



## DRILL STEM TEST REPORT

Prepared For: **Coral CoastPetroleum**

8100 E 22nd St N Wichita KS 67226

ATTN: Derek Patterson

**Stephens #9**

**21-32s-21w Clark**

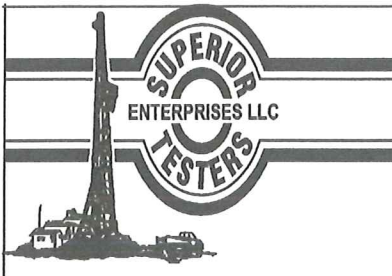
Start Date: 2013.07.08 @ 18:41:00

End Date: 2013.07.09 @ 05:12:30

Job Ticket #: 17004                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.07.09 @ 05:47:46



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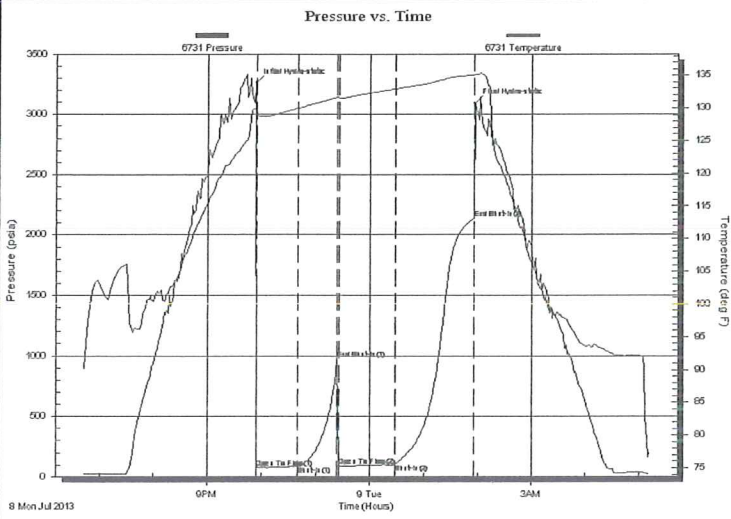
## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:54:30      Tester: Jared Scheck  
 Time Test Ended: 05:12:30      Unit No: 3320-Great Bend-  
 Interval: **6442.00 ft (KB) To 6472.00 ft (KB) (TVD)**      Reference Elevations: 2132.00 ft (KB)  
 Total Depth: 6472.00 ft (KB) (TVD)      2122.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 10.00 ft

## Serial #: 6731

Press@RunDepth: 108.92 psia @      ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.07.08      End Date: 2013.07.09      Last Calib.: 2013.07.09  
 Start Time: 18:41:00      End Time: 05:12:30      Time On Btm: 2013.07.08 @ 21:53:30  
 Time Off Btm: 2013.07.09 @ 01:56:30

TEST COMMENT: 1st Opening 45 Minutes-Weak blow built bottom of bucket in 29 minutes flushed tool 5 minutes into open  
 1st Shut-in 45 Minutes-No blow back  
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 2 minutes  
 2nd Shut-in 90 Minutes-No blow back



## PRESSURE SUMMARY

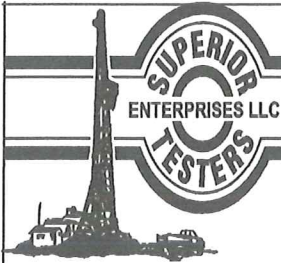
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	3262.40	130.01	Initial Hydro-static
1	75.45	129.06	Open To Flow (1)
46	85.59	129.97	Shut-In(1)
90	976.06	131.76	End Shut-In(1)
92	85.63	131.49	Open To Flow (2)
155	108.92	132.94	Shut-In(2)
242	2134.35	135.06	End Shut-In(2)
243	3089.79	135.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	gas oil w ater cut mud	0.56
0.00	10% gas 10% oil 10%w ater 70%mud	0.00
60.00	gas oil w ater cut mud	0.84
0.00	10%gas 10%oil 30%w ater 50%mud	0.00
0.00	480 gas in pipe	0.00
0.00	chlorides 80,000 resistivity .8@65degree	0.00

## Gas Rates

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



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 8100 E 22nd St N Wichita KS 67226  
 ATTN: Derek Patterson

**21-32s-21w Clark**  
**Stephens #9**  
 Job Ticket: 17004      **DST#: 1**  
 Test Start: 2013.07.08 @ 18:41:00

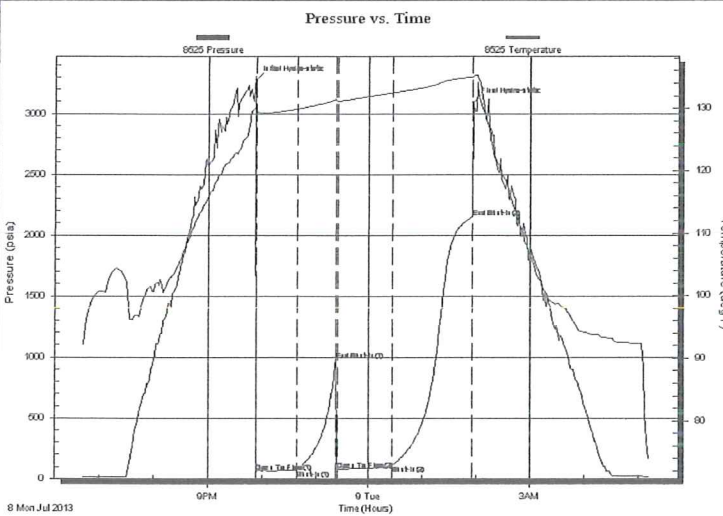
## GENERAL INFORMATION:

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 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:54:30      Tester: Jared Scheck  
 Time Test Ended: 05:12:30      Unit No: 3320-Great Bend-  
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 Total Depth: 6472.00 ft (KB) (TVD)      2122.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 10.00 ft

## Serial #: 8525

Press@RunDepth: 2149.05 psia @      ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.07.08      End Date: 2013.07.09      Last Calib.: 2013.07.09  
 Start Time: 18:41:00      End Time: 05:13:30      Time On Btm: 2013.07.08 @ 21:52:30  
 Time Off Btm: 2013.07.09 @ 01:56:00

**TEST COMMENT:** 1st Opening 45 Minutes-Weak blow built bottom of bucket in 29 minutes flushed tool 5 minutes into open  
 1st Shut-in 45 Minutes-No blow back  
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 2 minutes  
 2nd Shut-in 90 Minutes-No blow back



## PRESSURE SUMMARY

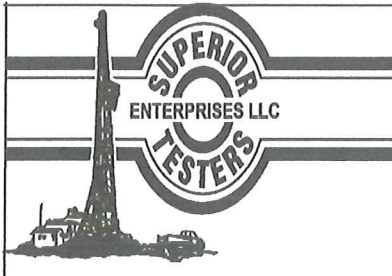
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	3278.59	130.29	Initial Hydro-static
1	55.72	129.61	Open To Flow (1)
47	73.77	129.88	Shut-In(1)
90	975.54	131.45	End Shut-In(1)
92	73.84	131.17	Open To Flow (2)
154	113.06	132.47	Shut-In(2)
243	2149.05	135.00	End Shut-In(2)
244	3093.34	135.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	gas oil w ater cut mud	0.56
0.00	10% gas 10% oil 10%w ater 70%mud	0.00
60.00	gas oil w ater cut mud	0.84
0.00	10%gas 10%oil 30%w ater 50%mud	0.00
0.00	480 gas in pipe	0.00
0.00	chlorides 80,000 resistivity .8@65degree	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Coast Petroleum  
 8100 E 22nd St N Wichita KS 67226  
 ATTN: Derek Patterson

**21-32s-21w Clark**  
**Stephens #9**  
 Job Ticket: 17004      **DST#: 1**  
 Test Start: 2013.07.08 @ 18:41:00

**Tool Information**

Drill Pipe:	Length: 6441.00 ft	Diameter: 3.80 inches	Volume: 90.35 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 90.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 95000.00 lb
Depth to Top Packer:	6442.00 ft			Final 95000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

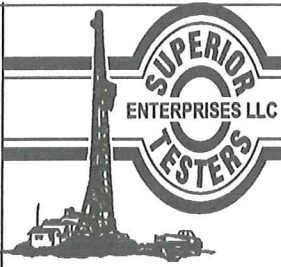
Tool Comments: ruined packer

**Tool Description**

**Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Shut-In Tool	5.00			6419.00	
Hydrolic Tool	5.00			6424.00	
Jars	6.00			6430.00	
Safety Joint	2.00			6432.00	
Packer	5.00			6437.00	28.00      Bottom Of Top Packer
Packer	5.00			6442.00	
Anchor	25.00			6467.00	
Recorder	1.00	6731	Inside	6468.00	
Recorder	1.00	8525	Outside	6469.00	
Bullnose	3.00			6472.00	30.00      Bottom Packers & Anchor

**Total Tool Length:    58.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral Coast Petroleum

21-32s-21w Clark

8100 E 22nd St N Wichita KS 67226

Stephens #9

Job Ticket: 17004

DST#: 1

ATTN: Derek Patterson

Test Start: 2013.07.08 @ 18:41:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 54.00 sec/qt  
 Water Loss: 12.40 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 7900.00 ppm  
 Filter Cake: 1.00 inches

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

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	gas oil water cut mud	0.561
0.00	10% gas 10% oil 10% water 70% mud	0.000
60.00	gas oil water cut mud	0.842
0.00	10% gas 10% oil 30% water 50% mud	0.000
0.00	480 gas in pipe	0.000
0.00	chlorides 80,000 resistivity .8@65degree	0.000

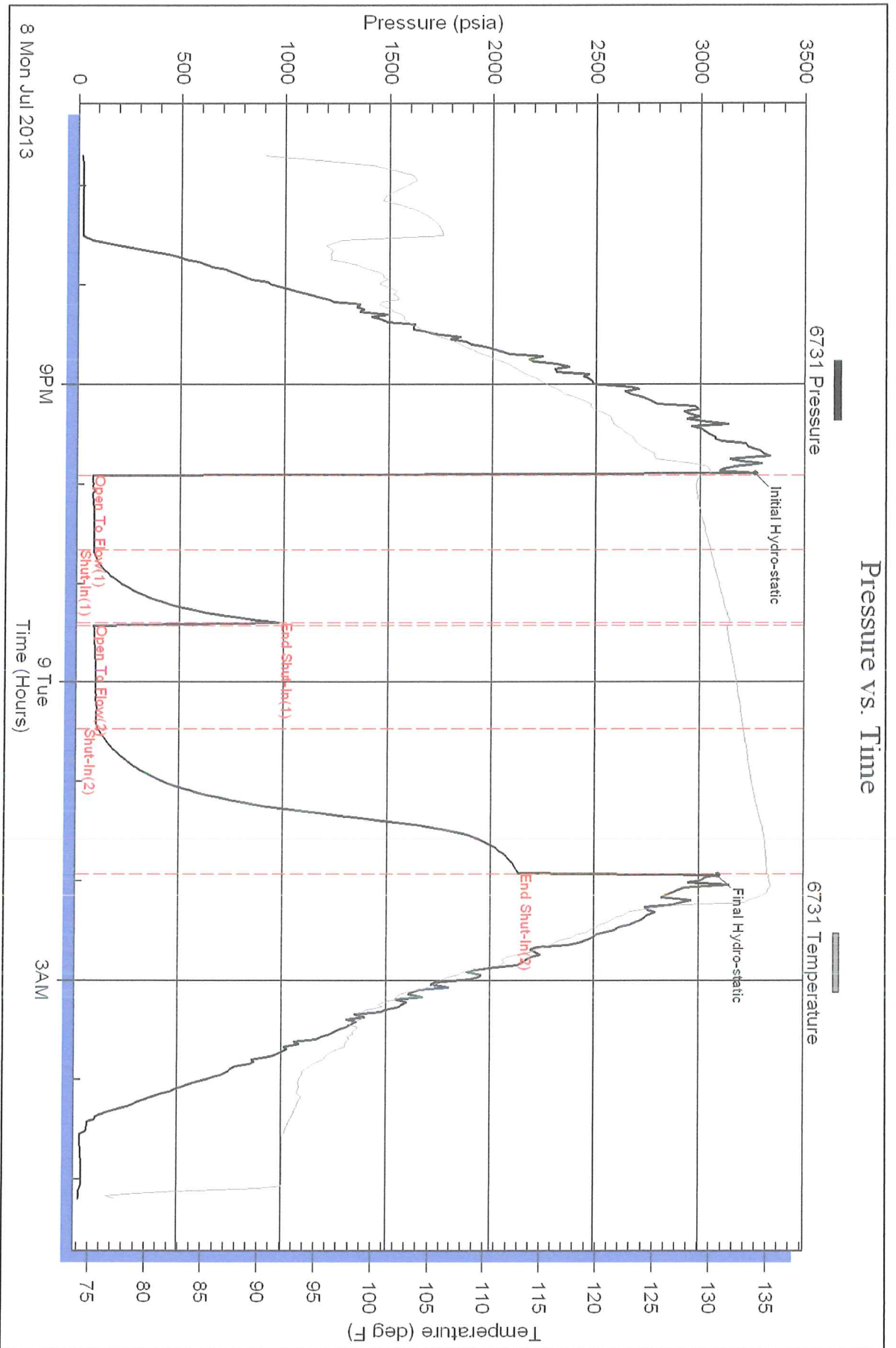
Total Length: 100.00 ft      Total Volume: 1.403 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

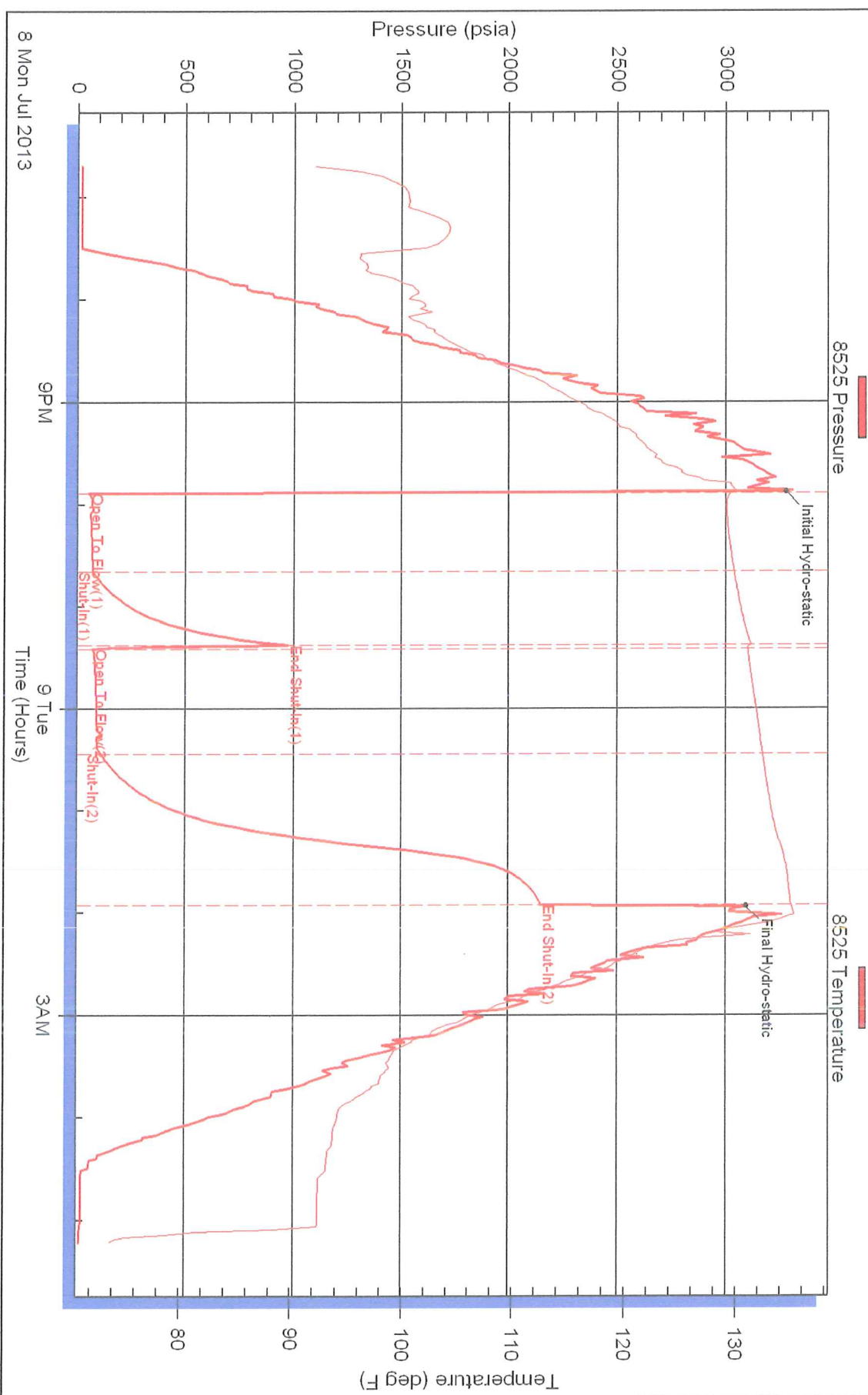
Laboratory Name:      Laboratory Location:

Recovery Comments: ruined packer

### Pressure vs. Time



### Pressure vs. Time





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
Liberal, Kansas

### Cement Report

Customer	Coral Coast	Lease No.		Date	
Lease	Stephens	Well #	9	Service Receipt	03408
Casing	8 5/8" 24ft	Depth	605'	County	Clark
Job Type	242 8 5/8" surface	Formation		State	KS
				Legal Description	21-32-21

Pipe Data		Perforating Data		Cement Data
Casing size	8 5/8" 24ft	Shots/Ft		Lead 175 sk A-Con
Depth	TD-605'	From	To	
Volume	35 bbl	From	To	Tail in 135 sk Class C
Max Press	600#	From	To	
Well Connection	TD-605'	From	To	
Plug Depth	25-421	Packer Depth	From	To

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00					on loc-site assessment
8:05					spot trucks rig up
11:00					safety meeting / PISA
11:18					pressure test 3000#
11:15	800		77	4	Mix + pump 175 sk A-Con @ 12# - 2.47 ft/sk
11:40	850		32	4	switch to 135 sk Class C @ 14.8# - 1.34 ft/sk
11:50					drop plug
11:55	0		0	4	drop csg
12:15	300		35	0	land plug that hold didn't circ cement to surface
1:30			36	2	mix + pump 150 sk Class C @ 14.8# - 1.34 ft/sk - top off circ cement to surface job complete

Service Units	34726	27462	14355-37725	30464-3724
Driver Names	A Owen	E Mendoza	C Garcia	D Beck

Cecil \_\_\_\_\_ Customer Representative  
 J Bennett \_\_\_\_\_ Station Manager  
 A Owen \_\_\_\_\_ Cementer



Customer <b>CORAL COAST PET.</b>	Lease No.	Date <b>7-12-2013</b>
Lease <b>STEPHENS</b>	Well # <b>9</b>	
Field Order # <b>085510</b>	Station <b>PRATT, Ks.</b>	Casing <b>5 1/2"</b>
Type Job <b>CNW - 5 1/2" L.S.</b>	Formation <b>775 - 10813'</b>	Depth
	County <b>CLARK</b>	State <b>Ks.</b>
	Legal Description <b>21-32-21</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2" x 15.5</b>	Tubing Size	Shots/Ft	<b>CMT -</b>	Acid <b>255 SKS. AA 2</b>	Rate	Press	ISIP	
Depth <b>10104.79'</b>	Depth	From	To	Pre Pad <b>1.43 CUFT<sup>3</sup></b>	Max <b>TOTAL ITS = 163</b>		<b>15 Min.</b>	
Volume <b>162 BBL</b>	Volume	From	To	Pad	Min <b>SS = 42.42'</b>		<b>10 Min.</b>	
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg		<b>15 Min.</b>	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>10162.37'</b>	Packer Depth	From	To	Flush <b>161 BBL w/ 2% KCL H<sub>2</sub>O</b>	Gas Volume		Total Load	

Customer Representative <b>DAVE PAULLY</b>	Station Manager <b>K. GORDLEY</b>	Treater <b>K. LESLEY</b>
Service Units <b>37586</b>	<b>19889</b>	<b>19843</b>
Driver Names <b>LESLEY</b>	<b>MARQUEZ</b>	<b>LAWRENCE</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>5:30 AM</b>					<b>ON LOCATION - SAFETY MEETING</b>
<b>9:30 AM</b>					<b>RUN 163 ITS. 5 1/2" x 15.5" # CSG.</b>
<b>↳</b>					<b>TURBO. - 1, 3, 5, 7, 9, 11, 15, 31, 33, 35</b>
<b>↳</b>					<b>BASKET - 4, 8, 30</b>
<b>12:50 PM</b>					<b>CSG. ON BOTTOM</b>
<b>1:00 PM</b>					<b>HOOK UP TO CSG. / BREAK CIRC. W/ RIG</b>
<b>2:05 PM</b>	<b>400</b>		<b>5</b>	<b>6</b>	<b>H<sub>2</sub>O AHEAD</b>
<b>2:06 PM</b>	<b>350</b>		<b>12</b>	<b>6</b>	<b>MUD FLUSH</b>
<b>2:08 PM</b>	<b>350</b>		<b>5</b>	<b>6</b>	<b>H<sub>2</sub>O SPACER</b>
<b>2:09 PM</b>	<b>300</b>		<b>65</b>	<b>6</b>	<b>MIX 255 SKS. AA 2 CMT. @ 15.0 PPG</b>
<b>2:15 PM</b>					<b>CLEAR PUMP &amp; LINE / DROPL. D. PLUG</b>
<b>2:18 PM</b>	<b>0</b>		<b>0</b>	<b>6</b>	<b>START DISPLACEMENT W/ 2% KCL</b>
<b>2:36 PM</b>	<b>200</b>		<b>110</b>	<b>5</b>	<b>LIFT PRESSURE</b>
<b>2:42 PM</b>	<b>1200</b>		<b>150</b>	<b>3</b>	<b>SLOW RATE</b>
<b>2:45 PM</b>	<b>2000</b>		<b>161</b>	<b>2</b>	<b>PLUG DOWN - HELD</b>
<b>+</b>					<b>CIRC. THRU JOB</b>
			<b>6, 4</b>	<b>2</b>	<b>PLUG R.H. &amp; M.H.</b>
					<b>JOB COMPLETE,</b>
					<b>THANKS -</b>
					<b>KEVEN LESLEY</b>