



KANSAS CORPORATION COMMISSION 1119610  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1119610

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G**

21021 Springbrook Plaza Drive  
Texas 77379

ATTN: Tim Hedrick

### **Soeken #1**

### **10-19s-9w-Rice**

Start Date: 2012.11.04 @ 09:24:00

End Date: 2012.11.04 @ 16:58:00

Job Ticket #: 17864                      DST #: 1

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

Printed: 2012.11.05 @ 03:19:45



# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17864      **DST#: 1**  
 Test Start: 2012.11.04 @ 09:24:00

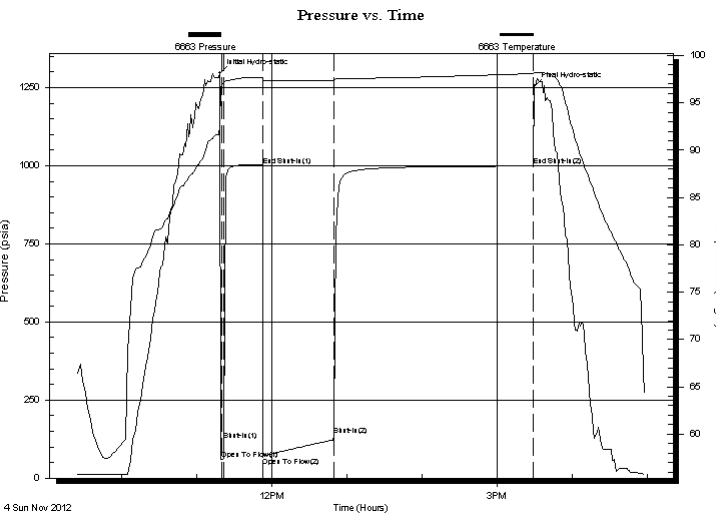
## GENERAL INFORMATION:

Formation: **Platts mouth**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 11:20:00 Tester: Dustin Ellis  
 Time Test Ended: 16:58:00 Unit No: 3315-Great Bend-65  
 Interval: **2676.00 ft (KB) To 2700.00 ft (KB) (TVD)** Reference Elevations: 1716.00 ft (KB)  
 Total Depth: 2700.00 ft (KB) (TVD) 1706.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

## Serial #: 6663

Press @ RunDepth: 136.78 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.05  
 Start Time: 09:24:00 End Time: 16:58:00 Time On Btm: 2012.11.04 @ 11:18:30  
 Time Off Btm: 2012.11.04 @ 15:29:30

**TEST COMMENT:** 1st Open 2 minutes Fair building blow built to 4 inches into the bucket of water  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Fair building blow blew bottom bucket 52 minutes.  
 2nd Shut in 150 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1296.19	92.63	Initial Hydro-static
2	61.06	96.91	Open To Flow (1)
4	119.88	97.06	Shut-In (1)
34	1000.41	97.63	End Shut-In (1)
35	66.44	97.40	Open To Flow (2)
91	136.78	97.35	Shut-In (2)
251	998.85	98.10	End Shut-In (2)
251	1253.70	98.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	Muddy water 20%Mud80%Water	0.87
72.00	Mud 100%	1.01
0.00	Chlorides 36,000@56degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17864      **DST#: 1**  
 Test Start: 2012.11.04 @ 09:24:00

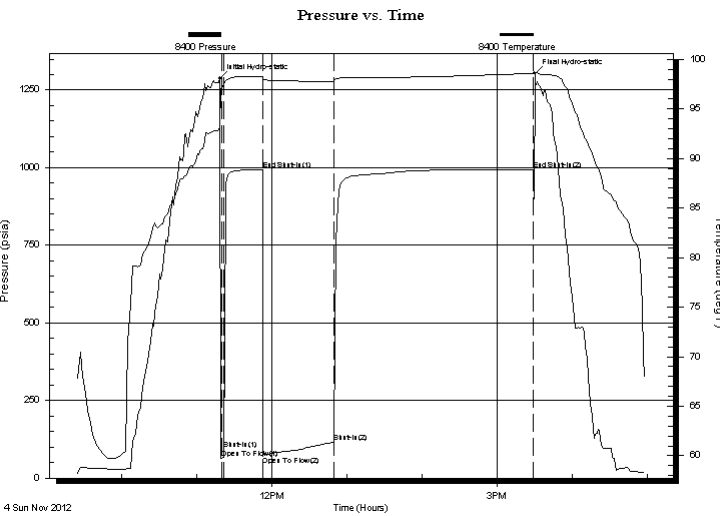
## GENERAL INFORMATION:

Formation: **Platts mouth**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:20:00  
 Time Test Ended: 16:58:00  
 Interval: **2676.00 ft (KB) To 2700.00 ft (KB) (TVD)**  
 Total Depth: 2700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-65  
 Reference Elevations: 1716.00 ft (KB)  
 1706.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8400

Press @ Run Depth: 993.88 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.05  
 Start Time: 09:24:00 End Time: 16:58:00 Time On Btm: 2012.11.04 @ 11:18:30  
 Time Off Btm: 2012.11.04 @ 15:30:00

TEST COMMENT: 1st Open 2 minutes Fair building blow built to 4 inches into the bucket of water  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Fair building blow blew bottom bucket 52 minutes.  
 2nd Shut in 150 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1287.08	93.27	Initial Hydro-static
2	64.84	97.16	Open To Flow (1)
4	93.63	97.52	Shut-In (1)
34	994.20	98.29	End Shut-In (1)
35	70.62	97.98	Open To Flow (2)
91	116.17	97.81	Shut-In (2)
251	993.88	98.61	End Shut-In (2)
252	1304.60	98.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	Muddy water 20%Mud80%Water	0.87
72.00	Mud 100%	1.01
0.00	Chlorides 36,000@56degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17864      **DST#: 1**  
 Test Start: 2012.11.04 @ 09:24:00

**Tool Information**

Drill Pipe:	Length: 2669.00 ft	Diameter: 3.80 inches	Volume: 37.44 bbl	Tool Weight: 2000.00 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: 75000.00 lb
			<u>Total Volume: 37.44 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2676.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2653.00	
Hydraulic Tool	5.00			2658.00	
Jars	6.00			2664.00	
Safety Joint	2.00			2666.00	
Packer	5.00			2671.00	28.00      Bottom Of Top Packer
Packer	5.00			2676.00	
Anchor	19.00			2695.00	
Recorder	1.00	6663	Inside	2696.00	
Recorder	1.00	8400	Outside	2697.00	
Bull Plug	3.00			2700.00	24.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17864      **DST#: 1**  
 Test Start: 2012.11.04 @ 09:24:00

### Mud and Cushion Information

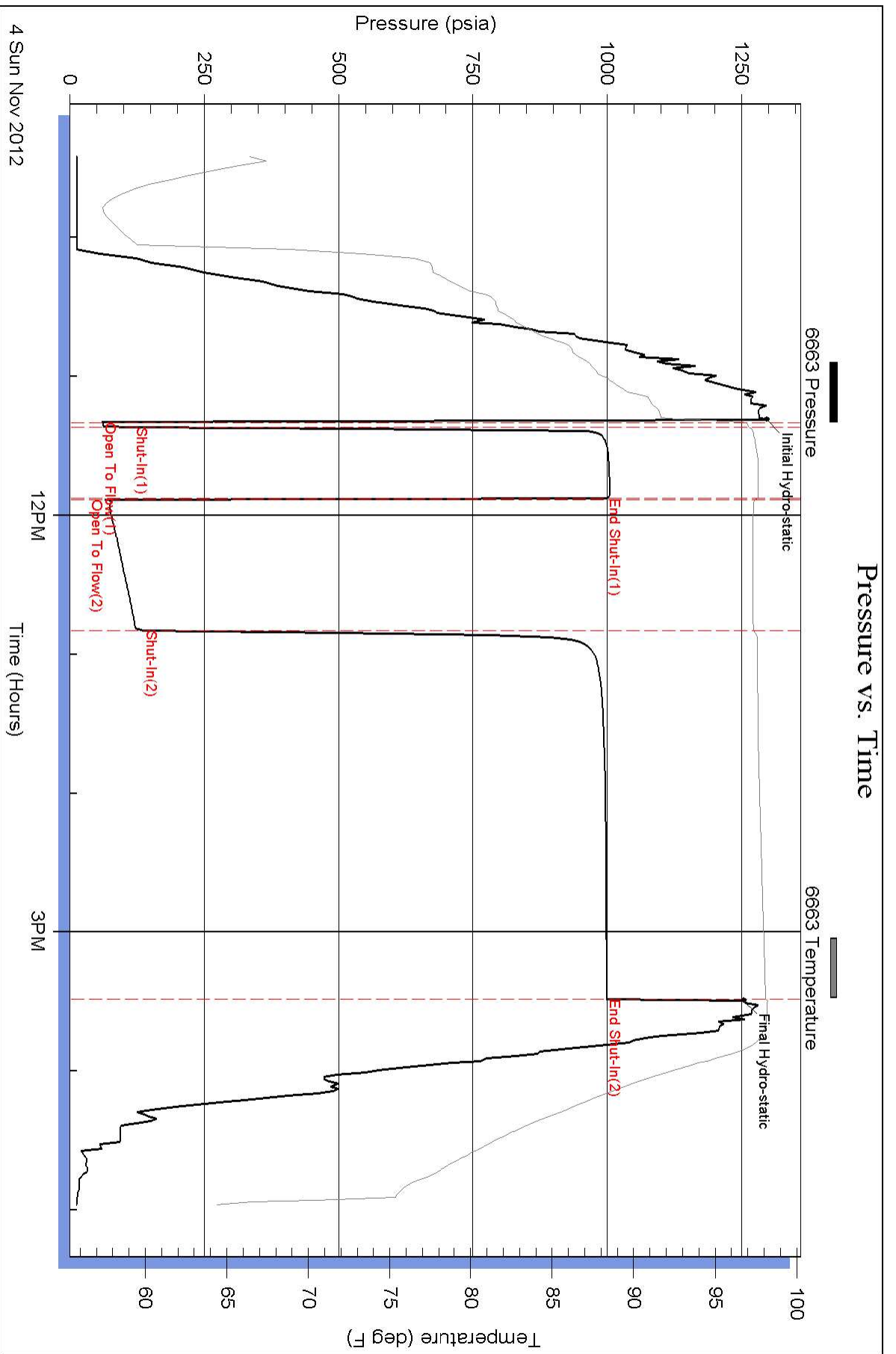
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.40 ohm.m	Gas Cushion Pressure: psia		
Salinity: 6100.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

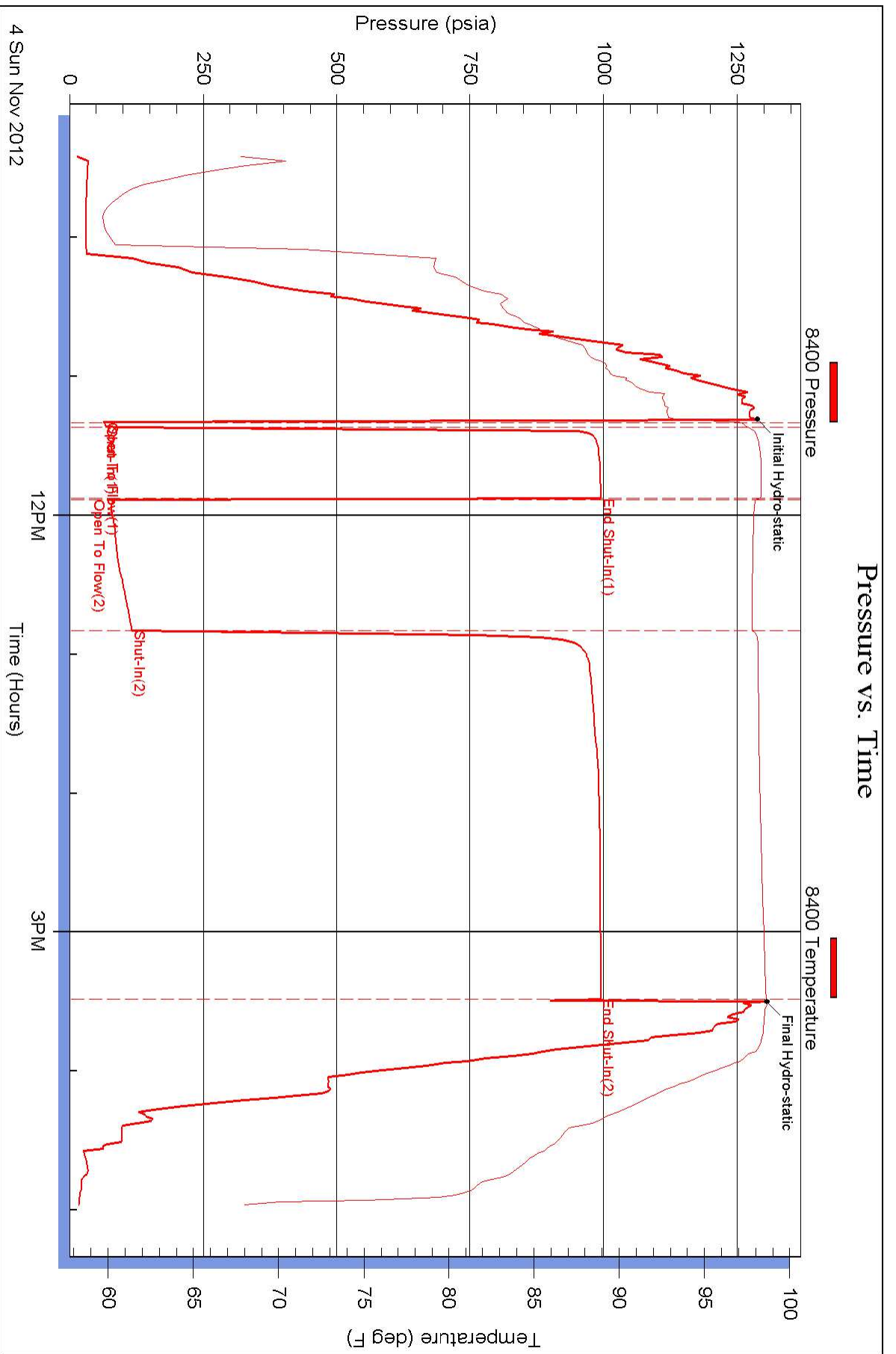
Recovery Table

Length ft	Description	Volume bbl
62.00	Muddy w ater 20%Mud80%Water	0.870
72.00	Mud 100%	1.010
0.00	Chlorides 36,000@56degrees	0.000

Total Length: 134.00 ft      Total Volume: 1.880 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G**

21021 Springbrook Plaza Drive  
Texas 77379

ATTN: Tim Hedrick

### **Soeken #1**

### **10-19s-9w-Rice**

Start Date: 2012.11.05 @ 07:51:00

End Date: 2012.11.05 @ 14:50:00

Job Ticket #: 17865                      DST #: 2

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

Printed: 2012.11.06 @ 01:07:37



# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17865      **DST#: 2**  
 Test Start: 2012.11.05 @ 07:51:00

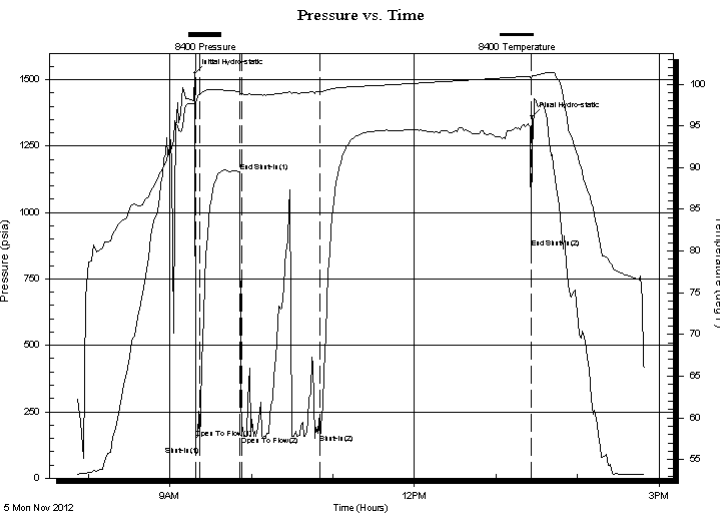
## GENERAL INFORMATION:

Formation: **Lansing A-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:19:00  
 Time Test Ended: 14:50:00  
 Interval: **2891.00 ft (KB) To 2916.00 ft (KB) (TVD)**  
 Total Depth: 2916.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-65  
 Reference Elevations: 1716.00 ft (KB)  
 1706.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8400

Press @ Run Depth: 129.91 psia @ ft (KB) Capacity: psia  
 Start Date: 2012.11.05 End Date: 2012.11.05 Last Calib.: 1899.12.30  
 Start Time: 07:51:00 End Time: 14:50:00 Time On Btm: 2012.11.05 @ 09:18:30  
 Time Off Btm: 2012.11.05 @ 13:26:30

**TEST COMMENT:** 1st Open 2 minutes Fair blow blew 1/2 inch into the bucket  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Fair blow blew 1/2 inch into the bucket  
 2nd Shut in 150 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1524.83	97.78	Initial Hydro-static
1	150.65	97.77	Open To Flow (1)
4	121.21	98.76	Shut-In(1)
33	1152.55	99.12	End Shut-In(1)
35	157.66	98.79	Open To Flow (2)
92	129.91	99.03	Shut-In(2)
248	868.15	100.71	End Shut-In(2)
248	1361.79	100.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud 100%	1.82

## Gas Rates

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



# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17865      **DST#: 2**  
 Test Start: 2012.11.05 @ 07:51:00

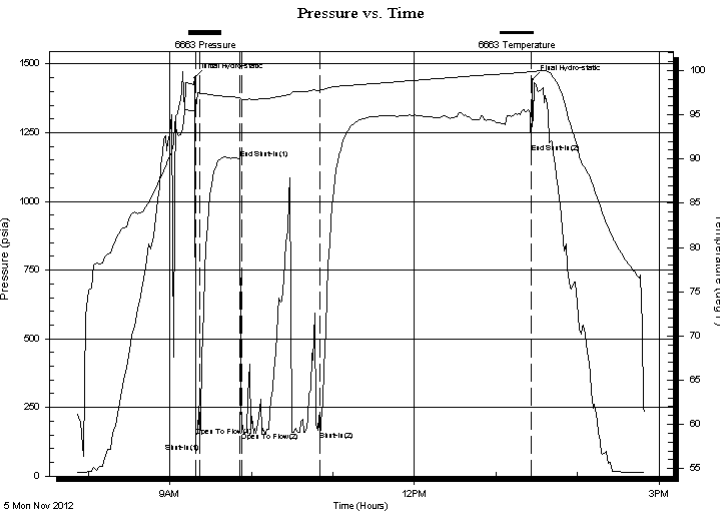
## GENERAL INFORMATION:

Formation: **Lansing A-C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:19:00  
 Tester: Dustin Ellis  
 Time Test Ended: 14:50:00  
 Unit No: 3315-Great Bend-65  
 Interval: **2891.00 ft (KB) To 2916.00 ft (KB) (TVD)**  
 Reference Elevations: 1716.00 ft (KB)  
 Total Depth: 2916.00 ft (KB) (TVD)  
 1706.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

## Serial #: 6663

Press @ RunDepth: 1179.11 psia @ ft (KB) Capacity: psia  
 Start Date: 2012.11.05 End Date: 2012.11.05 Last Calib.: 1899.12.30  
 Start Time: 07:51:00 End Time: 14:50:00 Time On Btm: 2012.11.05 @ 09:18:30  
 Time Off Btm: 2012.11.05 @ 13:27:00

**TEST COMMENT:** 1st Open 2 minutes Fair blow blew 1/2 inch into the bucket  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Fair blow blew 1/2 inch into the bucket  
 2nd Shut in 150 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1450.80	95.58	Initial Hydro-static
1	146.44	95.88	Open To Flow (1)
4	119.43	97.39	Shut-In(1)
33	1154.80	96.98	End Shut-In(1)
35	158.24	96.71	Open To Flow (2)
93	129.70	97.78	Shut-In(2)
248	1179.11	99.86	End Shut-In(2)
249	1441.90	99.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud 100%	1.82

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17865      **DST#: 2**  
 Test Start: 2012.11.05 @ 07:51:00

**Tool Information**

Drill Pipe:	Length: 2885.00 ft	Diameter: 3.80 inches	Volume: 40.47 bbl	Tool Weight: 2000.00 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: 84000.00 lb
			<u>Total Volume: 40.47 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2891.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2868.00	
Hydraulic Tool	5.00			2873.00	
Jars	6.00			2879.00	
Safety Joint	2.00			2881.00	
Packer	5.00			2886.00	28.00      Bottom Of Top Packer
Packer	5.00			2891.00	
Anchor	40.00			2931.00	
Recorder	1.00	6663	Inside	2932.00	
Recorder	1.00	8400	Outside	2933.00	
Bull Plug	3.00			2936.00	45.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>73.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Primal Energy O&G  
21021 Springbrook Plaza Drive  
Texas 77379  
ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
Job Ticket: 17865      **DST#: 2**  
Test Start: 2012.11.05 @ 07:51:00

### Mud and Cushion Information

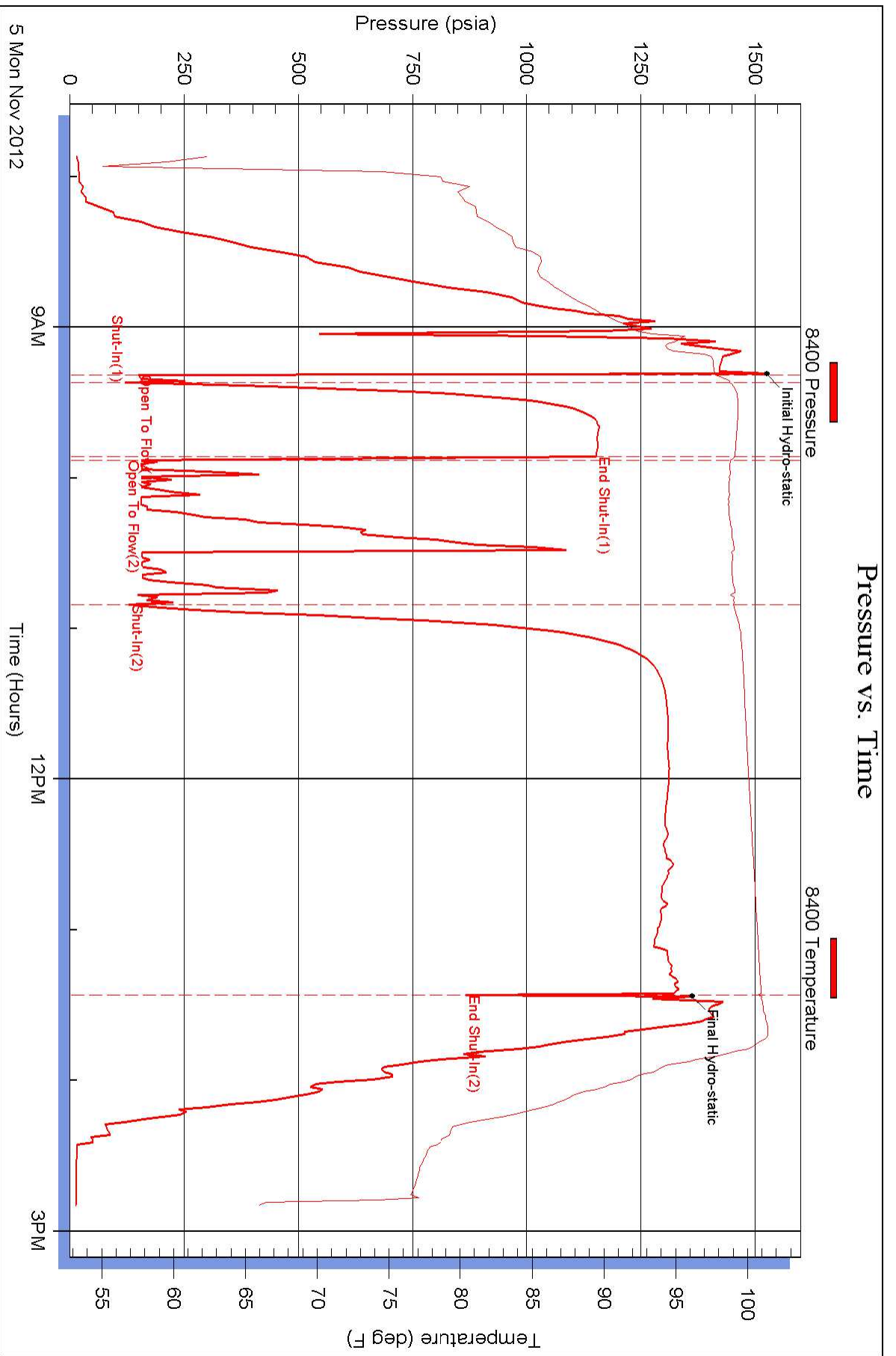
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

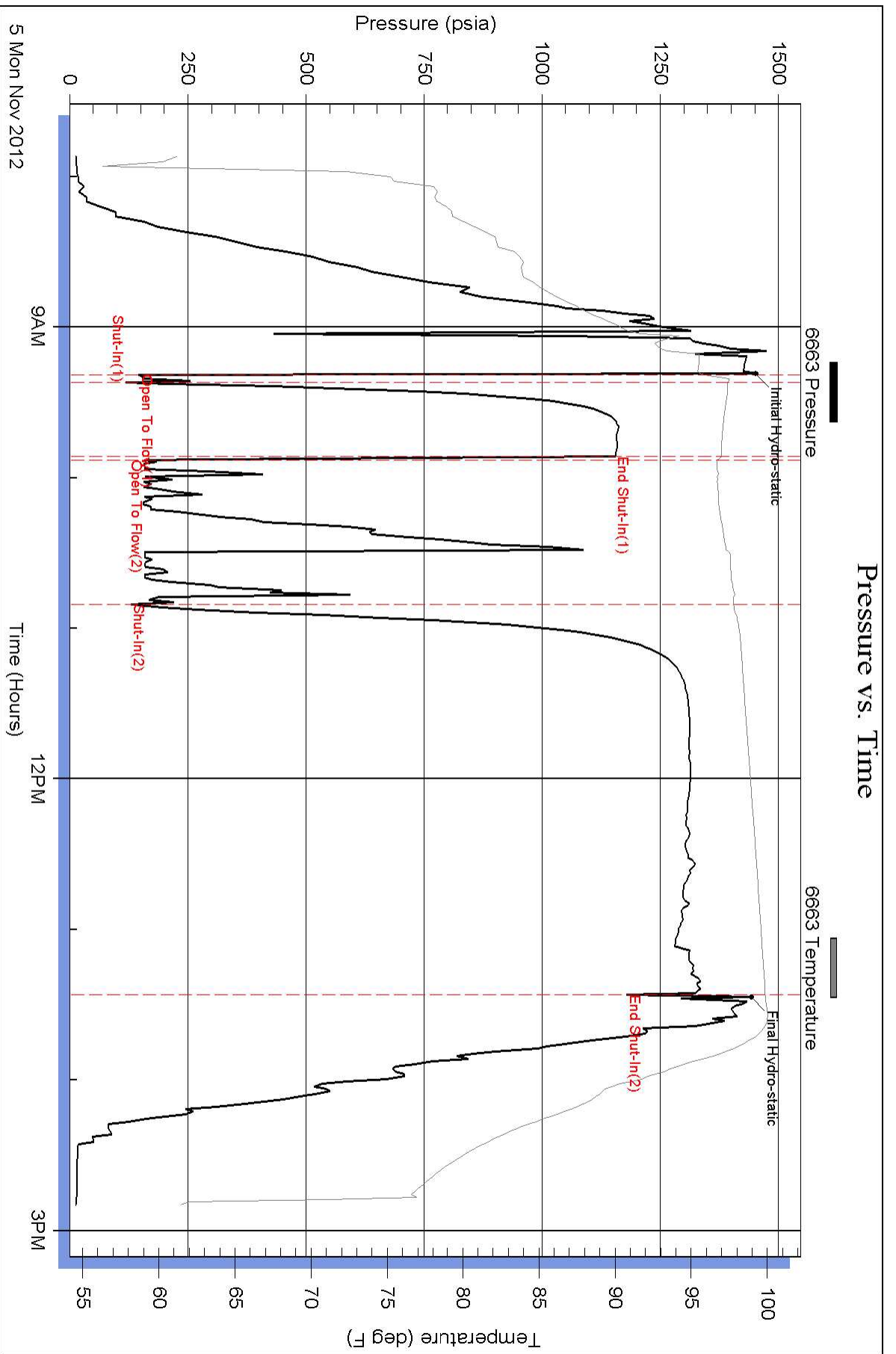
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud 100%	1.824

Total Length: 130.00 ft      Total Volume: 1.824 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G**

21021 Springbrook Plaza Drive  
Texas 77379

ATTN: Tim Hedrick

### **Soeken #1**

### **10-19s-9w-Rice**

Start Date: 2012.11.06 @ 12:13:00

End Date: 2012.11.06 @ 18:53:00

Job Ticket #: 17866                      DST #: 3

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

Printed: 2012.11.06 @ 17:09:13



# DRILL STEM TEST REPORT

Primal Energy O&G  
21021 Springbrook Plaza Drive  
Texas 77379  
ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
Job Ticket: 17866      **DST#: 3**  
Test Start: 2012.11.06 @ 12:13:00

## GENERAL INFORMATION:

Formation: **Lansing C**  
Deviated: No      Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 13:28:00      Tester: Dustin Ellis  
Time Test Ended: 18:53:00      Unit No: 3315-Great Bend-65  
**Interval: 2902.00 ft (KB) To 2938.00 ft (KB) (TVD)**      Reference Elevations: 1716.00 ft (KB)  
Total Depth: 2938.00 ft (KB) (TVD)      1706.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 10.00 ft

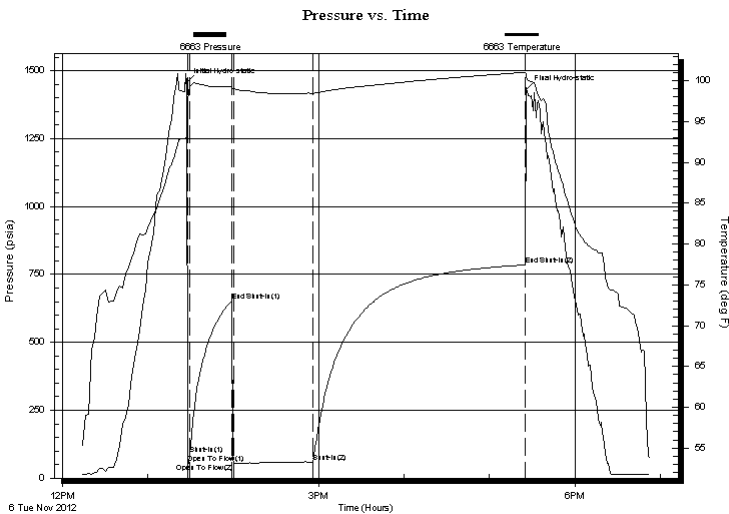
## Serial #: 6663

## Inside

Press @ RunDepth: 59.62 psia @ 2934.00 ft (KB)      Capacity: 5000.00 psia  
Start Date: 2012.11.06      End Date: 2012.11.06      Last Calib.: 2012.11.06  
Start Time: 12:13:00      End Time: 18:53:00      Time On Btm: 2012.11.06 @ 13:27:00  
Time Off Btm: 2012.11.06 @ 17:26:00

**TEST COMMENT:** 1st Open 2 minutes Strong blow blew off bottom bucket instantly  
1st Shut in 30 minutes No blow back  
2nd Open 60 minutes Strong blow blew bottom bucket instantly  
2nd Shut in 150 minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1454.77	93.31	Initial Hydro-static
1	53.70	97.72	Open To Flow (1)
3	88.16	99.27	Shut-In(1)
32	653.70	99.27	End Shut-In(1)
33	52.83	99.00	Open To Flow (2)
89	59.62	98.47	Shut-In(2)
238	784.98	101.03	End Shut-In(2)
239	1430.96	100.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Very lightly oil spotted mud Mud 100%	0.28
0.00	2918 gas in pipe	0.00
0.00	Gas to surface in 50 minutes into pipe.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

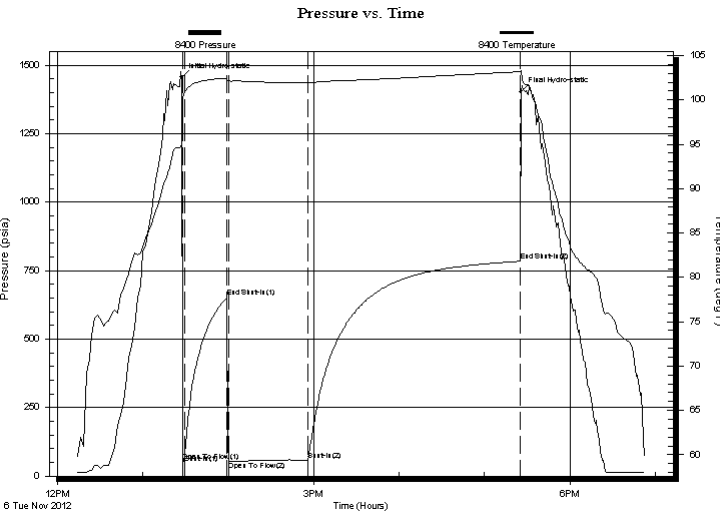
**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17866 **DST#: 3**  
 Test Start: 2012.11.06 @ 12:13:00

## GENERAL INFORMATION:

Formation: **Lansing C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 13:28:00 Tester: Dustin Ellis  
 Time Test Ended: 18:53:00 Unit No: 3315-Great Bend-65  
 Interval: **2902.00 ft (KB) To 2938.00 ft (KB) (TVD)** Reference Elevations: 1716.00 ft (KB)  
 Total Depth: 2938.00 ft (KB) (TVD) 1706.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 8400 Outside**  
 Press @ Run Depth: 784.34 psia @ 2935.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.06 End Date: 2012.11.06 Last Calib.: 2012.11.06  
 Start Time: 12:13:00 End Time: 18:52:30 Time On Btm: 2012.11.06 @ 13:27:00  
 Time Off Btm: 2012.11.06 @ 17:25:30

**TEST COMMENT:** 1st Open 2 minutes Strong blow blew off bottom bucket instantly  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Strong blow blew bottom bucket instantly  
 2nd Shut in 150 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1455.42	95.02	Initial Hydro-static
1	54.01	100.11	Open To Flow (1)
3	79.46	100.96	Shut-In(1)
32	652.93	102.45	End Shut-In(1)
33	52.70	102.14	Open To Flow (2)
89	59.10	101.92	Shut-In(2)
238	784.34	103.18	End Shut-In(2)
239	1402.75	103.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Very lightly oil spotted mud Mud 100%	0.28
0.00	2918 gas in pipe	0.00
0.00	Gas to surface in 50 minutes into pipe.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17866      **DST#: 3**  
 Test Start: 2012.11.06 @ 12:13:00

## Tool Information

Drill Pipe:	Length: 2889.00 ft	Diameter: 3.80 inches	Volume: 40.53 bbl	Tool Weight: 2000.00 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: 71000.00 lb
			<u>Total Volume: 40.53 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2902.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2879.00	
Hydraulic Tool	5.00			2884.00	
Jars	6.00			2890.00	
Safety Joint	2.00			2892.00	
Packer	5.00			2897.00	28.00      Bottom Of Top Packer
Packer	5.00			2902.00	
Anchor	31.00			2933.00	
Recorder	1.00	6663	Inside	2934.00	
Recorder	1.00	8400	Outside	2935.00	
Bull Plug	3.00			2938.00	36.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>64.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17866      **DST#: 3**  
 Test Start: 2012.11.06 @ 12:13:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Very lightly oil spotted mud Mud 100%	0.281
0.00	2918 gas in pipe	0.000
0.00	Gas to surface in 50 minutes into pipe.	0.000

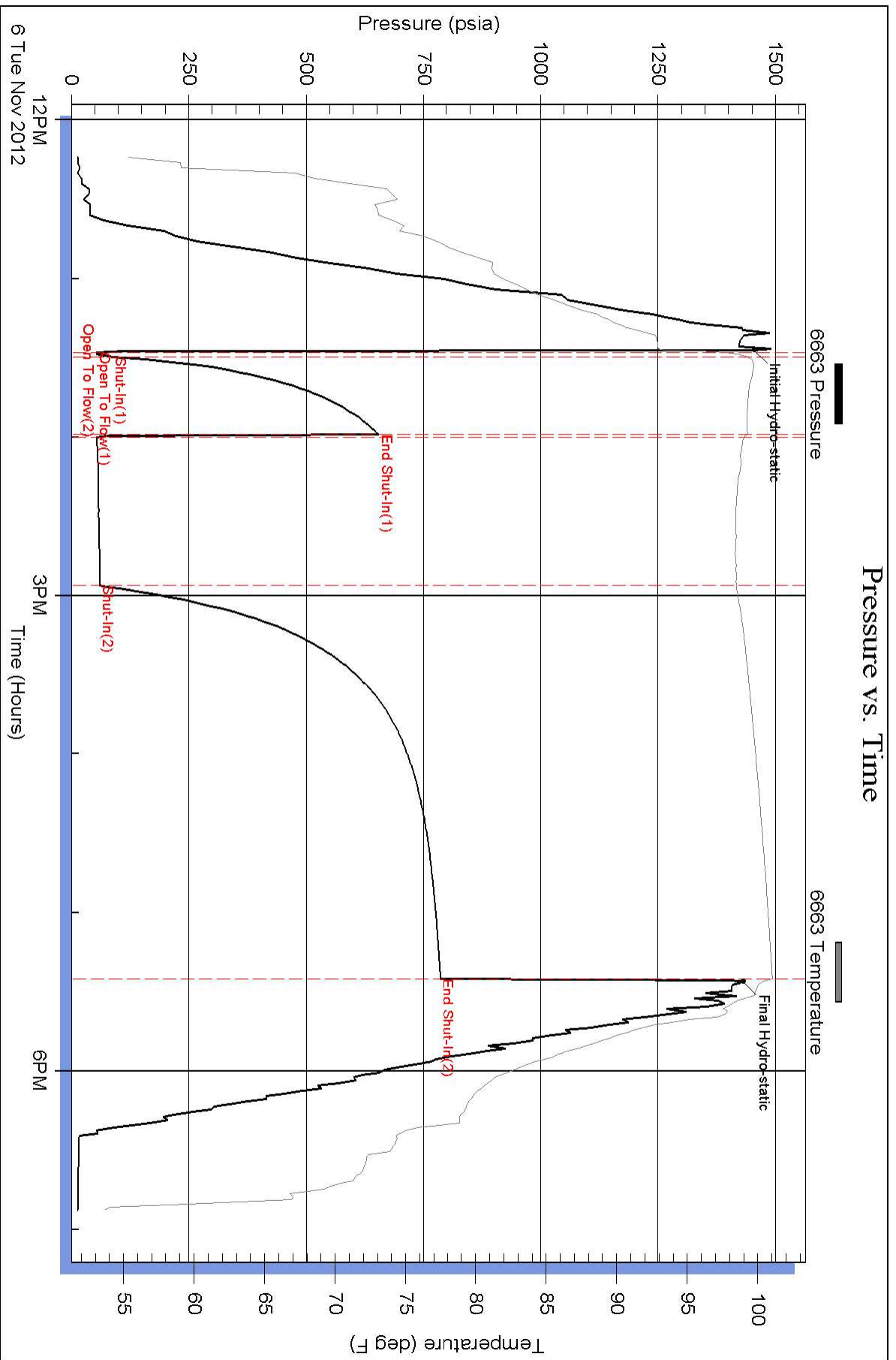
Total Length: 20.00 ft      Total Volume: 0.281 bbl

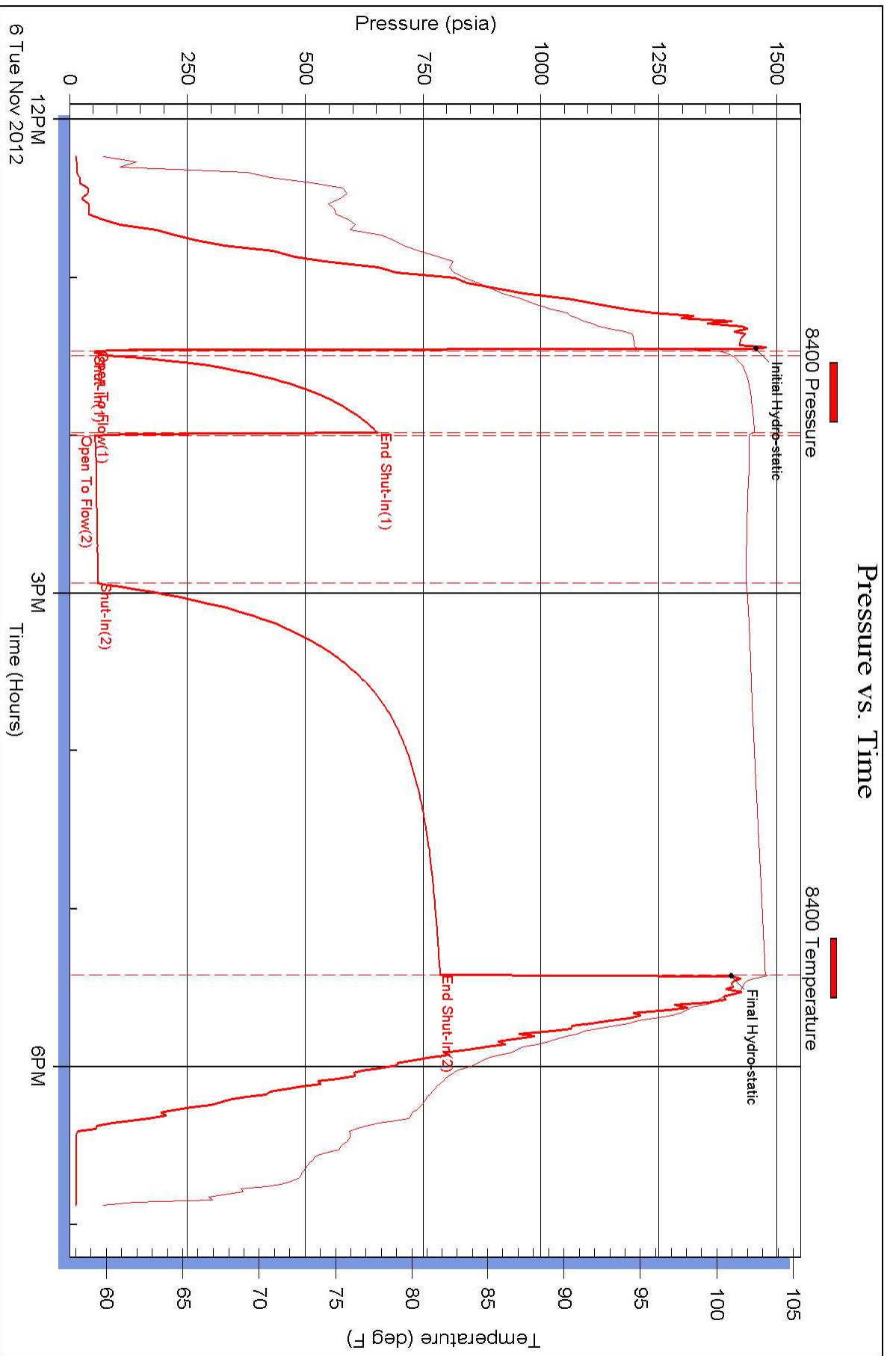
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G**

21021 Springbrook Plaza Drive  
Texas 77379

ATTN: Tim Hedrick

### **Soeken #1**

### **10-19s-9w-Rice**

Start Date: 2012.11.07 @ 11:52:00

End Date: 2012.11.07 @ 18:45:30

Job Ticket #: 17868                      DST #: 4

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

Printed: 2012.11.07 @ 17:00:37





# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

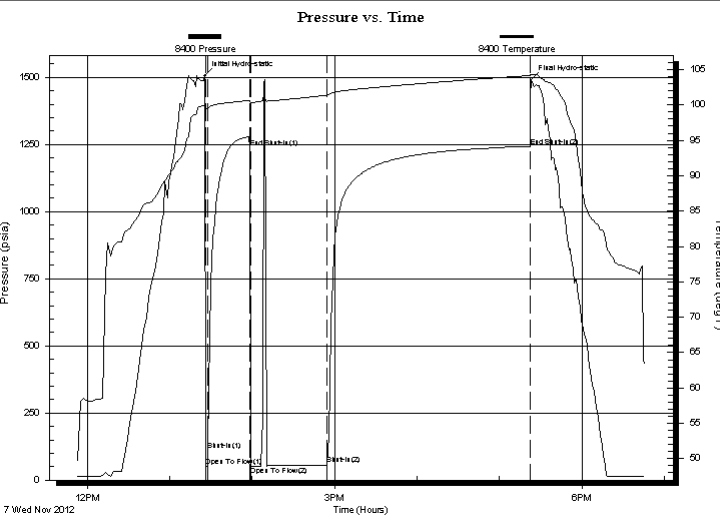
**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17868 **DST#: 4**  
 Test Start: 2012.11.07 @ 11:52:00

## GENERAL INFORMATION:

Formation: **Lansing K-L**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 13:26:30 Tester: Dustin Ellis  
 Time Test Ended: 18:45:30 Unit No: 3315-Great Bend-65  
 Interval: **3068.00 ft (KB) To 3086.00 ft (KB) (TVD)** Reference Elevations: 1716.00 ft (KB)  
 Total Depth: 3086.00 ft (KB) (TVD) 1706.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 8400 Outside**  
 Press @ Run Depth: 58.67 psia @ 3083.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.07 End Date: 2012.11.07 Last Calib.: 2012.11.07  
 Start Time: 11:52:00 End Time: 18:45:30 Time On Btm: 2012.11.07 @ 13:25:30  
 Time Off Btm: 2012.11.07 @ 17:23:00

**TEST COMMENT:** 1st Open 2 minutes Fair blow blew 1 inch.  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Weak surface blow  
 2nd Shut in 150 minutes No blow back



## PRESSURE SUMMARY

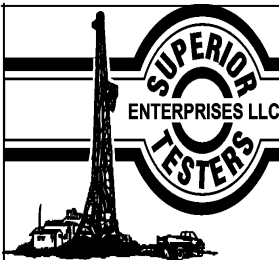
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1505.82	99.74	Initial Hydro-static
1	50.34	99.46	Open To Flow (1)
3	110.17	99.58	Shut-In(1)
33	1237.14	100.61	End Shut-In(1)
34	52.59	100.32	Open To Flow (2)
89	58.67	101.37	Shut-In(2)
237	1243.26	104.17	End Shut-In(2)
238	1491.53	104.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%	0.35

## Gas Rates

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



# DRILL STEM TEST REPORT

Primal Energy O&G

**10-19s-9w-Rice**

21021 Springbrook Plaza Drive  
Texas 77379

**Soeken #1**

Job Ticket: 17868

**DST#: 4**

ATTN: Tim Hedrick

Test Start: 2012.11.07 @ 11:52:00

## GENERAL INFORMATION:

Formation: **Lansing K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:26:30

Time Test Ended: 18:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-65

**Interval: 3068.00 ft (KB) To 3086.00 ft (KB) (TVD)**

Reference Elevations: 1716.00 ft (KB)

Total Depth: 3086.00 ft (KB) (TVD)

1706.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6663**

**Inside**

Press @ Run Depth: 1245.65 psia @ 3082.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.11.07

End Date:

2012.11.07

Last Calib.:

2012.11.07

Start Time: 11:52:00

End Time:

18:45:00

Time On Btm:

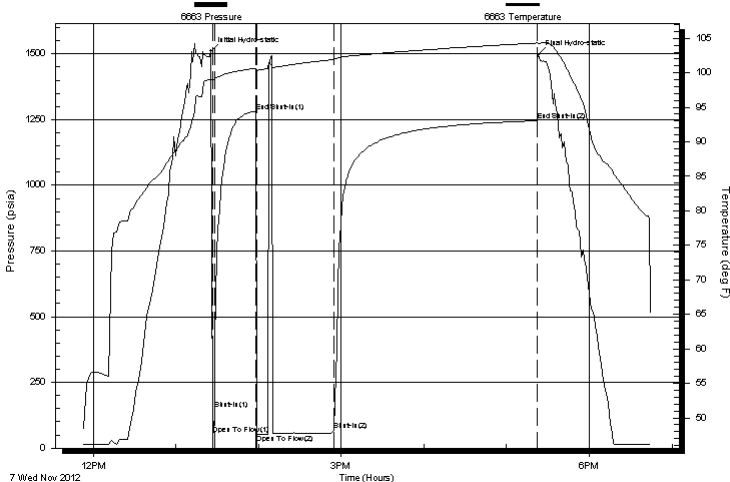
2012.11.07 @ 13:25:30

Time Off Btm:

2012.11.07 @ 17:23:00

**TEST COMMENT:** 1st Open 2 minutes Fair blow blew 1 inch.  
1st Shut in 30 minutes No blow back  
2nd Open 60 minutes Weak surface blow  
2nd Shut in 150 minutes No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1509.49	98.96	Initial Hydro-static
1	52.48	98.89	Open To Flow (1)
3	149.52	99.03	Shut-In(1)
33	1281.60	100.67	End Shut-In(1)
34	53.85	100.40	Open To Flow (2)
89	66.89	101.94	Shut-In(2)
237	1245.65	104.32	End Shut-In(2)
238	1496.37	104.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%	0.35

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17868      **DST#: 4**  
 Test Start: 2012.11.07 @ 11:52:00

## Tool Information

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.80 inches	Volume: 43.04 bbl	Tool Weight: 2000.00 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: 62000.00 lb
			<u>Total Volume: 43.04 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3068.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 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
Shut-In Tool	5.00			3045.00	
Hydraulic Tool	5.00			3050.00	
Jars	6.00			3056.00	
Safety Joint	2.00			3058.00	
Packer	5.00			3063.00	28.00      Bottom Of Top Packer
Packer	5.00			3068.00	
Anchor	13.00			3081.00	
Recorder	1.00	6663	Inside	3082.00	
Recorder	1.00	8400	Outside	3083.00	
Bull Plug	3.00			3086.00	18.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Primal Energy O&G  
21021 Springbrook Plaza Drive  
Texas 77379  
ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
Job Ticket: 17868      **DST#: 4**  
Test Start: 2012.11.07 @ 11:52:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9200.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100%	0.351

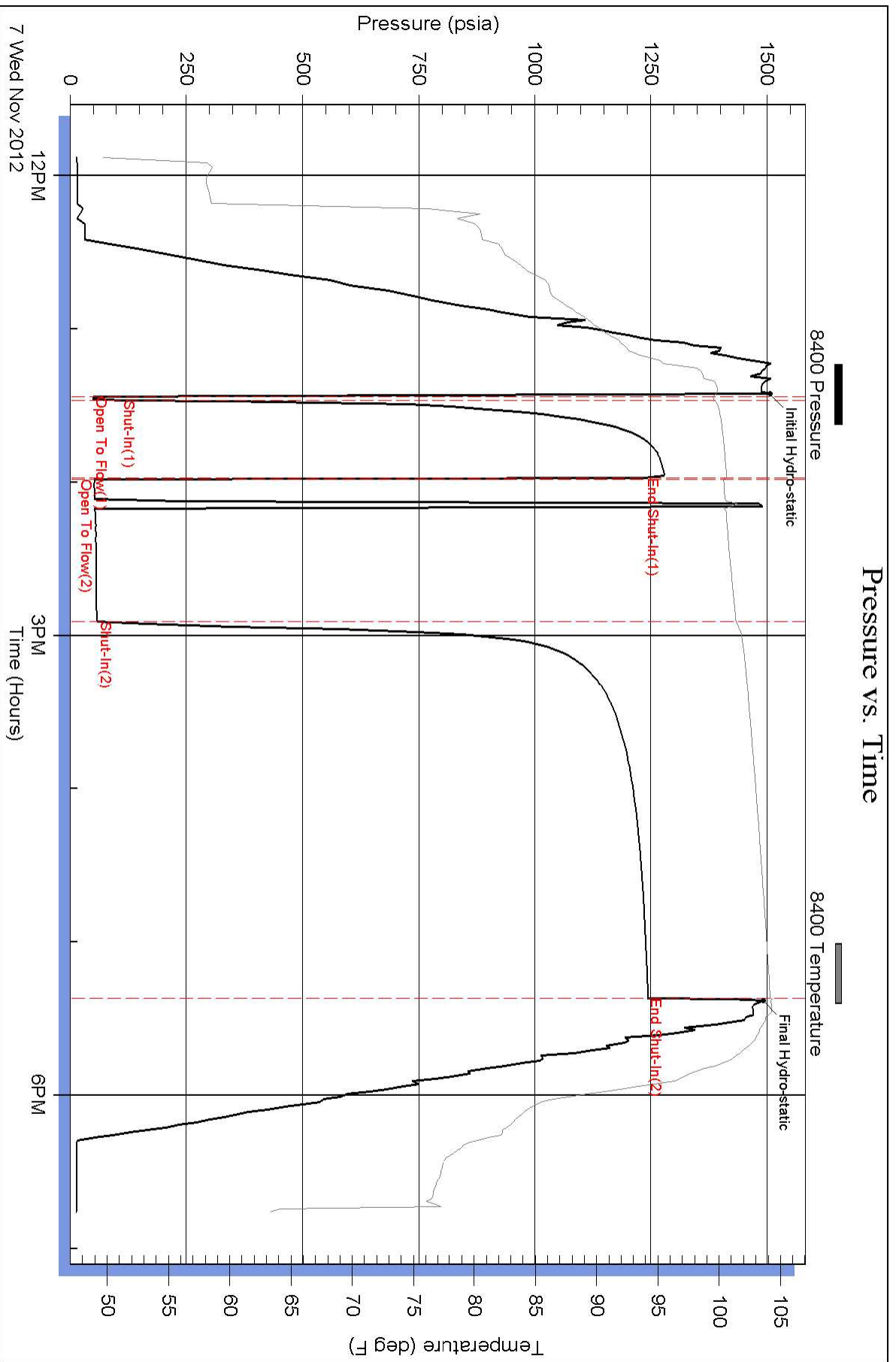
Total Length: 25.00 ft      Total Volume: 0.351 bbl

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

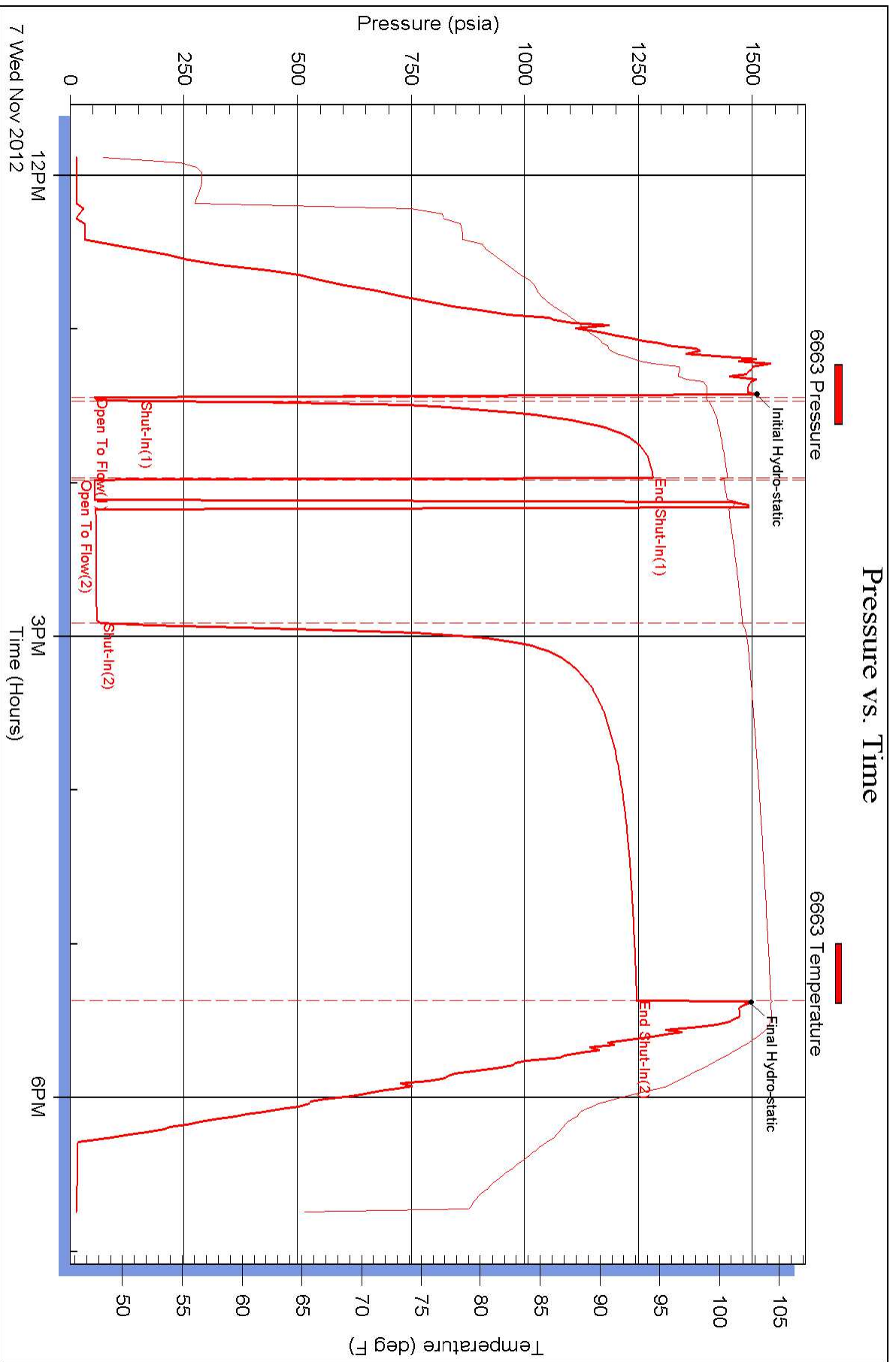
Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G**

21021 Springbrook Plaza Drive  
Texas 77379

ATTN: Tim Hedrick

### **Soeken #1**

#### **10-19s-9w-Rice**

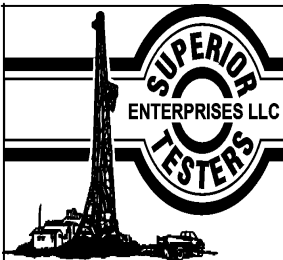
Start Date: 2012.11.08 @ 05:00:00

End Date: 2012.11.08 @ 13:13:00

Job Ticket #: 17869                      DST #: 5

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

Printed: 2012.11.08 @ 23:39:43



# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17869      **DST#: 5**  
 Test Start: 2012.11.08 @ 05:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:28:00      Tester: Dustin Ellis  
 Time Test Ended: 13:13:00      Unit No: 3315-Great Bend-65  
 Interval: **3252.00 ft (KB) To 3309.00 ft (KB) (TVD)**      Reference Elevations: 1716.00 ft (KB)  
 Total Depth: 3309.00 ft (KB) (TVD)      1706.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 10.00 ft

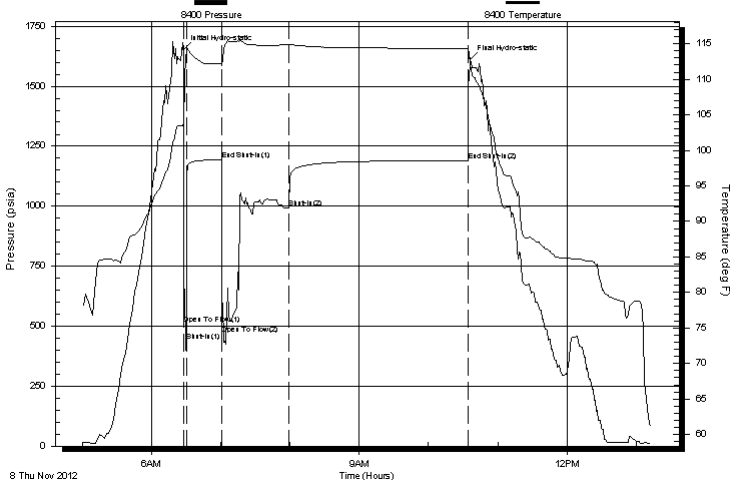
## Serial #: 8400

## Outside

Press @ RunDepth: 993.61 psia @ 3306.58 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.11.08      End Date: 2012.11.08      Last Calib.: 2012.11.08  
 Start Time: 05:00:00      End Time: 13:13:00      Time On Btm: 2012.11.08 @ 06:27:30  
 Time Off Btm: 2012.11.08 @ 10:36:00

**TEST COMMENT:** 1st Open 2 minute Strong blow blew bottom bucket 1 minute.  
 1st Shut in 30 minutes No blow back  
 2nd Open 60 minutes Strong blow blew bottom bucket 3 minutes.  
 2nd Shut in 150 minutes No blow back.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1654.01	103.69	Initial Hydro-static
1	509.77	103.90	Open To Flow (1)
3	437.78	113.78	Shut-In(1)
33	1193.80	112.17	End Shut-In(1)
34	466.23	111.89	Open To Flow (2)
91	993.61	114.87	Shut-In(2)
247	1190.69	114.34	End Shut-In(2)
249	1612.94	112.15	Final Hydro-static

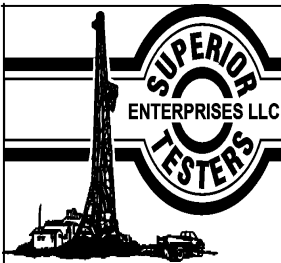
## Recovery

Length (ft)	Description	Volume (bbl)
366.00	Mud cut oil Oil 10% Mud 90%	5.13
549.00	Oil cut gassy mud	7.70
0.00	Gas 10% Oil 805 Mud 10%	0.00
610.00	Oil cut mud Oil 90% Mud 90%	8.56
0.00	gravity of oil 36 corrected	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

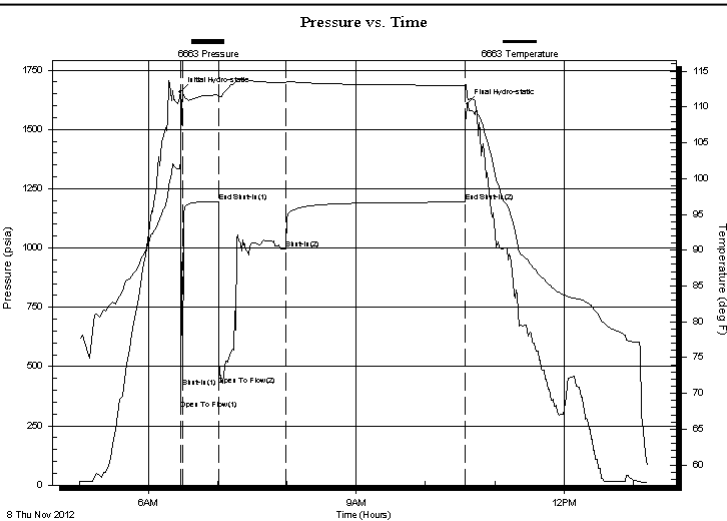
**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17869      **DST#: 5**  
 Test Start: 2012.11.08 @ 05:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:28:00      Tester: Dustin Ellis  
 Time Test Ended: 13:13:00      Unit No: 3315-Great Bend-65  
 Interval: **3252.00 ft (KB) To 3309.00 ft (KB) (TVD)**      Reference Elevations: 1716.00 ft (KB)  
 Total Depth: 3309.00 ft (KB) (TVD)      1706.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 10.00 ft

**Serial #: 6663      Inside**  
 Press @ RunDepth: 1193.11 psia @ 3305.58 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.11.08      End Date: 2012.11.08      Last Calib.: 2012.11.08  
 Start Time: 05:00:00      End Time: 13:12:30      Time On Btm: 2012.11.08 @ 06:27:30  
 Time Off Btm: 2012.11.08 @ 10:36:00

**TEST COMMENT:** 1st Open    2 minute Strong blow    blew bottom bucket 1 minute.  
 1st Shut in    30 minutes No blow back  
 2nd Open    60 minutes Strong blow    blew bottom bucket 3 minutes.  
 2nd Shut in    150 minutes No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1657.74	102.53	Initial Hydro-static
1	321.04	104.24	Open To Flow (1)
2	411.64	111.41	Shut-In(1)
33	1196.28	111.65	End Shut-In(1)
34	422.69	111.47	Open To Flow (2)
91	996.04	113.45	Shut-In(2)
247	1193.11	113.02	End Shut-In(2)
249	1607.31	111.62	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
366.00	Mud cut oil Oil 10% Mud 90%	5.13
549.00	Oil cut gassy mud	7.70
0.00	Gas 10% Oil 805 Mud 10%	0.00
610.00	Oil cut mud Oil 90% Mud 90%	8.56
0.00	gravity of oil 36 corrected	0.00

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17869      **DST#: 5**  
 Test Start: 2012.11.08 @ 05:00:00

**Tool Information**

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight:	2000.00 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:	63000.00 lb
			<u>Total Volume: 45.45 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3252.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.58 ft				
Tool Length:	77.58 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3237.00	
Hydraulic Tool	5.00			3242.00	
Packer	5.00			3247.00	20.00      Bottom Of Top Packer
Packer	5.00			3252.00	
Anchor	7.00			3259.00	
Change Over Sub	0.75			3259.75	
Drill Pipe	31.08			3290.83	
Change Over Sub	0.75			3291.58	
Anchor	13.00			3304.58	
Recorder	1.00	6663	Inside	3305.58	
Recorder	1.00	8400	Outside	3306.58	
Bull Plug	3.00			3309.58	57.58      Bottom Packers & Anchor

**Total Tool Length: 77.58**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Primal Energy O&G  
 21021 Springbrook Plaza Drive  
 Texas 77379  
 ATTN: Tim Hedrick

**10-19s-9w-Rice**  
**Soeken #1**  
 Job Ticket: 17869      **DST#: 5**  
 Test Start: 2012.11.08 @ 05:00:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

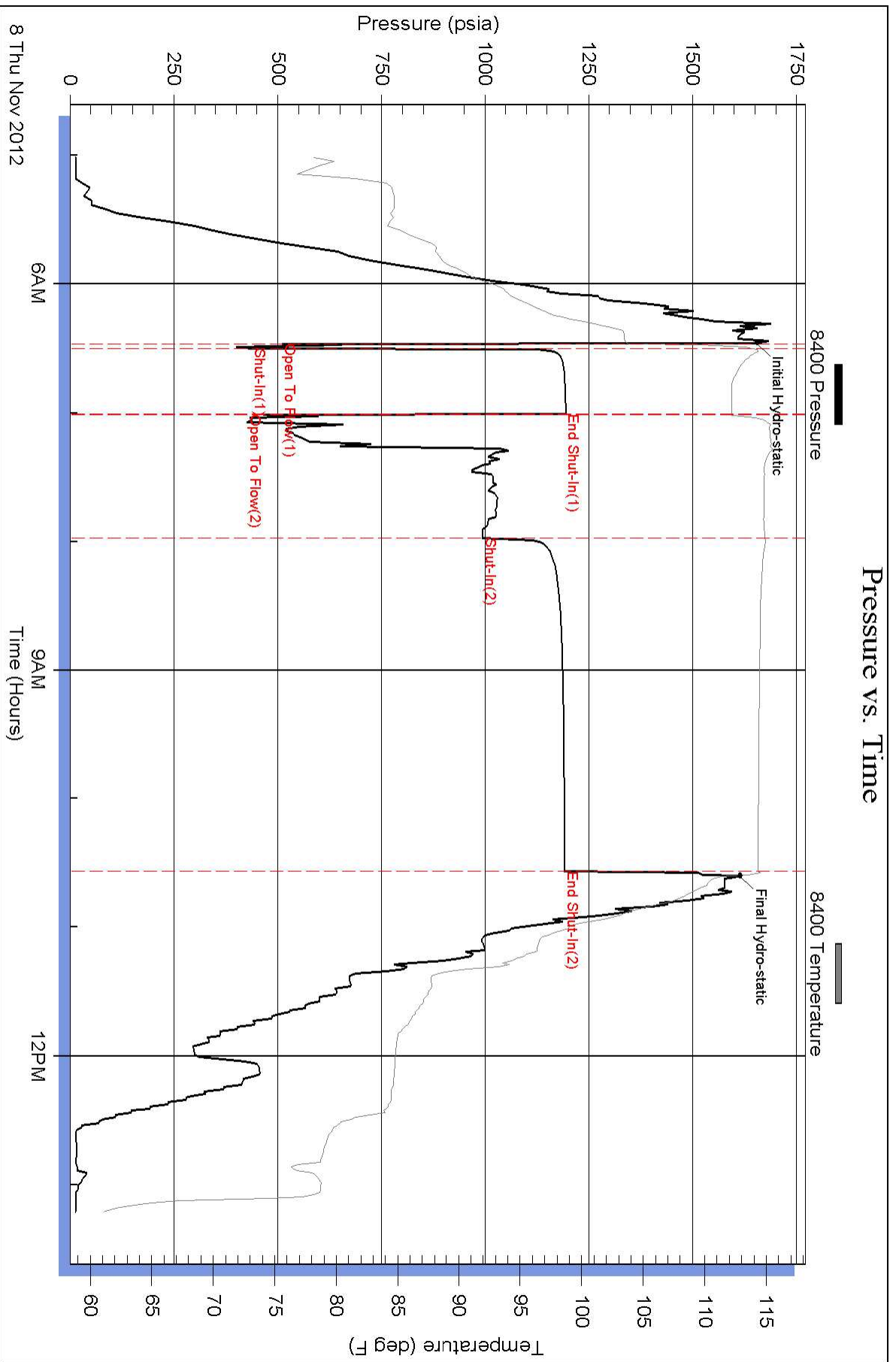
### Recovery Information

Recovery Table

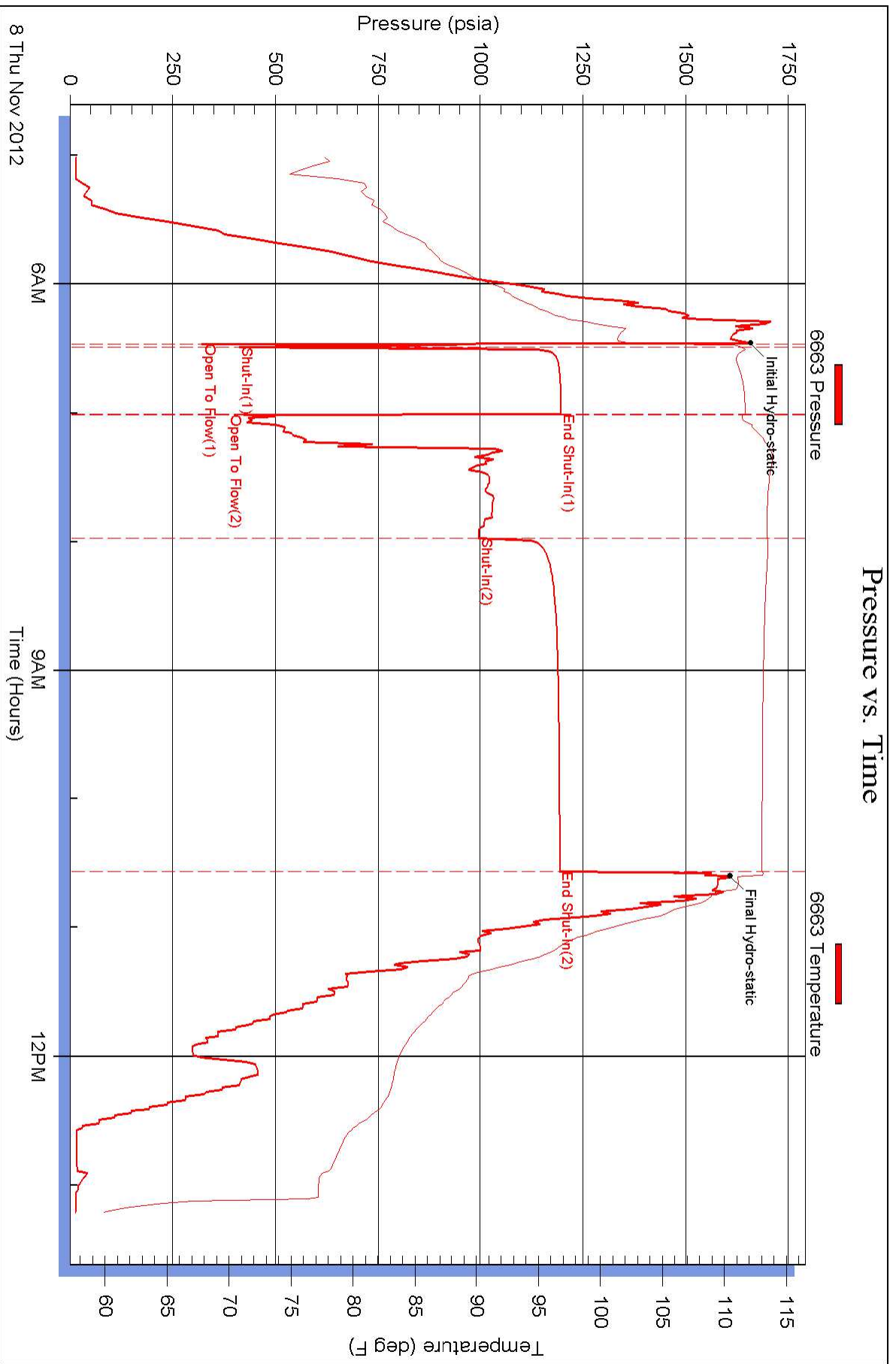
Length ft	Description	Volume bbl
366.00	Mud cut oil Oil 10% Mud 90%	5.134
549.00	Oil cut gassy mud	7.701
0.00	Gas 10% Oil 805 Mud 10%	0.000
610.00	Oil cut mud Oil 90% Mud 90%	8.557
0.00	gravity of oil 36 corrected	0.000

Total Length: 1525.00 ft      Total Volume: 21.392 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 133419  
Invoice Date: Nov 1, 2012  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361



**BILL TO:**  
Primal Energy Oil & Gas, LLC  
21021 Springbrook Plaza Drive  
Suite 160  
Spring, TX 77379

**APPROVED**  
By Chuck Schmidt at 10:38 am, Nov 21, 2012

Customer ID	Well Name # or Customer P.O.	Payment Terms	
Prim	Soeken #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Nov 1, 2012	12/1/12

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Class A Common	17.90	3,311.50
4.00	MAT	Gel	23.40	93.60
7.00	MAT	Chloride	64.00	448.00
200.91	SER	Cubic Feet	2.48	498.25
274.50	SER	Ton Mileage	2.60	713.70
1.00	SER	Surface	1,512.25	1,512.25
30.00	SER	Pump Truck Mileage	7.70	231.00
30.00	SER	Light Vehicle Mileage	4.40	132.00
1.00	CEMENTER	Charles Elkins		
1.00	EQUIP OPER	Joshua Isaac		
1.00	OPER ASSIST	Alan Genereux		

Subtotal	6,940.30
Sales Tax	281.28
Total Invoice Amount	7,221.58
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,221.58</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

~~5,208.21~~

ONLY IF PAID ON OR BEFORE  
Nov 26, 2012



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 133419  
Invoice Date: Nov 1, 2012  
Page: 1



Bill To:
Primal Energy Oil & Gas, LLC 21021 Springbrook Plaza Drive Suite 160 Spring, TX 77379

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Prim	Soeken #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Nov 1, 2012	12/1/12

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Class A Common	17.90	3,311.50
4.00	MAT	Gel	23.40	93.60
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200.91	SER	Cubic Feet	2.48	498.25
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30.00	SER	Pump Truck Mileage	7.70	231.00
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1.00	CEMENTER	Charles Elkins		
1.00	EQUIP OPER	Joshua Isaac		
1.00	OPER ASSIST	Alan Genereux		

Subtotal	6,940.30
Sales Tax	281.28
Total Invoice Amount	7,221.58
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,221.58</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 2082.09

ONLY IF PAID ON OR BEFORE

Nov 26, 2012

# ALLIED OIL & GAS SERVICES, LLC

059048

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend, KS

DATE <u>11-01-12</u>	SEC. <u>10</u>	TWP. <u>19S</u>	RANGE <u>9W</u>	CALLED OUT <u>10:00 AM</u>	ON LOCATION <u>11:50 AM</u>	JOB START <u>7:26 PM</u>	JOB FINISH <u>2:58 PM</u>
LEASE <u>Seeker</u>	WELL # <u>L</u>	LOCATION <u>Rd for 3.2 miles. Turn North on 11<sup>th</sup> Rd for 5.2 miles. Turn West 1 mile.</u>			COUNTY <u>Rice</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			south into location				

CONTRACTOR Val #3

TYPE OF JOB Surface Casing

HOLE SIZE 12 1/4" TD. 317 FT

CASING SIZE 8 7/8" 24# DEPTH 303.18

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 20 FT

CEMENT LEFT IN CSG. 20 FT, 1.27 bbls (5.35 cu)

PERFS. \_\_\_\_\_

DISPLACEMENT 18.5 bbls Fresh Water

OWNER Primal Energy     2-01     1.3

CEMENT AMOUNT ORDERED 185 cu yd 11" + 3% Cool + 2% Cool

COMMON	<u>185</u>	@	<u>17.90</u>	<u>3,311.50</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>7</u>	@	<u>64.00</u>	<u>448.00</u>
ASC		@		
TOTAL <u>3,853.10</u>				

HANDLING 200.91 @ 2.48 = 498.25

MILEAGE 9.15 X 30 @ 2.60 = 238.50

TOTAL 5,066.05

**EQUIPMENT**

PUMP TRUCK # <u>224</u>	CEMENTER <u>Charles Atkins</u>	<u>1</u>
	HELPER <u>Josh Isaac</u>	<u>2</u>
BULK TRUCK # <u>341</u>	DRIVER <u>Alex Gornoux</u>	<u>3</u>
BULK TRUCK # _____	DRIVER _____	

REMARKS:

Primal Energy

Pump 5 bbls Fresh Water

Pump 44 bbls (185 cu) Cement

Pump 18.5 bbls Fresh Water

20 FT. 1.27 bbls 5.35 cu Cement Left in Casing

Circled 18.5 bbls / 63 cu Cement to Surface

CHARGE TO: Primal Energy

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB 303.18

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE HVM 30 @ 7.70 = 231.00

MANIFOLD LVM 30 @ 4.40 = 132.00

TOTAL 1,875.25

**PLUG & FLOAT EQUIPMENT**

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 281.27

TOTAL CHARGES \$ 6,960.30

DISCOUNT 30% 2,082.09 IF PAID IN 30 DAYS

\$ 4,878.21

PRINTED NAME Tyler Lynd

SIGNATURE Tyler Lynd





PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 133464  
Invoice Date: Nov 9, 2012  
Page: 1



**Bill To:**  
Primal Energy Oil & Gas, LLC  
21021 Springbrook Plaza Drive  
Suite 160  
Spring, TX 77379

**APPROVED**  
By Chuck Schmidt at 10:38 am, Nov 21, 2012

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Prim	Soeken #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	Nov 9, 2012	12/9/12

Quantity	Item	Description	Unit Price	Amount
30.00	MAT	Class A Common	17.90	537.00
20.00	MAT	Pozmix	9.35	187.00
2.00	MAT	Gel	23.40	46.80
175.00	MAT	ASC	20.90	3,657.50
500.00	MAT	ASF	1.27	635.00
8.00	MAT	KCL	34.40	275.20
1,050.00	MAT	Gilsonite	0.98	1,029.00
281.05	SER	Cubic Feet	2.48	697.00
363.60	SER	Ton Mileage	2.60	945.36
1.00	SER	Production Casing	2,558.75	2,558.75
30.00	SER	Pump Truck Mileage	7.70	231.00
30.00	SER	Light Vehicle Mileage	4.40	132.00
11.00	EQP	5.5 Centralizer	57.33	630.63
1.00	EQP	5.5 Basket	394.24	394.24
1.00	EQP	5.5 Float Shoe	636.48	636.48
1.00	EQP	5.5 Latch-Down Plug & Baffle	324.07	324.07
1.00	CEMENTER	Wayne Davis		
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joel Monahan		
1.00	OPER ASSIST	Jake Heard		

Subtotal	12,917.00
Sales Tax	609.76
Total Invoice Amount	13,526.79
Payment/Credit Applied	
<b>TOTAL</b>	<b>13,526.79</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

**\$3875.10**

ONLY IF PAID ON OR BEFORE  
Dec 4, 2012

Acct. # K00-010 Amount 9651.69  
Property KSEW002001 AFE 12-03  
Date Rec'd 11-26-12 42494



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 133464

Invoice Date: Nov 9, 2012

Voice: (817) 546-7282  
Fax: (817) 246-3361

Page: 1



Bill To:
Primal Energy Oil & Gas, LLC 21021 Springbrook Plaza Drive Suite 160 Spring, TX 77379

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Prim	Soeken #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	Nov 9, 2012	12/9/12

Quantity	Item	Description	Unit Price	Amount
30.00	MAT	Class A Common	17.90	537.00
20.00	MAT	Pozmix	9.35	187.00
2.00	MAT	Gel	23.40	46.80
175.00	MAT	ASC	20.90	3,657.50
500.00	MAT	ASF	1.27	635.00
8.00	MAT	KCL	34.40	275.20
1,050.00	MAT	Gilsonite	0.98	1,029.00
281.05	SER	Cubic Feet	2.48	697.00
363.60	SER	Ton Mileage	2.60	945.36
1.00	SER	Production Casing	2,558.75	2,558.75
30.00	SER	Pump Truck Mileage	7.70	231.00
30.00	SER	Light Vehicle Mileage	4.40	132.00
11.00	EQP	5.5 Centralizer	57.33	630.63
1.00	EQP	5.5 Basket	394.24	394.24
1.00	EQP	5.5 Float Shoe	636.48	636.48
1.00	EQP	5.5 Latch Down Plug & Baffle	324.07	324.07
1.00	CEMENTER	Wayne Davis		
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joel Monahan		
1.00	OPER ASSIST	Jake Heard		

Subtotal	12,917.03
Sales Tax	609.76
Total Invoice Amount	13,526.79
Payment/Credit Applied	
<b>TOTAL</b>	<b>13,526.79</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

~~\$3875.10~~

ONLY IF PAID ON OR BEFORE  
Dec 4, 2012

# ALLIED OIL & GAS SERVICES, LLC 059083

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend

DATE <u>11-9-12</u>	SEC. <u>10</u>	TWP. <u>19 S</u>	RANGE <u>2W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>Soeken</u>	WELL# <u>1</u>	LOCATION <u>Chase 3 East 5 North</u>		COUNTY <u>Rice</u>	STATE <u>Ks</u>		
OLD OR <u>NEW</u> (Circle one)		<u>1/2 west south into</u>					

CONTRACTOR <u>WAL Rice 3</u>	OWNER
TYPE OF JOB <u>Pipe Job Production</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	AMOUNT ORDERED <u>175 SX ASC + 270 GEL</u>
CASING SIZE <u>5 1/2</u>	<u>+ 100 Salt + 50# Gilsolite</u>
TUBING SIZE	<u>50 SX 60/40 + 420 GEL</u>
DRILL PIPE	
TOOL	
PRES. MAX	
MEAS. LINE	
CEMENT LEFT IN CSG. <u>11</u>	
PERFS.	
DISPLACEMENT <u>84 Kch water</u>	

COMMON <u>30</u>	@ <u>17.90</u>	<u>537.00</u>
POZMIX <u>20</u>	@ <u>9.35</u>	<u>187.00</u>
GEL <u>2</u>	@ <u>23.40</u>	<u>46.80</u>
CHLORIDE	@	
ASC <u>175</u>	@ <u>20.90</u>	<u>3,657.50</u>
	@	
<u>500 Gallon ASF</u>	@ <u>1.27</u>	<u>635.00</u>
<u>8 Gallon Kch</u>	@ <u>34.40</u>	<u>275.20</u>
	@	
<u>Gilsolite 1050</u>	@ <u>.98</u>	<u>1029.00</u>
	@	
	@	
HANDLING <u>281.05</u>	@ <u>2.48</u>	<u>697.00</u>
MILEAGE <u>12.12 x 30x</u>	@ <u>2.60</u>	<u>945.36</u>
TOTAL		<u>8,009.86</u>

PUMP TRUCK # <u>366</u>	CEMENTER <u>Wayne Davis</u>
BULK TRUCK # <u>252</u>	HELPER <u>Kevin Eddy</u>
BULK TRUCK # <u></u>	DRIVER <u>Jake Heard</u>

REMARKS:  
Run float equipment  
Break circulation with Rice  
Mud Run 500 Gallon ASF  
Plug Rat with 30 SX  
Plug mouse with 20 SX  
mix 175 SX ASC shut down  
wash pump and lines  
Release plug Displace 84 BBLs  
Kch water hand plug at 130 AM  
cement dis place at 130 AM  
Release 1/2 BBL Bank

CHARGE TO: Quimel  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DEPTH OF JOB <u>3350</u>	
PUMP TRUCK CHARGE <u>2,558.75</u>	
EXTRA FOOTAGE @	
MILEAGE <u>Hum 30</u>	@ <u>7.70</u> <u>231.00</u>
MANIFOLD @	
<u>hum 30</u>	@ <u>4.40</u> <u>132.00</u>
TOTAL <u>2,921.75</u>	

10 Centrifuges @ <u>57.33</u>	<u>630.93</u>
1 Basket @ <u>394.94</u>	<u>394.94</u>
1 float shoe @ <u>636.48</u>	<u>636.48</u>
Latch Down Bit @ <u>324.07</u>	<u>324.07</u>
Plug	
TOTAL <u>1,985.42</u>	

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Charles Schmidt  
 SIGNATURE Charles Schmidt

SALES TAX (IF Any) 609.76  
 TOTAL CHARGES 12,917.03  
 DISCOUNT 30% 3,875.10 IF PAID IN 30 DAYS  
9,041.93