

DRILL STEM TEST REPORT

Prepared For: **Ward Craig Oil Co**

15 South Main St.
67665+2901

Russell ,Kansas

ATTN: Francis Whisler

5/16S/14W Barton

Nuss B-2

Start Date: 2010.07.12 @ 09:30:00

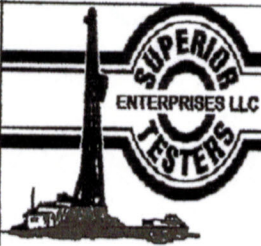
End Date: 2010.07.12 @ 00:00:00

Job Ticket #: 15948 DST #: 1

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

Printed: 2010.07.12 @ 13:42:06

Ward Craig Oil Co
Nuss B-2
5/16S/14W Barton
DST # 1
Arbuckle
2010.07.12



DRILL STEM TEST REPORT

Ward Craig Oil Co

Nuss B-2

15 South Main St.
67665+2901

Russell, Kansas

5/16S/14W Barton

Job Ticket: 15948

DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E. Ellis

Unit No: 3345-Great Bend-80

Interval: **3373.00 ft (KB) To 3410.00 ft (KB) (TVD)**

Total Depth: 3410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1941.00 ft (KB)

1934.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 4143 Inside

Press@RunDepth: 819.65 psia @ 3405.00 ft (KB)

Start Date: 2010.07.12

End Date:

2010.07.12

Capacity: 5000.00 psia

Last Calib.: 2010.07.12

Start Time: 09:30:00

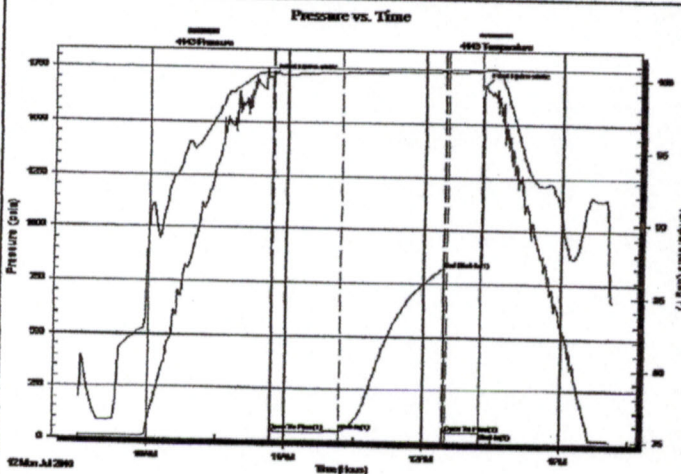
End Time:

13:22:15

Time On Btm: 2010.07.12 @ 10:52:45

Time Off Btm: 2010.07.12 @ 12:25:46

TEST COMMENT: 1ST Opening 30 Minutes Real weak surface blow for 16 minutes and died
 1ST Shut-IN 45 Minutes no blow back
 2ND Opening 15 Minutes no blow came out of the hole after 15 minutes
 2nd Shut-in none taken



PRESSURE SUMMARY

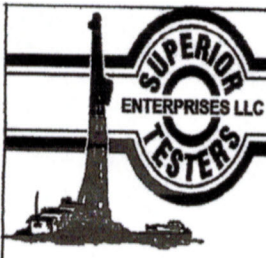
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1707.85	100.33	Initial Hydro-static
2	44.14	100.15	Open To Flow (1)
32	46.82	100.36	Shut-in(1)
77	819.65	100.50	End Shut-in(1)
78	47.65	100.51	Open To Flow (2)
93	47.85	100.53	Shut-in(2)
94	1676.85	100.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very slightly oil cut mud	0.21
0.00	10% Oil 90%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ward Craig Oil Co

Nuss B-2

15 South Main St. Russell, Kansas
67665+2901

5/16S/14W Barton

Job Ticket: 15948 DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

GENERAL INFORMATION:

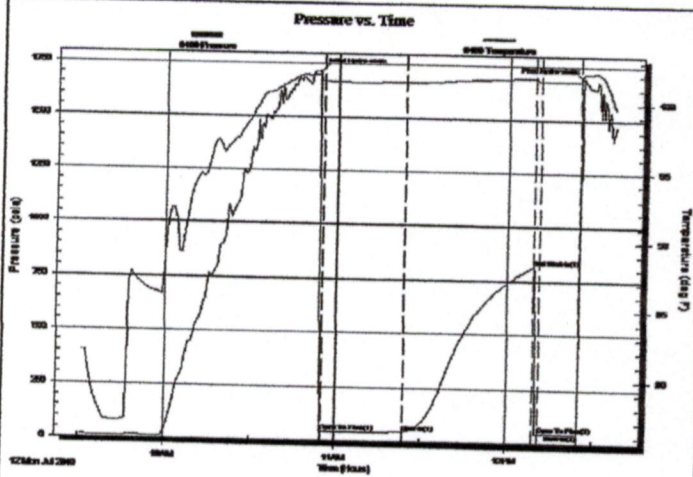
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3373.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Total Depth: **3410.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E. Ellis
 Unit No: 3345-Great Bend-80
 Reference Elevations: 1941.00 ft (KB)
 1934.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8400

Outside

Press@RunDepth: 816.71 psia @ 3406.00 ft (KB)
 Start Date: 2010.07.12 End Date: 2010.07.12
 Start Time: 09:30:00 End Time: 12:37:30
 Capacity: 5000.00 psia
 Last Calib.: 2010.07.12
 Time On Btm: 2010.07.12 @ 10:53:30
 Time Off Btm: 2010.07.12 @ 12:26:00

TEST COMMENT: 1ST Opening 30 Minutes Real weak surface blow for 16 minutes and died
 1ST Shut-IN 45 Minutes no blow back
 2ND Opening 15 Minutes no blow came out of the hole after 15 minutes
 2nd Shut-in none taken



PRESSURE SUMMARY

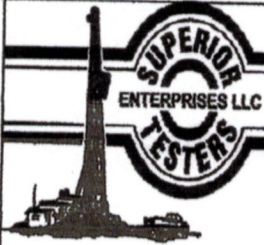
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1713.15	101.93	Initial Hydro-static
2	47.36	101.50	Open To Flow (1)
30	47.78	101.40	Shut-In(1)
76	816.71	101.82	End Shut-in(1)
78	49.30	101.61	Open To Flow (2)
92	49.16	101.60	Shut-In(2)
93	1685.64	102.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very slightly oil cut mud	0.21
0.00	10% Oil 90%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Craig Oil Co

Nuss B-2

15 South Main St. Russell, Kansas
67665+2901

5/16S/14W Barton

Job Ticket: 15948 DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

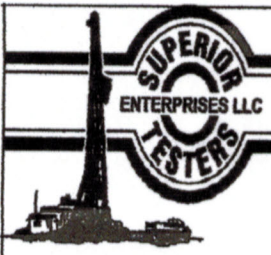
Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 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: 40000.00 lb
			<u>Total Volume: 47.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3373.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3353.00	
Shut-In Tool	5.00			3358.00	
Hydroic Tool	5.00			3363.00	
Packer	5.00			3368.00	21.00 Bottom Of Top Packer
Packer	5.00			3373.00	
Perforations	31.00			3404.00	
Recorder	1.00	4143	Inside	3405.00	
Recorder	1.00	8400	Outside	3406.00	
Bullnose	3.00			3409.00	36.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



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FLUID SUMMARY

Ward Craig Oil Co
15 South Main St. Russell, Kansas 67665+2901
ATTN: Francis Whisler

Nuss B-2
5/16S/14W Barton
Job Ticket: 15948 DST#: 1
Test Start: 2010.07.12 @ 09:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Very slightly oil cut mud	0.210
0.00	10% Oil 90%Mud	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 4143

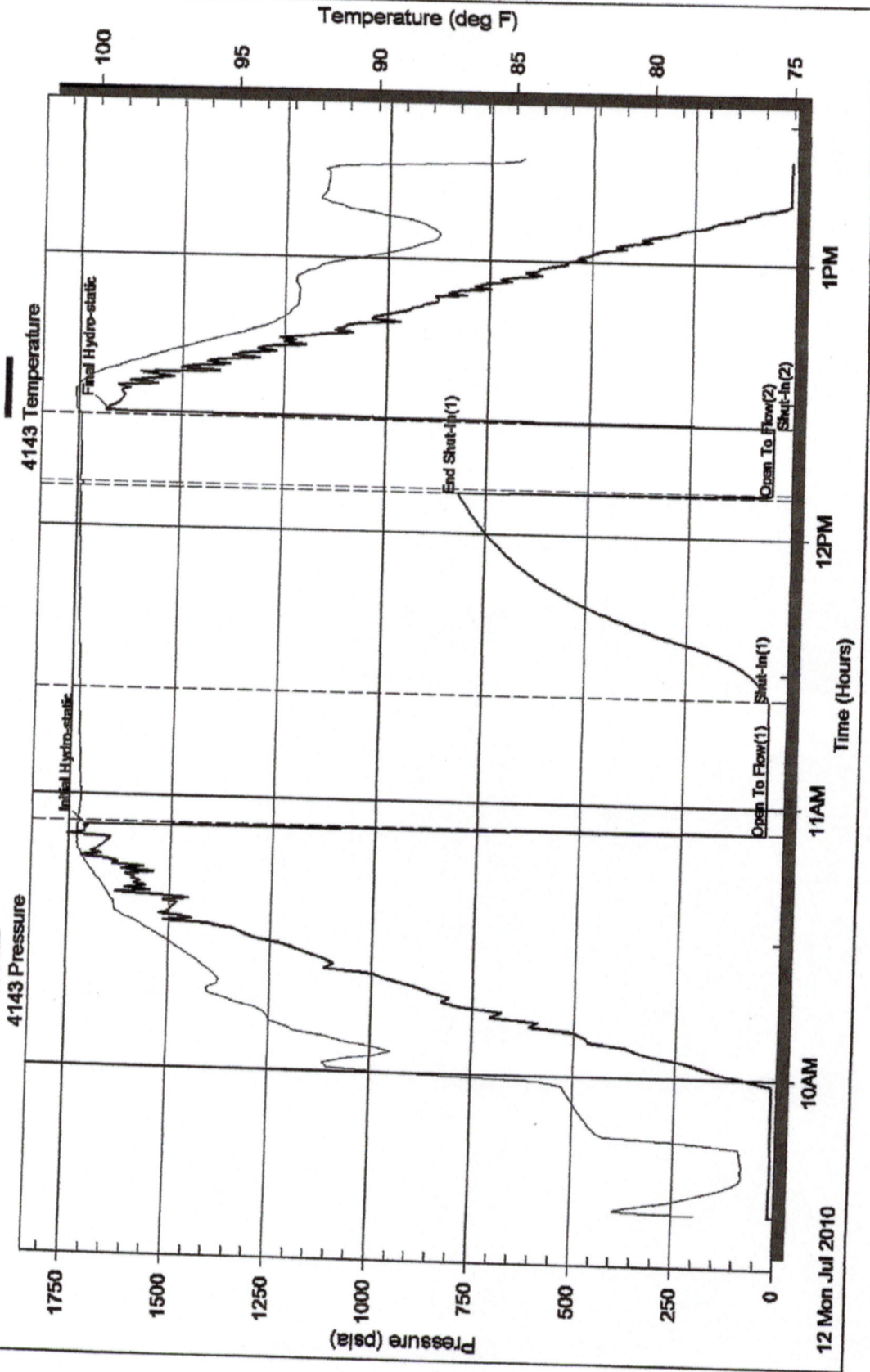
Inside

Ward Craig Oil Co

5/16S/14W Barton

DST Test Number: 1

Pressure vs. Time



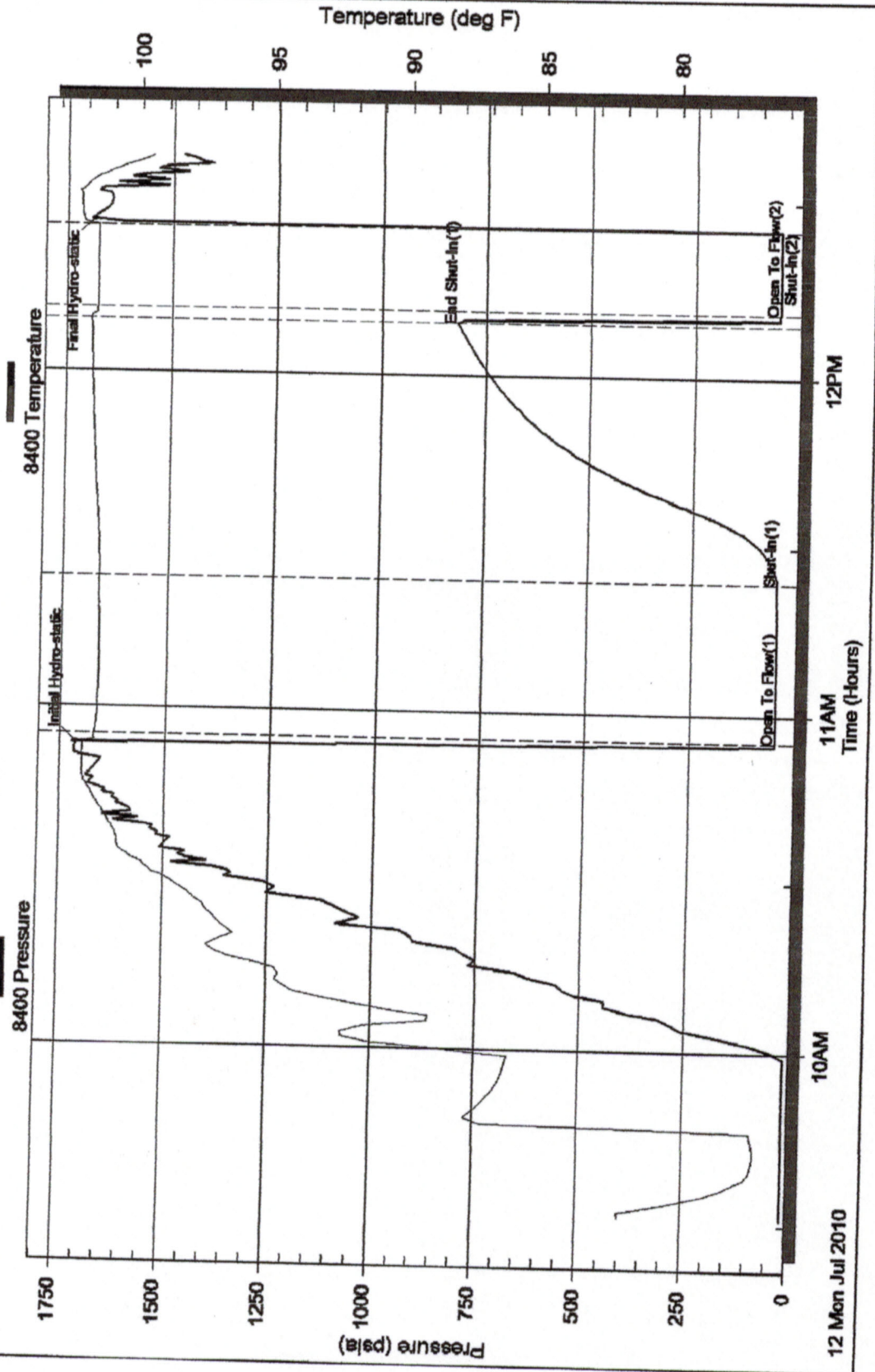
Serial #: 8400

Outside Ward Craig Oil Co

5/16S/14W Barton

DST Test Number: 1

Pressure vs. Time



Ref. No: 15948

Superior Testers Enterprises LLC

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