



## DRILL STEM TEST REPORT

Prepared For: **Coachman Energy Operating Company, LLC**

1125 17th St., Suite 410  
Denver, CO 80202

ATTN: Charlie Sturdavant

**21-14S-20W Ellis,KS**

**Seibel Farms #1-21-14-20**

Start Date: 2016.09.21 @ 19:15:30

End Date: 2016.09.22 @ 02:32:00

Job Ticket #: 61279                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.26 @ 11:12:15



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61279

**DST#: 1**

ATTN: Charlie Sturdavant

Test Start: 2016.09.21 @ 19:15:30

## GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:40:00

Time Test Ended: 02:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3552.00 ft (KB) To 3614.00 ft (KB) (TVD)**

Reference Elevations: 2247.00 ft (KB)

Total Depth: 3614.00 ft (KB) (TVD)

2239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Inside**

Press@RunDepth: 102.69 psig @ 3578.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.21

End Date:

2016.09.22

Last Calib.:

2016.09.22

Start Time: 19:15:31

End Time:

02:32:00

Time On Btm:

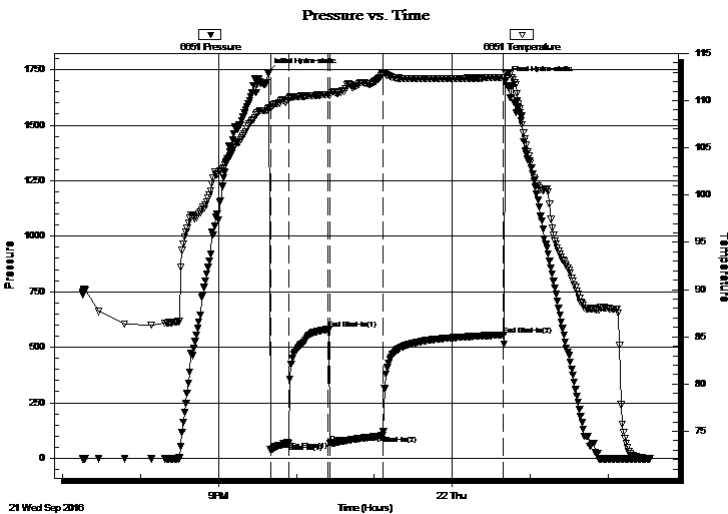
2016.09.21 @ 21:38:00

Time Off Btm:

2016.09.22 @ 00:41:00

**TEST COMMENT:** 15- IF- Slow ly built to 3"  
30- IS- No blow  
45- FF- Slow ly built to 6 1/2"  
90- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.60	109.09	Initial Hydro-static
2	38.26	109.22	Open To Flow (1)
16	67.70	110.23	Shut-In(1)
47	579.93	110.66	End Shut-In(1)
48	65.81	110.57	Open To Flow (2)
89	102.69	112.79	Shut-In(2)
182	555.63	112.46	End Shut-In(2)
183	1699.59	112.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	WM, 20%W 80%M	2.69

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61279

**DST#: 1**

ATTN: Charlie Sturdavant

Test Start: 2016.09.21 @ 19:15:30

## Tool Information

Drill Pipe:	Length: 3529.00 ft	Diameter: 3.82 inches	Volume: 50.03 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3552.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	89.00 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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Change Over Sub	1.00			3526.00	
Shut In Tool	5.00			3531.00	
Hydraulic tool	5.00			3536.00	
Jars	5.00			3541.00	
Safety Joint	2.00			3543.00	
Packer	5.00			3548.00	27.00 Bottom Of Top Packer
Packer	4.00			3552.00	
Stubb	1.00			3553.00	
Perforations	24.00			3577.00	
Change Over Sub	1.00			3578.00	
Recorder	0.00	6651	Inside	3578.00	
Recorder	0.00	8959	Outside	3578.00	
Drill Pipe	32.00			3610.00	
Change Over Sub	1.00			3611.00	
Bullnose	3.00			3614.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 89.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61279

**DST#: 1**

ATTN: Charlie Sturdavant

Test Start: 2016.09.21 @ 19:15:30

### 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:

28000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	WM, 20%W 80%M	2.693

Total Length: 190.00 ft      Total Volume: 2.693 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6651

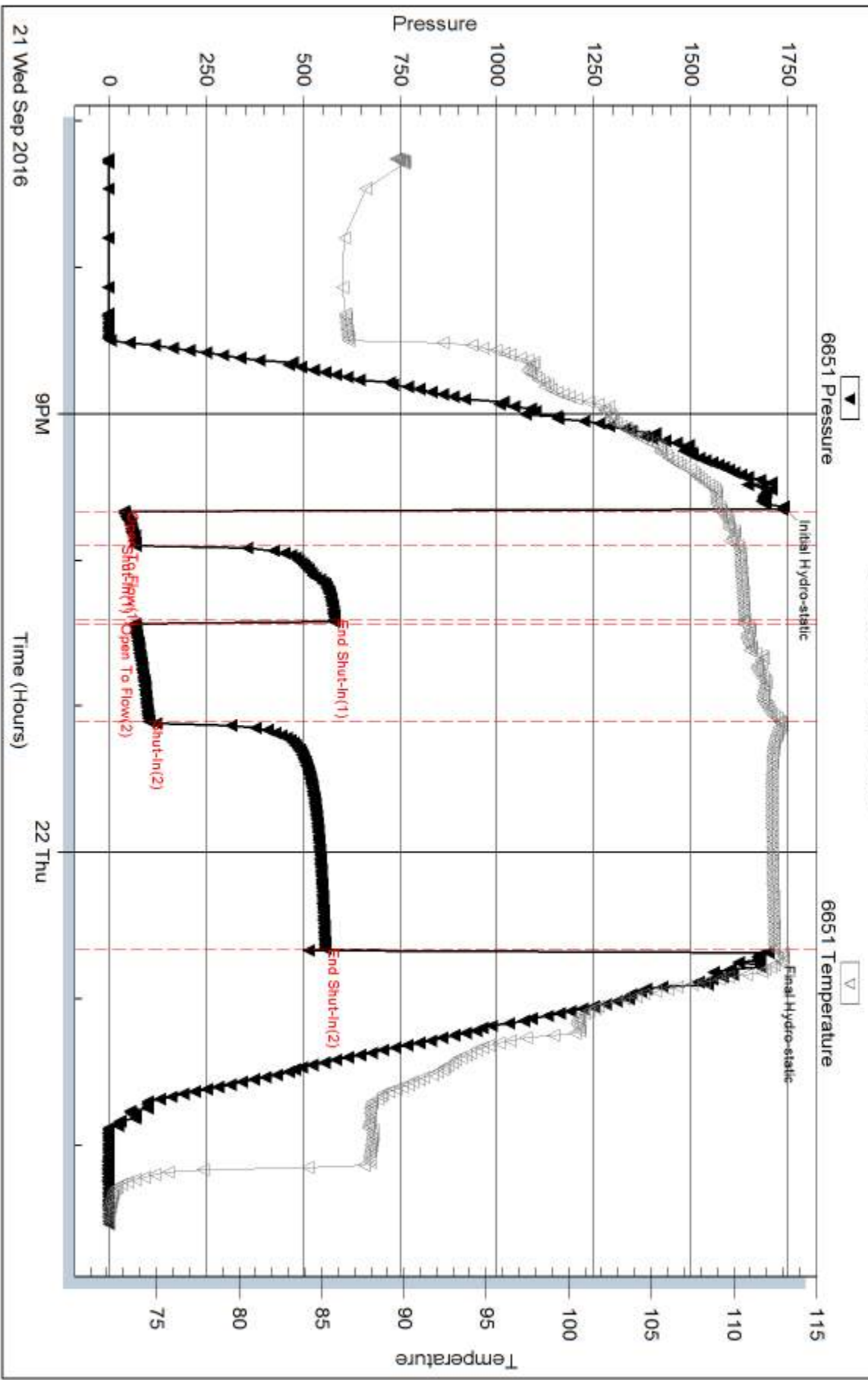
Inside

Coachman Energy Operating Company, LLC

21-14S-20W Ellis, KS

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 61279

Printed: 2016.09.26 @ 11:12:16

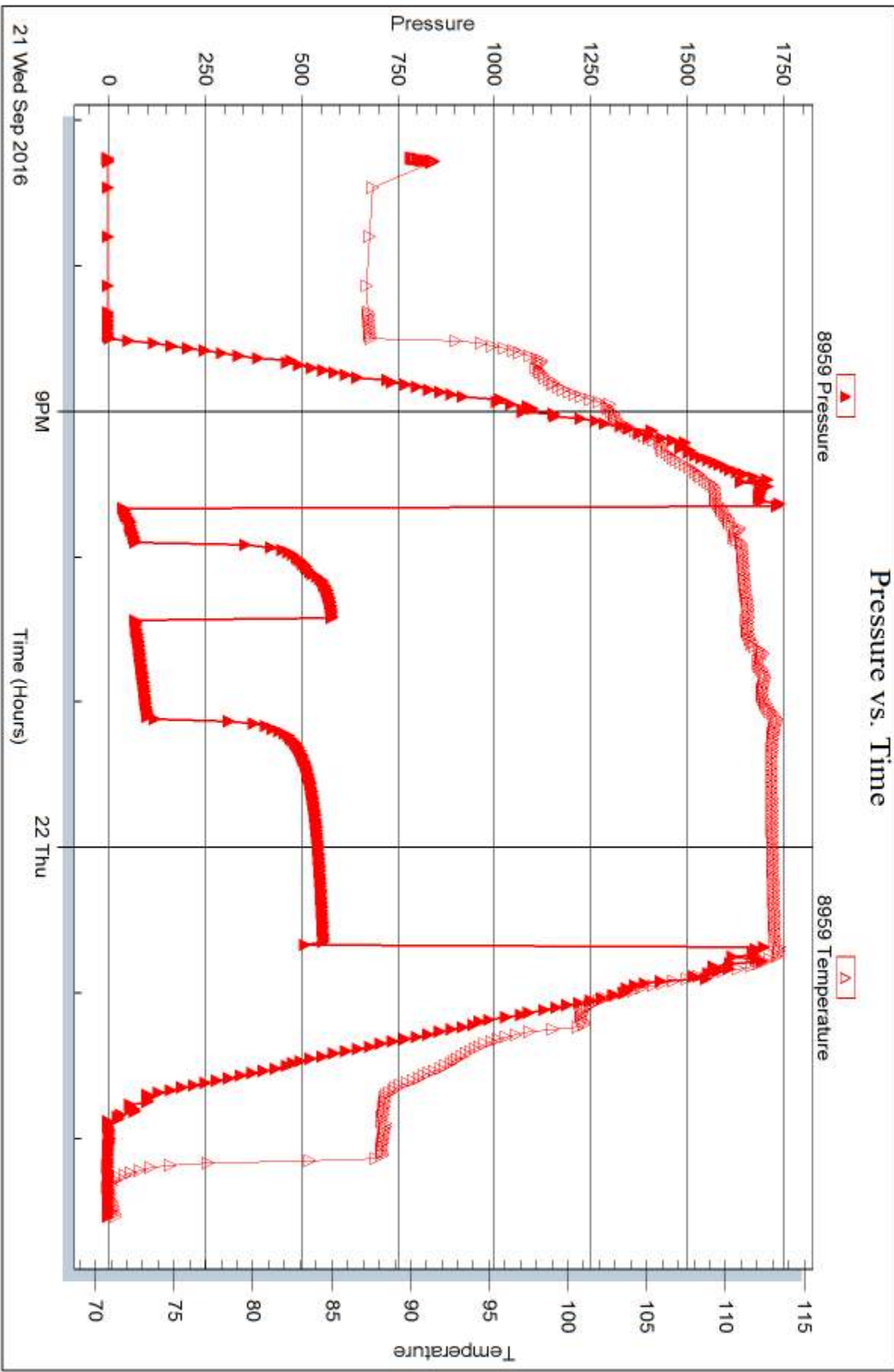
Serial #: 8959

Outside

Coachman Energy Operating Company, LLC

21-14S-20W Ells, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61279

Printed: 2016.09.26 @ 11:12:16



## DRILL STEM TEST REPORT

Prepared For: **Coachman Energy Operating Company, LLC**

1125 17th St., Suite 410  
Denver, CO 80202

ATTN: Charlie Sturdavant

**21-14S-20W Ellis,KS**

**Seibel Farms #1-21-14-20**

Start Date: 2016.09.23 @ 03:22:23

End Date: 2016.09.23 @ 09:08:53

Job Ticket #: 61280                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.26 @ 11:11:49





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

ATTN: Charlie Sturdavant

Job Ticket: 61280

**DST#: 2**

Test Start: 2016.09.23 @ 03:22:23

## GENERAL INFORMATION:

Formation: **LKC "J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:23:53  
 Time Test Ended: 09:08:53  
 Interval: **3671.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Total Depth: 3720.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 2247.00 ft (KB)  
 2239.00 ft (CF)  
 KB to GR/CF: 8.00 ft

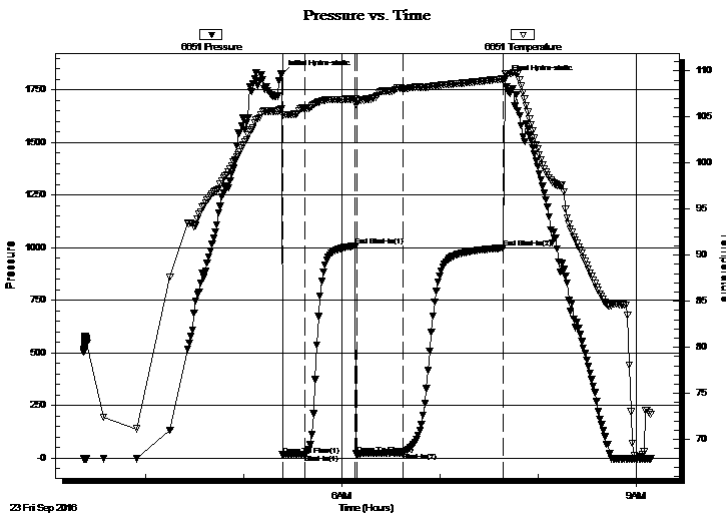
## Serial #: 6651

Inside

Press@RunDepth: 27.52 psig @ 3685.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.09.23 End Date: 2016.09.23 Last Calib.: 2016.09.23  
 Start Time: 03:22:24 End Time: 09:08:53 Time On Btm: 2016.09.23 @ 05:23:23  
 Time Off Btm: 2016.09.23 @ 07:39:53

TEST COMMENT: 15- IF- Weak surface blow built slow ly to 1/4"  
 30- IS- No blow  
 30- FF- Surface blow  
 60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.01	105.87	Initial Hydro-static
1	16.68	105.26	Open To Flow (1)
15	20.14	105.89	Shut-In(1)
45	1009.84	106.97	End Shut-In(1)
46	20.25	106.74	Open To Flow (2)
74	27.52	108.05	Shut-In(2)
136	999.68	109.13	End Shut-In(2)
137	1800.48	109.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM	0.21

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61280

**DST#: 2**

ATTN: Charlie Sturdavant

Test Start: 2016.09.23 @ 03:22:23

## Tool Information

Drill Pipe:	Length: 3655.00 ft	Diameter: 3.82 inches	Volume: 51.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3671.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	76.00 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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Change Over Sub	1.00			3645.00	
Shut In Tool	5.00			3650.00	
Hydraulic tool	5.00			3655.00	
Jars	5.00			3660.00	
Safety Joint	2.00			3662.00	
Packer	5.00			3667.00	27.00 Bottom Of Top Packer
Packer	4.00			3671.00	
Stubb	1.00			3672.00	
Perforations	12.00			3684.00	
Change Over Sub	1.00			3685.00	
Recorder	0.00	6651	Inside	3685.00	
Recorder	0.00	8959	Outside	3685.00	
Drill Pipe	31.00			3716.00	
Change Over Sub	1.00			3717.00	
Bullnose	3.00			3720.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61280

**DST#: 2**

ATTN: Charlie Sturdavant

Test Start: 2016.09.23 @ 03:22:23

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM	0.213

Total Length: 15.00 ft      Total Volume: 0.213 bbl

Num Fluid Samples: 0

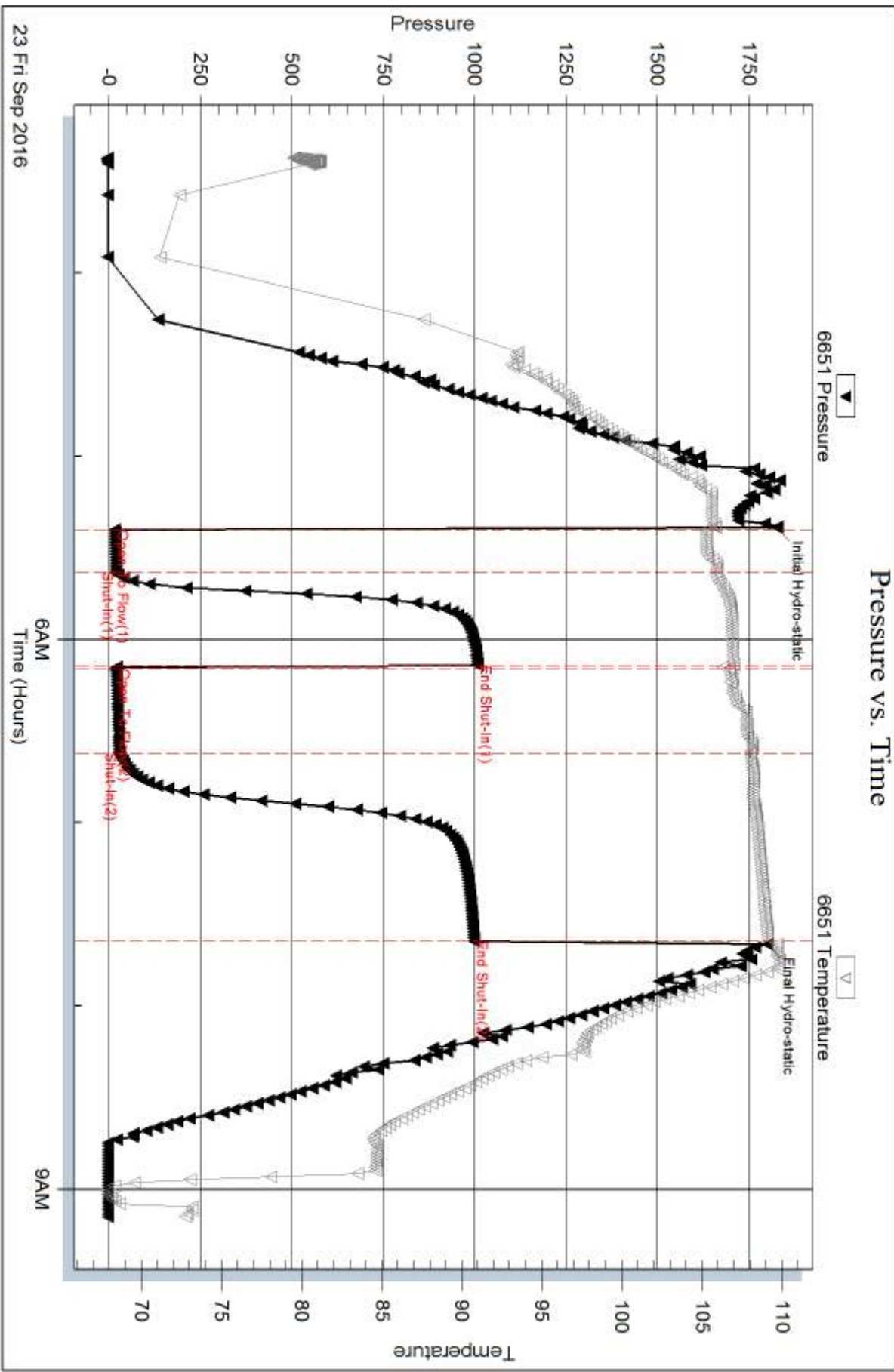
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



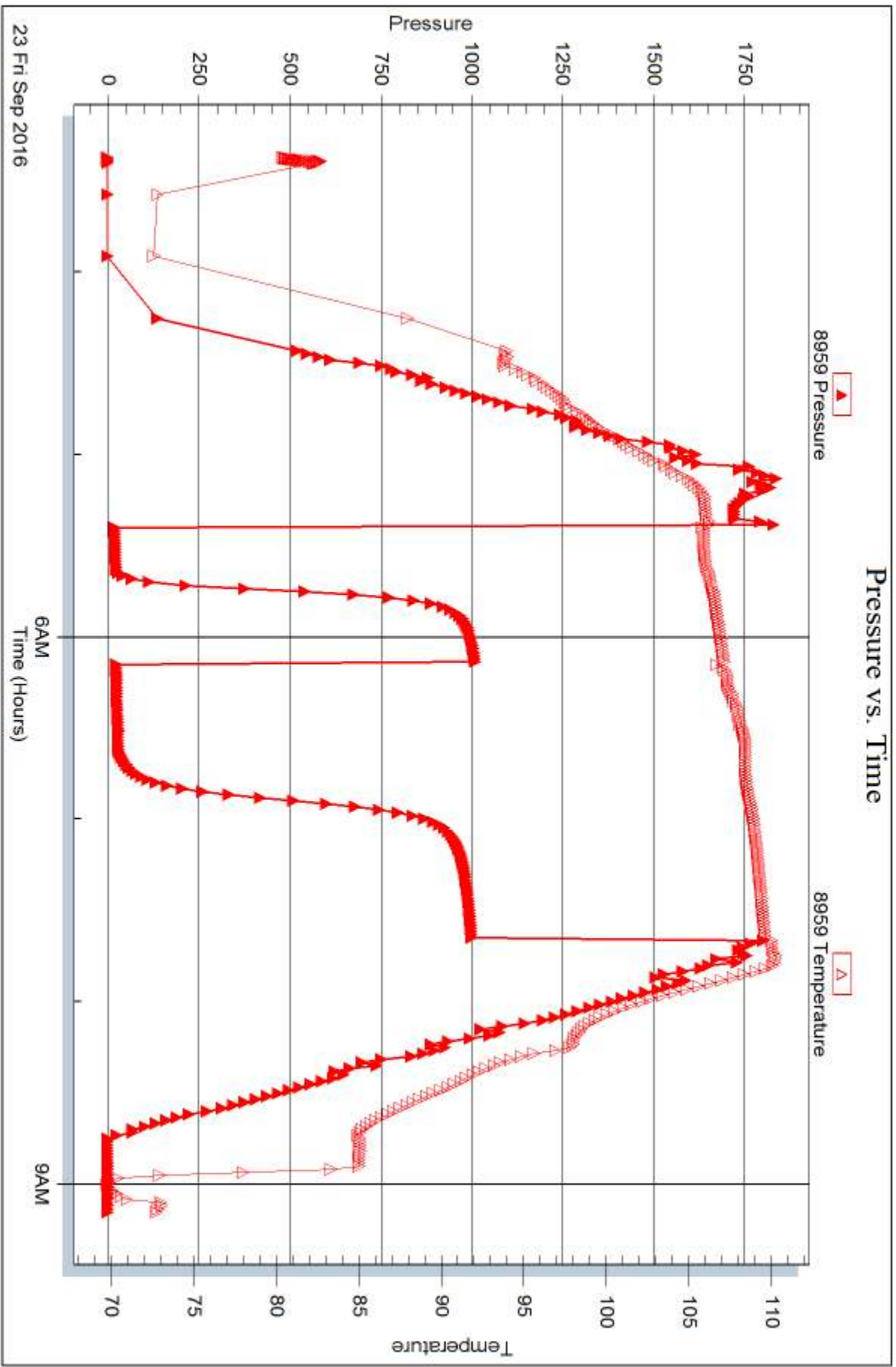
Serial #: 8959

Outside

Coachman Energy Operating Company, LLC

21-14S-20W Ellis, KS

DST Test Number: 2



23 Fri Sep 2016

6AM  
Time (Hours)

9AM



## DRILL STEM TEST REPORT

Prepared For: **Coachman Energy Operating Company, LLC**

1125 17th St., Suite 410  
Denver, CO 80202

ATTN: Charlie Sturdavant

**21-14S-20W Ellis,KS**

**Seibel Farms #1-21-14-20**

Start Date: 2016.09.24 @ 09:52:04

End Date: 2016.09.24 @ 16:39:34

Job Ticket #: 61281                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.26 @ 11:11:07



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61281

**DST#: 3**

ATTN: Charlie Sturdavant

Test Start: 2016.09.24 @ 09:52:04

## GENERAL INFORMATION:

Formation: **Reagan**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:44:04

Time Test Ended: 16:39:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3897.00 ft (KB) To 3903.00 ft (KB) (TVD)**

Reference Elevations: 2247.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Inside**

Press@RunDepth: 747.43 psig @ 3900.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.24

End Date:

2016.09.24

Last Calib.:

2016.09.24

Start Time: 09:52:05

End Time:

16:39:34

Time On Btm:

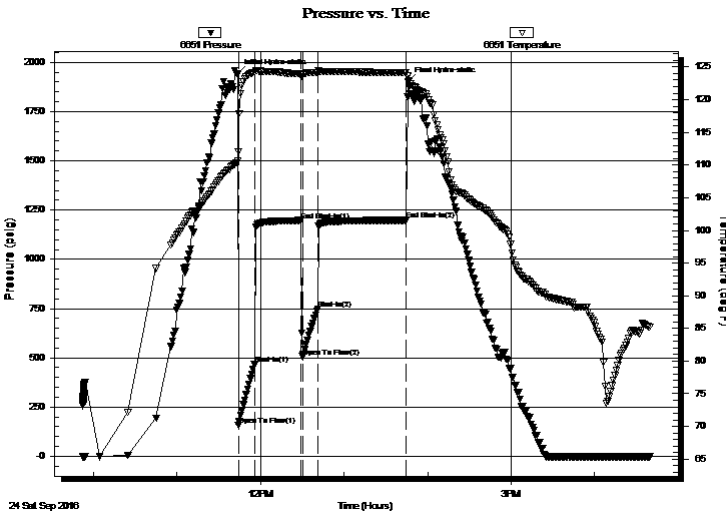
2016.09.24 @ 11:43:34

Time Off Btm:

2016.09.24 @ 13:46:04

TEST COMMENT: 15- IF- BOB 1 min  
30- IS- No blow  
15- FF- BOB 2 mins  
60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.99	110.55	Initial Hydro-static
1	158.80	112.01	Open To Flow (1)
12	465.78	124.19	Shut-In(1)
46	1197.00	123.94	End Shut-In(1)
47	506.20	123.75	Open To Flow (2)
58	747.43	124.18	Shut-In(2)
121	1198.40	124.11	End Shut-In(2)
123	1902.13	123.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1562.00	MW, 15%M 85%W	22.14

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61281

**DST#: 3**

ATTN: Charlie Sturdavant

Test Start: 2016.09.24 @ 09:52:04

## Tool Information

Drill Pipe:	Length: 3875.00 ft	Diameter: 3.82 inches	Volume: 54.93 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3897.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3869.00	
Shut In Tool	5.00			3874.00	
Sampler	2.00			3876.00	
Hydraulic tool	5.00			3881.00	
Jars	5.00			3886.00	
Safety Joint	2.00			3888.00	
Packer	5.00			3893.00	29.00 Bottom Of Top Packer
Packer	4.00			3897.00	
Stubb	1.00			3898.00	
Perforations	2.00			3900.00	
Recorder	0.00	6651	Inside	3900.00	
Recorder	0.00	8959	Outside	3900.00	
Bullnose	3.00			3903.00	6.00 Bottom Packers & Anchor

**Total Tool Length: 35.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coachman Energy Operating Company, LLC

**Seibel Farms #1-21-14-20**

1125 17th St., Suite 410  
Denver, CO 80202

**21-14S-20W Ellis,KS**

Job Ticket: 61281

**DST#: 3**

ATTN: Charlie Sturdavant

Test Start: 2016.09.24 @ 09:52:04

### 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:

41000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1562.00	MW, 15%M 85%W	22.142

Total Length: 1562.00 ft      Total Volume: 22.142 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

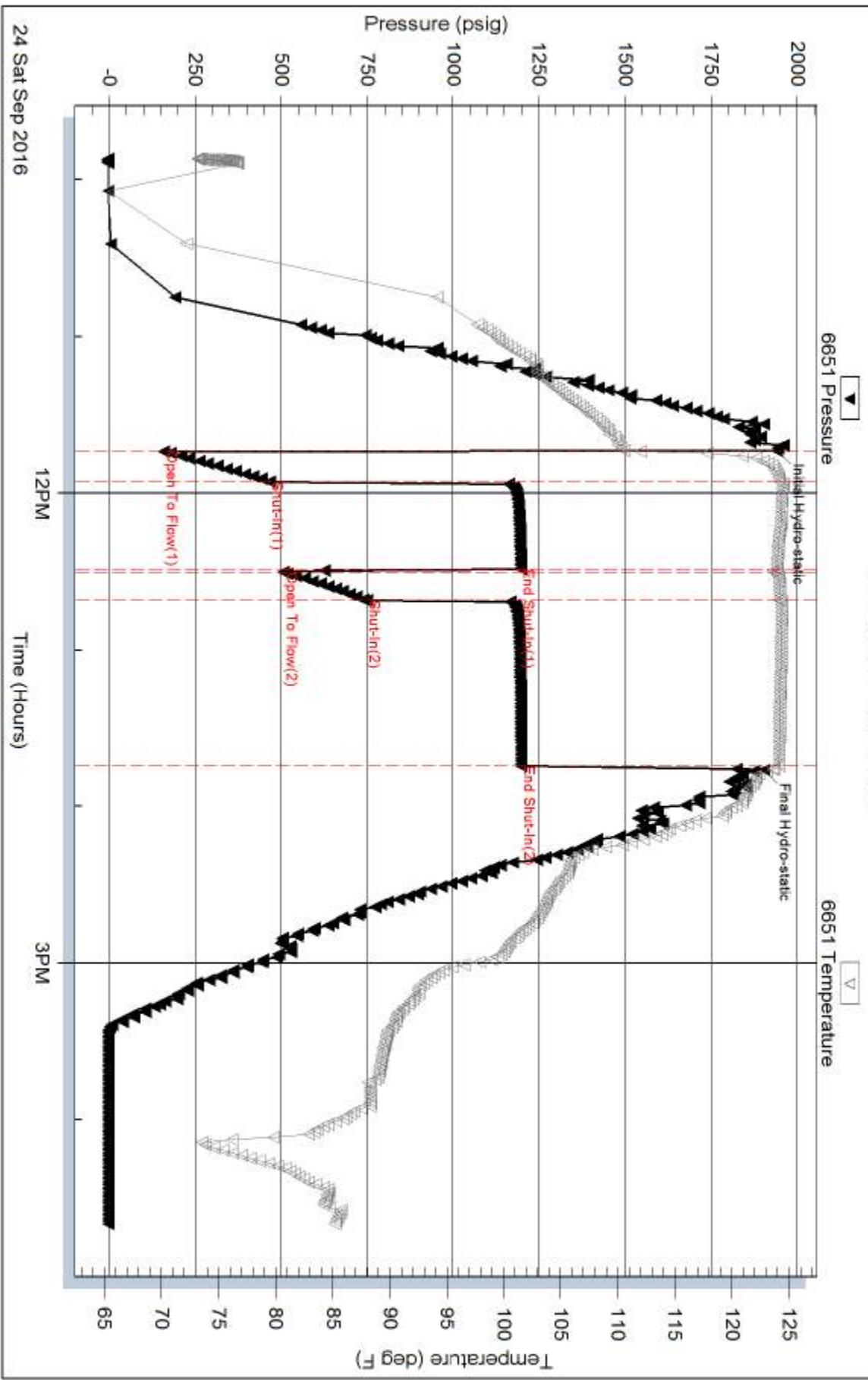
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15@74

Sampler: 2000mL W@155PSI

### Pressure vs. Time



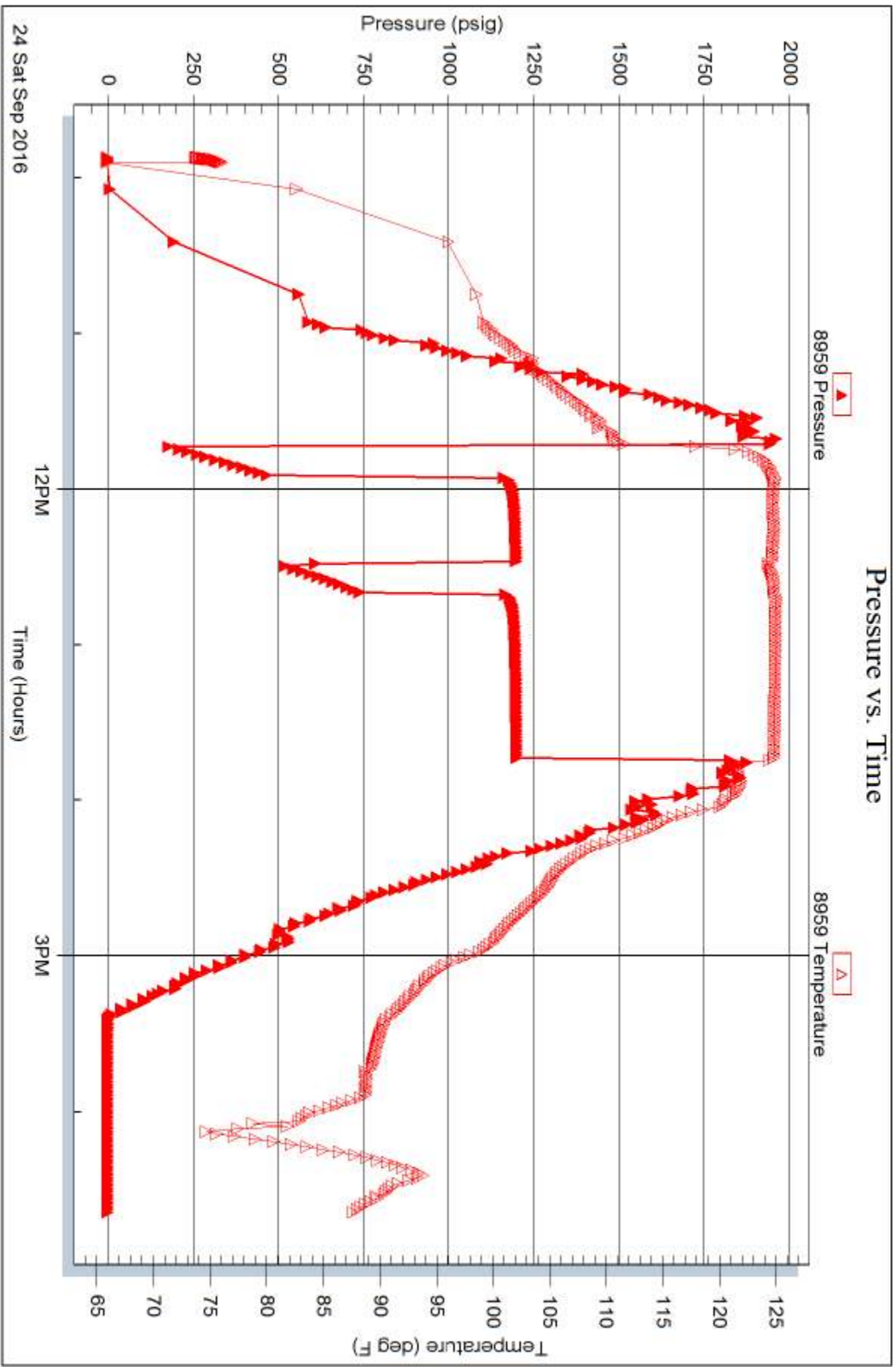
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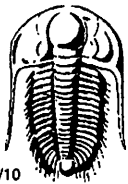
Outside

Coachman Energy Operating Company, LLC

21-14S-20W Ellis, KS

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61279

Well Name & No. Scobel Farms #1-21-14-20 Test No. 1 Date 9/21/16  
 Company Coachman Energy Operating Co, LLC Elevation 2247 KB 2239 GL  
 Address 1125 17th St, Suite 410 Denver, CO 80202  
 Co. Rep / Geo. Charlie Sturdevant Rig Duke #2  
 Location: Sec. 21 Twp. 14 S Rge. 20 W Co. Ellis State KS

Interval Tested 3552-3614 Zone Tested LKC "F"  
 Anchor Length 62' Drill Pipe Run 3529 Mud Wt. 9.1  
 Top Packer Depth 3547 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3552 Wt. Pipe Run — WL 6.8  
 Total Depth 3614 Chlorides 2,600 ppm System LCM 2#

Blow Description IF - slowly built to 3"  
ISI - No blow  
FF - slowly built to 6 1/2"  
FSI - No blow

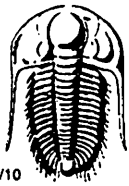
Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>WM</u>			<u>20</u>	<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 190 BHT 113° Gravity — API RW .22 @ 73 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic <u>1738</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1746</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1915</u>
(C) First Final Flow <u>68</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2139</u>
(D) Initial Shut-In <u>580</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9/22 0039 2354</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0232</u>
(F) Second Final Flow <u>103</u>	<input checked="" type="checkbox"/> Mileage <u>36 RT 27</u>	Comments
(G) Final Shut-In <u>556</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1700</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>4536</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>9060</u>	<input type="checkbox"/> Day Standby	Total <u>1652</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1652</u>	

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61280

Well Name & No. Sabel Farms #1-21-14-20 Test No. 2 Date 9/23/16  
 Company Coachman Energy Operating Co, LLC. Elevation 2247 KB 2239 GL  
 Address 1125 17th St., Suite 410 Denver, CO 80202  
 Co. Rep / Geo. Charlie Sturdavant Rig Duke #2  
 Location: Sec. 21 Twp. 14 S Rge. 20 W Co. Ellis State KS

Interval Tested 3671-3720 Zone Tested LKC "J"  
 Anchor Length 49' Drill Pipe Run 3656 Mud Wt. 8.9  
 Top Packer Depth 3666 Drill Collars Run — Vis 41  
 Bottom Packer Depth 3671 Wt. Pipe Run — WL 7.8  
 Total Depth 3720 Chlorides 5,600 ppm System LCM 1#  
 Blow Description IF- Weak surface blow built slowly to 1/4"  
ISI- No blow  
PF- Surface blow  
FST- No blow

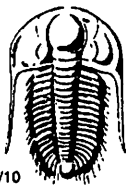
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OSM</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 109° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>1825</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0307</u> <u>1851</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0322</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0523</u>
(D) Initial Shut-In <u>1010</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>0738</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>0909</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>36 RT x2</u> <u>54</u>	Comments <u>Rig repairs 9/22</u>
(G) Final Shut-In <u>1000</u>	<input type="checkbox"/> Sampler <u>—</u>	<u>@ 1845 to 9/23 @ 0300</u>
(H) Final Hydrostatic <u>1800</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1679</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1679</u>	

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61281

Well Name & No. Seibel Farms \* 1-21-14-20 Test No. 3 Date 9/24/16  
 Company Coachman Energy Operating Co, LLC Elevation 2247 KB 2239 GL  
 Address 1125 17<sup>th</sup> St., Suite 410 Denver, CO 80202  
 Co. Rep / Geo. Charlie Sturdevant Rig Duke → 2  
 Location: Sec. 21 Twp. 14 S Rge. 20 W Co. Ellis State KS

Interval Tested 3897-3903 Zone Tested Reagan  
 Anchor Length 6' Drill Pipe Run 3875 Mud Wt. 9.3  
 Top Packer Depth 3892 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3897 Wt. Pipe Run — WL 7.8  
 Total Depth 3903 Chlorides 5800 ppm System LCM 2<sup>nd</sup>

Blow Description IF - BOB 1 min  
PSI - No blow  
FF - BOB 2 mins  
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1562</u>	<u>MW</u>			<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1562 BHT 124° Gravity — API RW .15 @ 24° F Chlorides 41000 ppm

(A) Initial Hydrostatic <u>1941</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0931</u>
(B) First Initial Flow <u>159</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0952</u>
(C) First Final Flow <u>466</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1144</u>
(D) Initial Shut-In <u>1197</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1347</u>
(E) Second Initial Flow <u>506</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1639</u>
(F) Second Final Flow <u>747</u>	<input checked="" type="checkbox"/> Mileage <u>36 RT x .75</u>	Comments
(G) Final Shut-In <u>1198</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	
(H) Final Hydrostatic <u>1902</u>	<input type="checkbox"/> Straddle	

<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
<input type="checkbox"/> Accessibility	Total <u>1902</u>
Sub Total <u>1902</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Brannan Lensdale

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# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 61281 Date 9/24/16  
 Company Name Coachman Energy Operating Company, LLC  
 Lease Seibel Farms #1-21-14-20 Test No. 3  
 County Ellis, KS Sec. 21 Twp. 14 S Rng. 20 W

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil \_\_\_\_\_ ML  
 Mud \_\_\_\_\_ ML  
 Water 2000 ML  
 Other \_\_\_\_\_ ML  
 Pressure 155 PSI  
 Total 2000 ML

### PIT MUD ANALYSIS

~~Chlorides 3,800 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 52  
 Mud Weight 9.3  
 Filtrate 78  
 Other LCM 2<sup>+</sup>~~

### SAMPLER ANALYSIS

Resistivity 115 ohms @ 74 F  
 Chlorides 4,000 ppm.  
 Gravity \_\_\_\_\_ corrected @ 60F

### PIPE RECOVERY

~~TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.~~