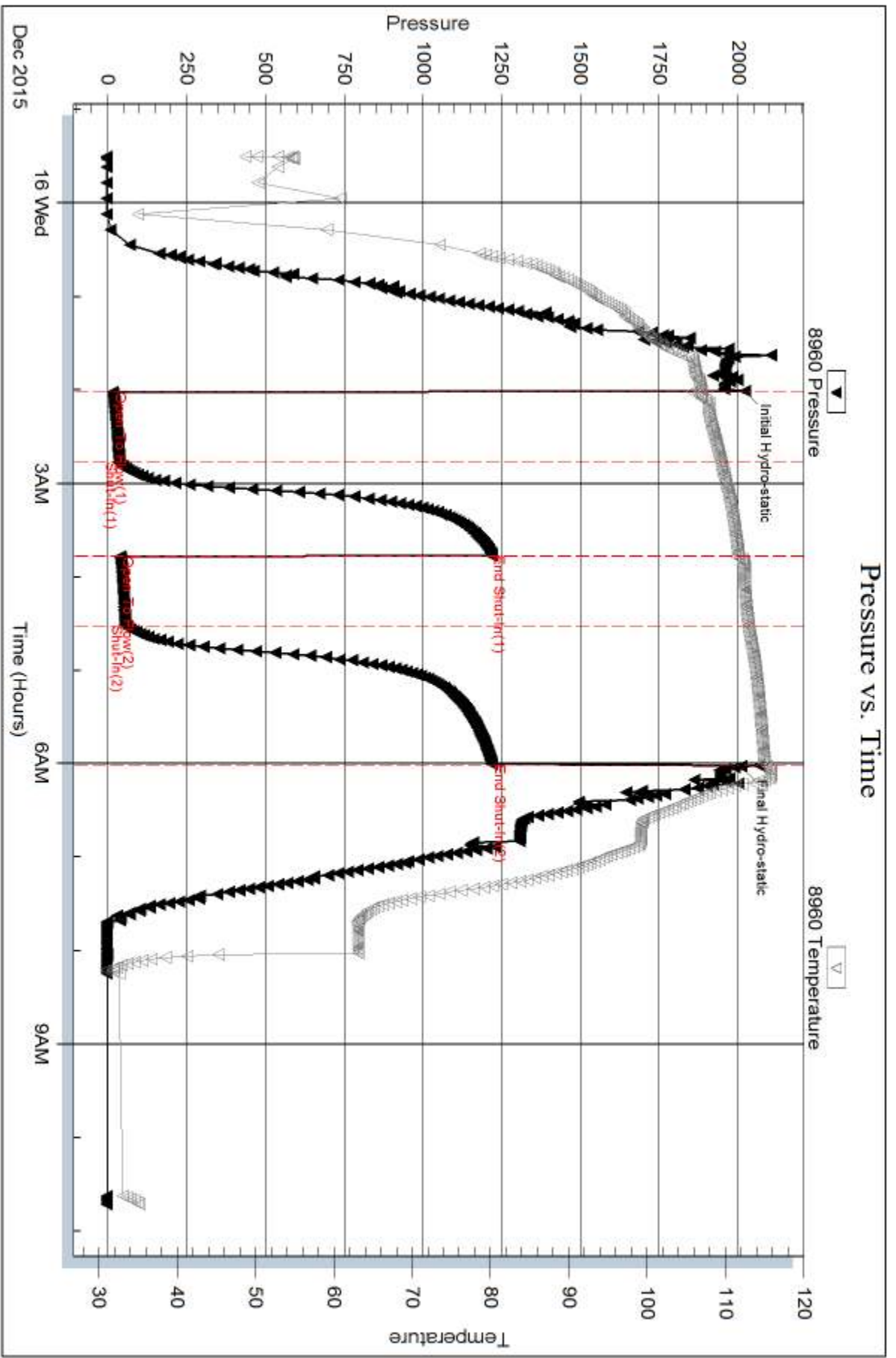
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



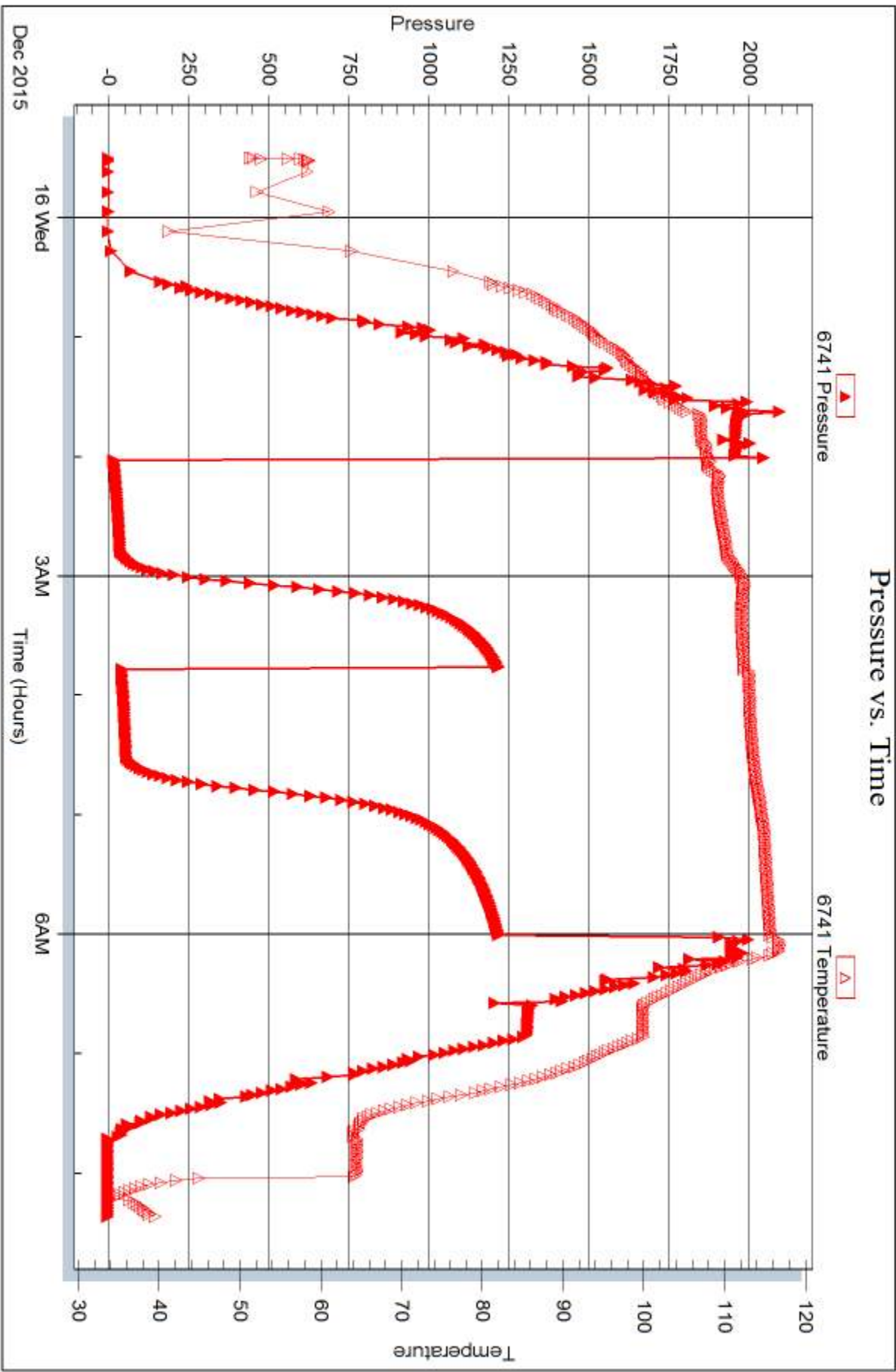
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Inside

Suenor Exploration & Production LLC

Schroeder #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 64972

Printed: 2015.12.17 @ 16:00:09



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

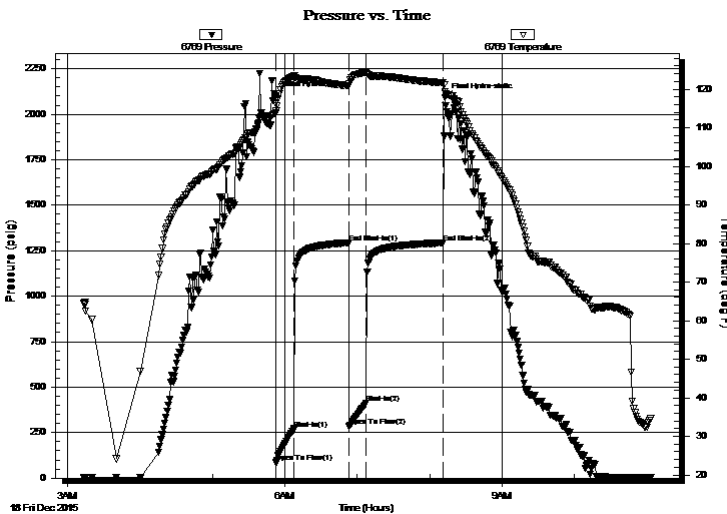
TEST COMMENT: 15 - IF: Blow built to BOB (11") at 2 1/2 min. (Diesel in bucket)

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

Gas Rates

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

* Recovery from multiple tests



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 #: 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:

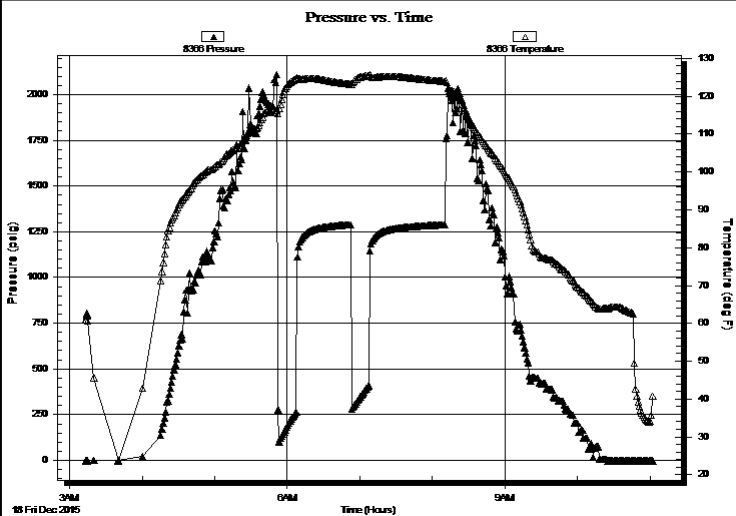
Time Off Btm:

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

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 in³

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 #:

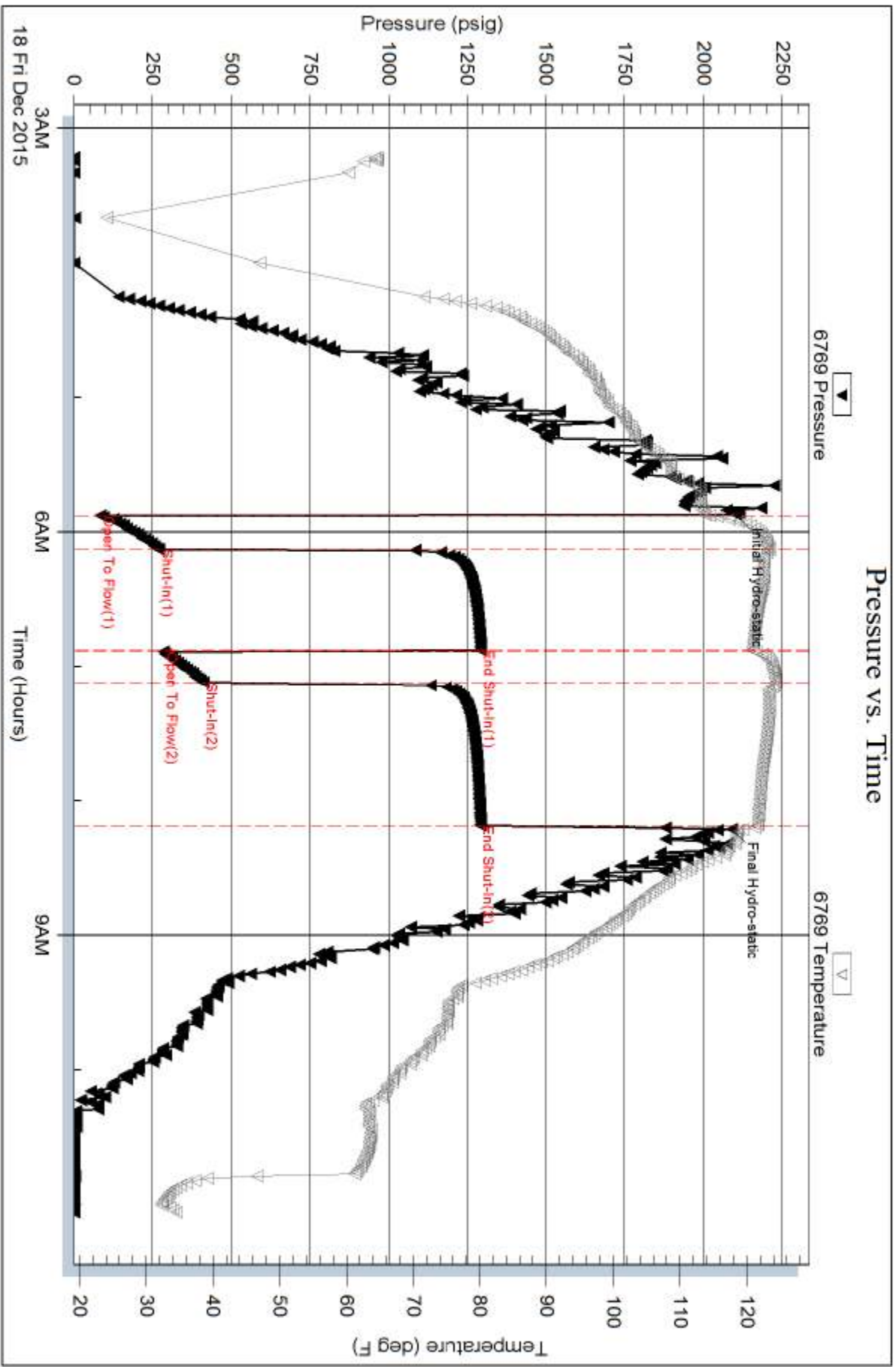
Laboratory Name:

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

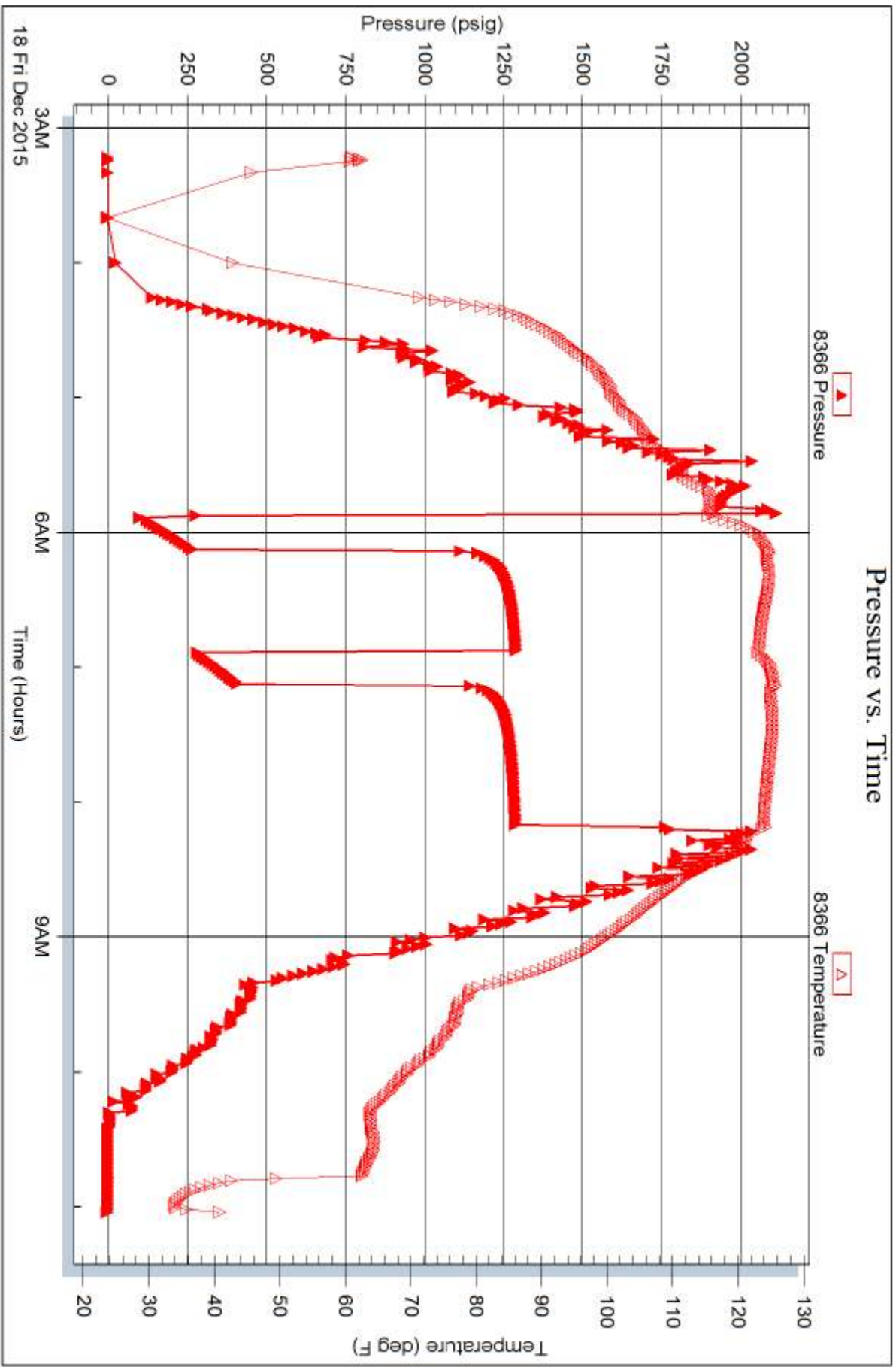


Serial #: 8366

Outside Suemaur Exploration & Production LLC

Schroeder #1

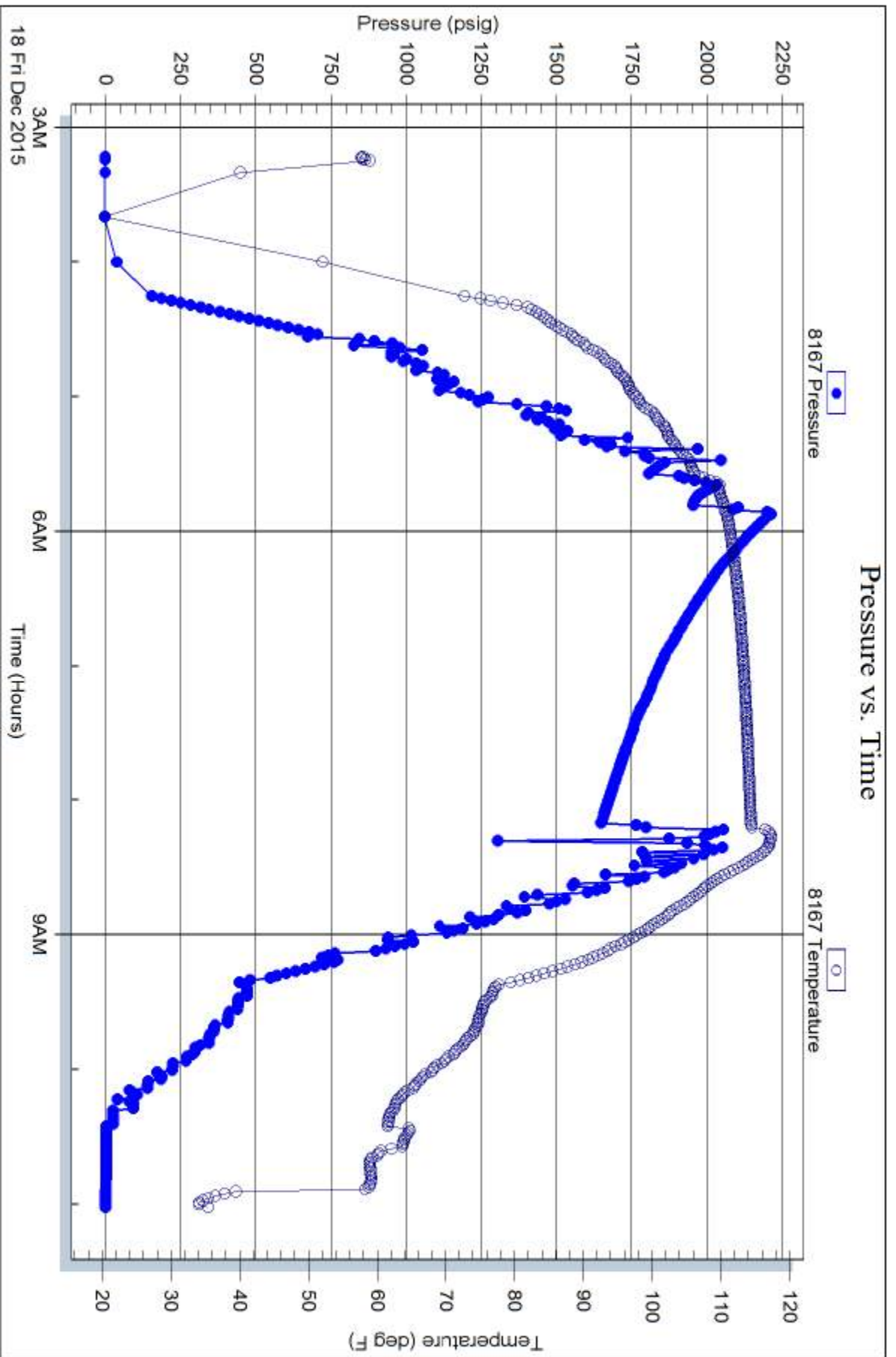
DST Test Number: 6

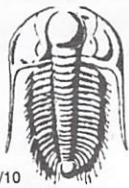


Trilobite Testing, Inc

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
for LLC
 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
 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. 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 Zecher
 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.

Test Ticket

NO. **64970**



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

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 _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 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
 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. **64972**

Well Name & No. Schroeder #1 Test No. 5 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 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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic <u>2020</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>22:30 12-15</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:30 12-15</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:01 12-16</u>
(D) Initial Shut-In <u>1217</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>06:01 12-16</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:21 12-16</u>
(F) Second Final Flow <u>56</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT x 2</u>	Comments <u>Drove out loaded</u>
(G) Final Shut-In <u>1220</u>	<input type="checkbox"/> Sampler <u>+60</u>	<u>tool at 15:00 on 12-17</u>
(H) Final Hydrostatic <u>2009</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1595</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1595</u>	

Approved By _____ Our Representative Robert Zedlow
 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. 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

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 15
 Initial Shut-In 45
 Final Flow 15
 Final Shut-In 60
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2135
 Sub Total 2135
 Total 2135
 MP/DST Disc't _____

Approved By [Signature] Our Representative James Winder

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GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

**SUEMAUR
EXPLORATION & PROD., LLC**

WELL: SCHROEDER #1
SEC. 26 TWP 6S RGE 28W
NE SW SW SE
365' FSL & 2246' FEL

SHERIDAN COUNTY, KANSAS
API: 15-179-21414-00-00

DRILLING CONTR.: MURFIN RIG #7
SPUD: 12-09-15 COMP: 12-18-2015
MUD UP: 3050' TYPE MUD: CHEM.
DRILL TIME: 3350 to' RTD
RTD: 4475'LTD: 4476'
SAMPLES SAVED: 3350'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION
KB: 2733
GL: 2728
LOG MEASURED
FROM: KB

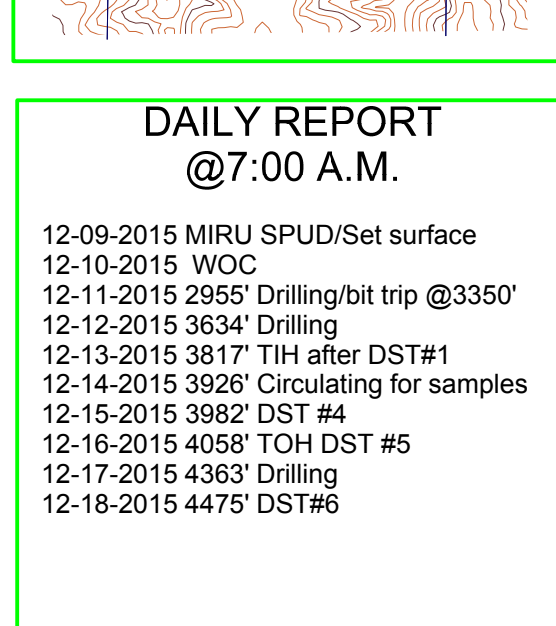
SURFACE CASING
8 5/8" Set @ 346' KB
W/250 SX 3% CC 2%gel

PRODUCTION CASING
5/2" Set

WELL LOG SURVEYS
DIL/DCP/Sonic/Micro

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	WELL A	WELL B	WELL C*
Stone Corral	2464	+269	+11	+14	N/A
Base Stone Corral	2496	+237	+12	+13	N/A
Howard	3597	-864	+18	+34	N/A
Topeka	3645	-912	+17	+32	N/A
Heebner	3847	-1114	+17	+35	+15
Toronto	3873	-1140	+19	+35	+16
Lansing	3898	-1156	+22	+35	+15
Muncie Cr. Shale	3998	-1265	+18	+39	+16
Stark	4052	-1319	+21	+36	+30
BKC	4097	-1364	+24	+39	+28
Pawnee	4192	-1459	+20	+33	+23
Cherokee LS	4293	-1560	+19	+34	+39
Miss	4423	-1690	+12	+69	+17



REFERENCE WELL:

Well A	Well B	Drill time tops
API: 15-179-00141	15-179-20736	Well C *
Lease: Cooper #1	DIAMOND SHAMROCK	(Drill time only-3800 to RTD)
Leben Drilling Inc.	W J COPPINGER	
19-6-27W	WAGONER #1	
Sec. 34 T6S R28W	Sec. 34 T6S R28W	
SW SW SW SW	SW NW NW 1.51 Mi to SW)	
app 1 mile NW		

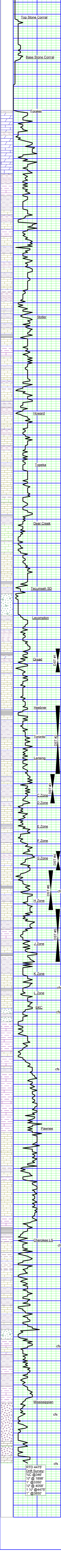
REMARKS AND RECOMMENDATIONS

The operator has decided to run casing to test for commercial production.

Respectfully Submitted,
Robert J. Petersen
Robert J. Petersen

**DAILY REPORT
@7:00 A.M.**

12-09-2015 MIRU SPUD/Set surface
12-10-2015 WOC
12-11-2015 2955' Drilling/bit trip @3350'
12-12-2015 3634' Drilling
12-13-2015 3817' TH after DST#1
12-14-2015 3926' Circulating for samples
12-15-2015 3982' DST #4
12-16-2015 4058' TOH DST #5
12-17-2015 4363' Drilling
12-18-2015 4475' DST#6



SAMPLE DESCRIPTION

Dolo: Gray/dark gray/tan, fine crystalline, sl foss + SH; Red/dark gray (3360)

LS: Cream/gray, mottled, fine crystalline, sl dolo, chalky + SH; Green + SH; Gray, sandy (3470)

LS: Tan/dark gray, fine crystalline, dolo, chalky, mottled + SH; Dark gray + SD; Red/orange, coarse, dolomitic (3480)

LS: Cream/gray, mottled, fine crystalline to dense, sl dolo, chalky, cherty (light gray/blocky sl mottled) (3390)

LS: Cream/gray, mottled, fine crystalline to dense, dolo, chalky, cherty (tan/gray)(3400)

LS: Tan/cream/gray, fine crystalline, dolo, chalky, cherty (gray angular to blocky)(3410)

SH: Red, silty-sandy, whard dense, calc concretions (3420)

LS: Gray/dark gray, mottled, fine crystalline, w/black shale clasts (breccia) + LS, Tan, dense + SH; Red/gray, sandy, SD; Red, hard, vfg (3430)

LS: Tan, dense, ool + SH; Green/gray, sandy, SD; Gray, vfg, hard + LS; Gray/dark gray, mottled, fine crystalline, dolo (3440)

SH: Gray, sandy (3450)

LS: Gray/cream, fine crystalline to dense (3450)

LS: Gray/dark gray, fine crystalline to dense, foss + SH; Dark gray/SH; Gray, silty (3460)

LS: Tan/gray, dense, foss, subchaly + SD; Gray, fine grained, friable to well-cem. tr dead stain (3470) + SH; Red/gray (3476)

SH: Gray, sandy (3480)

LS: Cream/tan, dense, foss, subgran, chalky + LS; Gray, dense (3490)

SH: Gray/dark gray (3500)

LS: Cream/tan, dense, sandy, cherty, tr SD; Tan/clear, coarse (3500)

LS: Cream/tan/gray, fine crystalline to dense, ool, granular (3510)

SH: Red, sandy, hard, calc (3510-3520)
SD: Gray, very fine grained, silty, tr SD; Clear, coarse, SH; Gray, sandy, mic (3520)

LS: Cream, fine crystalline, foss, gran + LS; Tan/lt gray, dense, sandy, cherty, tr dead flakey stain (3520)

LS: Tan/cream, fine crystalline to dense, very foss, granular + LS; Cream/gray, dense + SH; Red/gray, sandy, tr SD; Clear, coarse, well-cem (3530)

SD: Gray, very fine grained, silty-micaceous, well-cem (3540)
LS: Gray, dense, sandy + SH; Red/gray (3540)
SH: Black (tr 3540/flood 3550)

LS: Gray/dark gray mottled, fine crystalline to dense, very foss + LS; Tan/gray, dense, sl foss, SH; Gray, sandy-micaceous (3550)

SH: Black (flood) + LS; Gray/dark gray, mottled, chalky, shaley (black), cherty + SH; Gray, silty-sandy + SD; Red/gray, fg, well-cem to hard, silty(3560)

LS: Cream/tan, very fine crystalline to dense + LS; Gray, dense (3570)

SH: Gray, silty-sandy (3570)
SH: Dark gray (3580)
LS: Cream, fine crystalline, sl foss, tr vug por (barren) (3580)

LS: Cream/lt gray, fine crystalline, sl dolo, chalky (3590)

LS: Cream/tan, fine crystalline, ool/foss, chalky (3600)

SH: Red/gray (tr 3600)

LS: Cream/lt gray, fine crystalline, tr glauc, cherty (white) (3610)

LS: Cream/lt gray, fine crystalline, foss, chalky, cherty (gray) (3620)

SH: Red/gray, sandy (3630)

Morgan Mud Check Vis 76W 8.7W 6.0

LS: Cream/gray, fine crystalline, foss, chalky (3630)

SH: Red/gray, sandy + SD; Red/dark gray (shaley), coarse (3640)/few loose coarse clear SD grains, tr SH; Black (3650)

LS: Cream/lt gray, fine crystalline ool/foss, w/some red shale impurity (3660)

LS: Cream, fine crystalline, foss, chalky + LS; Lt gray, fine crystalline to dense + SH; Red, silty (3670)

LS; Lt gray, fine crystalline, fine crystalline to dense, foss (3680)

LS: Cream/tan, fine crystalline, ool, granular, foss in part, chalky, tr oomoldic por (barren) (3680)

LS: Cream/gray, fine crystalline, ool/foss, sl dolo, tr chert, chalky (3690-3700)

SH: Black (3700)

SH: Red/gray, sandy (3700) tr SD; Gray, fine grained, friable (3710)

LS: Cream/tan, fine crystalline, ool/foss, sl dolo, very chalky (soft-white) (3710)

LS: Cream/gray, dense, chalky (soft-white) (3710/30) +SD; Maroon/gray, silty-sandy (3720)

LS: Cream/gray, fine crystalline to dense, sl foss, very chalky-soft (3730)

LS: Cream/lt gray, fine crystalline to dense, ool - subgran, chalky + SH; Gray (3740)

LS: Cream/gray, dense, foss, cherty (3750)

LS: Cream/tan/gray, fine crystalline, oolitic-granular, cherty, no vis por, tr dead flakey stain (3760)

SD: Gray, fine grained, angular, friable to well-cemented + SH; Gray/green, silty-sandy (3770)

LS: Tan, dense, oolitic-granular, in part, mottled + SH; Red (3780)
SH: Red, silty-sandy (3790)

LS: Cream, fine crystalline, oolitic-granular w/trace poor oomoldic por (barren-nso) (3790)

SH: Red, silty-sandy (3800)

LS: Cream, fine to med crystalline, foss, chalky (3800)

LS: Cream/lt gray, fine crystalline, foss (3805) sand inclusions (3805/30")

SH: Black carb (3805/30") + SH; Red/gray (3810)

LS: Tan, fine crystalline, foss, dolomitic, w/fair moldic/intercrystalline por, gfto, good odor, dark sp. to full sat on dry (3817/20") Morgan Mud Check Vis 62W 9.0W 6.0

LS: Cream/tan, fine crystalline, dolomitic, tr poor moldic por, decr sfo + odor (3817/40")

LS: Cream, fine crystalline, ool, dolo, very chalky (3827/30")

LS: Cream/tan, fine crystalline to dense, ool, chalky (3840)

LS: Cream/lt gray, fine crystalline to dense, ool/foss in part, trace chert (3850)

LS: Tan/gray, fine crystalline to dense, foss, dolo, chalky, trace dead oil stain/flakey oil (black)(3860)

SH: Black (abundant 3860)

LS: Tan, dense, foss (3870)

SH: Gray/red, silty-sandy, trace sd clusters, fg, shaley/calc (3870) trinc (3880)

LS: Tan, fine crystalline, ool, moidic, subgran, cherty, some-chert matrix, trace fair moldic por, sfo (black), no odor, dark patchy stain (3880)

LS: Cream/tan/white, fine crystalline, sl foss, chert, very chalky w/poor moldic por, sfo (heavy/black) (3880/30")

LS: Cream/lt gray, fine crystalline, sl foss, chalky (3880)

SH: Gray, sandy (flood 3895)

LS: Cream, oolitic-granular w/poor intergranular, w/good moldic por, gfto (brown), fair odor, dark brown full sat on dry (3926/20")

LS: Cream, fine crystalline, sl foss, very chalky w/trace edges stain on fracture por (3902/15")

LS: Cream, fine crystalline, ool, chalky, trace poor moldic por, to good moldic/vug por, poor intergran por, sfo, odor, med brown stain on dry (3902/30")

LS: Cream, fine crystalline to dense, chalky, cherty + SH; Gray/dark gray (3902/45")

LS: Lt gray, fine crystalline, sl dolo + SH; Red (3910)

LS: Cream, fine crystalline, ool, chalky (3915-3920)

SH: Gray/dark blue-gray, sandy (3920)

SH: Red, sandy (3925) Morgan Mud Check Vis 58W 9.1W 6.0

LS: Cream, fine crystalline, very foss, sub-gran to granular, w/good moldic por, gfto (brown), fair odor, (3950) good moldic por, gfto, incr odor, + Chert Black, sl foss, blocky (4000)

LS: Cream, fine crystalline, ool, chalky, trace poor moldic por, decrease sfo/odor from 3926/20" sample + SH; Green/red (3926/40-60") sample box empty @60 min

LS: Cream, med crystalline, very foss, chalky, cherty (3933/20")

LS: Gray, fine crystalline, ool, chalky (3915-3920)

SH: Gray/dark blue-gray, sandy (3932)

SH: Black (tr 3955/3960)

LS: Cream, fine crystalline, ool, very chalky (3960/3965)

SH: Red/gray (3965 /incr. 3968)

LS: Cream/tan, fine crystalline, foss/ool, very chalky, chert(brown/tan/blocky)(3968)

LS: Cream/lt gray, fine crystalline-dense, chalky, cherty (tan/brown/blocky)(3968/20)-3975)

SH: Red/gray, silty, sandy (3980)

LS: Cream, fine to coarse crystalline, very foss, w/good moldic/intercrystalline por, gfto (brown), good odor, medium brown patchy to full sat on dry (3982/40-60")

LS: Cream/lt gray, fine crystalline to dense, foss, cherty (tan/cream/block) with chert matrix, fair moldic por, sfo, odor (3995) good moldic por, gfto, incr odor, + Chert Black, sl foss, blocky (4000)

SH: Black/dark gray + ool, abund SH; Reddish-brown (4000)

LS: Tan, dense, sl ool, cherty, tr stain (4000/20-40")

SH: Red/gray, silty, sandy (4005 poor sample returns)

SH: Red, sandy, tr black shale (4040) trace LS; Cream, dense, chalky (4050)

LS: Cream/lt gray, fine crystalline, very foss, variegated w/fair intergranular/moldic por, sfo (brown), faint odor (4053/10") increase 4053/30")

LS: Cream/lt gray, fine crystalline to dense, chalky, cherty (4058)

SH: Black/gray (4058) + SH; Red/gray (4035)

LS: Gray, dense, sl ool, cherty + SH; Red(4090)

LS: Gray, fine crystalline to dense, foss, very chalky (soft white), no vis por (4100/20)

LS: Cream, fine crystalline, ool, foss in part, subgranular to granular, chalky, yellow mineral stain (4100/20')

SD: Gray/red, calcareous, shaley, friable (4100/20')

SH: Red/gray, sandy (4110)

SD: Red, shaley, fine to med grained + Calc nodes + LS; Gray, dense, shaley (red) (4120)

LS: Cream/lt gray, dense, sl foss + SH; Red/green (4130)

SH: Red/gray, sandy + SH; Dark gray, blocky (4140)

LS: Cream/lt gray, fine crystalline to dense, foss, chalky, cherty tr poor ppt por, vsfso, no odor, tr questionable gray stain on dry (4140)

SH: Red, sandy + SD; Red, shaley, fine grained, friable (4147)

LS: Gray, fine crystalline, dense, ool, chalky shaley (red), trace dead black stain dry, apparent frac por (4147/20')

LS: Cream/gray/brown, fine crystalline to dense, foss, cherty, shaley red, tr black dead stain on frac + SH; Red/gray, sandy (fine to coarse poorly sorted) (4160)

LS: Cream, fine crystalline, foss, chalky + LS; Lt gray, sandy + SH; Maroon-sandy w/dense calc nodes, SH; Green + SD; Lt gray, friable (4170)

LS: Cream/lt gray, fine crystalline, foss, chalky + SH; Red/maroon/gray/bottle green + SD; Red/gray, fine grained, shaley (4180)

SH: Reddish-brown/bottle green, sandy whard concretions + SD; Lt gray + LS; Lt gray, fine crystalline, foss, brecciated w/shale intrusions (4190)

SH: Reddish-brown, silty-sandy, SD. Gray-dark gray, fine grained, hard + LS; Gray, dense, chalky, chert (4200)

LS: Cream/lt gray, dense, cherty (tan/orange) + SD; Gray, very fine grained, silty + SH; Gray (4210)

LS: Cream/lt gray, dense + SH; Gray, sandy (vfg) (4220)

LS: Cream/lt gray/gray, dense + SH; Gray, sandy (4230-4240) + Chert; Black, blocky (4240)

SH: Dark gray/olive (4240)

LS: Cream/gray, dense, Chalky-cherty + SH; Gray (4250)

LS: Cream/tan, fine crystalline, ool-granular/sub-granular w/chalky matrix (4260)

LS: Cream/tan, fine crystalline, ool, chalky, trace poor ppt por, tr larry oil, no odor (4270)

LS: Gray, dense, arg tr LS; Cream/tan, fine crystalline to dense, tr dead stain, no vis por, trace SH; Black (4280) (4280)

SH: Black (flood 4290)

SH: Dark gray/black (abund) + LS; Gray, dense, arg, tr SD; Clear, fine grained, friable(4295)

SH: Dark gray/black (abund) + LS; Cream/dark gray, dense, chalky (4295/20"-4295/40")

LS: White/gray, dense, chalky (4295/60" sl incr 4300)

LS: Cream/graytan, dense, very foss, chalky +SH; Gray/black (4310)

LS: Cream/tan/gray, dense, foss in part, very chalky, tr dead stain (black), no vis por + SH; Black/SH; Gray-silty (4320)

LS: Cream/tan, dense, foss, chalky + SH; Red, sandy, tr SH; Black, tr SD; Clear, fg, friable, calc (4330)

LS: Cream/white/tan, dense, foss, chalky + SD; Red/gray, calc, shaley (4340)

LS: Cream/white, dense, chalky + SH; Gray/green, tr SD; Gray/cream, fine to coarse, sr, friable (4350)

LS: Cream/gray, dense + SH; Red, sandy (fine to coarse), w/wef cluster, poorly sorted sd (4460)

Morgan Mud Check Vis 65W 9.4W 6.0

SH: Red, sandy, SD; Gray, fg calc + LS; Gray/brown, dense + SH; Green, waxy (4370)

SD: Clear, fine to coarse, subangular, poorly sorted, hard + SH; Red, sandy/SH; Green-platey, SH; Gray, blocky (4377)

SH: Red, sandy, w/dense, poorly sorted Sd clusters + LS; Gray/cream, dense, w/mustard yellow/red shale discoloration (4377/20'-4390)

SH: Red, sandy + SD; Clear, coarse, loose w/vef clusters + SD; White, fine grained, calc + LS; Cream, dense, chalky (4400) + tr Chert; Brown, blocky, Chalky +SH; Green/gray (4410)

SH: Red, sandy + SH; Black/olive + LS; Gray, dense, chalky + SD; Clear, fine to med, well-cem (4420)

SH: Red, sandy, hard, blocky + SH; Green, SD; Gray, fine grained, trace Chert, Brown + LS; Cream, foss, chalky (4430)
[Drilled Rough 4424']
Chert; Yellow/white, sharp, sl foss + tr LS; Tan/gray, dense + tr SH; Red (4434/20")
Chert; Yellow/white, blocky, tr LS; Cream, dense, foss, few loose crin stem frag + SH; Red, hematite nodes (44450)

Chert; Yellow/gray, sharp-angular + SH; Brick/red/green + LS; Cream, dense, chalky (4460)

4450
Chert; Yellow/gray + Dolo; Tan, dense tr LS; Gray, dense + SH; Gray (4470)

Dolo; Tan, dense + Chert; Yellow/white, w/tr tripolitic, blocky + SH; Green (4475)

Dolo; Gray, fine crystalline to dense, chalky + Chert; White-opaque (4475/30")

Dolo; Cream/gray, fine to med crystalline, chalky + Chert; Yellow/gray (4475/60")

RTD 4475'
Drift Survey:
1/2" @ 346'
1/2" @ 389'
1" @ 3350'
1/2" @ 4058'
1 1/2" @ 4475'
1" @ 3850'

DST #1
3902 to 3926"
30-60-30-90 min
IF: Bottom of bucket in 12 min.
ICIP: Return surface blow built to 1 1/4 in.
FF: Bottom of bucket in 18 min.
FCIP: Bottom of bucket in 20 min.
FCIP: Surf blow started in 25 min/died in 45 min.
SIP: 1259-1259#
240' Gassy oil (15% gas)
60' Gassy oil cut mud (10% gas/55% mud)
HP: 1956-1946#
BHT: 116F
Oil Gravity: 35 API

DST #2
3845-3902
45-60-45-90
ICIP: Surf blow started in 25 min/died in 40 min.
FF: Built to 6 in
FCIP: Surf blow started in 25 min/died in 45 min.
60' Gassy mud cut oil 20% G / 30% mud
HP: 1969-1946#
BHT: 113F

DST #3
3902 to 3926"
30-60-30-90 min
IF: Bottom of bucket in 12 min.
ICIP: Return surface blow built to 1 1/4 in.
FF: Bottom of bucket in 18 min.
FCIP: Bottom of bucket in 20 min.
FCIP: Surf blow started in 25 min/died in 45 min.
SIP: 1259-1259#
240' Gassy oil (15% gas)
60' Gassy oil cut mud (10% gas/55% mud)
HP: 1956-1946#
BHT: 116F
Oil Gravity: 35 API

DST #4
3965-3982"
30-60-30-90"
IF: Bottom of bucket in 25 min.
FCIP: Return surface blow built to 1 1/4 in.
died back to surface.
FF: Bottom of bucket in 25 min.
FCIP: Return surface blow built to 1 in. died in 52 min.
SIP: 1259-1259#
140' Gassy oil 25% gas
60' Gassy oil cut mud 15% gas/20% oil
SIP: 1272-1272#
FF: 35-65/65-99#
HP: 2000-1988#
BHT: 117F
Oil Gravity: 37 API

DST #5
4014 to 4058"
45-60-45-90"
IF: Blow built to 4 in.
FF: Blow built to 5 in.
No return blow on shut-ins
Recovered: 15 ft Gassy oil 10% gas
75' Gassy oil cut mud 10% gas/25% oil
SIP: 1217-1220#
FF: 20-20/20-50#
HP: 2020-2009#
BHT: 115F
Oil Gravity: 35 API

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type ALW 45/35 679 gal 145 ft
610000 PSI 330.6 - 170, 14 lb 312 gal Excess _____

Amt. 180 Sks Yield _____ ft³/sk Density _____ PPG

Pump Time 700 hrs. Type _____ Excess _____

Amt. 405 Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 566-281

Bulk Equip. 891

373

Float Equip: Manufacturer _____

Shoe: Type AF1 Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity 700 mag 50 Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type H₂O Amt. 59 Bbls. Weight _____ PPG

Mud Type H₂O Weight _____ PPG

CEMENTER AL

Date 12/12/15 District Dakota Ticket No. 007713
 Company San Marcos Exp Rig 4007
 Lease Subroad Well No. 1
 County Sioux State SD
 Location _____ Field _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type ALW Weight _____ Collar _____

Casing Depths: Top 146 Bottom _____

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.8 Lin. ft./Bbl. _____

Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Calculation, 47.0, 8.0, 5.0
				20.0	8.0	Annulus Circulate
				20.0	8.0	Mix - Pump - Flush
				22.0	5.0	Mix - Pump - Flush
				47.0	8.0	Mix 180 SK BSL
	700			59	8.0	Wash Tank
	1800					Displace H ₂ O
	800					Displace Big Annul
						Lead Plug
				5.0	2 1/2	Open Tool - Circulate 3 hrs
				24.2	3 1/2	Mix - Plug RT 30
	300			105.0	5.0	Mix ALW Ann 5 1/2 - 360 - 312
						Wash Tank
	900			59.0	7.0	Displace H ₂ O
	2100					Lead Plug
						Tool Closed Cement did Circulate
						Thank U

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU

