



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
_____ 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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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APR: 15-051-26399-0000
 COMPANY: Michael D. Wheeler
 Oil Co., Hays, KS.

WELL: Wann #1
 FIELD: Lulu
 LOCATION: 2720 FSL E 4950' FEL
 SEC: 7 TWP: 14S RGE: 19W
 COUNTY: Ellis
 STATE: Kansas

PRODUCTION: KB 2217'
 ELEVATION: 2112'
 DEPTH: 3910'

OPERATION: Michael D. Wheeler Oil Co.
 CONVEYOR: White Knight Drilling LLC
 SMD # 207
 CASING RECORD: Raddaden Guard
 DATE: 10/10/12
 TIME: 10:12/12
 TOTAL DEPTH LOG: 3910'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	DEPTH	STRUCTURAL POSITION
Base/Anhydrite	1591.2	+7.15
Topoka	3229.0	-10.8
Haebner	3475.0	-10.4
Toronto	3499.0	-10.8
Lansing	3520.0	-10.8
Base Kansas City	3777.0	-10.8
Arbuckle	3850.0	-10.8
TD	3910.0	-10.8

REFERENCE WELL FOR STRUCTURE: Michael D. Wheeler Oil Company
 Wells: Radel #2, 2246 FSL E 7325' FEL
 Sec 7-14S-19W, Ellis County, Kansas

DAILY PENETRATION

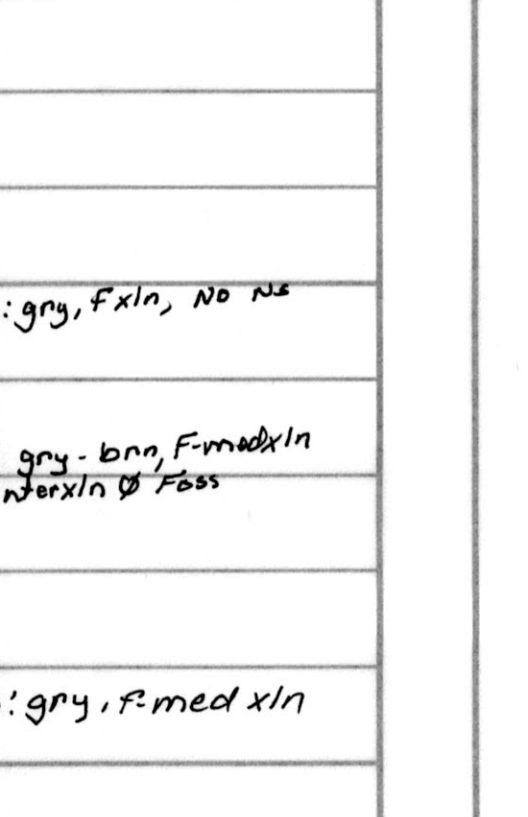
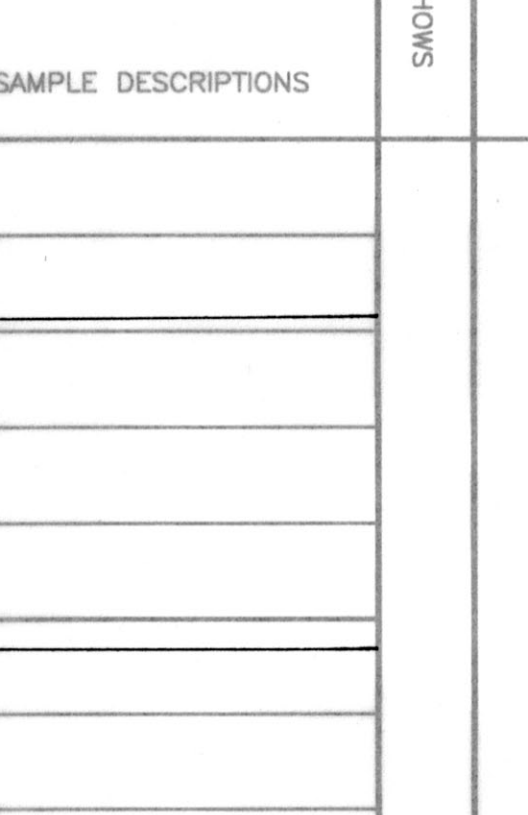
DATE	SPUN	NO	SIZE	WELL	BIT RECORD	TYPE	DEPTH	FEET	LOGS
10-20-12	Spudded								
10-21-12	Logged								

DRILL STEM TESTS

No.	Interval	Depth	Pressure	Flow	Pressure	Flow	Pressure	Flow	Pressure	Flow	Pressure	Flow	Pressure	Flow	Pressure	Flow
1	3665'-58'	454'	66'	486'	820'	25.51 GPM										
2	3775'-81'	140'	80'	127'	1852'	3760.97 GPM										
3	3831'-15'	1260'	117'	1861'	1911'	2160' MW										
4	M.I.S. - KUN					240' DM										
5	3558'-30'	777'	55'	741'	1775'	30' MUD										
6	3820'-40'	1241'	43'	1228'	1878'	1260' MW										

Due to structural position and poor DST results this well was plugged and abandoned.
 I thank you!
 Roger M. Mears

LEGEND



DEPTH	LITHOLOGY	REMARKS
1500	Anhydrite 1509 (4708)	
40	Base Anhydrite 1543 (7674)	
3100	LS: gry, f.xln, No NS	VIS 66 WT 8.6
3200	LS: gry - brn f-med xln, int xln, No NS	
3300	LS: gry, f-med xln	VIS 66 WT 8.6
3400	SH: gry-dk gry	
3500	SH: gry, med, pity-blky	
3600	LS: gry - lt gry f-med xln, int xln, No NS	VIS 68 WT 8.7
3700	LS: tan - tan f-med xln, No NS	
3800	LS: tan - tan, med, int xln, No NS	
3900	LS: tan - tan, med, int xln, No NS	
4000	LS: tan - tan, med, int xln, No NS	
4100	LS: tan - tan, med, int xln, No NS	
4200	LS: tan - tan, med, int xln, No NS	
4300	LS: tan - tan, med, int xln, No NS	
4400	LS: tan - tan, med, int xln, No NS	
4500	LS: tan - tan, med, int xln, No NS	
4600	LS: tan - tan, med, int xln, No NS	
4700	LS: tan - tan, med, int xln, No NS	
4800	LS: tan - tan, med, int xln, No NS	
4900	LS: tan - tan, med, int xln, No NS	
5000	LS: tan - tan, med, int xln, No NS	
5100	LS: tan - tan, med, int xln, No NS	
5200	LS: tan - tan, med, int xln, No NS	
5300	LS: tan - tan, med, int xln, No NS	
5400	LS: tan - tan, med, int xln, No NS	
5500	LS: tan - tan, med, int xln, No NS	
5600	LS: tan - tan, med, int xln, No NS	
5700	LS: tan - tan, med, int xln, No NS	
5800	LS: tan - tan, med, int xln, No NS	
5900	LS: tan - tan, med, int xln, No NS	
6000	LS: tan - tan, med, int xln, No NS	
6100	LS: tan - tan, med, int xln, No NS	
6200	LS: tan - tan, med, int xln, No NS	
6300	LS: tan - tan, med, int xln, No NS	
6400	LS: tan - tan, med, int xln, No NS	
6500	LS: tan - tan, med, int xln, No NS	
6600	LS: tan - tan, med, int xln, No NS	
6700	LS: tan - tan, med, int xln, No NS	
6800	LS: tan - tan, med, int xln, No NS	
6900	LS: tan - tan, med, int xln, No NS	
7000	LS: tan - tan, med, int xln, No NS	
7100	LS: tan - tan, med, int xln, No NS	
7200	LS: tan - tan, med, int xln, No NS	
7300	LS: tan - tan, med, int xln, No NS	
7400	LS: tan - tan, med, int xln, No NS	
7500	LS: tan - tan, med, int xln, No NS	
7600	LS: tan - tan, med, int xln, No NS	
7700	LS: tan - tan, med, int xln, No NS	
7800	LS: tan - tan, med, int xln, No NS	
7900	LS: tan - tan, med, int xln, No NS	
8000	LS: tan - tan, med, int xln, No NS	
8100	LS: tan - tan, med, int xln, No NS	
8200	LS: tan - tan, med, int xln, No NS	
8300	LS: tan - tan, med, int xln, No NS	
8400	LS: tan - tan, med, int xln, No NS	
8500	LS: tan - tan, med, int xln, No NS	
8600	LS: tan - tan, med, int xln, No NS	
8700	LS: tan - tan, med, int xln, No NS	
8800	LS: tan - tan, med, int xln, No NS	
8900	LS: tan - tan, med, int xln, No NS	
9000	LS: tan - tan, med, int xln, No NS	
9100	LS: tan - tan, med, int xln, No NS	
9200	LS: tan - tan, med, int xln, No NS	
9300	LS: tan - tan, med, int xln, No NS	
9400	LS: tan - tan, med, int xln, No NS	
9500	LS: tan - tan, med, int xln, No NS	
9600	LS: tan - tan, med, int xln, No NS	
9700	LS: tan - tan, med, int xln, No NS	
9800	LS: tan - tan, med, int xln, No NS	
9900	LS: tan - tan, med, int xln, No NS	
10000	LS: tan - tan, med, int xln, No NS	

CONTRACTOR: White Knight Drilling LLC
 LEASE: Wann
 ELEVATION: 2217' KB
 LOCATION: 2720 FSL E 4950' FEL
 SEC: 7 TWP: 14S RNG: 19W
 COUNTY: Ellis STATE: Kansas



DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue
Hays, Kansas 67601+9605

ATTN: Roger Moses

Wann #1

7/14S/19W/Ellis

Start Date: 2012.10.23 @ 11:39:00

End Date: 2012.10.23 @ 20:01:30

Job Ticket #: 16902 DST #: 1

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

Printed: 2012.10.28 @ 22:41:21



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16902

DST#: 1

ATTN: Roger Moses

Test Start: 2012.10.23 @ 11:39:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:30:30

Time Test Ended: 20:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: 3665.00 ft (KB) To 3718.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3718.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Inside

Press @ Run Depth: 65.57 psia @ 3713.70 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.23

End Date: 2012.10.23

Last Calib.: 2012.10.23

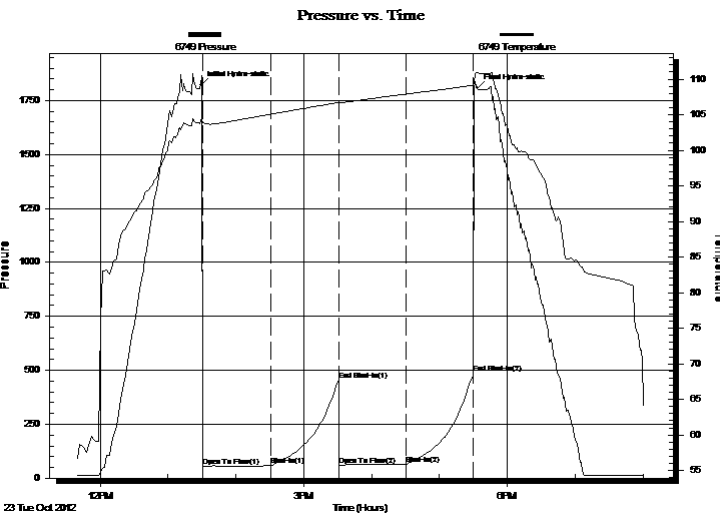
Start Time: 11:40:00

End Time: 20:01:30

Time On Btm: 2012.10.23 @ 13:29:00

Time Off Btm: 2012.10.23 @ 17:33:30

TEST COMMENT: 1ST Open 60 Minutes/Weak to Fair blow /Blow built to 10 1/2 inches in bucket of water
 1ST Shut In 60 Minutes/No blow back
 2ND Open 60 Minutes/Good blow /Blow built to bottom of bucket in 14 minutes
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1820.00	104.37	Initial Hydro-static
2	54.02	103.94	Open To Flow (1)
62	57.85	105.08	Shut-In(1)
122	454.09	106.76	End Shut-In(1)
123	57.90	106.67	Open To Flow (2)
182	65.57	107.92	Shut-In(2)
241	486.34	109.14	End Shut-In(2)
245	1805.53	110.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oily Mud	0.63
0.00	Oil 25% Mud 75%	0.00
0.00	255 feet of gas in pipe/ Gas 100%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16902

DST#: 1

ATTN: Roger Moses

Test Start: 2012.10.23 @ 11:39:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:30:30

Time Test Ended: 20:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: 3665.00 ft (KB) To 3718.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3718.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6999 Outside

Press @ Run Depth: 485.27 psia @ 3714.70 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.23

End Date: 2012.10.23

Last Calib.: 2012.10.23

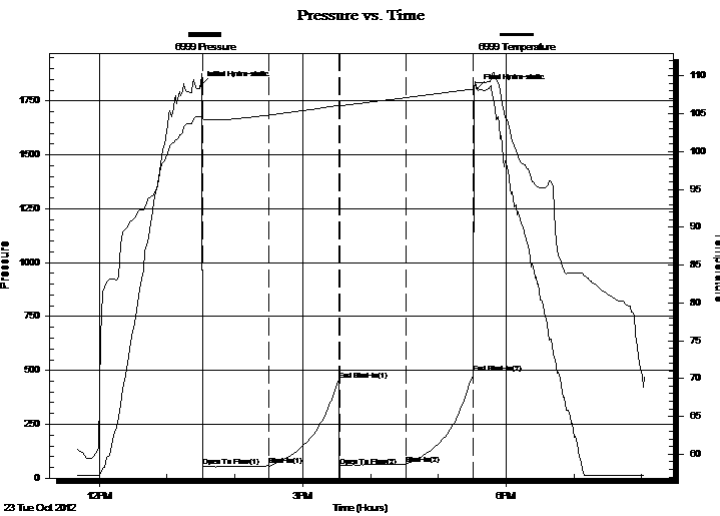
Start Time: 11:41:00

End Time: 20:02:30

Time On Btm: 2012.10.23 @ 13:30:00

Time Off Btm: 2012.10.23 @ 17:34:30

TEST COMMENT: 1ST Open 60 Minutes/Weak to Fair blow /Blow built to 10 1/2 inches in bucket of water
 1ST Shut In 60 Minutes/No blow back
 2ND Open 60 Minutes/Good blow /Blow built to bottom of bucket in 14 minutes
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1820.63	104.66	Initial Hydro-static
2	53.25	104.31	Open To Flow (1)
60	57.63	104.81	Shut-In(1)
122	452.99	106.12	End Shut-In(1)
123	56.29	106.06	Open To Flow (2)
182	64.84	107.14	Shut-In(2)
241	485.27	108.29	End Shut-In(2)
245	1806.17	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oily Mud	0.63
0.00	Oil 25% Mud 75%	0.00
0.00	255 feet of gas in pipe/ Gas 100%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16902

DST#: 1

ATTN: Roger Moses

Test Start: 2012.10.23 @ 11:39:00

Tool Information

Drill Pipe:	Length: 3668.00 ft	Diameter: 3.80 inches	Volume: 51.45 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: 40000.00 lb
			<u>Total Volume: 51.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3665.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.70 ft			
Tool Length:	79.70 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3643.00	
Hydraulic Tool	5.00			3648.00	
Jars	5.00			3653.00	
Safety Joint	2.00			3655.00	
Packer	5.00			3660.00	27.00 Bottom Of Top Packer
Packer	5.00			3665.00	
Perforations	5.00			3670.00	
Change Over Sub	0.75			3670.75	
Drill Pipe	31.20			3701.95	
Change Over Sub	0.75			3702.70	
Anchor	10.00			3712.70	
Recorder	1.00	6749	Inside	3713.70	
Recorder	1.00	6999	Outside	3714.70	
Bullnose	3.00			3717.70	52.70 Bottom Packers & Anchor

Total Tool Length: 79.70



DRILL STEM TEST REPORT

FLUID SUMMARY

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16902

DST#: 1

ATTN: Roger Moses

Test Start: 2012.10.23 @ 11:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 6.77 in³

Resistivity: ohm.m

Salinity: 4700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Oily Mud	0.631
0.00	Oil 25% Mud 75%	0.000
0.00	255 feet of gas in pipe/ Gas 100%	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6749

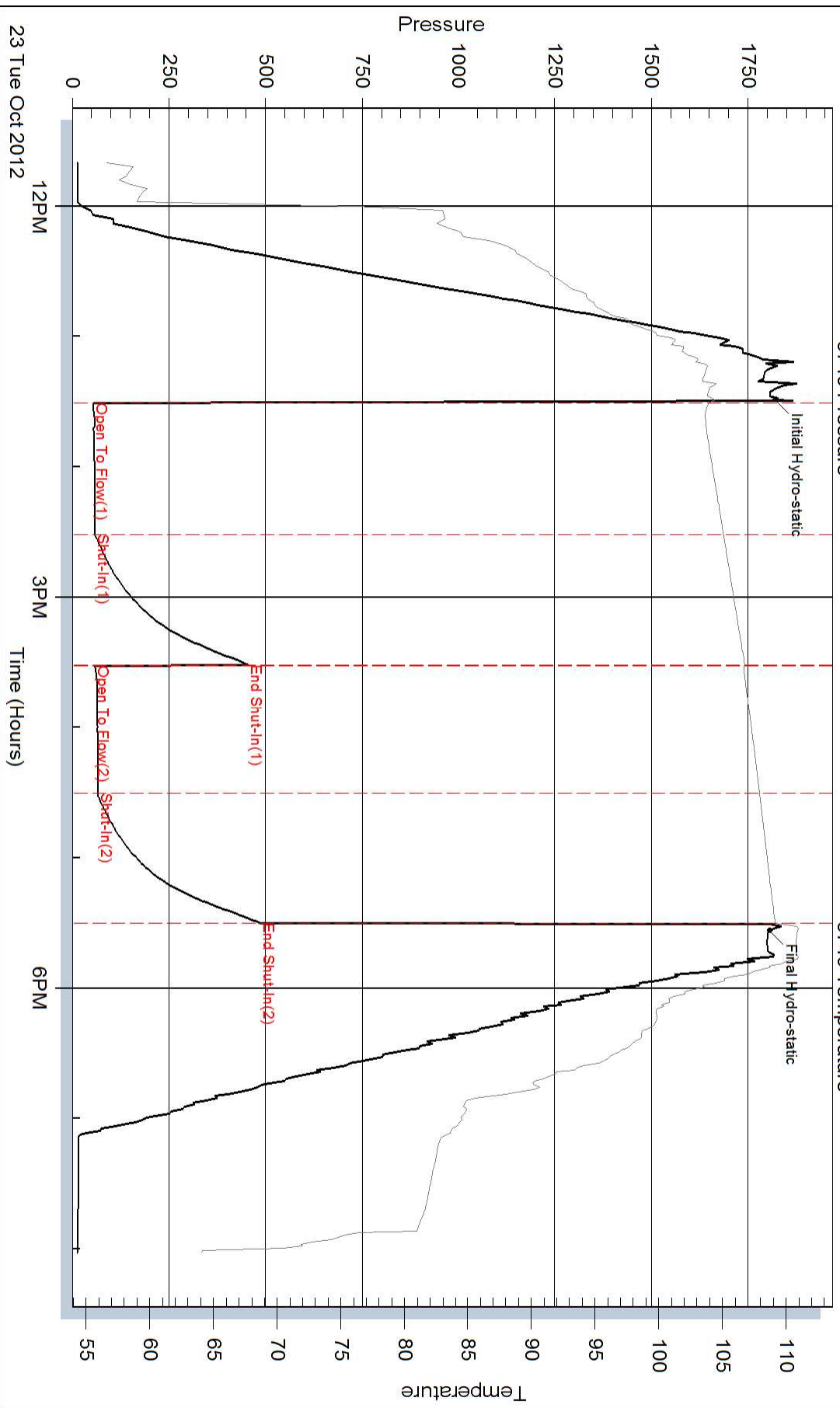
Inside

Michael Weibert Oil Company

Wann #1

DST Test Number: 1

Pressure vs. Time

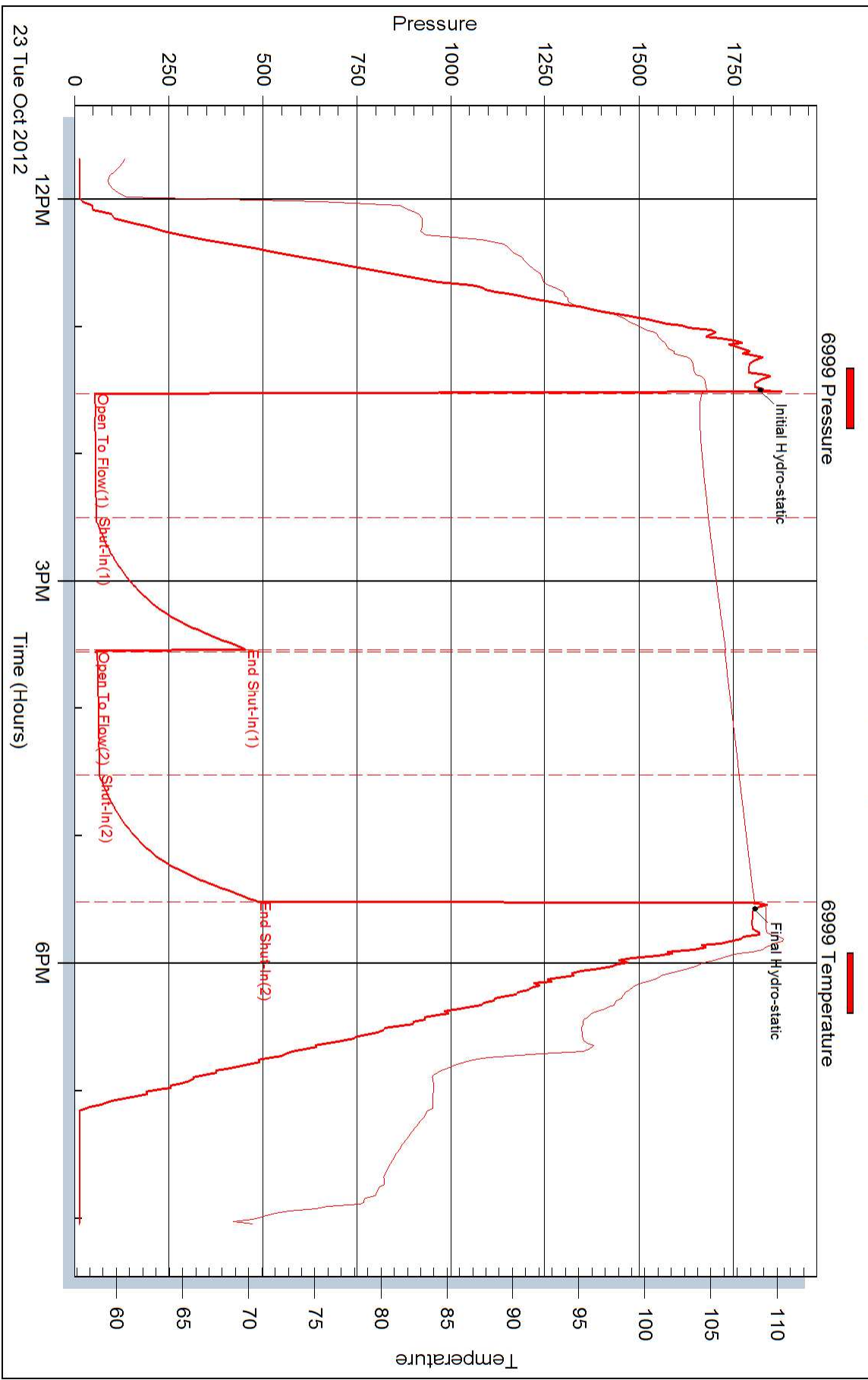


Superior Testers Enterprises LLC

Ref. No: 16902

Printed: 2012.10.28 @ 22:41:23

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue
Hays, Kansas 67601+9605

ATTN: Roger Moses

Wann #1

7/14S/19W/Ellis

Start Date: 2012.10.24 @ 11:03:00

End Date: 2012.10.24 @ 18:28:30

Job Ticket #: 16903 DST #: 2

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

Printed: 2012.10.28 @ 22:43:13



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16903

DST#: 2

ATTN: Roger Moses

Test Start: 2012.10.24 @ 11:03:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:30

Time Test Ended: 18:28:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3686.00 ft (KB) To 3775.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: **6749** Outside

Press @ RunDepth: 80.05 psia @ 3769.40 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.24

End Date: 2012.10.24

Last Calib.: 2012.10.24

Start Time: 11:04:00

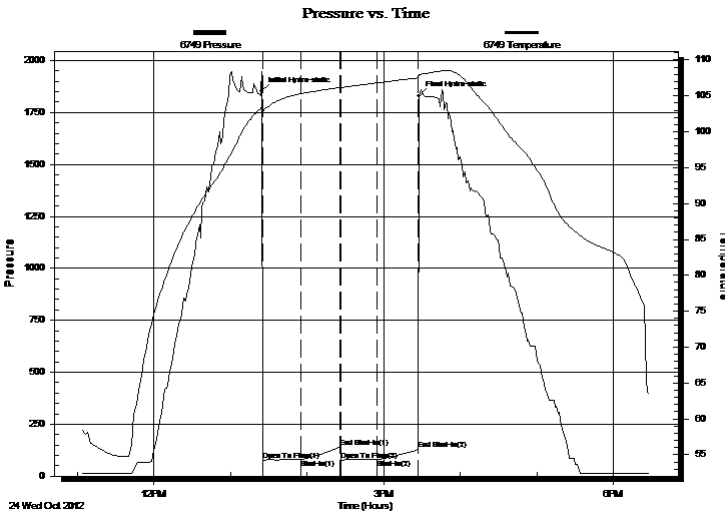
End Time: 18:28:30

Time On Btm: 2012.10.24 @ 13:24:00

Time Off Btm: 2012.10.24 @ 15:27:30

TEST COMMENT: 1ST Open 30 minutes/Weak blow /Blow built to 1 1/2 inches
 1ST Shut In 30 minutes/No blow back
 2ND Open 30 minutes/Weak blow /Blow built to 2 inches
 2ND Shut In 30 minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1852.47	103.30	Initial Hydro-static
2	77.28	102.68	Open To Flow (1)
31	80.53	105.31	Shut-In(1)
62	140.25	106.16	End Shut-In(1)
63	77.60	106.17	Open To Flow (2)
91	80.05	106.82	Shut-In(2)
123	127.07	107.50	End Shut-In(2)
124	1828.86	107.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Slightly oil cut mud	0.35
0.00	Oil 3% Mud 97%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16903

DST#: 2

ATTN: Roger Moses

Test Start: 2012.10.24 @ 11:03:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:30

Time Test Ended: 18:28:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3686.00 ft (KB) To 3775.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: **6999**

Inside

Press @ Run Depth: 125.97 psia @ 3769.40 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.24

End Date: 2012.10.24

Last Calib.: 2012.10.24

Start Time: 11:04:00

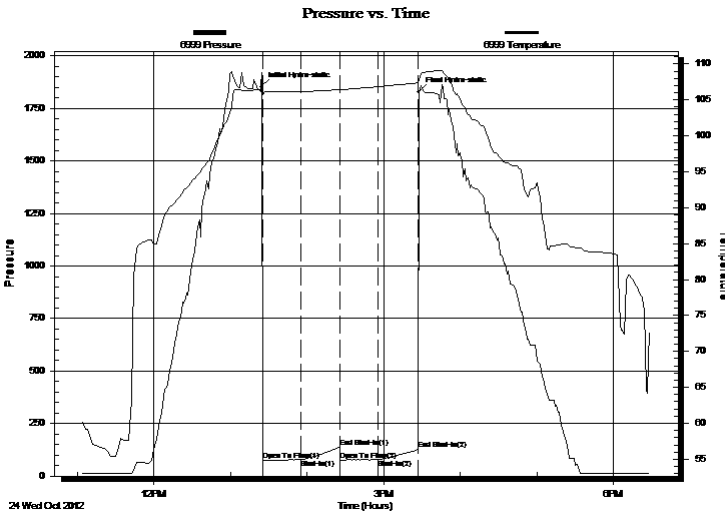
End Time: 18:28:30

Time On Btm: 2012.10.24 @ 13:24:00

Time Off Btm: 2012.10.24 @ 15:27:30

TEST COMMENT: 1ST Open 30 minutes/Weak blow /Blow built to 1 1/2 inches
 1ST Shut In 30 minutes/No blow back
 2ND Open 30 minutes/Weak blow /Blow built to 2 inches
 2ND Shut In 30 minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1851.71	106.40	Initial Hydro-static
2	75.22	105.71	Open To Flow (1)
31	78.61	106.17	Shut-In(1)
62	139.32	106.44	End Shut-In(1)
62	73.13	106.42	Open To Flow (2)
92	78.74	106.83	Shut-In(2)
123	125.97	107.36	End Shut-In(2)
124	1827.99	107.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Slightly oil cut mud	0.35
0.00	Oil 3% Mud 97%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16903

DST#: 2

ATTN: Roger Moses

Test Start: 2012.10.24 @ 11:03:00

Tool Information

Drill Pipe:	Length: 3673.00 ft	Diameter: 3.80 inches	Volume: 51.52 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: 35000.00 lb
			<u>Total Volume: 51.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.83 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3686.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	3878.25 ft			
Interval between Packers:	192.25 ft			
Tool Length:	216.08 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

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

Shut In Tool	5.00			3667.17	
Hydraulic Tool	5.00			3672.17	
Jars	5.00			3677.17	
Safety Joint	2.00			3679.17	
Packer	5.00			3684.17	23.83 Bottom Of Top Packer
Packer	1.83			3686.00	
Perforations	5.00			3691.00	
Change over sub	0.79			3691.79	
Drill Pipe	62.95			3754.74	
Change Over Sub	0.66			3755.40	
Handling Sub	5.00			3760.40	
Perforations	9.00			3769.40	
Recorder	0.00	6749	Outside	3769.40	
Recorder	0.00	6999	Inside	3769.40	
Blank Off Sub	0.67			3770.07	
Travel Collar	1.63			3771.70	
Packer Anchor side	1.61			3773.31	
Packer Tail side	1.60			3774.91	
Change Over Sub	0.64			3775.55	
Drill Pipe	93.04			3868.59	
Change Over Sub	0.66			3869.25	
Perforations	6.00			3875.25	
Recorder	0.00	6651		3875.25	
Bullnose	3.00			3878.25	192.25 Bottom Packers & Anchor
Total Tool Length:	216.08				



DRILL STEM TEST REPORT

FLUID SUMMARY

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16903

DST#: 2

ATTN: Roger Moses

Test Start: 2012.10.24 @ 11:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.96 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Slightly oil cut mud	0.351
0.00	Oil 3% Mud 97%	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

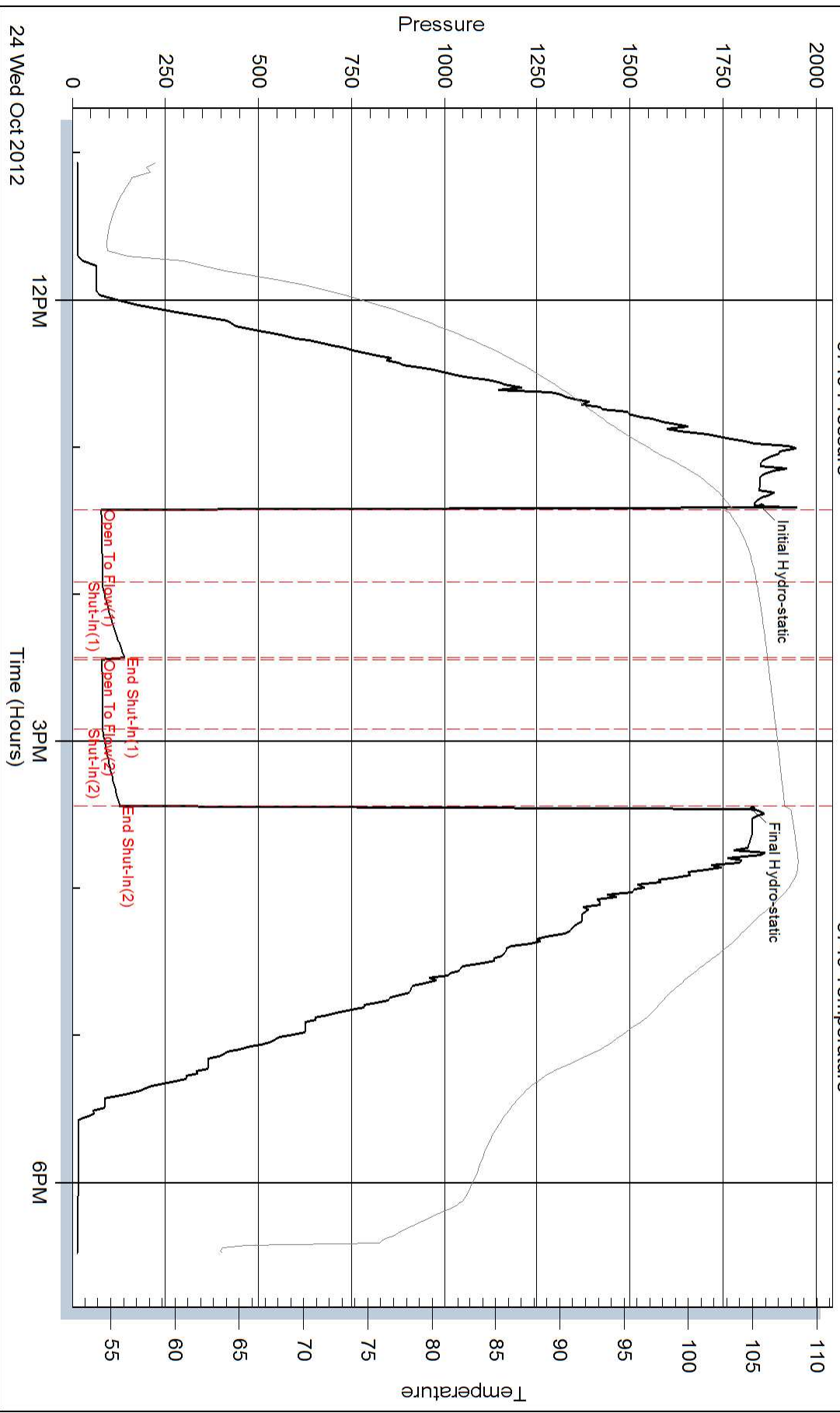
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

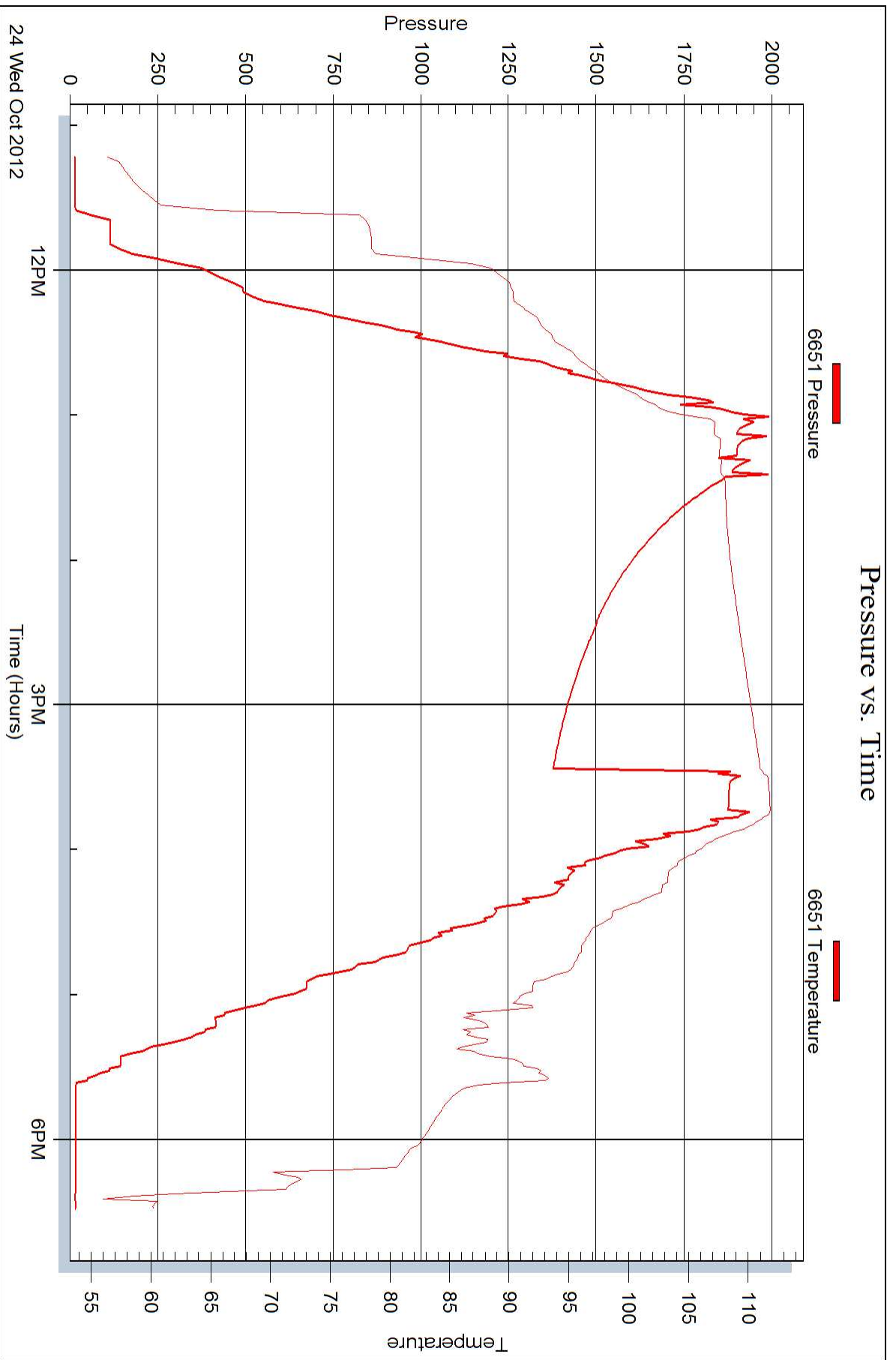


Serial #: 6651

Michael Weibert Oil Company

Wann #1

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 16903

Printed: 2012.10.28 @ 22:43:14

Serial #: 6999

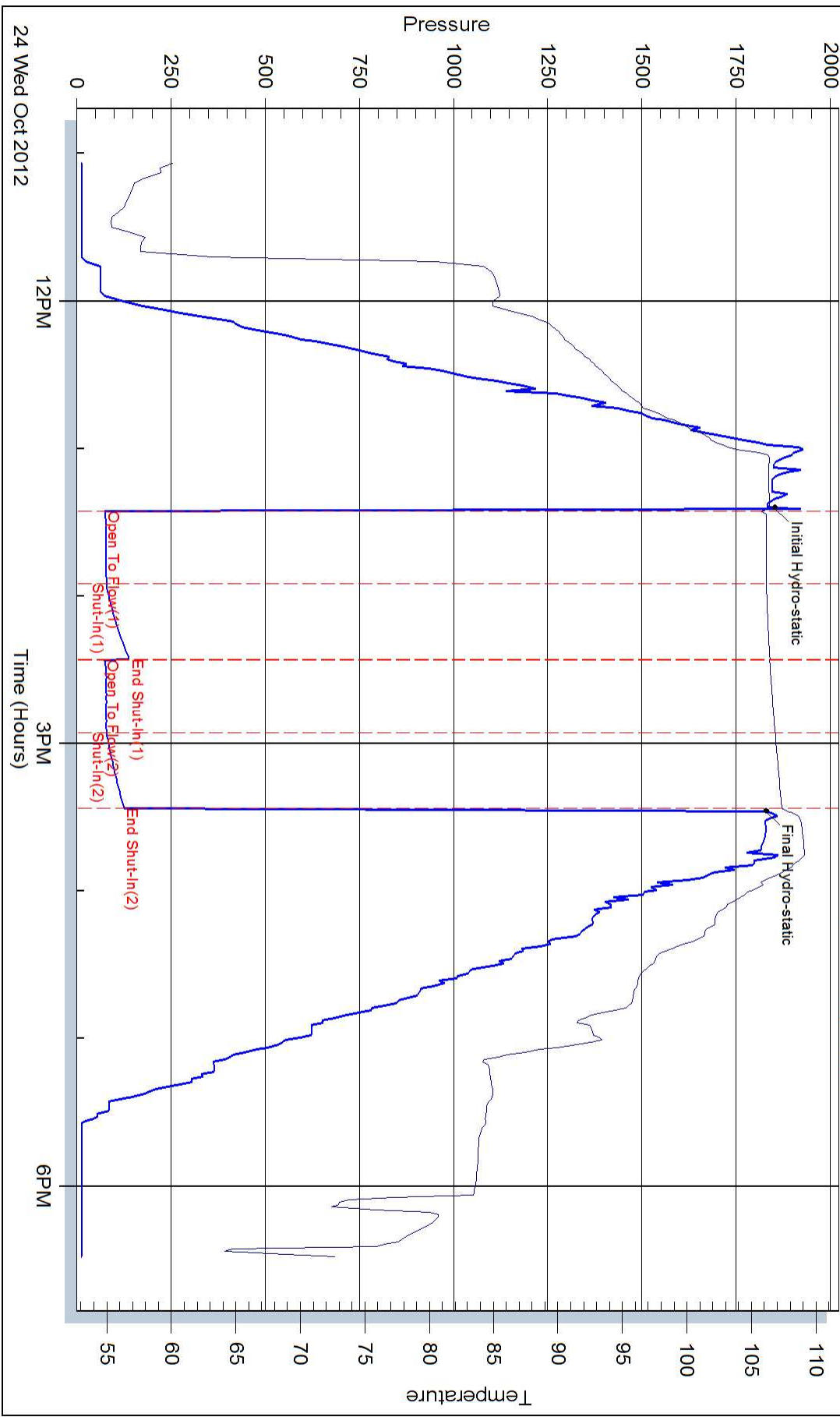
Inside

Michael Weibert Oil Company

Wann #1

DST Test Number: 2

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16903

Printed: 2012.10.28 @ 22:43:14



DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue
Hays, Kansas 67601+9605

ATTN: Roger Moses

Wann #1

7/14S/19W/Ellis

Start Date: 2012.10.25 @ 02:38:00

End Date: 2012.10.25 @ 09:51:30

Job Ticket #: 16904 DST #: 3

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

Printed: 2012.10.28 @ 22:44:26

Michael Weilert Oil Company
7/14S/19W/Ellis
Wann #1
DST # 3
Arbuckle
2012.10.25



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16904

DST#: 3

ATTN: Roger Moses

Test Start: 2012.10.25 @ 02:38:00

GENERAL INFORMATION:

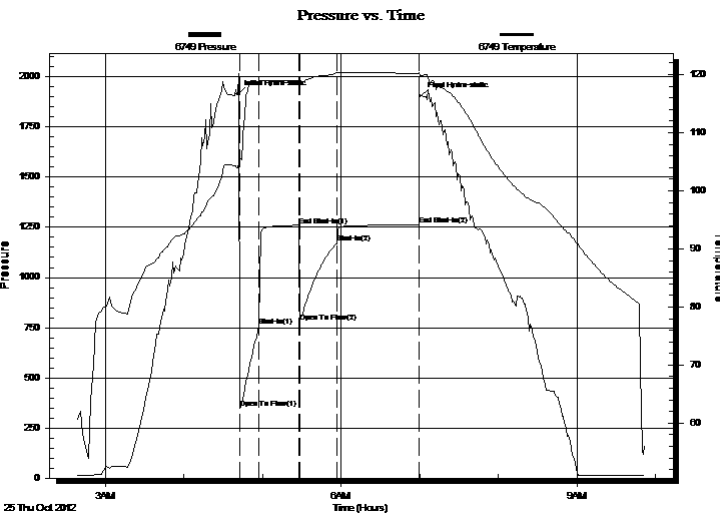
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:42:30
 Time Test Ended: 09:51:30
 Interval: **3831.00 ft (KB) To 3910.00 ft (KB) (TVD)**
 Total Depth: 3910.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Hays/14
 Reference Elevations: 2217.00 ft (KB)
 2212.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749

Inside

Press @ Run Depth: 1170.98 psia @ 3906.10 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.25 End Date: 2012.10.25 Last Calib.: 2012.10.25
 Start Time: 02:39:00 End Time: 09:51:30 Time On Btm: 2012.10.25 @ 04:41:00
 Time Off Btm: 2012.10.25 @ 07:00:30

TEST COMMENT: 1ST Open 15 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds
 1ST Shut In 30 Minutes/No blow back
 2ND Open 30 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1911.53	103.98	Initial Hydro-static
2	347.21	105.52	Open To Flow (1)
17	755.98	118.91	Shut-In(1)
47	1259.70	119.03	End Shut-In(1)
48	780.05	118.82	Open To Flow (2)
76	1170.98	120.31	Shut-In(2)
138	1261.27	120.20	End Shut-In(2)
140	1902.41	119.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2160.00	Muddy Water	30.30
0.00	Mud 15% Water 85%	0.00
0.00	Recovery Chlorides 24,000 ppm	0.00
0.00	Recov. Resist. .38 ohms @	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16904

DST#: 3

ATTN: Roger Moses

Test Start: 2012.10.25 @ 02:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:42:30

Time Test Ended: 09:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: 3831.00 ft (KB) To 3910.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6999 Outside

Press @ RunDepth: 1261.07 psia @ 3907.10 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.25

End Date: 2012.10.25

Last Calib.: 2012.10.25

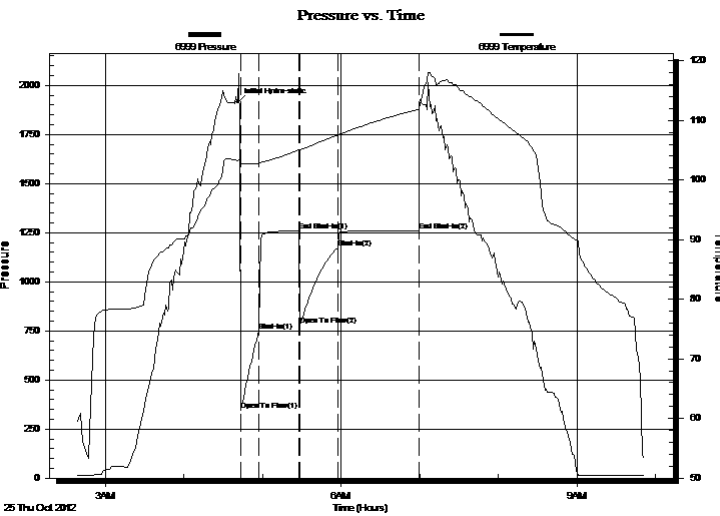
Start Time: 02:39:00

End Time: 09:51:30

Time On Btm: 2012.10.25 @ 04:41:00

Time Off Btm:

TEST COMMENT: 1ST Open 15 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds
 1ST Shut In 30 Minutes/No blow back
 2ND Open 30 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1913.44	103.28	Initial Hydro-static
3	347.54	102.83	Open To Flow (1)
17	750.16	102.81	Shut-In(1)
47	1259.53	105.10	End Shut-In(1)
48	779.39	105.00	Open To Flow (2)
77	1172.60	107.55	Shut-In(2)
138	1261.07	111.83	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
2160.00	Muddy Water	30.30
0.00	Mud 15% Water 85%	0.00
0.00	Recovery Chlorides 24,000 ppm	0.00
0.00	Recov. Resist. .38 ohms @	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16904

DST#: 3

ATTN: Roger Moses

Test Start: 2012.10.25 @ 02:38:00

Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 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: 53.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3831.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.10 ft			
Tool Length:	106.10 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			3809.00	
Hydraulic Tool	5.00			3814.00	
Jars	5.00			3819.00	
Safety Joint	2.00			3821.00	
Packer	5.00			3826.00	27.00 Bottom Of Top Packer
Packer	5.00			3831.00	
Change Over Sub	0.75			3831.75	
Perforations	5.00			3836.75	
Drill Pipe	31.60			3868.35	
Change Over Sub	0.75			3869.10	
Anchor	36.00			3905.10	
Recorder	1.00	6749	Inside	3906.10	
Recorder	1.00	6999	Outside	3907.10	
Bullnose	3.00			3910.10	79.10 Bottom Packers & Anchor

Total Tool Length: 106.10



DRILL STEM TEST REPORT

FLUID SUMMARY

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16904

DST#: 3

ATTN: Roger Moses

Test Start: 2012.10.25 @ 02:38:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 9.96 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: 2.00 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
2160.00	Muddy Water	30.299
0.00	Mud 15% Water 85%	0.000
0.00	Recovery Chlorides 24,000 ppm	0.000
0.00	Recov. Resist. .38 ohms @	0.000

Total Length: 2160.00 ft Total Volume: 30.299 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

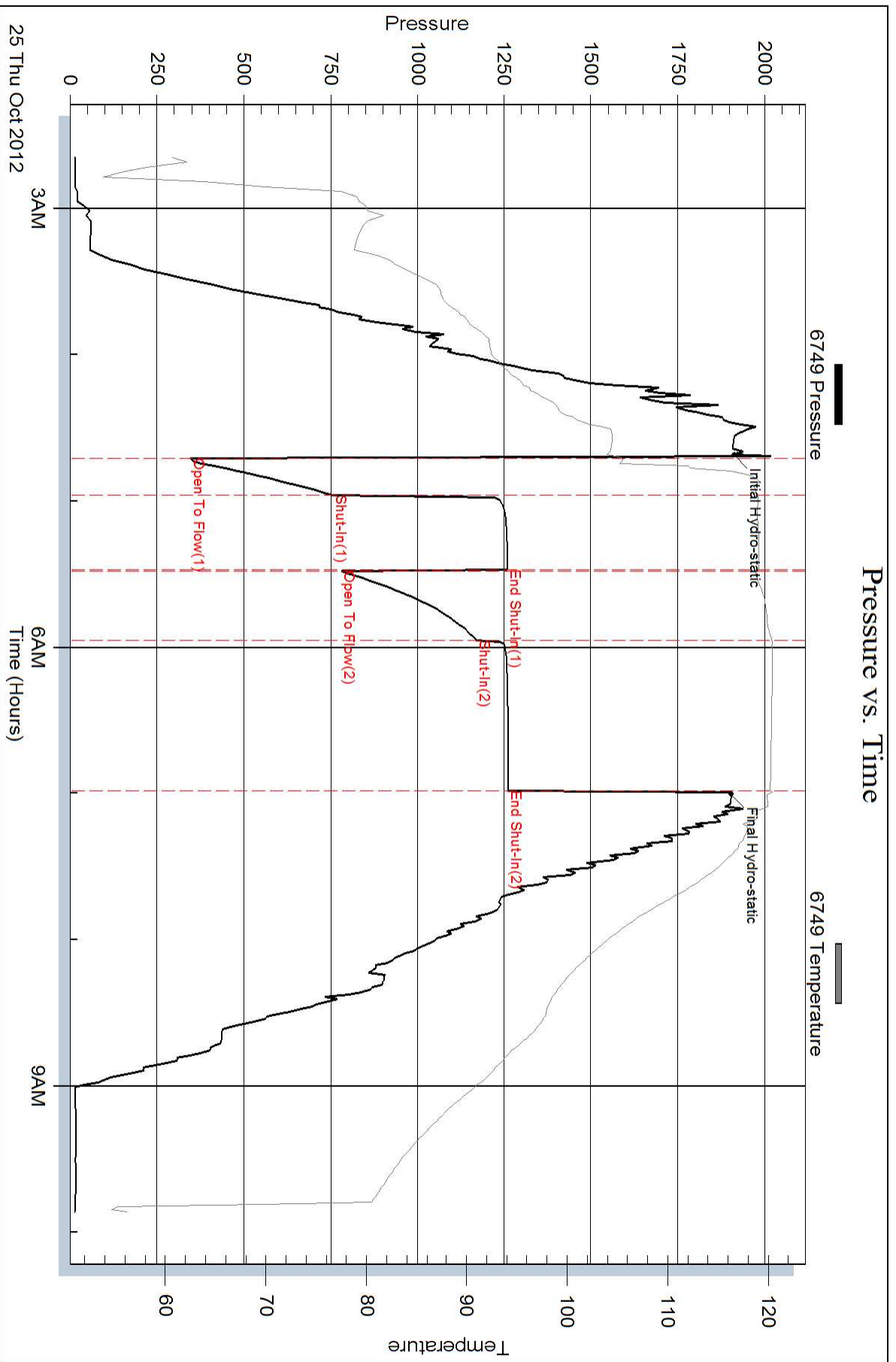
Serial #:

Laboratory Name:

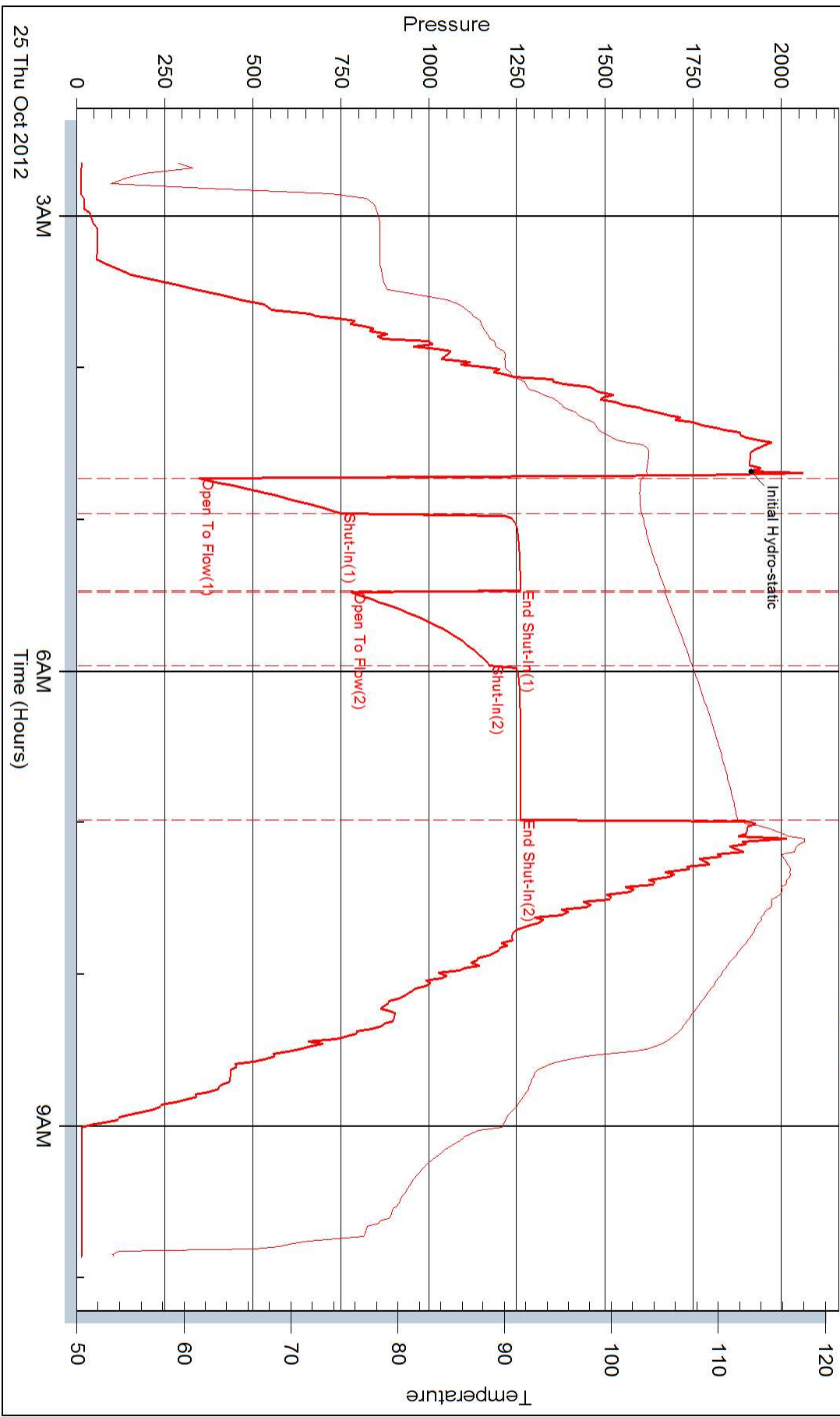
Laboratory Location:

Recovery Comments: Dropped bar on circulating sub

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue
Hays, Kansas 67601+9605

ATTN: Roger Moses

Wann #1

7/14S/19W/Ellis

Start Date: 2012.10.25 @ 18:00:00

End Date: 2012.10.26 @ 00:14:30

Job Ticket #: 16905 DST #: 4

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

Printed: 2012.10.28 @ 22:45:46

Michael Weilert Oil Company
7/14S/19W/Ellis
Wann #1
DST # 4
Arbuckle
2012.10.25



DRILL STEM TEST REPORT

TOOL DIAGRAM

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16905

DST#: 4

ATTN: Roger Moses

Test Start: 2012.10.25 @ 18:00:00

Tool Information

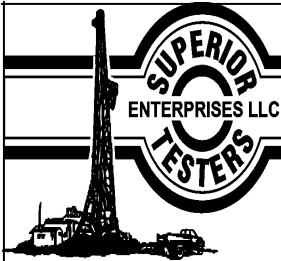
Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 53.79 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	5.83 ft			String Weight: Initial lb
Depth to Top Packer:	3853.00 ft			Final lb
Depth to Bottom Packer:	3908.42 ft			
Interval between Packers:	55.42 ft			
Tool Length:	79.25 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3834.17	
Hydraulic Tool	5.00			3839.17	
Jars	5.00			3844.17	
Safety Joint	2.00			3846.17	
Packer	5.00			3851.17	23.83 Bottom Of Top Packer
Packer	1.83			3853.00	
Handling Sub	5.00			3858.00	
Perforations	6.00			3864.00	
Recorder	0.00	6749	Inside	3864.00	
Recorder	0.00	6999	Inside	3864.00	
Blank Off Sub	0.67			3864.67	
Travel Collar	1.61			3866.28	
Packer Anchor Side	1.63			3867.91	
Packer Tail Side	1.61			3869.52	
Change Over Sub	0.66			3870.18	
Drill Pipe	31.60			3901.78	
Change Over Sub	0.64			3902.42	
Perforations	3.00			3905.42	
Recorder	0.00	6651	Outside	3905.42	
Bullnose	3.00			3908.42	55.42 Bottom Packers & Anchor

Total Tool Length: 79.25



DRILL STEM TEST REPORT

FLUID SUMMARY

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16905

DST#: 4

ATTN: Roger Moses

Test Start: 2012.10.25 @ 18:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 11.97 in³

Resistivity: ohm.m

Salinity: 12200.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Drilling Mud 100%	3.367

Total Length: 240.00 ft Total Volume: 3.367 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

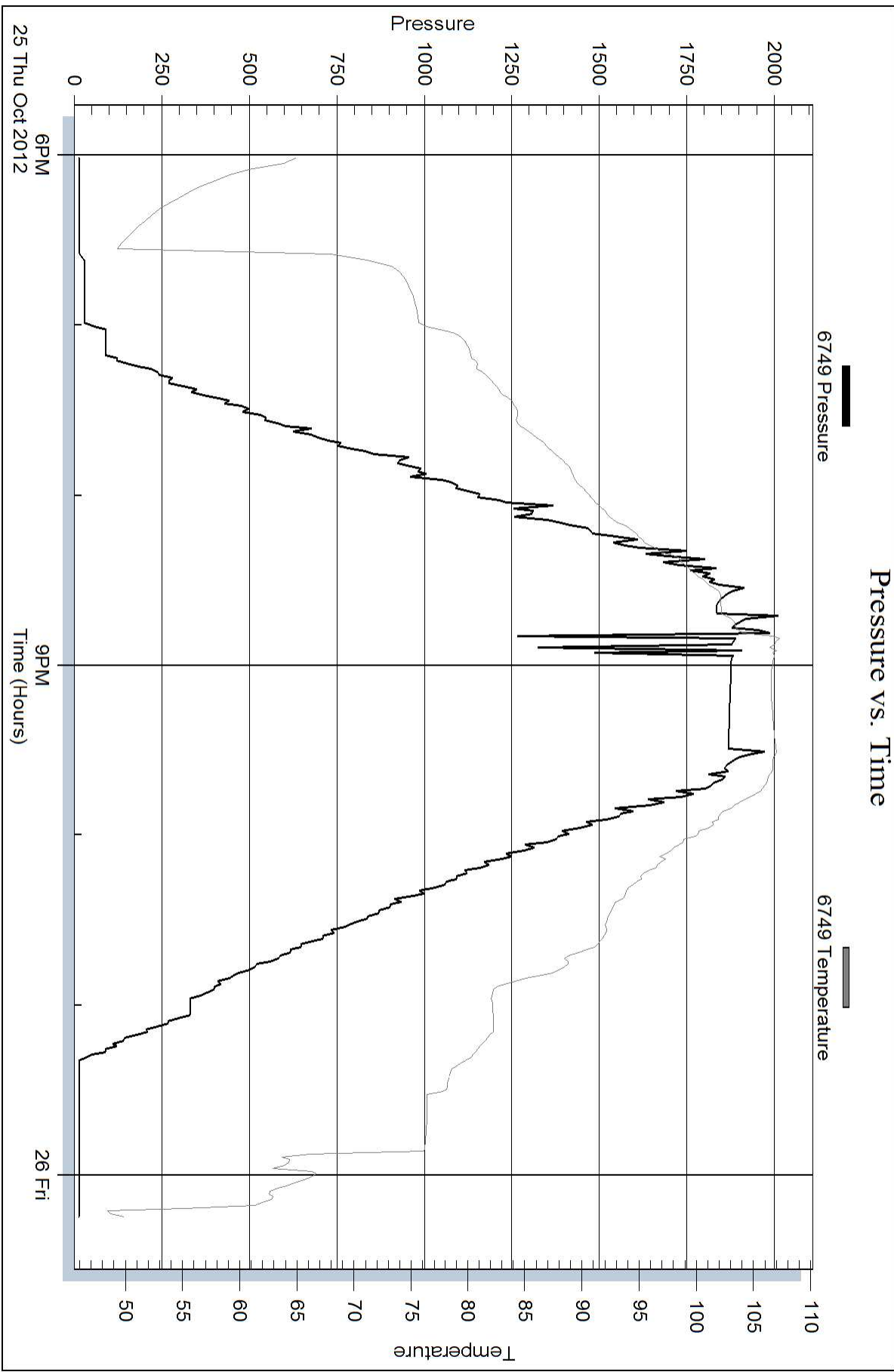
Serial #: 6749

Inside

Michael Weibert Oil Company

Wann #1

DST Test Number: 4



Superior Testers Enterprises LLC

Ref. No: 16905

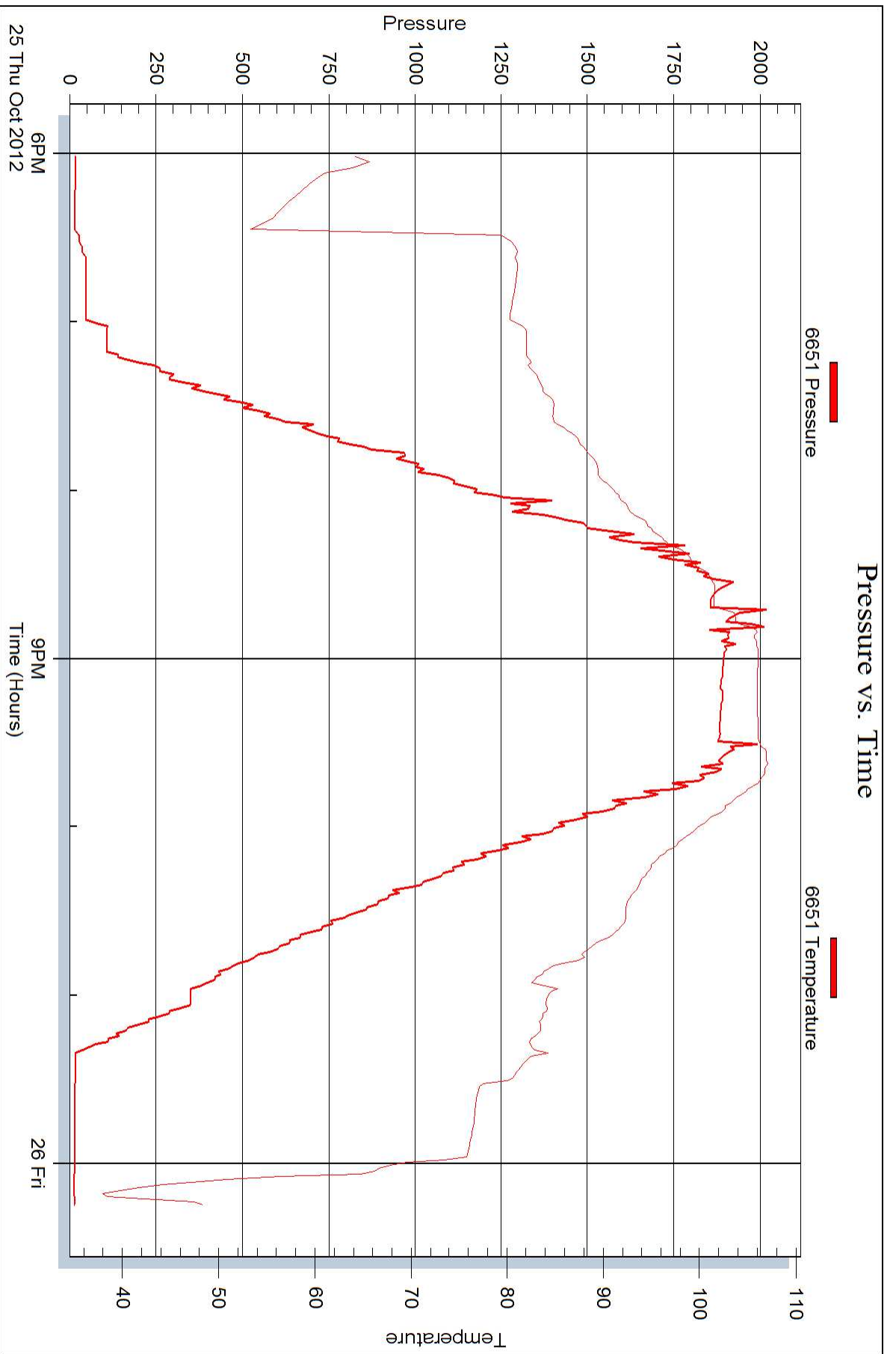
Printed: 2012.10.28 @ 22:45:47

Serial #: 6651

Outside Michael Weibert Oil Company

Wann #1

DST Test Number: 4



Superior Testers Enterprises LLC

Ref. No: 16905

Printed: 2012.10.28 @ 22:45:48

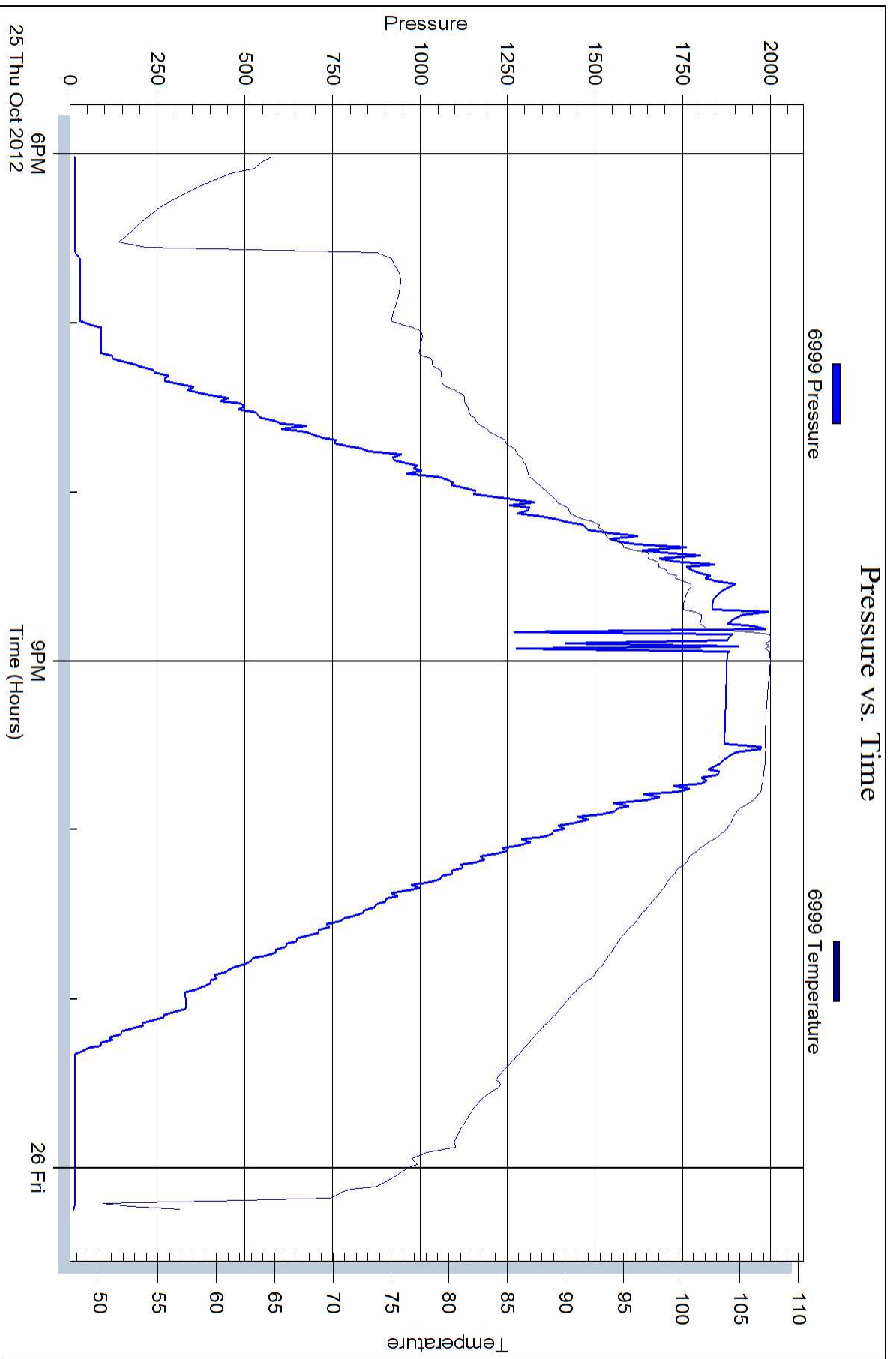
Serial #: 6999

Inside

Michael Weibert Oil Company

Wann #1

DST Test Number: 4



Superior Testers Enterprises LLC

Ref. No: 16905

Printed: 2012.10.28 @ 22:45:48



DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue
Hays, Kansas 67601+9605

ATTN: Roger Moses

Wann #1

7/14S/19W/Ellis

Start Date: 2012.10.26 @ 08:00:00

End Date: 2012.10.28 @ 00:00:00

Job Ticket #: 16906 DST #: 5

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

Printed: 2012.10.28 @ 23:01:46



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16906

DST#: 5

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3552.00 ft (KB) To 3582.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6651** Below

Press @ Run Depth: psia @ 3904.45 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26 End Date: 2012.10.26

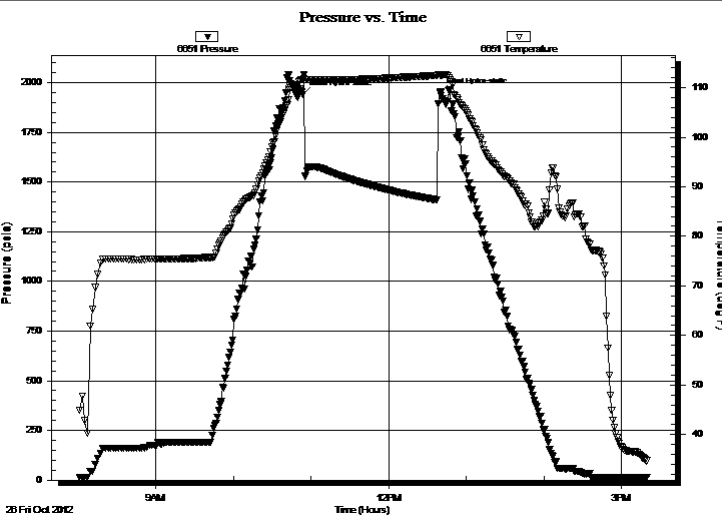
Last Calib.: 2012.10.28

Start Time: 08:00:00 End Time: 22:36:00

Time On Btm: 2012.10.26 @ 10:53:30

Time Off Btm: 2012.10.26 @ 12:40:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 3/4 inches
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Weak surface blow /Blow did not build/Blow died in 13 1/2 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1938.34	111.68	Initial Hydro-static
107	1948.38	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16906

DST#: 5

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3552.00 ft (KB) To 3582.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6749** Inside

Press @ RunDepth: 741.33 psia @ 3574.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26 End Date: 2012.10.26

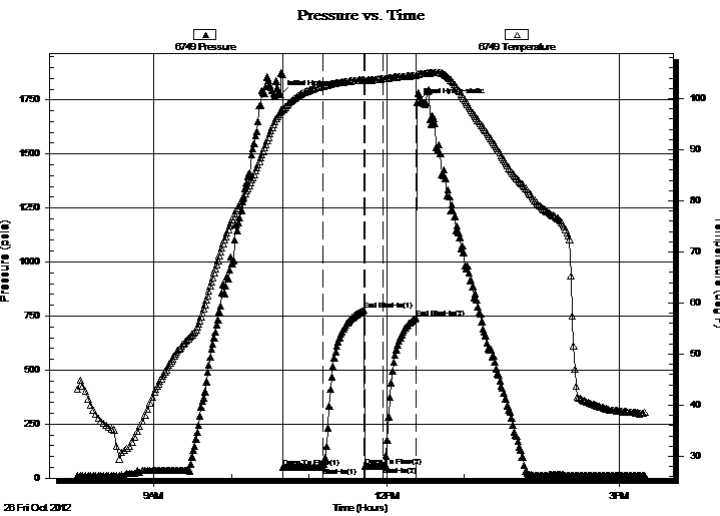
Last Calib.: 2012.10.28

Start Time: 08:00:00 End Time: 22:20:40

Time On Btm: 2012.10.26 @ 10:38:00

Time Off Btm: 2012.10.26 @ 12:23:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 3/4 inches
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Weak surface blow /Blow did not build/Blow died in 13 1/2 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1775.45	97.53	Initial Hydro-static
2	49.73	97.90	Open To Flow (1)
33	51.41	102.42	Shut-In(1)
65	777.20	103.72	End Shut-In(1)
65	53.79	103.50	Open To Flow (2)
80	54.91	103.90	Shut-In(2)
105	741.33	104.53	End Shut-In(2)
106	1739.31	104.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16906

DST#: 5

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: 3552.00 ft (KB) To 3582.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6999 Inside

Press @ RunDepth: 740.62 psia @ 3574.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26 End Date: 2012.10.26

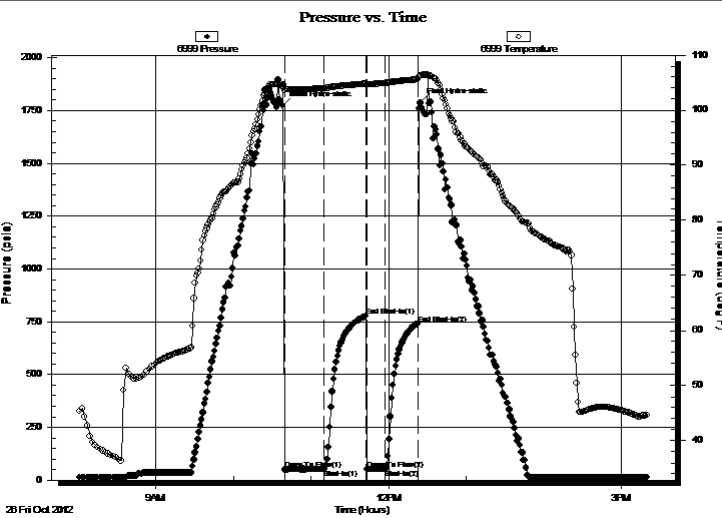
Last Calib.: 2012.10.28

Start Time: 08:00:00 End Time: 22:21:00

Time On Btm: 2012.10.26 @ 10:38:00

Time Off Btm: 2012.10.26 @ 12:24:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 3/4 inches
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Weak surface blow /Blow did not build/Blow died in 13 1/2 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1772.52	104.33	Initial Hydro-static
2	48.92	103.61	Open To Flow (1)
32	50.19	103.93	Shut-In(1)
65	776.26	104.75	End Shut-In(1)
65	52.11	104.62	Open To Flow (2)
80	53.25	104.87	Shut-In(2)
105	740.62	105.51	End Shut-In(2)
107	1785.67	106.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16906

DST#: 5

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

Tool Information

Drill Pipe:	Length: 3548.00 ft	Diameter: 3.80 inches	Volume: 49.77 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
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.18 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3552.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	3907.45 ft			
Interval between Packers:	355.45 ft			
Tool Length:	380.63 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Shale packer at top and bottom of test interval

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3531.82	
Hydraulic Tool	5.00			3536.82	
Jars	5.00			3541.82	
Safety Joint	2.00			3543.82	
Packer	5.00			3548.82	25.18 Bottom Of Top Packer
Packer	3.18			3552.00	
Handling Sub	5.00			3557.00	
Perforations	17.00			3574.00	
Recorder	0.00	6999	Inside	3574.00	
Recorder	0.00	6749	Inside	3574.00	
Blank Off Sub	0.67			3574.67	
Travel Collar	1.63			3576.30	
Packer Anchor Side	2.50			3578.80	
Packer Tail Side	2.64			3581.44	
Perforations	5.00			3586.44	
Change Over Sub	0.64			3587.08	
Drill Pipe	312.71			3899.79	
Change Over Sub	0.66			3900.45	
Perforations	4.00			3904.45	
Recorder	0.00	6651	Below	3904.45	
Bullnose	3.00			3907.45	355.45 Bottom Packers & Anchor
Total Tool Length:	380.63				



DRILL STEM TEST REPORT

FLUID SUMMARY

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16906

DST#: 5

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 11.98 in³

Resistivity: ohm.m

Salinity: 12200.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

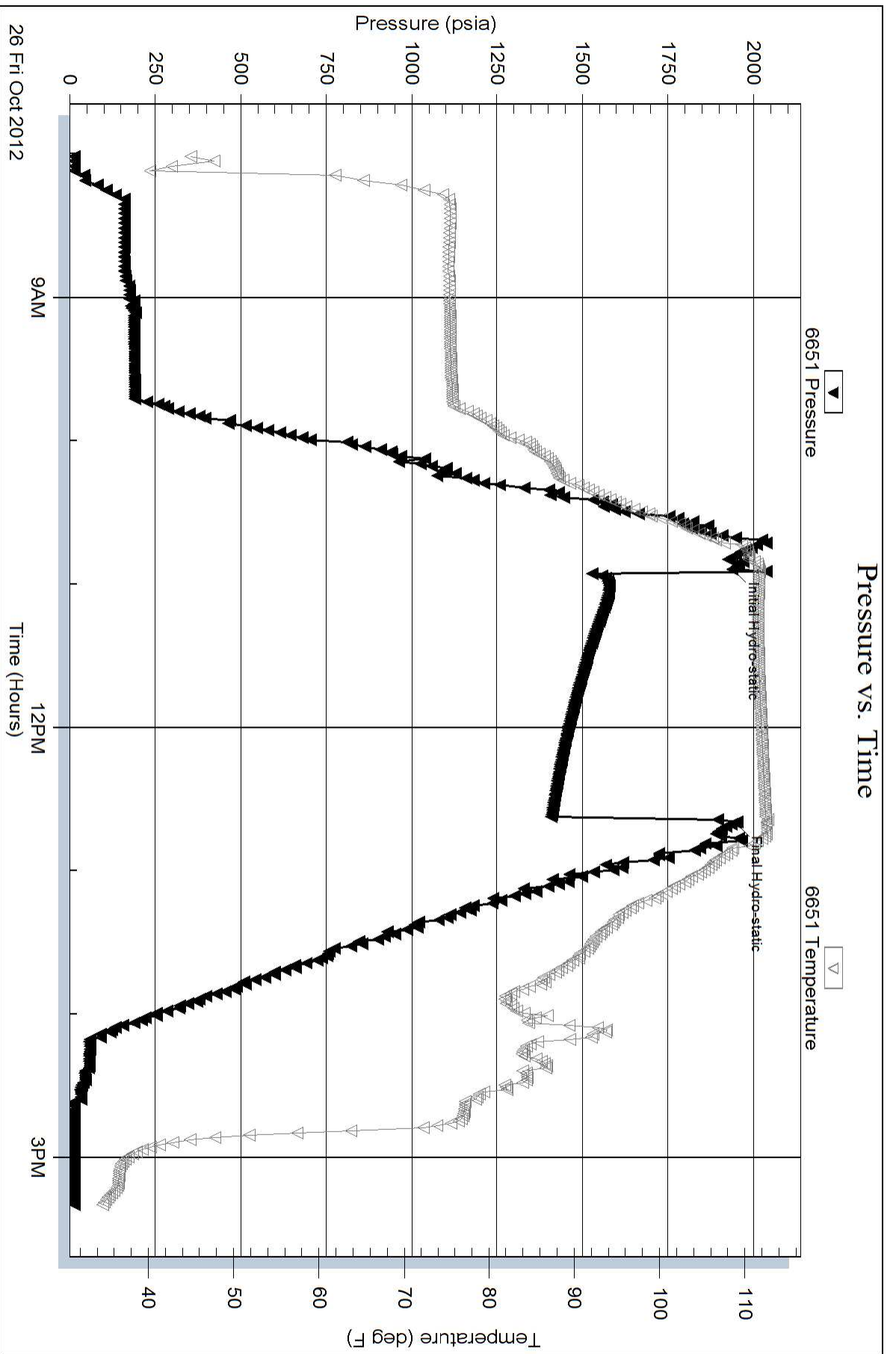
Serial #: 6651

Below

Michael Weibert Oil Company

Wann #1

DST Test Number: 5

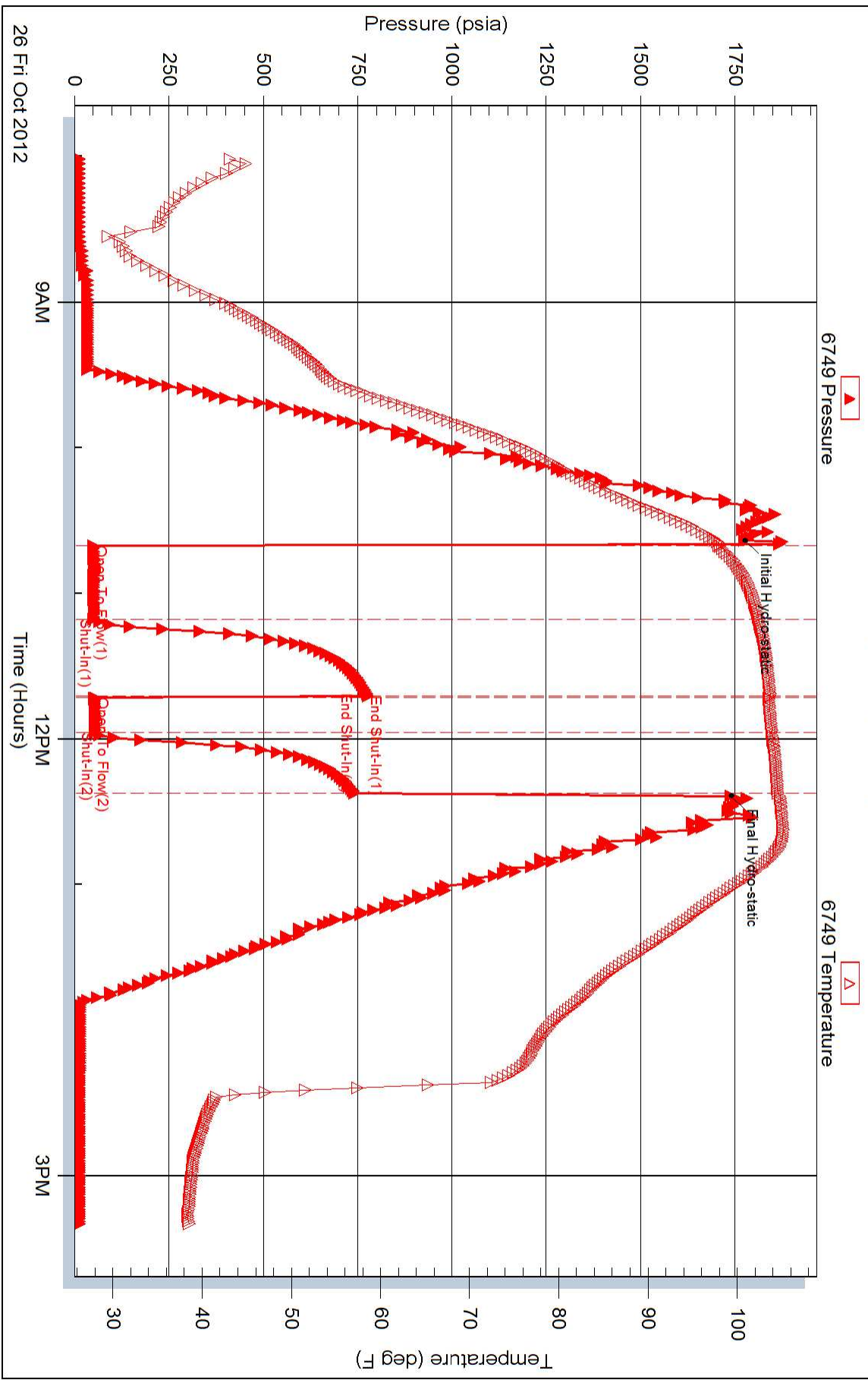


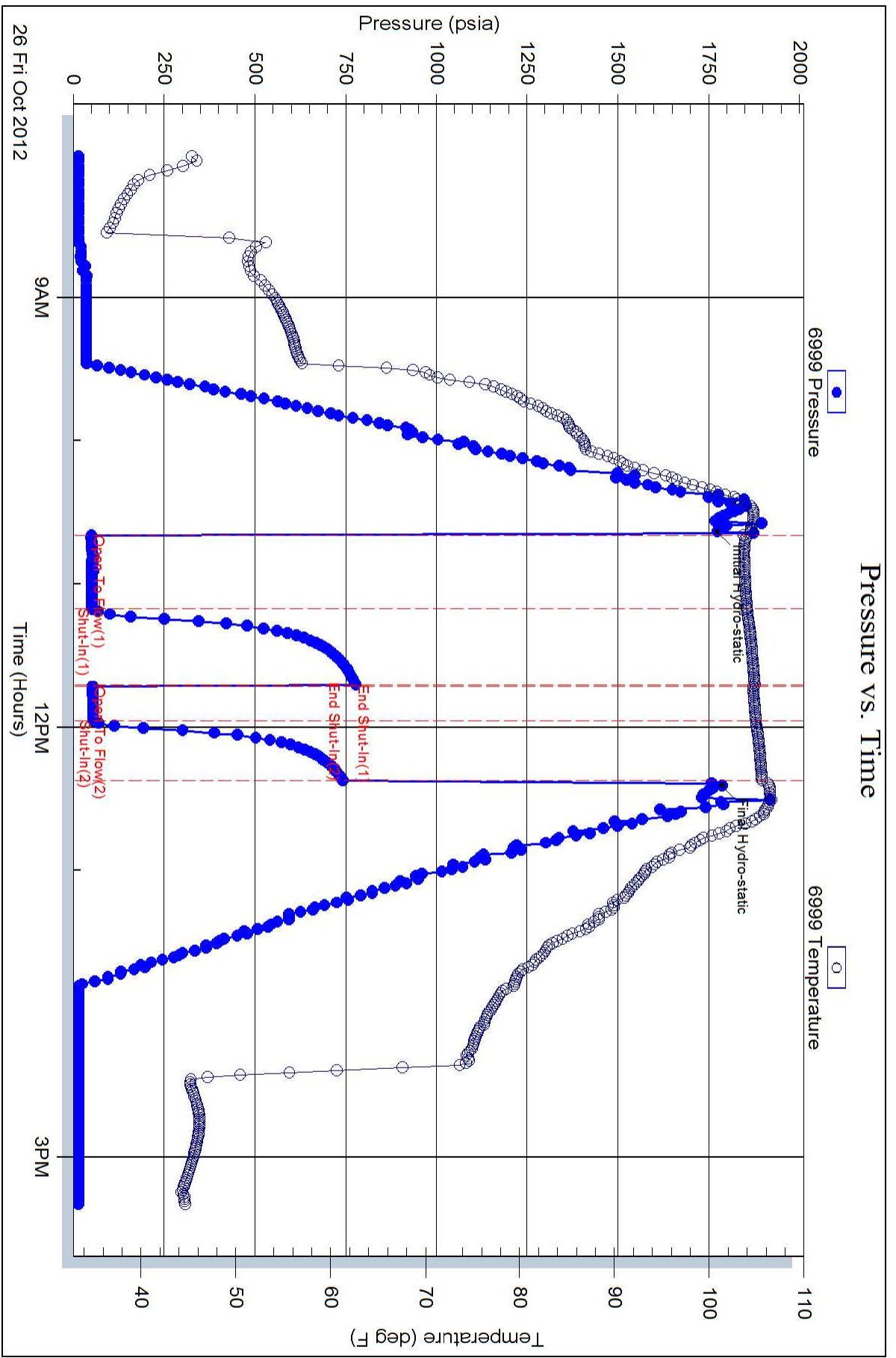
Superior Testers Enterprises LLC

Ref. No: 16906

Printed: 2012.10.28 @ 23:01:47

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue
Hays, Kansas 67601+9605

ATTN: Roger Moses

Wann #1

7/14S/19W/Ellis

Start Date: 2012.10.26 @ 03:00:00

End Date: 2012.10.28 @ 00:00:00

Job Ticket #: 16907 DST #: 6

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

Printed: 2012.10.28 @ 23:17:32

Michael Weilert Oil Company
7/14S/19W/Ellis
Wann #1
DST # 6
Arbuckle
2012.10.26



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16907

DST#: 6

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3820.00 ft (KB) To 3878.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6651** Outside

Press @ RunDepth: psia @ 3904.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26

End Date: 2012.10.26

Last Calib.: 2012.10.28

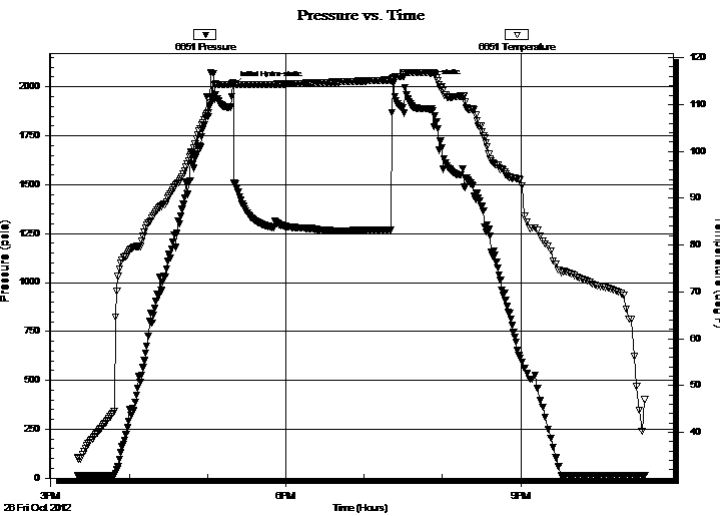
Start Time: 08:00:00

End Time: 22:36:00

Time On Btm: 2012.10.26 @ 17:20:00

Time Off Btm: 2012.10.26 @ 19:22:30

TEST COMMENT: 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 minutes
 1ST Shut In 30 Minutes/No blow back
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 1/2 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2006.04	114.45	Initial Hydro-static
123	2018.61	115.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Muddy Water	17.67
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chorides 34000ppm	0.00
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16907

DST#: 6

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: 3820.00 ft (KB) To 3878.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Inside

Press @ Run Depth: 1242.21 psia @ 3870.05 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26

End Date: 2012.10.26

Last Calib.: 2012.10.28

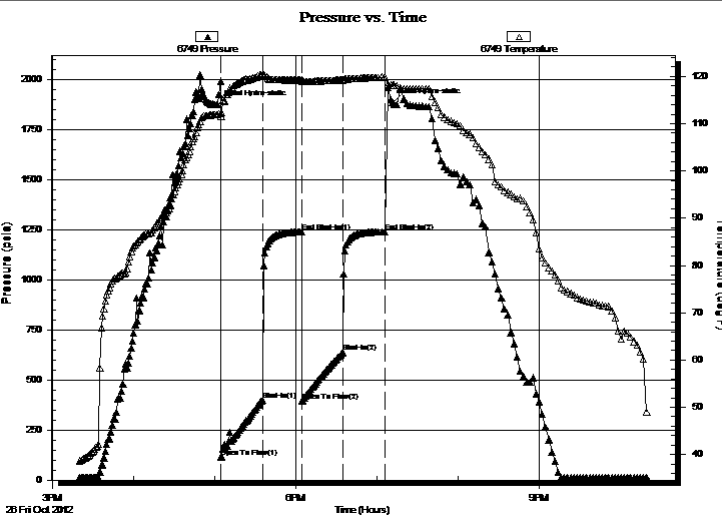
Start Time: 08:00:00

End Time: 22:20:40

Time On Btm: 2012.10.26 @ 17:02:30

Time Off Btm: 2012.10.26 @ 19:11:40

TEST COMMENT: 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 minutes
 1ST Shut In 30 Minutes/No blow back
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 1/2 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1878.26	111.98	Initial Hydro-static
3	115.54	111.54	Open To Flow (1)
33	401.25	120.33	Shut-In(1)
62	1241.44	119.22	End Shut-In(1)
63	397.30	118.92	Open To Flow (2)
93	638.97	119.25	Shut-In(2)
124	1242.21	119.87	End Shut-In(2)
130	1887.34	118.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Muddy Water	17.67
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chorides 34000ppm	0.00
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16907

DST#: 6

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3820.00 ft (KB) To 3878.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6999** Outside

Press @ Run Depth: 1241.91 psia @ 3870.05 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26

End Date: 2012.10.26

Last Calib.: 2012.10.28

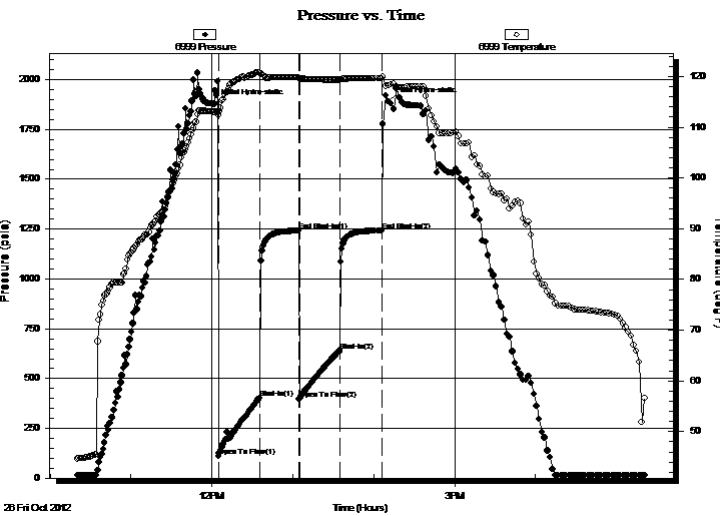
Start Time: 03:00:00

End Time: 17:21:00

Time On Btm: 2012.10.26 @ 12:02:00

Time Off Btm: 2012.10.26 @ 14:11:00

TEST COMMENT: 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 minutes
 1ST Shut In 30 Minutes/No blow back
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 1/2 minutes
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1877.91	112.98	Initial Hydro-static
3	109.59	112.38	Open To Flow (1)
34	402.15	120.82	Shut-In(1)
63	1241.06	119.79	End Shut-In(1)
63	396.55	119.58	Open To Flow (2)
93	639.41	119.30	Shut-In(2)
124	1241.91	119.65	End Shut-In(2)
129	1890.78	118.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Muddy Water	17.67
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chorides 34000ppm	0.00
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16907

DST#: 6

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

Tool Information

Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 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: 43000.00 lb
			<u>Total Volume: 53.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.18 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3820.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	3907.49 ft			
Interval between Packers:	87.49 ft			
Tool Length:	112.67 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Drop bar on circulating sub

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3799.82	
Hydraulic Tool	5.00			3804.82	
Jars	5.00			3809.82	
Safety Joint	2.00			3811.82	
Packer	5.00			3816.82	25.18 Bottom Of Top Packer
Packer	3.18			3820.00	
Perforations	5.00			3825.00	
Change Over Sub	0.79			3825.79	
Drill Pipe	31.60			3857.39	
Change Over Sub	0.66			3858.05	
Perforations	12.00			3870.05	
Recorder	0.00	6749	Inside	3870.05	
Recorder	0.00	6999	Outside	3870.05	
Blank Off Sub	0.67			3870.72	
Travel Collar	1.63			3872.35	
Packer Anchor Side	2.50			3874.85	
Packer Tail Side	2.64			3877.49	
Handling Sub	5.00			3882.49	
Perforations	22.00			3904.49	
Recorder	0.00	6651	Outside	3904.49	
Bullnose	3.00			3907.49	87.49 Bottom Packers & Anchor

Total Tool Length: 112.67



DRILL STEM TEST REPORT

FLUID SUMMARY

Michael Weilert Oil Company

7/14S/19W/Ellis

866 230th Avenue
Hays, Kansas 67601+9605

Wann #1

Job Ticket: 16907

DST#: 6

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 11.99 in³
Resistivity: ohm.m
Salinity: 12200.00 ppm
Filter Cake: 2.00 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
1260.00	Muddy Water	17.674
0.00	Mud 5% Water 95%	0.000
0.00	Recovery Chorides 34000ppm	0.000
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.000

Total Length: 1260.00 ft Total Volume: 17.674 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

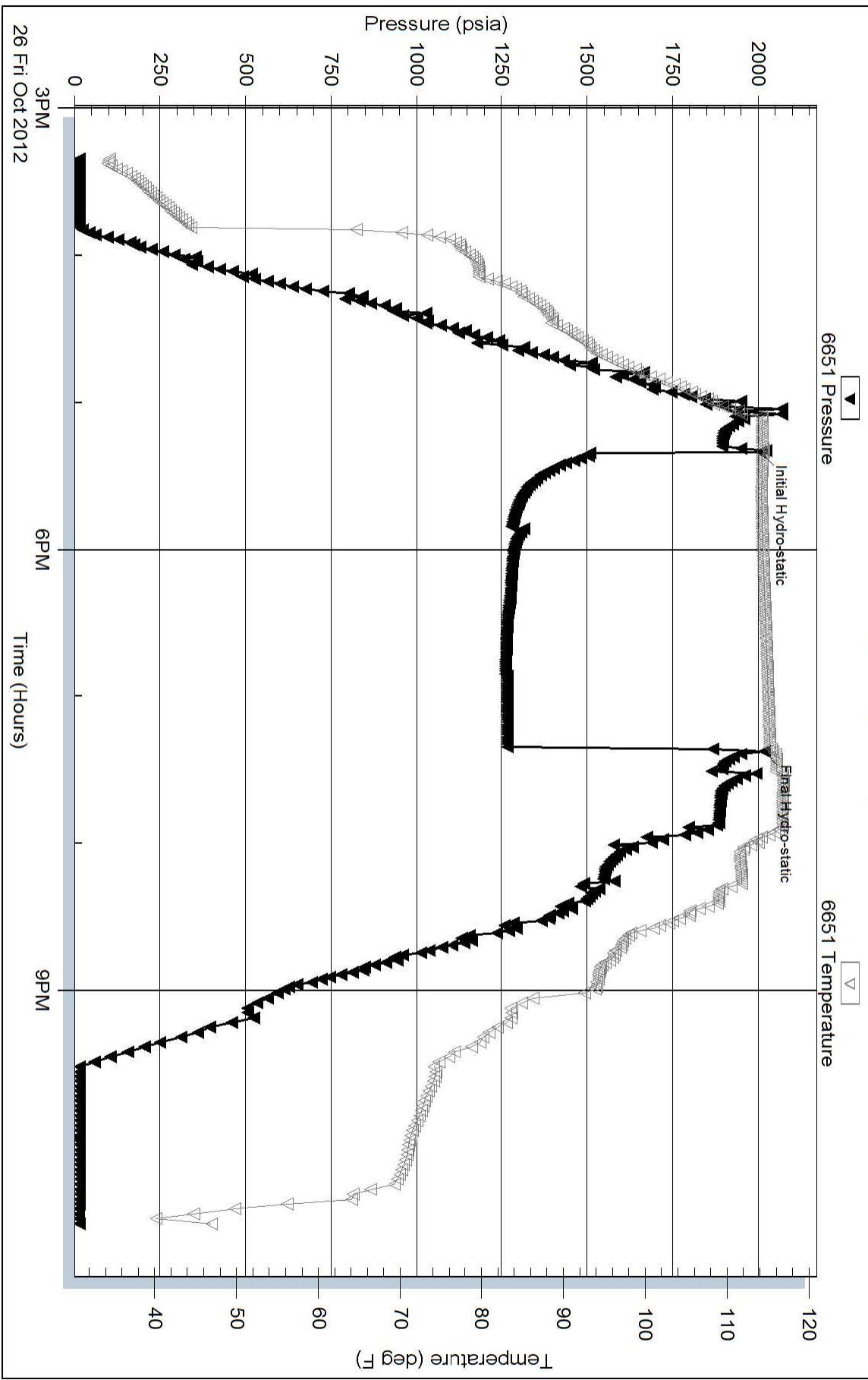
Serial #: 6651

Outside Michael Weibert Oil Company

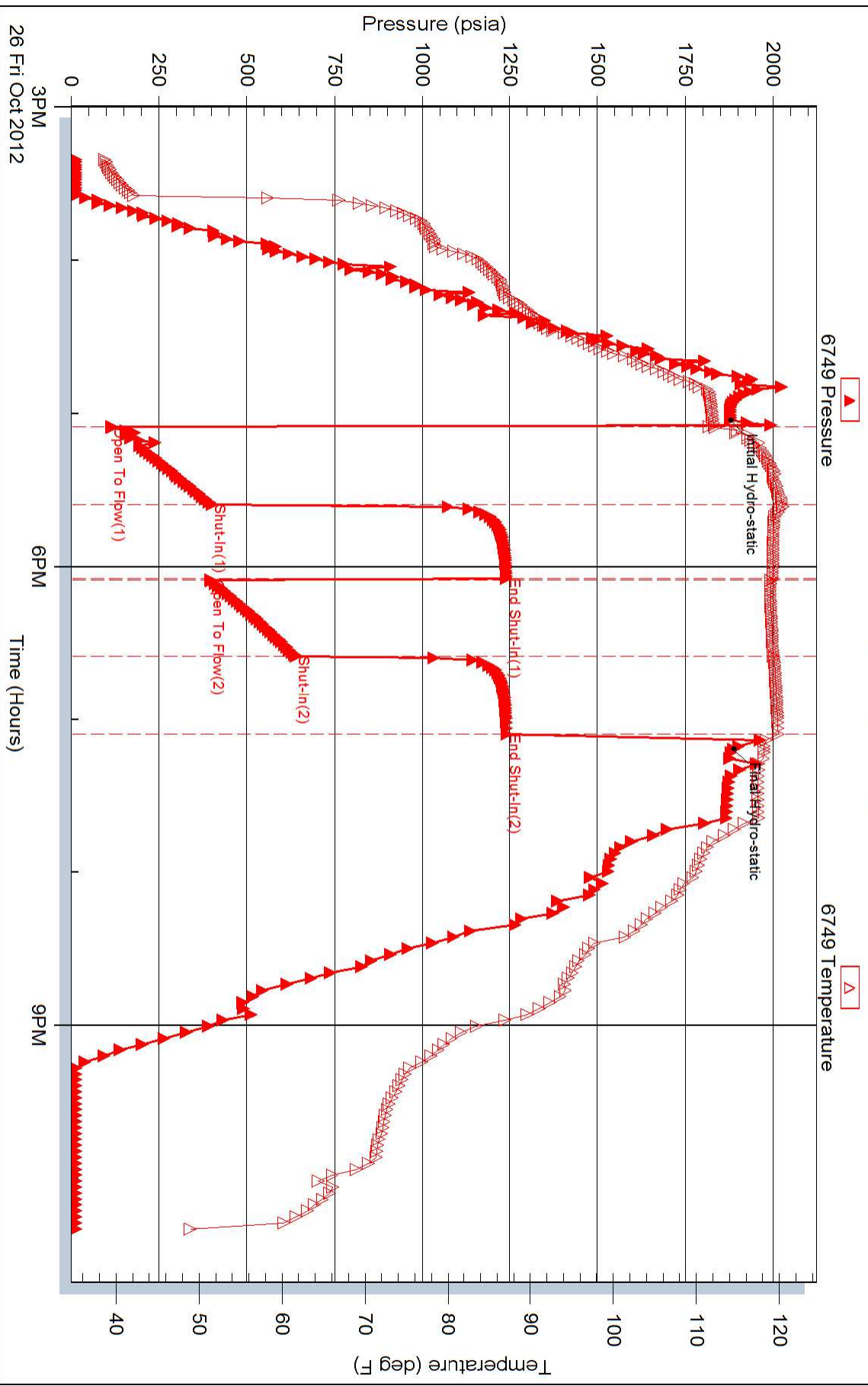
Wann #1

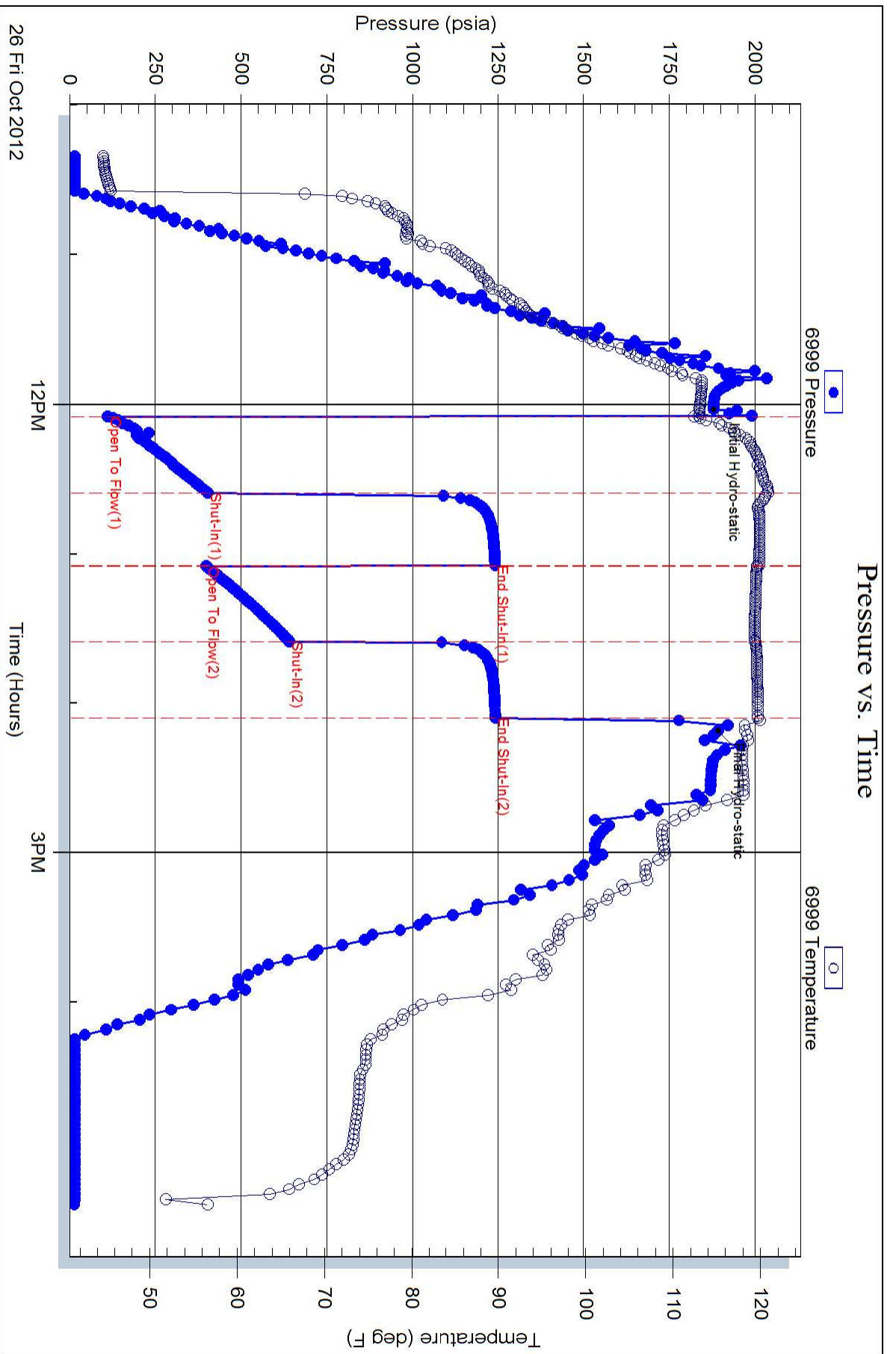
DST Test Number: 6

Pressure vs. Time



Pressure vs. Time





REMIT TO
RR 1 BOX 90 D
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

W2 635

DATE 10-27-12 SEC. 7	RANGE/TWP. 14S/19W	CALLED OUT 9:00 am	ON LOCATION 12:30	JOB START 12:50	JOB FINISH
LEASE Wann			WELL# 1		
			COUNTY Ellis	STATE KS	

CONTRACTOR White Knight Drilling	OWNER Westcoast Oil Company			
TYPE OF JOB Rotary Plug				
HOLE SIZE 7 7/8	T.D. 3911	CEMENT		
CASING SIZE	DEPTH	AMOUNT ORDERED	230 sks	(10/40) 496 Gal
TUBING SIZE	DEPTH		1/4 16.1 sk	F70-Steel
DRILL PIPE 4 1/2	DEPTH			
TOOL	DEPTH			
PRES. MAX	MINIMUM	COMMON	138	@ 15.50 2139.00
DISPLACEMENT	SHOE JOINT	POZMIX	92	@ 8.50 782.00
CEMENT LEFT IN CSG.		GEL	8	@ 26.00 208.00
PERFS		CHLORIDE		@
		ASC		@
EQUIPMENT		F70-Steel	57.5	@ 2.25 129.38
				@
PUMP TRUCK				@
# P1 Jay				@
BULK TRUCK				@
# B1 Eric				@
BULK TRUCK				@
# XXXX				@
Jarrod		HANDLING	240	@ 2.15 516.00
		MILEAGE	82	@ .10 sk/mil 1968.00
		TOTAL		5742.38

REMARKS 1st Plug 3900' w/25 sks	SERVICE		
2nd Plug 1525' w/25 sks	DEPT OF JOB		@
3rd Plug 770' w/100 sks	PUMP TRUCK CHARGE	1	@ 1350 1350
4th Plug 260' w/40 sks	EXTRA FOOTAGE		@
5th Plug 40' w/10 sks	MILEAGE	82	@ 6.50 533.00
Rat Hole w/30 sks	MANIFOLD		@
230 sks	Light Vehicle Charge	82	@ 2.00 164.00
	TOTAL		2047.00

CHARGES TO: Westcoast Oil Company	
STREET 866 230TH Ave	STATE KS
CITY Hays	ZIP 67601

To: Schippers Oil Field Services L.L.C.
You are hereby requested to rent cementing equipment and furnish staff 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

PLUG & FLOAT EQUIPMENT	
892 Wooden Plug	@ 79.00
	@
	@
	@

QUALITY WELL SERVICE, INC.

5728

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-11-12	7	14	19	Ellis	KS		8:30-9:00p
Lease Wann		Well No. #1		Location Hay's KS 7W 14S E into			
Contractor Precision Drilling		Owner		To Quality Well Service, 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 Surface		T.D. 211		Charge To Michael Weikert Oil Company			
Hole Size 12 1/4		Depth 202		Street			
Csg. 8 5/8		Depth		City State			
Tbg. Size		Depth		City State			
Tool		Depth		City State			
Cement Left in Csg. 15c+		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor			
Meas Line		Displace 11.8 bbl		Cement Amount Ordered 150sr com 3%CC 2%gel			
EQUIPMENT							
Pumptrk	No. 8	Lody		Common 150			
Bulktrk	No. 10	Sean		Poz. Mix			
Bulktrk	No.			Gel. 3			
Pickup	No.			Calcium 5			
JOB SERVICES & REMARKS							
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
Ran 8 hrs of 8 5/8 casing & landing H				CFL-117 or CD110 CAF 38			
				Sand			
				Handling 158			
				Mileage 8			
FLOAT EQUIPMENT							
Est Circulation with pump truck				Guide Shoe			
Hooked up and mixed 150sr and disp with 11 3/4 bbl of H2O - shut in @ 300psi				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
Cement did circulate							
Thank You!!				Pumptrk Charge Surface			
Casing cut 201b.				Mileage 8			
X Signature <i>Andrew</i>				Tax			
				Discount			
				Total Charge			