



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: _____



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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 0170

Cell 785-324-1041

Date	11-3-12	Sec.	7	Twp.	15	Range	13	County	Russell	State	Ks	On Location		Finish	3:00 AM
Lease	King							Location	Russell, Ks - S to Winter set Rd, 1 1/2 E						
Contractor	Royal #2							Well No.	10						
Type Job	Sustace							Owner	To 187th, 13 1/4 N, E into						
Hole Size	12 1/4"							T.D.	418'						
Csg.								Depth	418'						
Tbg. Size								Charge To	Ward Craig						
Tool	2							Street							
Cement Left in Csg.	20'							Depth							
Meas Line								City	State						
EQUIPMENT								The above was done to satisfaction and supervision of owner agent or contractor.							
Pumptrk	9	No.	Cementer		Helper		Cody								
Bulktrk	10	No.	Driver		Driver		Doug								
Bulktrk	pi.u.	No.	Driver		Driver		Rick								
JOB SERVICES & REMARKS								Common							
Remarks	Cement did Circulate							225 5x Common 3% CC							
Rat Hole								Displace 25 1/4 BUS 2% Gel							
Mouse Hole								Common							
Centralizers								Poz. Mix							
Baskets								Gel.							
D/V or Port Collar								Calcium							
								Hulls							
								Salt							
								Flowseal							
								Kol-Seal							
								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
X Signature	[Signature]							Total Charge							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 3171

Cell 785-324-1041

Date	11-8-12	Sec.	7	Twp.	15	Range	13	County	RUSSELL	State	KANSAS	On Location		Finish	7:00 P.m.
Lease								Well No.		Location					
KEUG								#10		RUSSELL TO MITCHELL R-1E-1N-1E-10					
Contractor								Owner		To Quality Oilwell Cementing, Inc.					
ROYAL #2								WARREN CRAIG		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		P.T.A.					
Hole Size								T.D.		7 7/8"					
Csg.								Depth		4 1/2"					
Tbg. Size								Depth		3365					
Tool								City		State					
Cement Left in Csg.								Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line								Displace		Cement Amount Ordered 205 bbl/40 ft 4 1/2" 4 1/2" FS					
EQUIPMENT								Common							
Pumptrk #15								Cementer		No. 15					
Bulktrk #12								Helper		No. 12					
Bulktrk #14								Driver		No. 14					
JOB SERVICES & REMARKS								Driver		No. 14					
Remarks:								Driver		No. 14					
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
1st @ 3318'								Handling		25 SKS					
2nd @ 860'								Mileage		25 SKS					
3rd @ 470'								FLOAT EQUIPMENT		100 SKS					
4th @ 40'								Guide Shoe		10 SKS					
RH								Centralizer		30 SKS					
MH								Baskets		15 SKS					
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
Signature															

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

No. 0171

785-483-2025
785-324-1041

Date	11-8-12	Sec.	7	Twp.	15	Range	13	County	RUSSELL	State	KANSAS	On Location		Finish	7:00 A
								Location	RUSSELL TO MITCHELL RD. 1/2 IN. E/INTO						

Lease	Keug	Well No.	#10	Owner	LWAEN CRAIG
Contractor	Royal #2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	P.T.A	Charge To	LWAEN CRAIG		
Hole Size	7 7/8"	T.D.	3365		
Csg.	4 1/2"	Depth			
Tbg. Size		Depth			
Tool		Depth			
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor	
Meas Line		Displace		Cement Amount Ordered 20560/40252 4 3/4" 4 F.	

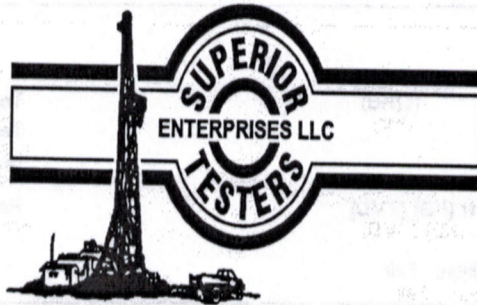
EQUIPMENT

Pumptrk #15	No.	Cementer		Common	123
		Helper	NICK	Poz. Mix	82
Bulktrk #12	No.	Driver	LONNIE W.	Gel.	7
		Driver		Calcium	
Bulktrk #11	No.	Driver		Hulls	
		Driver		Salt	50#

JOB SERVICES & REMARKS

Remarks:		Flowseal	50#
Rat Hole		Kol-Seal	
Mouse Hole		Mud CLR 48	
Centralizers		CFL-117 or CD110 CAF 38	
Baskets		Sand	
D/V or Port Collar		Handling	212
1st @ 3318	25 SKS	Mileage	
2nd @ 860	25 SKS	FLOAT EQUIPMENT	
3rd @ 470	100 SKS	Guide Shoe	
4th @ 40	10 SKS	Centralizer	
RH	30 SKS	Baskets	1 8 1/2 woolen plug
MH	15 SKS	AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	plug	Tax	
Mileage	15	Discount	



DRILL STEM TEST REPORT

Prepared For: **Craig Oil Company**

15 South Main
Russell, Kansas 67665+2901

ATTN: Jeff Lawler

Krug #10

7/15S/13W/Russell

Start Date: 2012.11.07 @ 16:19:00

End Date: 2012.11.07 @ 20:57:30

Job Ticket #: 16911 DST #: 1

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

Printed: 2012.11.11 @ 08:26:48

Craig Oil Company

7/15S/13W/Russell

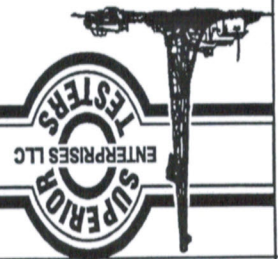
Krug #10

DST # 1

Arbuckle

2012.11.07

DRILL STEM TEST REPORT



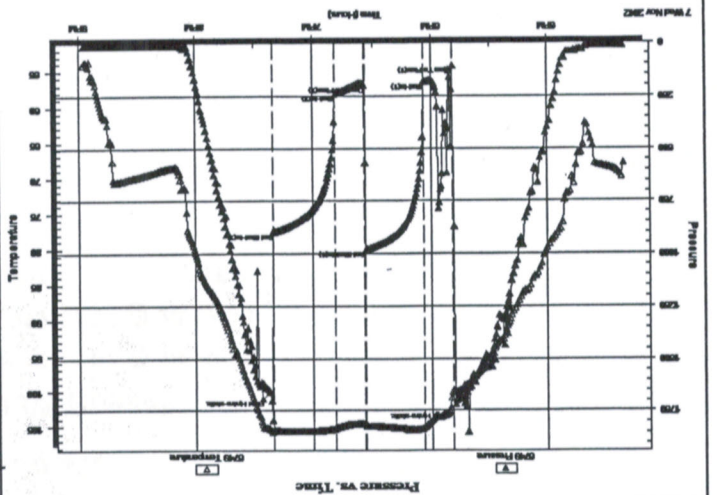
Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
 Krug #10
 Job Ticket: 16911
 DST#: 1
 Test Start: 2012.11.07 @ 16:19:00

GENERAL INFORMATION:

Formation: Arbuckle
 Deviated: No
 Whipstock: ft (KB)
 Time Tool Opened: 17:49:00
 Time Test Ended: 20:57:30
 Interval: 3283.00 ft (KB) To 3340.00 ft (KB) (TVD)
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inchesHole Condition: Fair
 Reference Elevations: 1869.00 ft (KB)
 1862.00 ft (CF)
 7.00 ft
 KB to GRCF:

Serial #: 6749
 Inside
 Press@RunDepth: 239.60 psia @ 3334.80 ft (KB)
 Start Date: 2012.11.07
 End Date: 2012.11.07
 Capacity: 5000.00 psia
 Last Callb.: 2012.11.07
 Time On Btm: 20:57:30
 Time Off Btm: 2012.11.07 @ 19:22:00
 TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 5 minutes
 1ST Shut in 30 Minutes/No blow back
 2ND Open 15 Minutes/Good blow/Blow built to bottom of bucket in 5 minutes
 2ND Shut in 30 Minutes/No blow back



Annotation	Temp (deg F)	Pressure (psia)	Time (Min.)
Initial Hydro-static	100.13	1718.94	0
Open To Flow (1)	99.87	108.23	1
Shut-in (1)	105.09	185.18	16
End Shut-in (1)	104.86	978.90	46
Open To Flow (2)	104.65	198.56	47
Shut-in (2)	105.18	239.60	61
End Shut-in (2)	105.54	896.75	93
Final Hydro-static	105.35	1661.19	94

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bb)
30.00	Mud 100%	0.42
600.00	Muddy Water w th skim of oil	8.42
0.00	Mud 45% Water 54% Oil 1%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
Krug #10
 Job Ticket: 16911 DST#: 1
 Test Start: 2012.11.07 @ 16:19:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:49:00
 Time Test Ended: 20:57:30

Test Type: **Conventional Straddle (Initial)**
 Tester: **Ken Swinney**
 Unit No: **3325 Great Bend/64**

Interval: **3283.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Total Depth: **3365.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Fair**

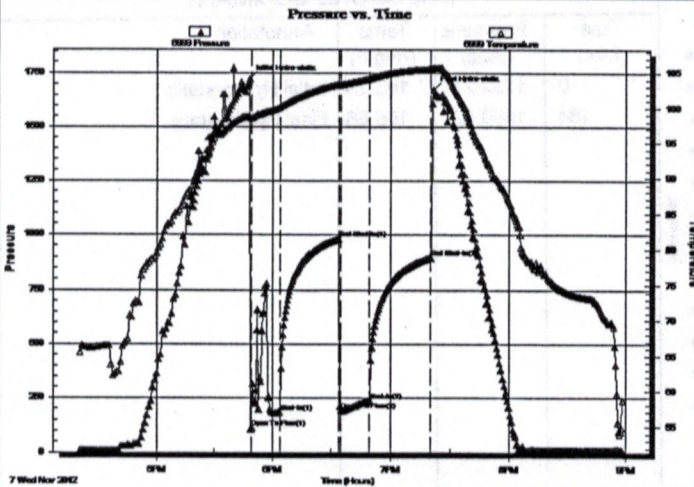
Reference Elevations: **1869.00 ft (KB)**
1862.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 6999

Press@RunDepth: **897.17 psia @ ft (KB)**
 Start Date: **2012.11.07** End Date: **2012.11.07**
 Start Time: **16:20:00** End Time: **20:58:00**

Capacity: **5000.00 psia**
 Last Calib.: **2012.11.07**
 Time On Btm: **2012.11.07 @ 17:48:30**
 Time Off Btm: **2012.11.07 @ 19:21:30**

TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 5 minutes
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Good blow/Blow built to bottom of bucket in 5 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1723.23	98.78	Initial Hydro-static
1	112.13	98.52	Open To Flow (1)
16	183.96	100.10	Shut-In(1)
46	979.34	103.40	End Shut-In(1)
47	192.09	103.32	Open To Flow (2)
61	237.96	104.15	Shut-In(2)
92	897.17	105.54	End Shut-In(2)
93	1674.70	105.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42
600.00	Muddy Water with skim of oil	8.42
0.00	Mud 45% Water 54% Oil 1%	0.00

Gas Rates

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

DRILL STEM TEST REPORT



Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
Krug #10
 Job Ticket: 16911
 DST#: 1
 Test Start: 2012.11.07 @ 16:19:00

GENERAL INFORMATION:

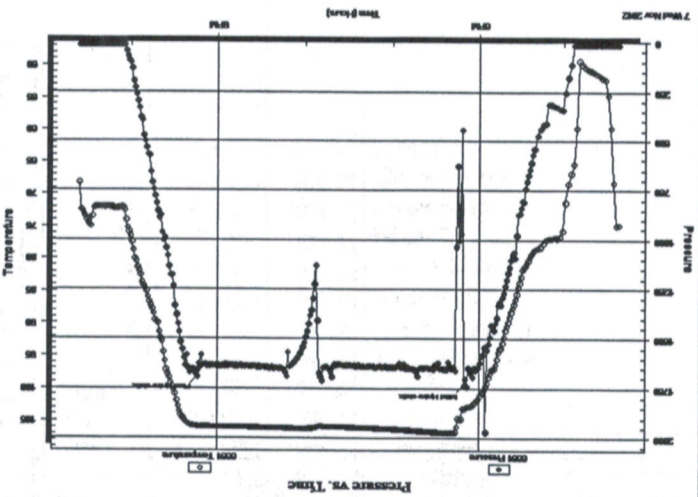
Formation: Arbuckle
 Devalted: No Whipstock:
 Time Tool Opened: 17:49:00
 Time Test Ended: 20:57:30
 Interval: 3283.00 ft (KB) To 3340.00 ft (KB) (TVD)
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches/Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 6651
 Press@RunDepth: psia @ 3360.28 ft (KB)
 Start Date: 2012.11.07
 End Date: 2012.11.11
 Capacity: 5000.00 psia

TEST COMMENT:
 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 5 minutes
 1ST Shut in 30 Minutes/No blow back
 2ND Open 15 Minutes/Good blow/Blow built to bottom of bucket in 5 minutes
 2ND Shut in 30 Minutes/No blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1732.27	103.23	Initial Hydro-static
184	1690.52	105.86	Final Hydro-static

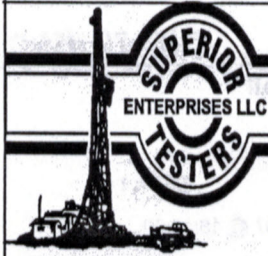


Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42
600.00	Muddy Water w/lt skm of oil	8.42
0.00	Mud 45% Water 54% Oil 1%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
 Krug #10
 Job Ticket: 16911 DST#: 1
 Test Start: 2012.11.07 @ 16:19:00

Tool Information

Drill Pipe:	Length: 3291.00 ft	Diameter: 3.80 inches	Volume: 46.16 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: 45000.00 lb
			Total Volume: 46.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.80 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3283.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	3337.10 ft			
Interval between Packers:	54.10 ft			
Tool Length:	97.08 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3271.20	
Hydraulic Tool	5.00			3276.20	
Packer	5.00			3281.20	16.80 Bottom Of Top Packer
Packer	1.80			3283.00	
Perforations	5.00			3288.00	
Change over sub	0.64			3288.64	
Drill Pipe	30.50			3319.14	
Change over sub	0.66			3319.80	
Handling sub	5.00			3324.80	
Perforations	10.00			3334.80	
Recorder	0.00	6748	Inside	3334.80	
Recorder	0.00	6749	Inside	3334.80	
Blank Off Sub	0.67			3335.47	
Travel Collar	1.63			3337.10	
Packer	1.60			3338.70	54.10 Tool Interval
Packer	1.58			3340.28	
Perforations	20.00			3360.28	
Recorder	0.00	6651	Below	3360.28	
Bullnose	3.00			3363.28	26.18 Bottom Packers & Anchor

Total Tool Length: 97.08



DRILL STEM TEST REPORT

FLUID SUMMARY

Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATN: Jeff Lawler
 Job Ticket: 16911
 DST#: 1
 Test Start: 2012.11.07 @ 16:19:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 63.00 sec/qt
 Water Loss: 8.79 in³
 Resistivity: ohm.m
 Salinity: 3000.00 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
30.00	Mud 100%	0.421
600.00	Muddy Water w rth skim of oil	8.416
0.00	Mud 45% Water 54% Oil 1%	0.000

Total Length: 630.00 ft
 Total Volume: 8.837 bbl
 Num Gas Bombs: 0
 Laboratory Location:
 Num Fluid Samples: 0
 Laboratory Name:
 Recovery Comments:

Serial #: 6749

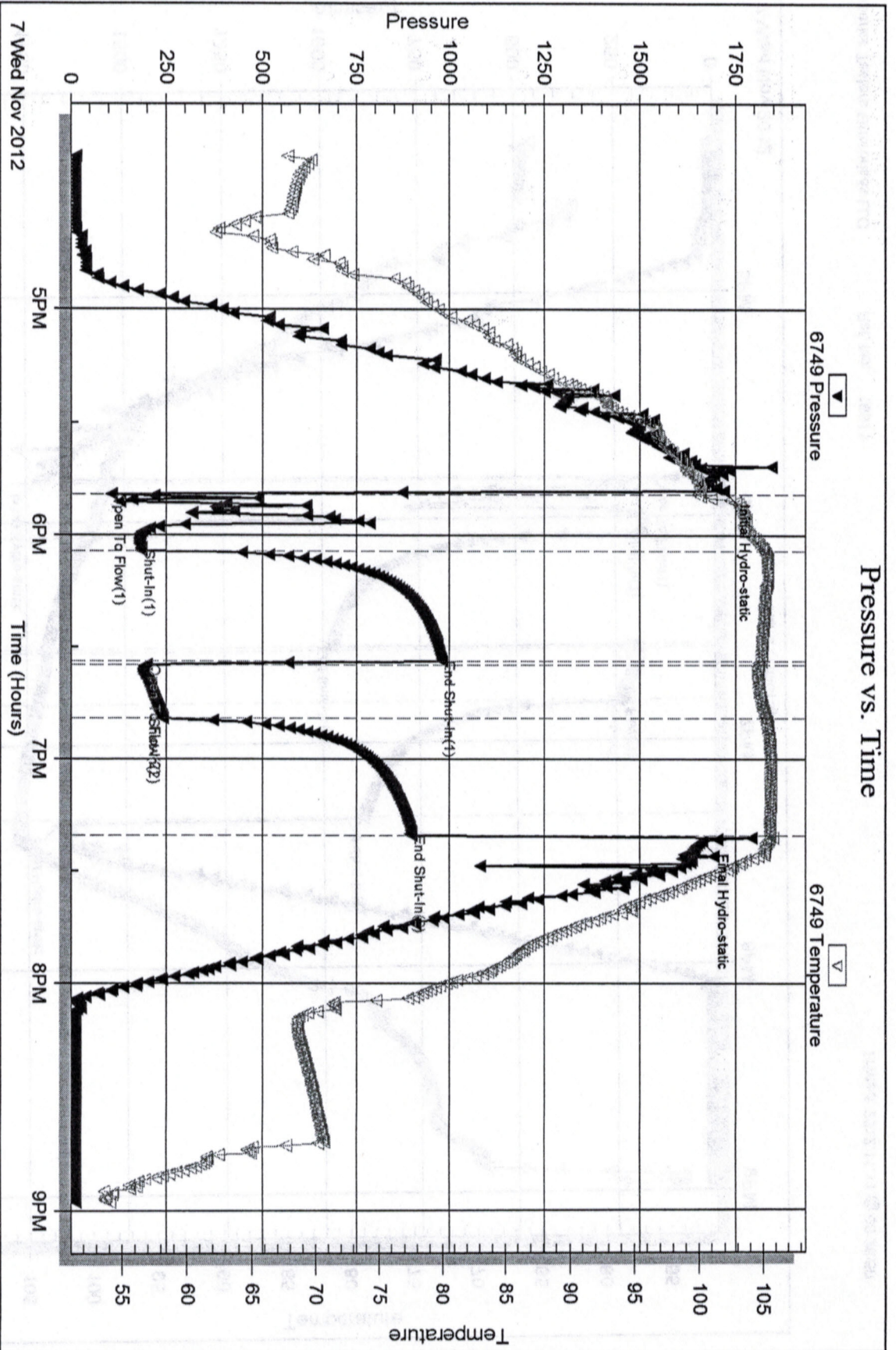
Inside

Craig Oil Company

Krug #10

DST Test Number: 1

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16911

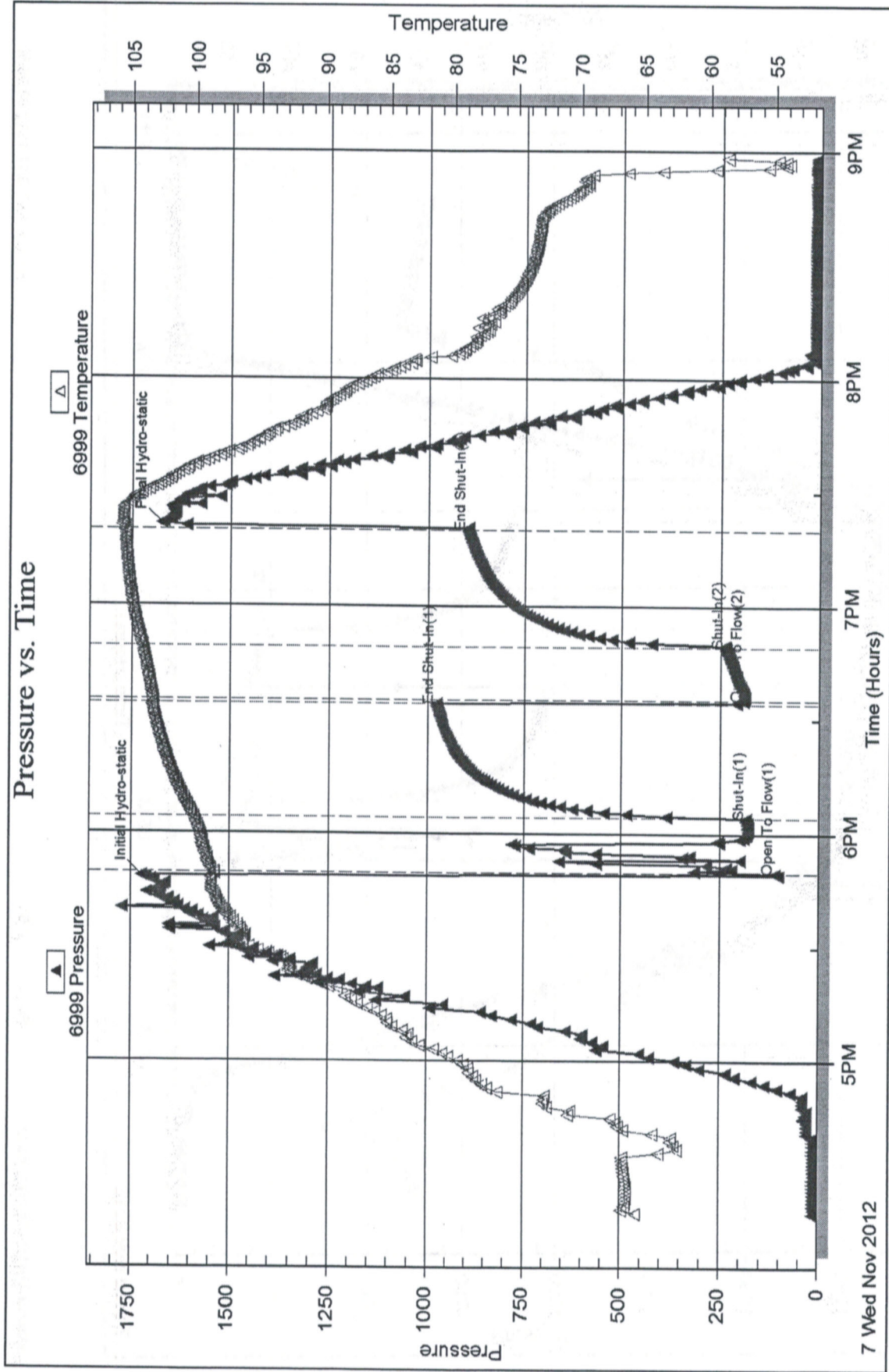
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Serial #: 6999

Craig Oil Company

Krug #10

DST Test Number: 1



7 Wed Nov 2012

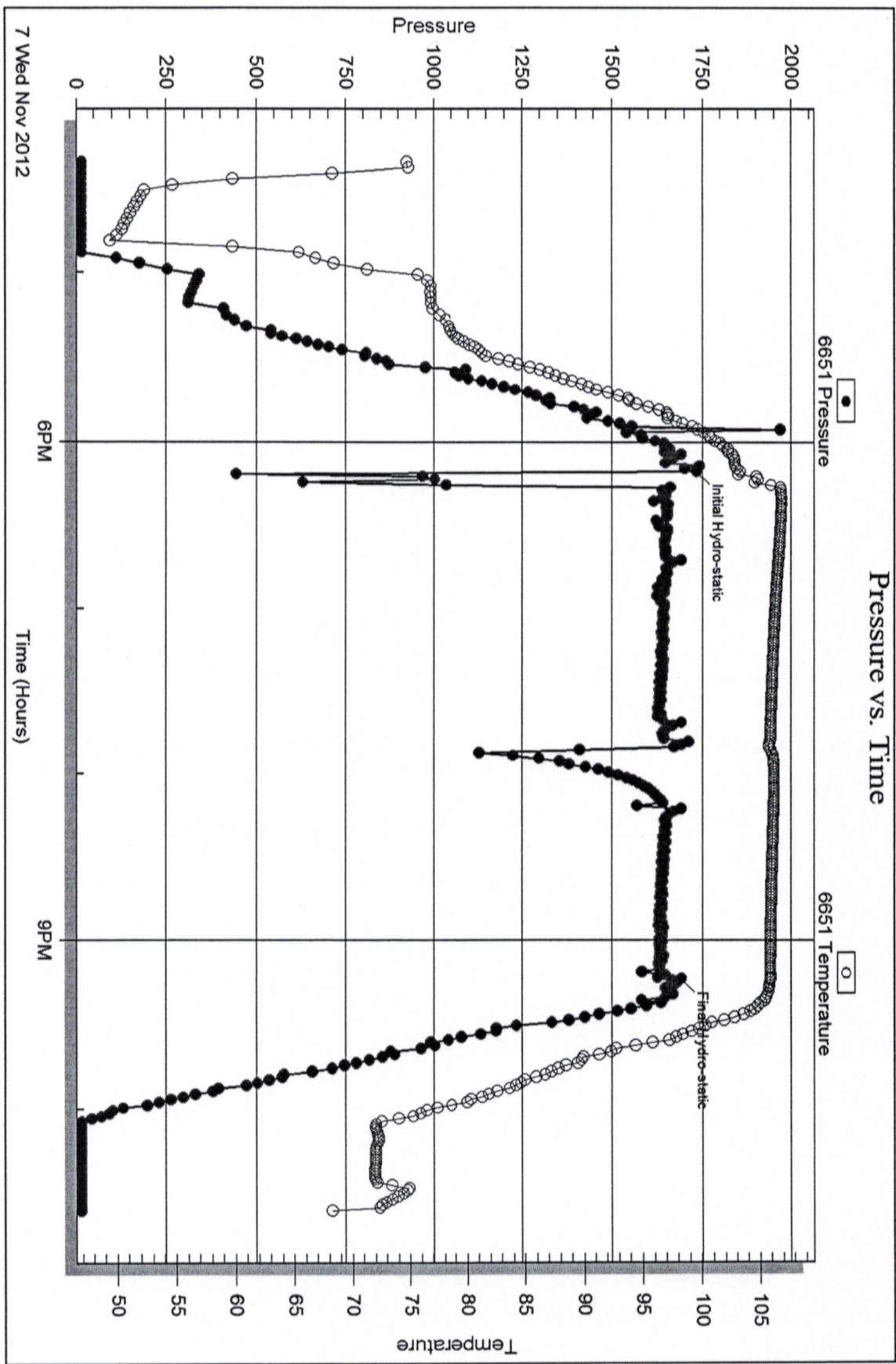
Serial #: 6651

Below

Craig Oil Company

Krug #10

DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 16911

Printed: 2012.11.11 @ 08:26:50



DRILL STEM TEST REPORT

Prepared For: **Craig Oil Company**

15 South Main
Russell, Kansas 67665+2901

ATTN: Jeff Lawler

Krug #10

7/15S/13W/Russell

Start Date: 2012.11.07 @ 00:00:00

End Date:

Job Ticket #: 16912

DST #: 2

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

Printed: 2012.11.11 @ 08:27:33

Craig Oil Company
7/15S/13W/Russell
Krug #10
DST # 2
Arbuckle
2012.11.07

DRILL STEM TEST REPORT



Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

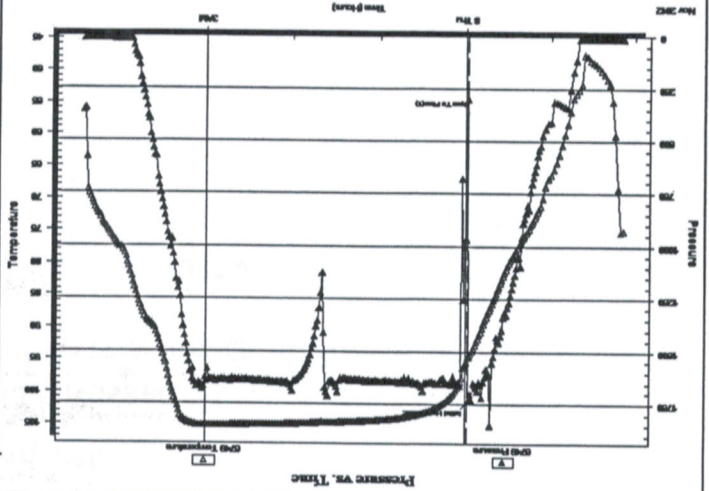
7/15S/13W/Russell
 Krug #10
 Job Ticket: 16912
 DST#: 2
 Test Start: 2012.11.07 @ 00:00:00

GENERAL INFORMATION:

Formation: Arbuckle
 Deviated: No
 Whipstock: No
 Time Tool Opened:
 Time Test Ended:
 Interval: 3331.00 ft (KB) To 3341.00 ft (KB) (TVD)
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches-Hole Condition: Poor
 Reference Elevations: 1869.00 ft (KB)
 1862.00 ft (CF)
 7.00 ft
 KB to GR/CF:

Serial #: 6749
 Inside
 Press@RunDepth: psia @ 3335.00 ft (KB)
 Start Date: 2012.11.07
 End Date: 2012.11.08
 Capacity: 5000.00 psia
 Last Calib.: 2012.11.08
 Time On Btm: 04:25:30
 Time Off Btm: 2012.11.07 @ 23:58:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 4 1/2 inches then died to 4 inches
 1ST Shut in 60 Minutes/No blow back
 2ND Open 30 Minutes/Dead no blow/Flush tool/Weak surface blow died in 7 minutes
 2ND Shut in 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1732.22	94.74	Initial Hydro-static
1	300.69	94.55	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.49

Gas Rates

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



DRILL STEM TEST REPORT

Craig Oil Company

7/15S/13W/Russell

15 South Main
Russell, Kansas 67665+2901

Krug #10

Job Ticket: 16912

DST#: 2

ATTN: Jeff Lawler

Test Start: 2012.11.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:

Test Type: Conventional Straddle (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/64

Interval: **3331.00 ft (KB) To 3341.00 ft (KB) (TVD)**
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Poor

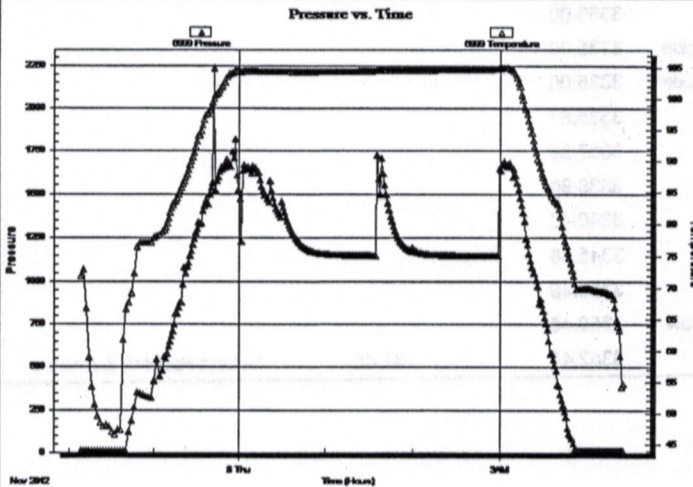
Reference Elevations: 1869.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6999 Below

Press@RunDepth: psia @ 3359.48 ft (KB)
 Start Date: 2012.11.07 End Date: 2012.11.08
 Start Time: 22:08:00 End Time: 04:26:00

Capacity: 5000.00 psia
 Last Calib.: 2012.11.08
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 4 1/2 inches then died to 4 inches
 1ST Shut In 60 Minutes/No blow back
 2ND Open 30 Minutes/Dead no blow /Flush tool/Weak surface blow died in 7 minutes
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.49

Gas Rates

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

TOOL DIAGRAM

DRILL STEM TEST REPORT



Craig Oil Company

7/15S/13W/Russell

15 South Main
Russell, Kansas 67665+2901

Krug #10

Job Ticket: 16912
DST#: 2

ATTN: Jeff Lawler

Test Start: 2012.11.07 @ 00:00:00

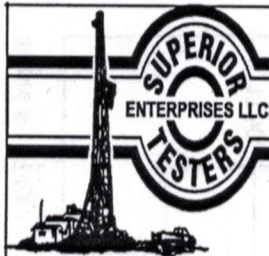
Tool Information

Drill Ppe: Length: 3322.00 ft Diameter: 3.80 inches Volume: 46.60 bbl
 Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Heavy Wt. Ppe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Drill Ppe Above KB: Length: 7.80 ft
 Depth to Top Packer: 3331.00 ft
 Depth to Bottom Packer: 3362.48 ft
 Interval between Packers: 31.48 ft
 Tool Length: 48.28 ft
 Number of Packers: 3
 Diameter: 6.75 inches
 Tool Comments:

Drill Ppe: 2000.00 lb
 Weight set on Packer: 20000.00 lb
 Weight to Pull Loose: 50000.00 lb
 Tool Chased: 1.00 ft
 String Weight: Initial 32000.00 lb
 Final 33000.00 lb

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			3319.20	
Hydraulic Tool	5.00			3324.20	
Packer	5.00			3329.20	16.80
Packer	1.80			3331.00	
Perforations	4.00			3335.00	
Recorder	0.00	6651	Inside	3335.00	
Recorder	0.00	6749	Inside	3335.00	
Blank Off Sub	0.67			3335.67	
Travel Collar	1.63			3337.30	
Packer Anchor Side	1.60			3338.90	
Packer Tail Side	1.58			3340.48	
Handling Sub	5.00			3345.48	
Perforations	14.00			3359.48	
Recorder	0.00	6999	Below	3359.48	
Bullnose	3.00			3362.48	
Total Tool Length:	48.28				
Bottom Packers & Anchor					31.48



DRILL STEM TEST REPORT

FLUID SUMMARY

Craig Oil Company
15 South Main
Russell, Kansas 67665+2901
ATTN: Jeff Lawler

7/15S/13W/Russell
Krug #10
Job Ticket: 16912 DST#: 2
Test Start: 2012.11.07 @ 00:00:00

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Mud 100%	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749

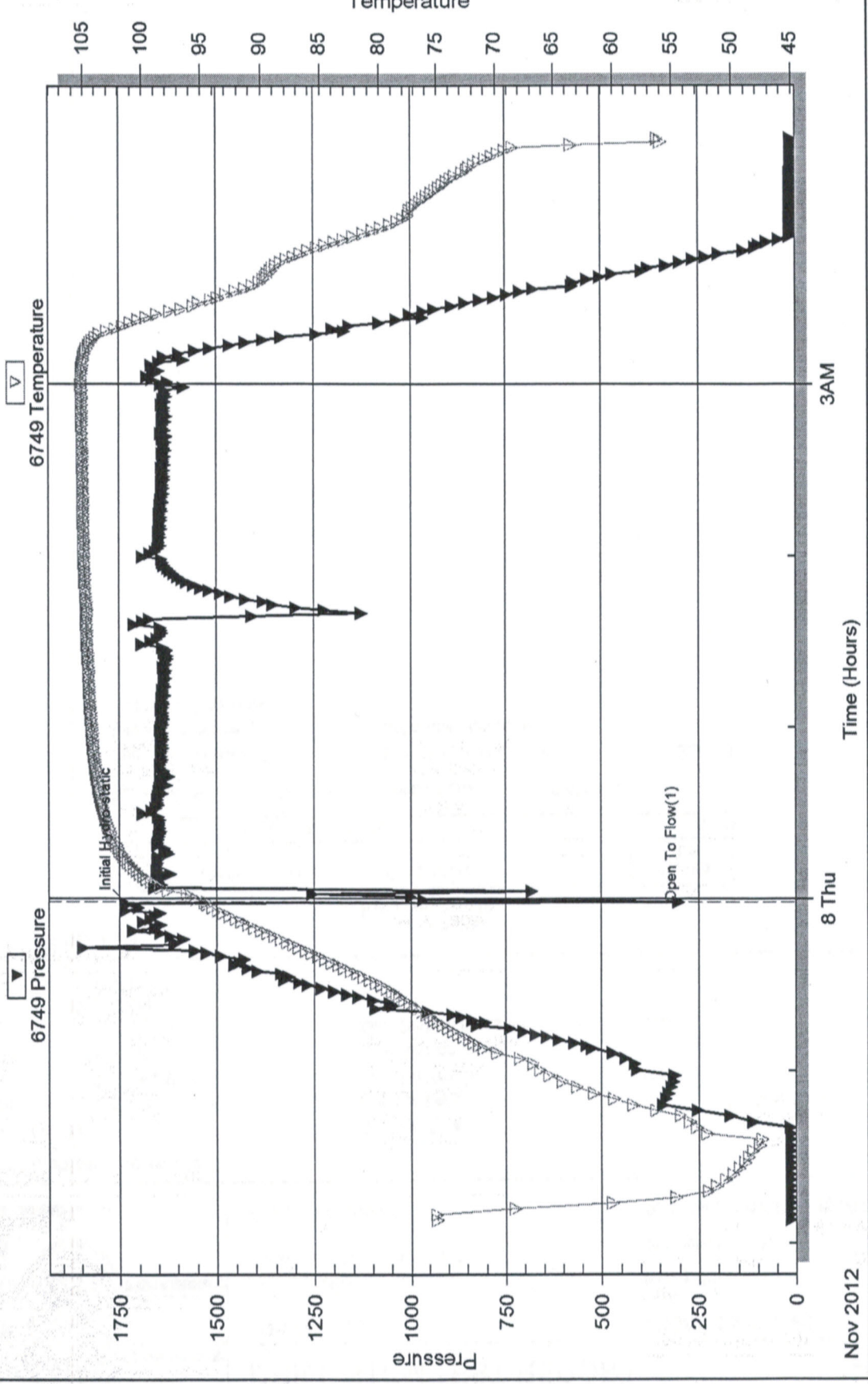
Inside

Craig Oil Company

Krug #10

DST Test Number: 2

Pressure vs. Time



Printed: 2012.11.11 @ 08:27:34

Ref. No: 16912

Superior Testers Enterprises LLC

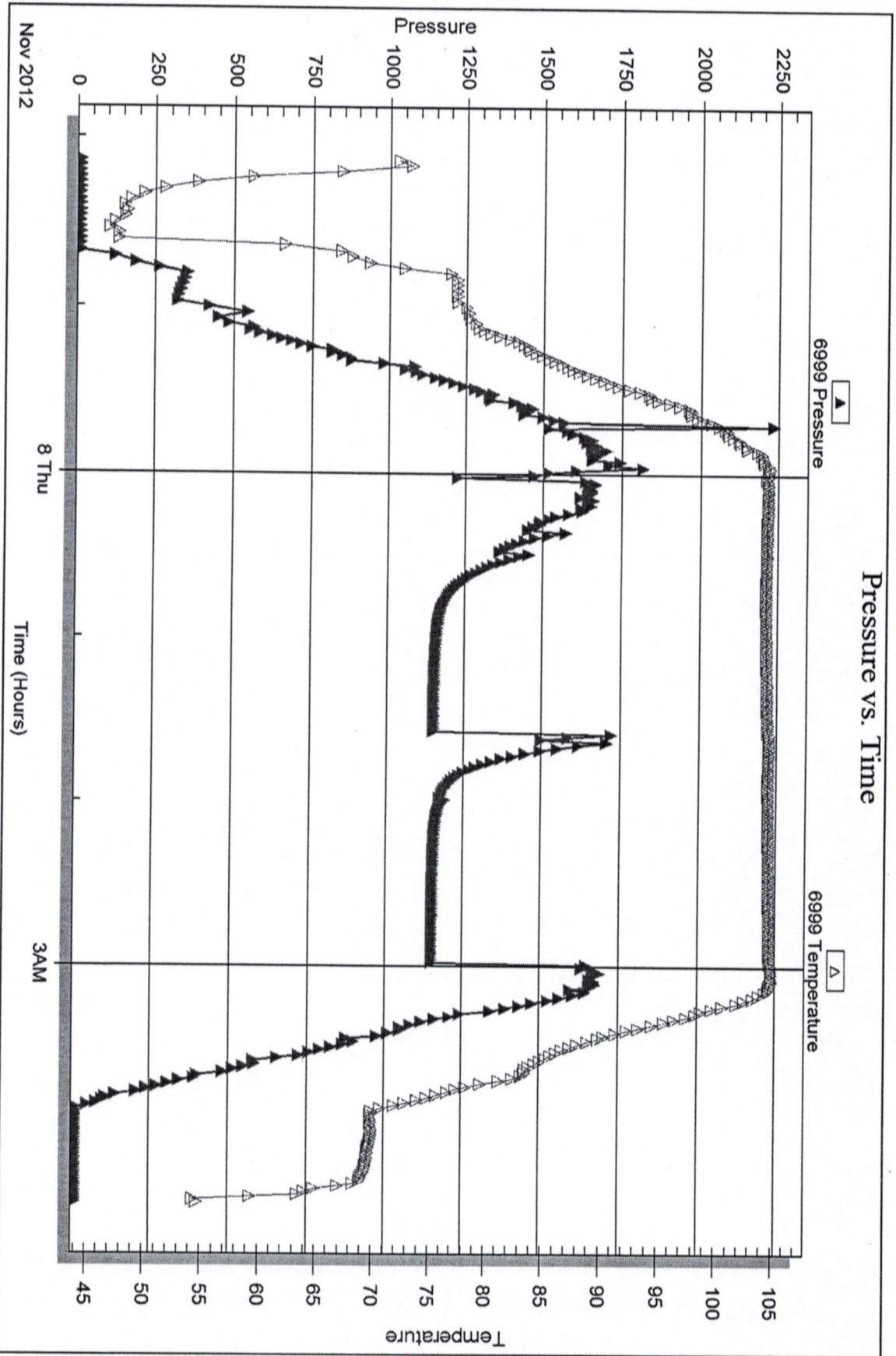
Serial #: 6999

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Craig Oil Company

Krug #10

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 16912

Printed: 2012.11.11 @ 08:27:34



DRILL STEM TEST REPORT

Prepared For: **Craig Oil Company**

15 South Main
Russell, Kansas 67665+2901

ATTN: Jeff Lawler

Krug #10

7/15S/13W/Russell

Start Date: 2012.11.08 @ 09:00:00

End Date: 2012.11.08 @ 14:30:00

Job Ticket #: 16913 DST #: 3

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

Printed: 2012.11.11 @ 08:27:49

Craig Oil Company

7/15S/13W/Russell

Krug #10

DST # 3

Lansing/Kansas City

2012.11.08

DRILL STEM TEST REPORT



Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

Krug #10
 Job Ticket: 16913
 DST#: 3
 Test Start: 2012.11.08 @ 09:00:00

GENERAL INFORMATION:

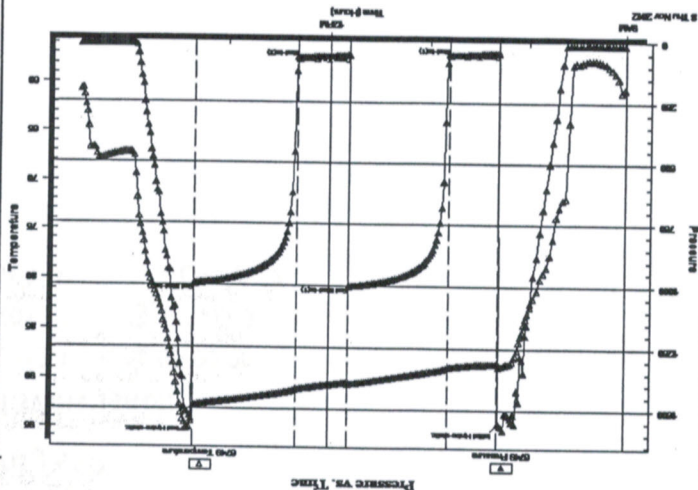
Formation: Lansing/Kansas City
 Deviated: No Whipstock:
 Time Tool Opened: 10:18:30
 Time Test Ended: 14:30:00
 Interval: 3058.00 ft (KB) To 3100.00 ft (KB) (TVD)
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches/Hole Condition: Fair
 Reference Elevations: 1869.00 ft (KB)
 1862.00 ft (CF)
 7.00 ft
 KB to GR/CF:

Serial #: 6749
 Inside
 Press@RunDepth: 66.81 psia @ 3094.00 ft (KB)
 Start Date: 2012.11.08
 End Date: 2012.11.08
 Capacity: 5000.00 psia
 Last Calib.: 2012.11.08
 Time On Btm: 2012.11.08 @ 10:18:00
 Time Off Btm: 2012.11.08 @ 13:21:30

TEST COMMENT:
 1ST Open 30 Minutes/Weak blow/Blow built to 3 1/2 inches
 1ST Shut In 60 Minutes/Very weak surface blow back
 2ND Open 30 Minutes/Weak blow/Blow built to 2 1/2 inches
 2ND Shut In 60 Minutes/Light surface blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1552.67	88.73	Initial Hydro-static
1	43.99	88.25	Open To Flow (1)
31	55.70	88.81	Shut-In(1)
90	1001.60	90.57	End Shut-In(1)
91	56.34	90.30	Open To Flow (2)
121	66.81	91.11	Shut-In(2)
183	993.54	92.76	End Shut-In(2)
184	1537.36	94.39	Final Hydro-static

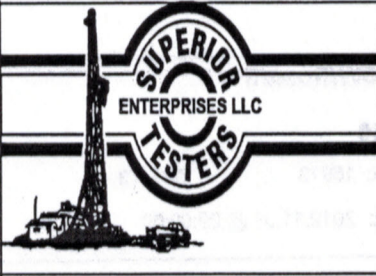


Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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



DRILL STEM TEST REPORT

Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
Krug #10
 Job Ticket: 16913 DST#: 3
 Test Start: 2012.11.08 @ 09:00:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 10:18:30
 Time Test Ended: 14:30:00

Test Type: **Conventional Straddle (Initial)**
 Tester: **Ken Swinney**
 Unit No: **3325 Great Bend/64**

Interval: **3058.00 ft (KB) To 3100.00 ft (KB) (TVD)**
 Total Depth: **3365.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Fair**

Reference Elevations: **1869.00 ft (KB)**
1862.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 6999

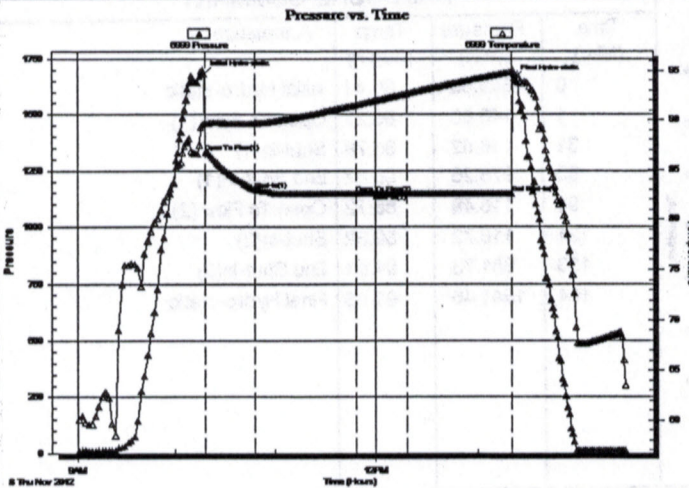
Below

Press@RunDepth: **1147.59 psia @ 3360.25 ft (KB)**
 Start Date: **2012.11.08** End Date: **2012.11.08**
 Start Time: **09:01:00** End Time: **14:28:30**

Capacity: **5000.00 psia**
 Last Calib.: **2012.11.08**
 Time On Btm: **2012.11.08 @ 10:17:30**
 Time Off Btm: **2012.11.08 @ 13:21:30**

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 3 1/2 inches
 1ST Shut In 60 Minutes/Very weak surface blow back
 2ND Open 30 Minutes/Weak blow/Blow built to 2 1/2 inches
 2ND Shut In 60 Minutes/Light surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1681.99	89.64	Initial Hydro-static
2	1331.33	89.63	Open To Flow (1)
31	1166.21	89.67	Shut-In(1)
91	1147.75	91.51	Open To Flow (2)
121	1147.68	92.63	Shut-In(2)
183	1147.59	94.87	End Shut-In(1)
184	1659.97	94.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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

DRILL STEM TEST REPORT



Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
 Krug #10
 Job Ticket: 16913
 DST#: 3
 Test Start: 2012.11.08 @ 09:00:00

GENERAL INFORMATION:

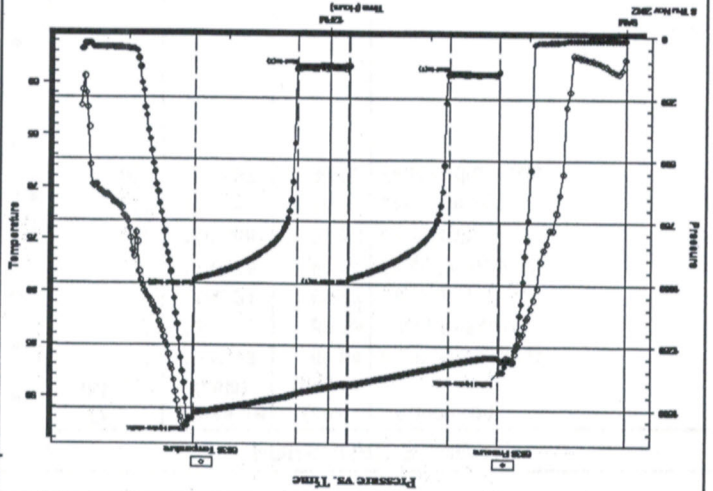
Formation: Lansing/Kansas City
 Deviated: No
 Whipstock: No
 Interval: 3058.00 ft (KB) To 3100.00 ft (KB) (TVD)
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches/Hole Condition: Fair
 Reference Elevations: 1869.00 ft (KB)
 1862.00 ft (CF)
 7.00 ft
 KB to GR/CF:
 Test Type: Conventional Straddle (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/64
 Capacity: 5000.00 psia
 Last Calib.: 2012.11.08
 Time On Btm: 2012.11.08 @ 10:18:00
 Time Off Btm: 2012.11.08 @ 13:21:30

TEST COMMENT:

1ST Open 30 Minutes/Weak blow/Blow built to 3 1/2 inches
 1ST Shut In 60 Minutes/Very weak surface blow back
 2ND Open 30 Minutes/Weak blow/Blow built to 2 1/2 inches
 2ND Shut In 60 Minutes/Light surface blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1349.65	86.44	Initial Hydro-static
1	140.60	86.27	Open To Flow (1)
31	146.62	86.78	Shut-in(1)
90	975.26	88.82	End Shut-in(1)
91	115.49	88.72	Open To Flow (2)
121	118.72	89.62	Shut-in(2)
183	981.73	91.51	End Shut-in(2)
184	1541.46	91.96	Final Hydro-static

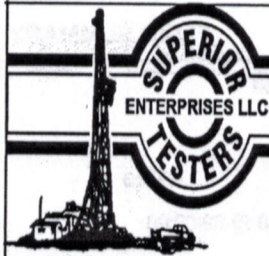


Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Craig Oil Company
 15 South Main
 Russell, Kansas 67665+2901
 ATTN: Jeff Lawler

7/15S/13W/Russell
 Krug #10
 Job Ticket: 16913 DST#: 3
 Test Start: 2012.11.08 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3047.00 ft	Diameter: 3.80 inches	Volume: 42.74 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: 45000.00 lb
			Total Volume: 42.74 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.80 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3058.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	3363.25 ft			
Interval between Packers:	305.25 ft			
Tool Length:	322.05 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3046.20	
Hydraulic Tool	5.00			3051.20	
Packer	5.00			3056.20	16.80 Bottom Of Top Packer
Packer	1.80			3058.00	
Handling Sub	5.00			3063.00	
Perforations	31.00			3094.00	
Recorder	0.00	6838	Inside	3094.00	
Recorder	0.00	6749	Inside	3094.00	
Blank Off Sub	0.67			3094.67	
Travel Collar	1.63			3096.30	
Packer Anchor side	1.60			3097.90	
Packer Tail Side	1.58			3099.48	
Perforations	5.00			3104.48	
Change over sub	0.79			3105.27	
Drill Pipe	249.32			3354.59	
Change Over Sub	0.66			3355.25	
Perforations	5.00			3360.25	
Recorder	0.00	6999	Below	3360.25	
Bullnose	3.00			3363.25	305.25 Bottom Packers & Anchor

Total Tool Length: 322.05



DRILL STEM TEST REPORT

FLUID SUMMARY

Craig Oil Company 7/15S/13W/Russell II

Krug #10

15 South Main
Russell, Kansas 67665+2901

Job Ticket: 16913 DST#:3

ATTN: Jeff Lawler

Test Start: 2012.11.08 @ 09:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 11.19 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: 1.00 inches

Cushion Type: Oil API
Cushion Length: ft
Cushion Volume: bbl
Water Salinity: ppm

Cushion Type: Gas
Cushion Type: Gas
Gas Cushion Pressure: psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud 100%	0.701

Total Length: 50.00 ft
Total Volume: 0.701 bbl

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

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6749

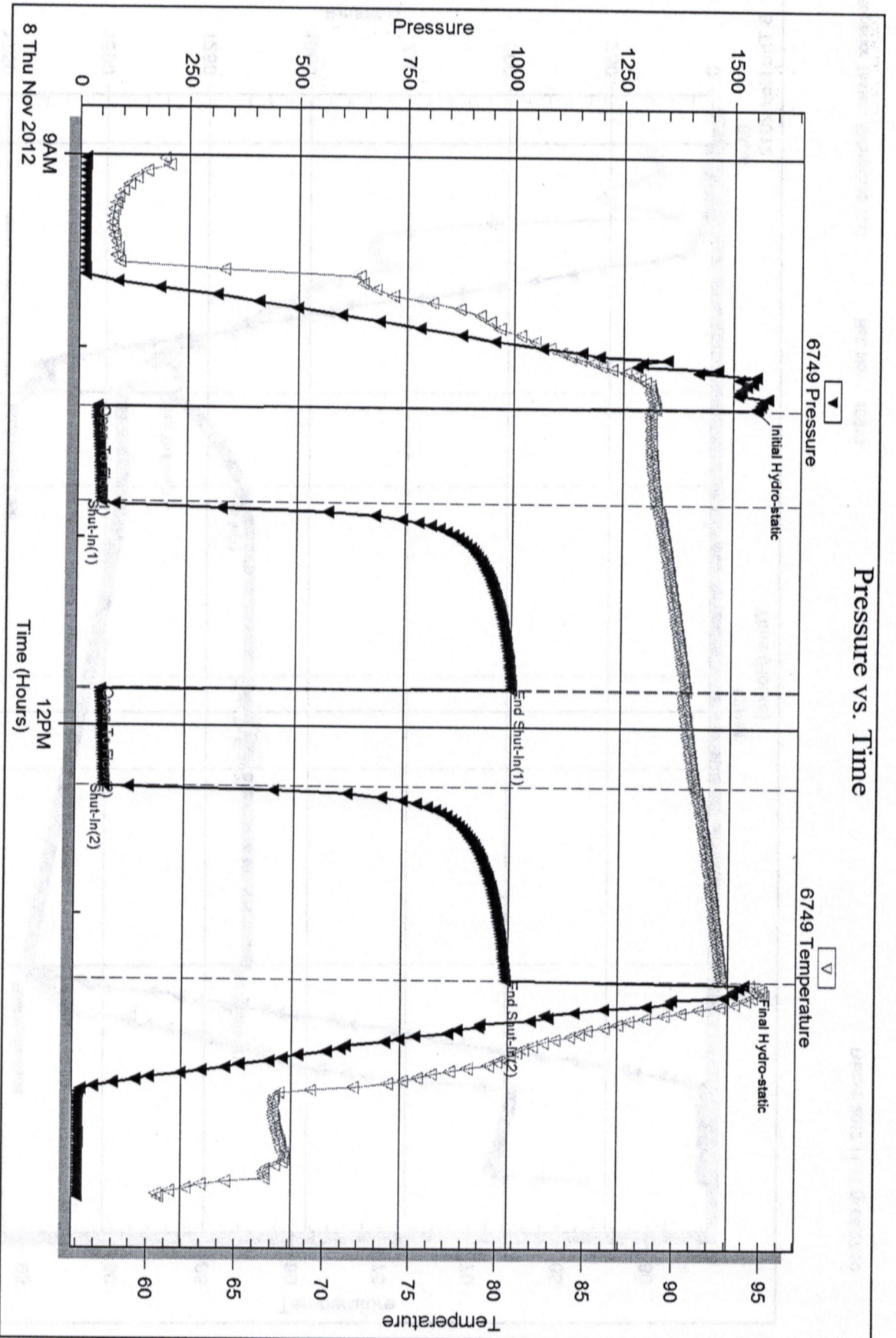
Inside

Craig Oil Company

Krug #10

DST Test Number: 3

Pressure vs. Time

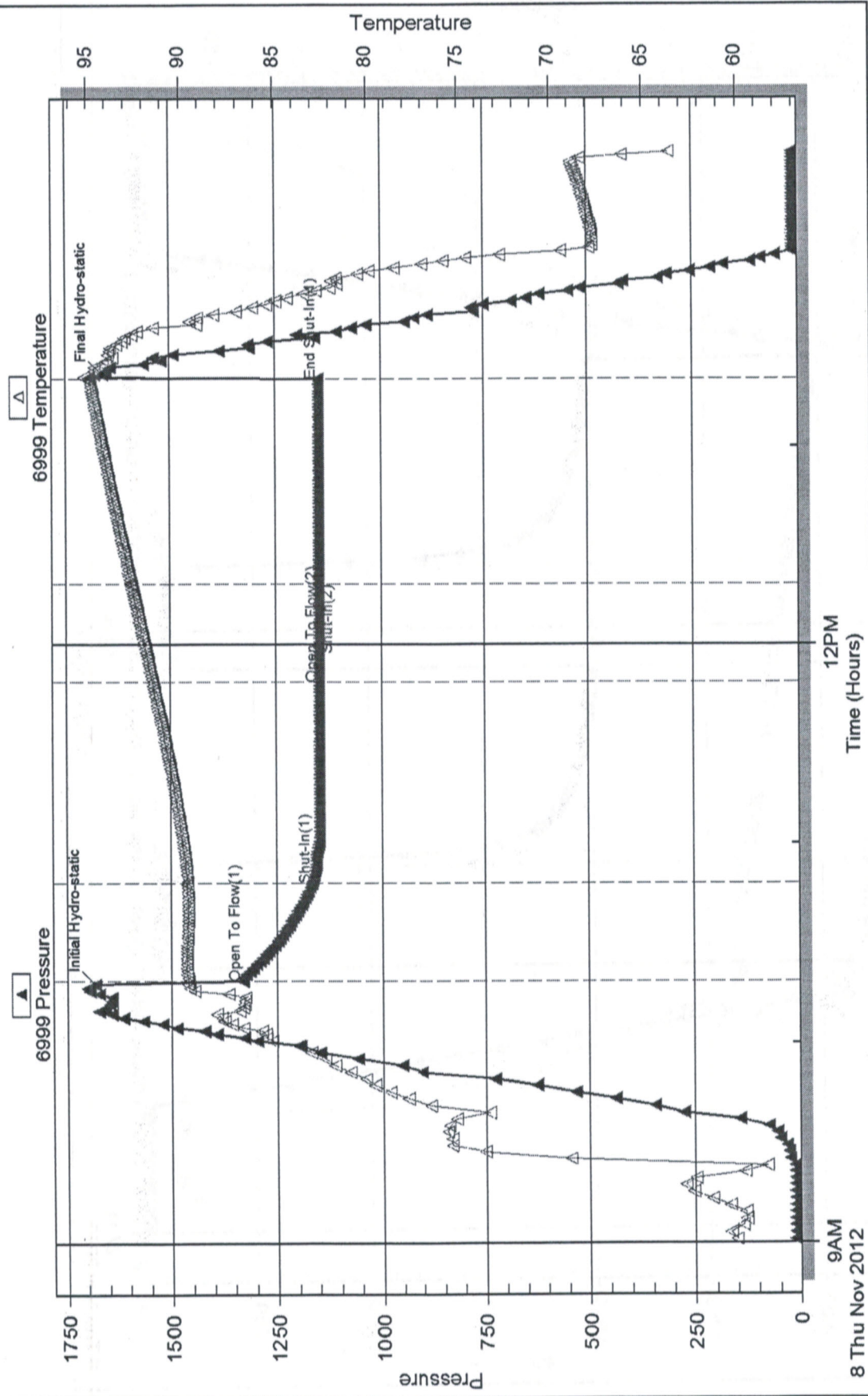


Superior Testers Enterprises LLC

Ref. No.: 16913

Printed: 2012.11.11 @ 08:27:50

Pressure vs. Time



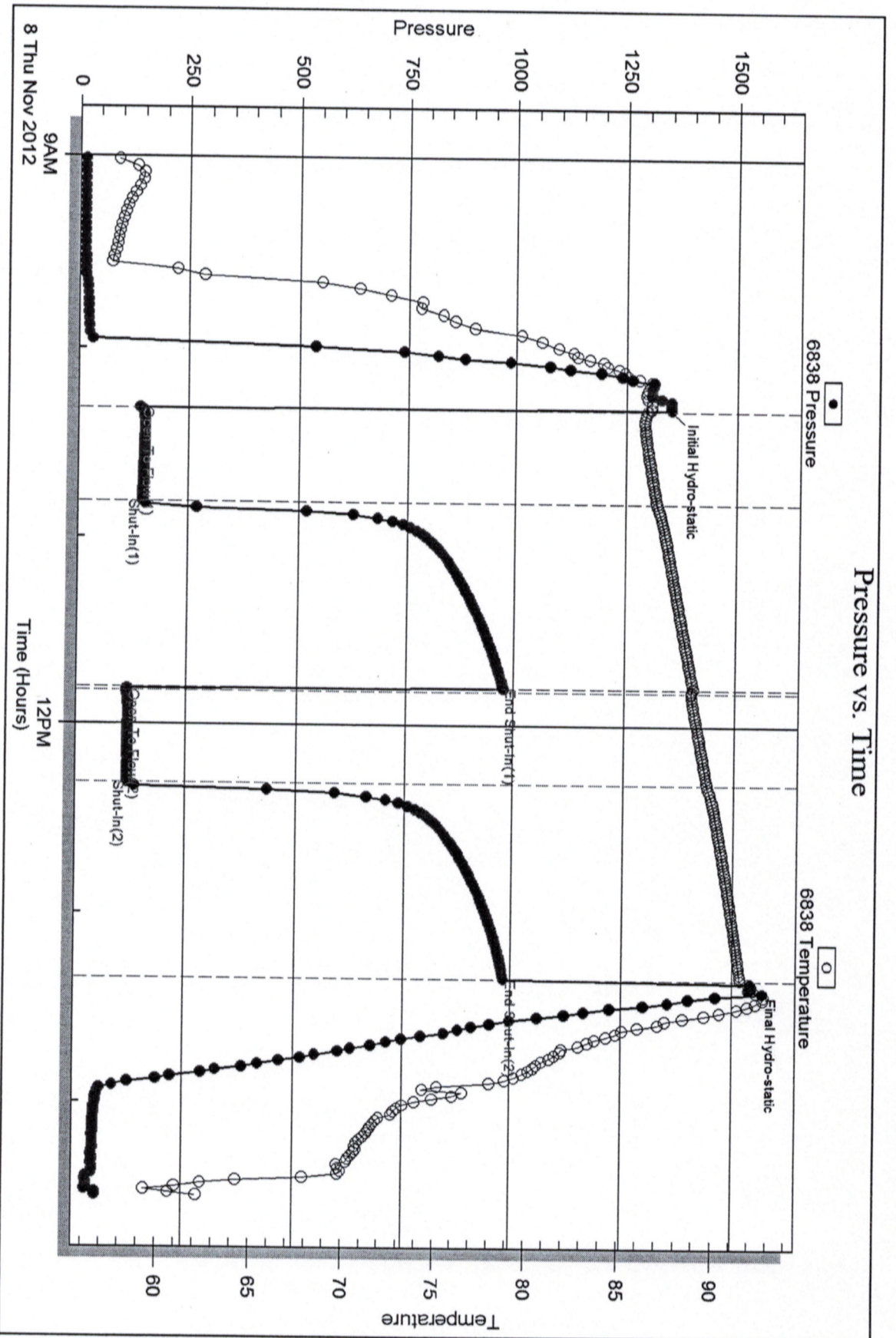
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Inside

Craig Oil Company

Krig #10

DST Test Number: 3



Superior Testers Enterprises LLC

Ref. No: 16913

Printed: 2012.11.11 @ 08:27:51

