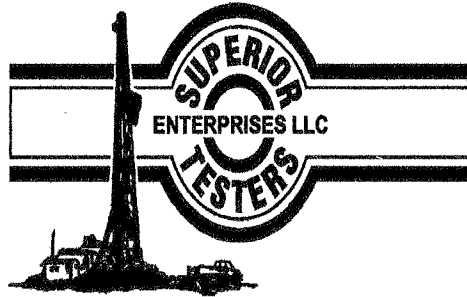


15-193-20770

14-95-36w

And



DRILL STEM TEST REPORT

Prepared For: **S & W OIL & GAS L.L.C**

3540 W DOUGLES #3
WICHITA KS 67203

ATTN: MIKE ENGELBRECHT

14-9-36W THOMAS

KECK #1-14

Start Date: 2009.10.24 @ 02:05:00

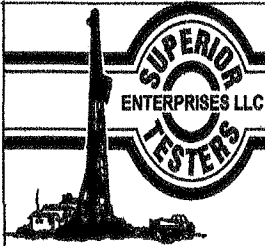
End Date: 2009.10.24 @ 08:44:00

Job Ticket #: 16466 DST #: 1

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

Printed: 2009.10.24 @ 08:56:16

S & W OIL & GAS L.L.C KECK #1-14 14-9-36W THOMAS DST # 1 LANSING 2009.10.24



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16466 DST#: 1

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.24 @ 02:05:00

GENERAL INFORMATION:

Formation: **LANSING**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:51:30

Time Test Ended: 08:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- 80-SCOTT CITY

Interval: **4252.00 ft (KB) To 4280.00 ft (KB) (TVD)**

Total Depth: 4280.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 3399.00 ft (KB)

3389.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 125.06 psia @ 4275.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.24 End Date: 2009.10.24

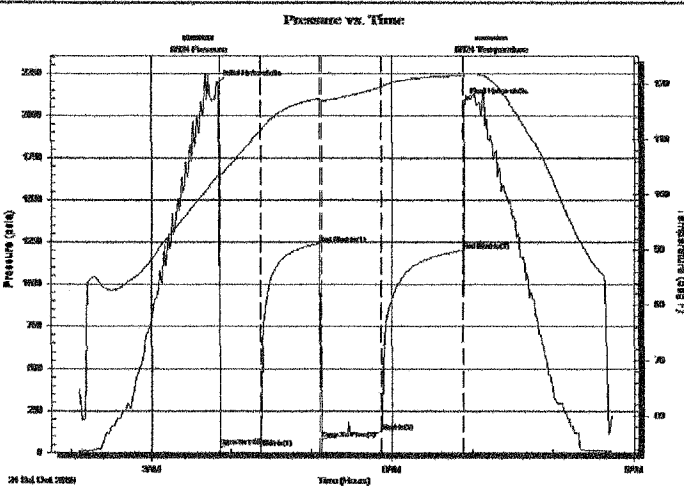
Last Calib.: 2009.10.24

Start Time: 02:05:00 End Time: 08:44:00

Time On Btm: 2009.10.24 @ 03:50:00

Time Off Btm: 2009.10.24 @ 06:54:00

TEST COMMENT: 30/INITIAL OPEN:WEAK BLOW BUILT 3 1/2 INCHES INTO BUCKET IN 30 MINUTES
45/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN
60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

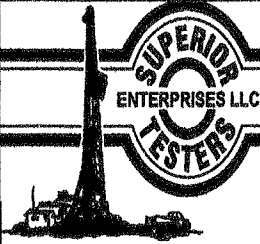
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2186.83	103.57	Initial Hydro-static
2	37.07	103.57	Open To Flow (1)
32	80.70	111.53	Shut-In(1)
77	1238.05	117.36	End Shut-In(1)
78	83.30	117.03	Open To Flow (2)
122	125.06	119.50	Shut-In(2)
183	1200.12	121.59	End Shut-In(2)
184	2080.08	121.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MUD	0.98

Gas Rates

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



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16466 DST#: 1

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.24 @ 02:05:00

GENERAL INFORMATION:

Formation: **LANSING**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:51:30
Time Test Ended: 08:44:00

Test Type: Conventional Bottom Hole (Initial)
Tester: JARED SCHECK
Unit No: 3320- 80-SCOTT CITY

Interval: **4252.00 ft (KB) To 4280.00 ft (KB) (TVD)**
Total Depth: 4280.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 3399.00 ft (KB)
3389.00 ft (CF)
KB to GR/CF: 10.00 ft

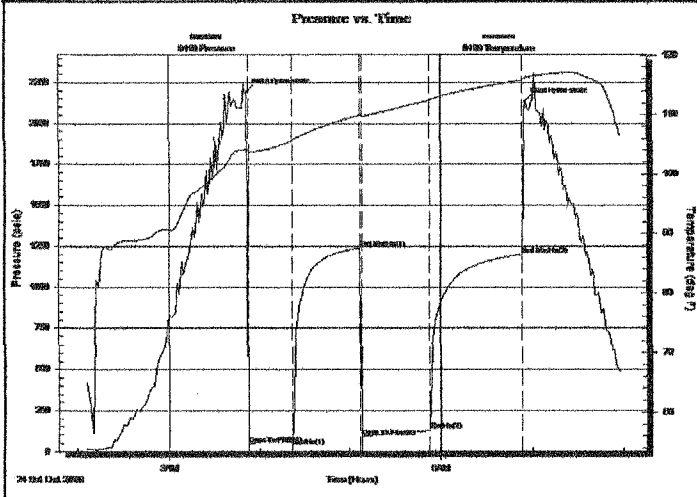
Serial #: 8419

Outside

Press@RunDepth: 1201.37 psia @ 4275.00 ft (KB)
Start Date: 2009.10.24 End Date: 2009.10.24
Start Time: 02:05:00 End Time: 07:58:00

Capacity: 5000.00 psia
Last Calib.: 2009.10.24
Time On Btm: 2009.10.24 @ 03:51:30
Time Off Btm: 2009.10.24 @ 06:55:30

TEST COMMENT: 30/INITIAL OPEN:WEAK BLOW BUILT 3 1/2 INCHES INTO BUCKET IN 30 MINUTES
45/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:VERY WEAK SUFACE BLOW STAYED STEADY THROUGHOUT OPEN
60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

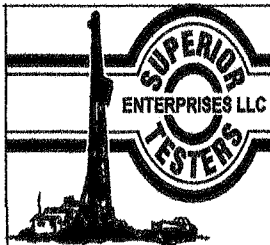
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2190.13	104.27	Initial Hydro-static
1	43.61	103.78	Open To Flow (1)
31	85.61	105.64	Shut-In(1)
75	1240.72	109.93	End Shut-In(1)
76	91.61	109.68	Open To Flow (2)
121	128.84	112.40	Shut-In(2)
182	1201.37	115.82	End Shut-In(2)
184	2134.87	116.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MUD	0.98

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16466

DST#: 1

ATTN: MIKE ENGELBRECHT

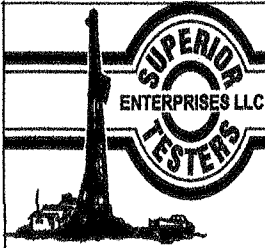
Test Start: 2009.10.24 @ 02:05:00

Tool Information

Drill Pipe:	Length: 3668.00 ft	Diameter: 3.80 inches	Volume: 51.45 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 54.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4252.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4232.00	
Shut-in Tool	5.00			4237.00	
Hydraulic Tool	5.00			4242.00	
Packer	5.00			4247.00	21.00 Bottom Of Top Packer
Packer	5.00			4252.00	
Perforations	23.00			4275.00	
Recorder	0.00	8524	Inside	4275.00	
Recorder	0.00	8419	Outside	4275.00	
Bullnose	5.00			4280.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16466

DST#: 1

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.24 @ 02:05:00

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:	53.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.00 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	5200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MUD	0.984

Total Length: 200.00 ft Total Volume: 0.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES 23,000

DST Test Number: 1

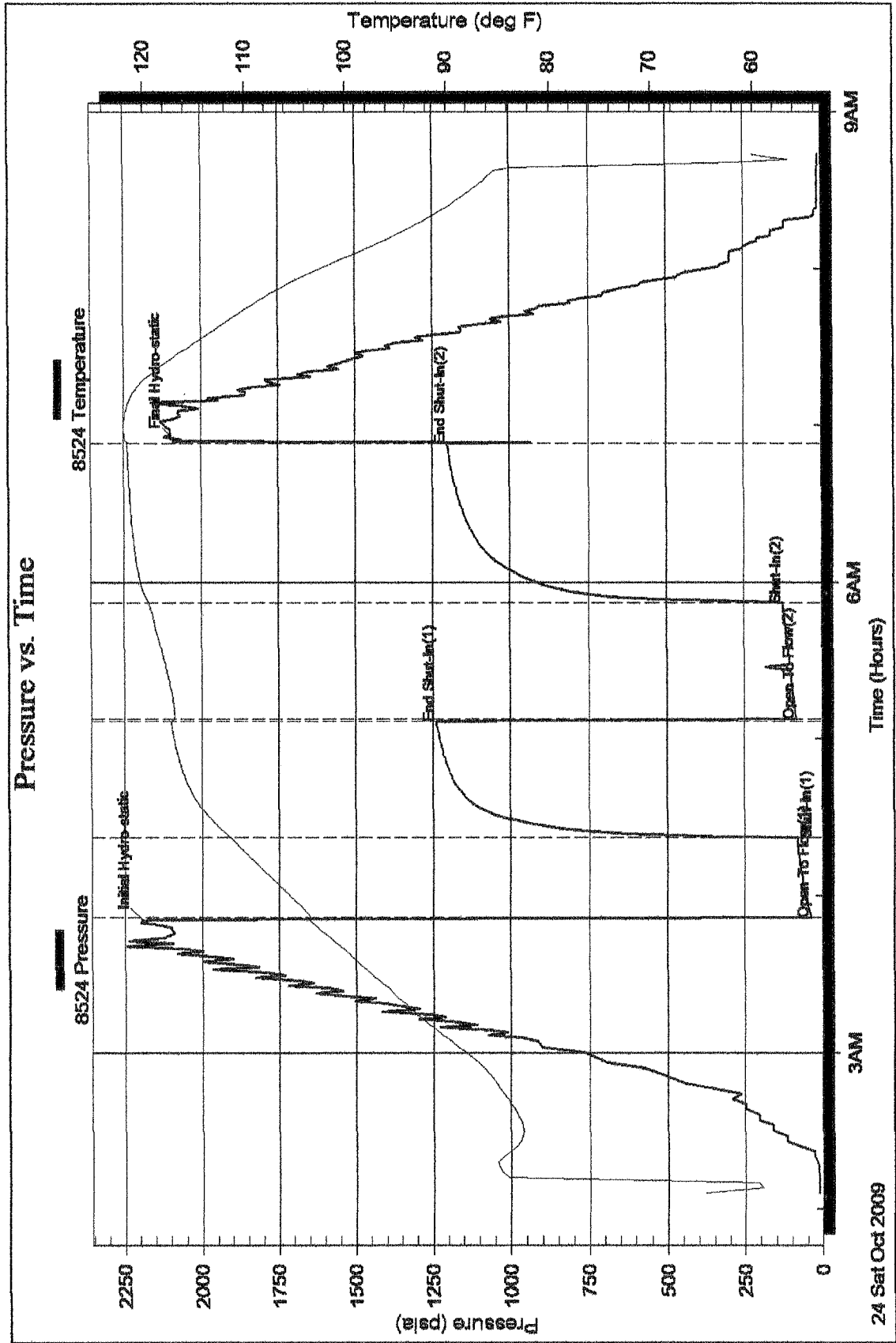
14-9-36W THOMAS

S & W OIL & GAS L.L.C

Inside

Serial #: 8524

Pressure vs. Time



Printed: 2009.10.24 @ 08:56:18

Ref. No: 16466

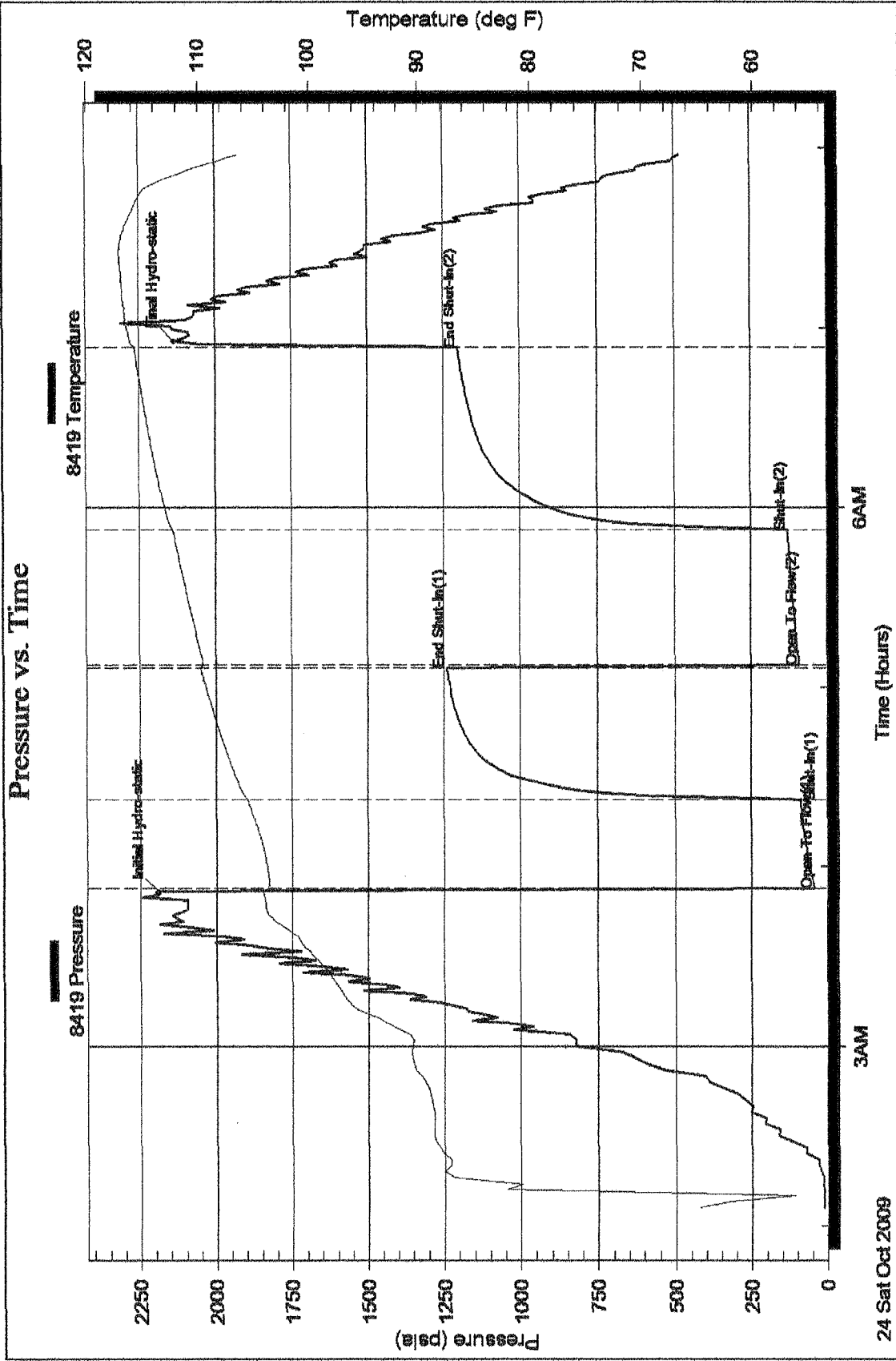
Superior Testers Enterprises LLC

DST Test Number: 1

14-9-36W THOMAS

Serial #: 8419 Outside S & W OIL & GAS L.L.C

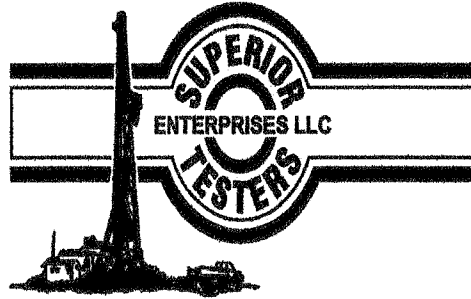
Pressure vs. Time



Printed: 2009.10.24 @ 08:56:18

Ref. No: 16466

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **S & W OIL & GAS L.L.C**

3540 W DOUGLES #3
WICHITA KS 67203

ATTN: MIKE ENGELBRECHT

14-9-36W THOMAS

KECK #1-14

Start Date: 2009.10.24 @ 18:18:00

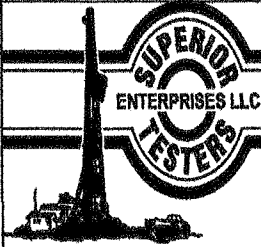
End Date: 2009.10.24 @ 23:38:00

Job Ticket #: 16467 DST #: 2

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

Printed: 2009.10.27 @ 13:12:05

S & W OIL & GAS L.L.C
KECK #1-14
14-9-36W THOMAS
DST # 2
LANSING H
2009.10.24



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16467

DST#: 2

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.24 @ 18:18:00

GENERAL INFORMATION:

Formation: **LANSING H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:55:30

Time Test Ended: 23:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-80-SCOTT CITY

Interval: **4311.00 ft (KB) To 4353.00 ft (KB) (TVD)**

Total Depth: 4353.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 3399.00 ft (KB)

3389.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8524**

Inside

Press@RunDepth: 52.20 psia @ 4348.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.24

End Date: 2009.10.24

Last Calib.: 2009.10.24

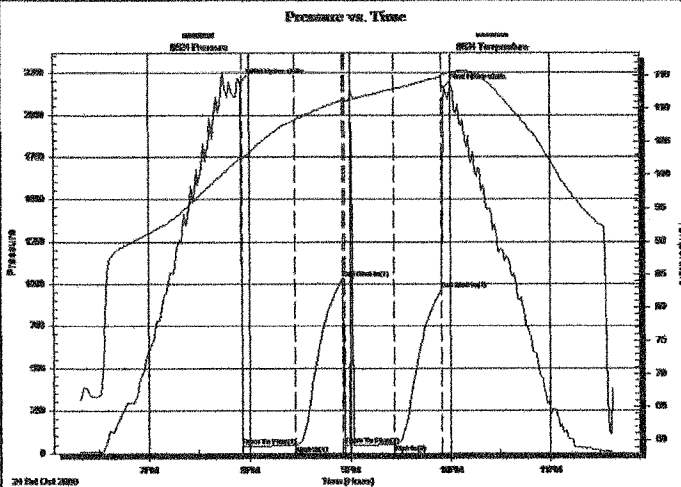
Start Time: 18:19:00

End Time: 23:38:00

Time On Btm: 2009.10.24 @ 19:55:00

Time Off Btm: 2009.10.24 @ 21:56:00

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW DID NOT BUILD STAYED STEADY THROUGHOUT OPEN
30/INITIAL SHUT IN:NO BLOW BACK
30/FINAL OPEN :VERY WEAK SURGE DID'NT BUILD FULSHED TOOL 5 MINUTES INTO OPEN GOODSURGE DIED OFF
30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

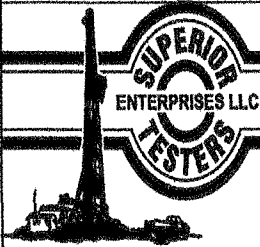
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2191.83	102.75	Initial Hydro-static
1	43.15	102.39	Open To Flow (1)
32	47.60	108.28	Shut-In(1)
61	1029.80	111.28	End Shut-In(1)
62	48.06	111.14	Open To Flow (2)
91	52.20	113.02	Shut-In(2)
120	965.15	114.82	End Shut-In(2)
121	2161.41	115.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SPOT OIL CUT MUD 1%O 99%M	0.02

Gas Rates

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



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16467

DST#: 2

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.24 @ 18:18:00

GENERAL INFORMATION:

Formation: **LANSING H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:55:30

Time Test Ended: 23:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-80-SCOTT CITY

Interval: **4311.00 ft (KB) To 4353.00 ft (KB) (TVD)**

Total Depth: 4353.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 3399.00 ft (KB)

3389.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Outside

Press@RunDepth: 972.57 psia @ 4348.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.24

End Date:

2009.10.24

Last Calib.: 2009.10.24

Start Time: 18:19:00

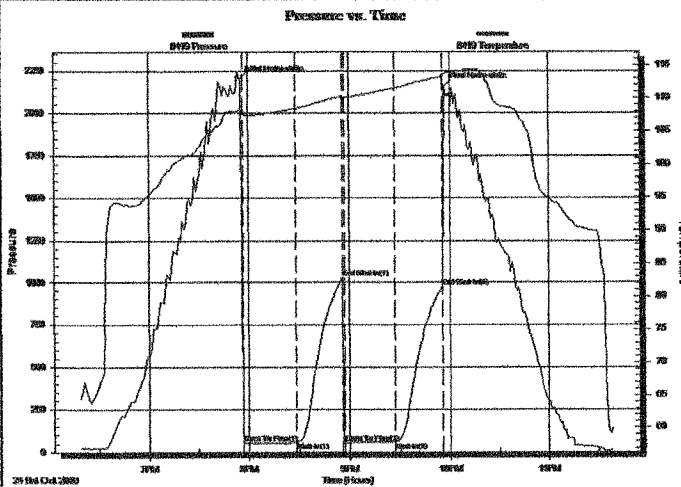
End Time:

23:39:00

Time On Btm: 2009.10.24 @ 19:55:00

Time Off Btm: 2009.10.24 @ 21:56:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW DID NOT BUILD STAYED STEADY THROUGHOUT OPEN
30/INITIAL SHUT IN:NO BLOW BACK
30/FINAL OPEN:VERY WEAK SURGE DIDNT BUILD FULSHED TOOL 5 MINUTES INTO OPEN GOODSURGE DIED OFF
30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

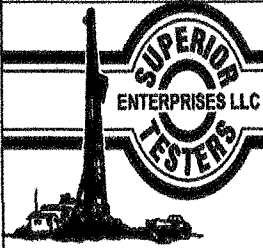
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2203.45	108.14	Initial Hydro-static
2	52.14	107.58	Open To Flow (1)
33	59.68	108.45	Shut-In(1)
61	1029.41	110.33	End Shut-In(1)
62	55.58	110.11	Open To Flow (2)
92	61.53	111.58	Shut-In(2)
121	972.57	113.32	End Shut-In(2)
122	2157.26	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SPOT OIL CUT MUD 1%O 99%M	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16467

DST#: 2

ATTN: MIKE ENGELBRECHT

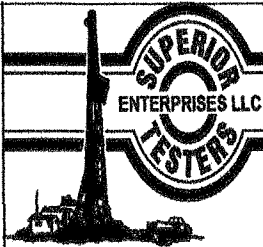
Test Start: 2009.10.24 @ 18:18:00

Tool Information

Drill Pipe:	Length: 3732.00 ft	Diameter: 3.80 inches	Volume: 52.35 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 55.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4311.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4291.00	
Shut-In Tool	5.00			4296.00	
Hydrolic Tool	5.00			4301.00	
Packer	5.00			4306.00	21.00 Bottom Of Top Packer
Packer	5.00			4311.00	
Perforations	37.00			4348.00	
Recorder	0.00	8524	Inside	4348.00	
Recorder	0.00	8419	Outside	4348.00	
Bullnose	5.00			4353.00	42.00 Bottom Packers & Anchor
Total Tool Length:	63.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16467

DST#: 2

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.24 @ 18:18:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6400.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SPOT OIL CUT MUD 1%O 99%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

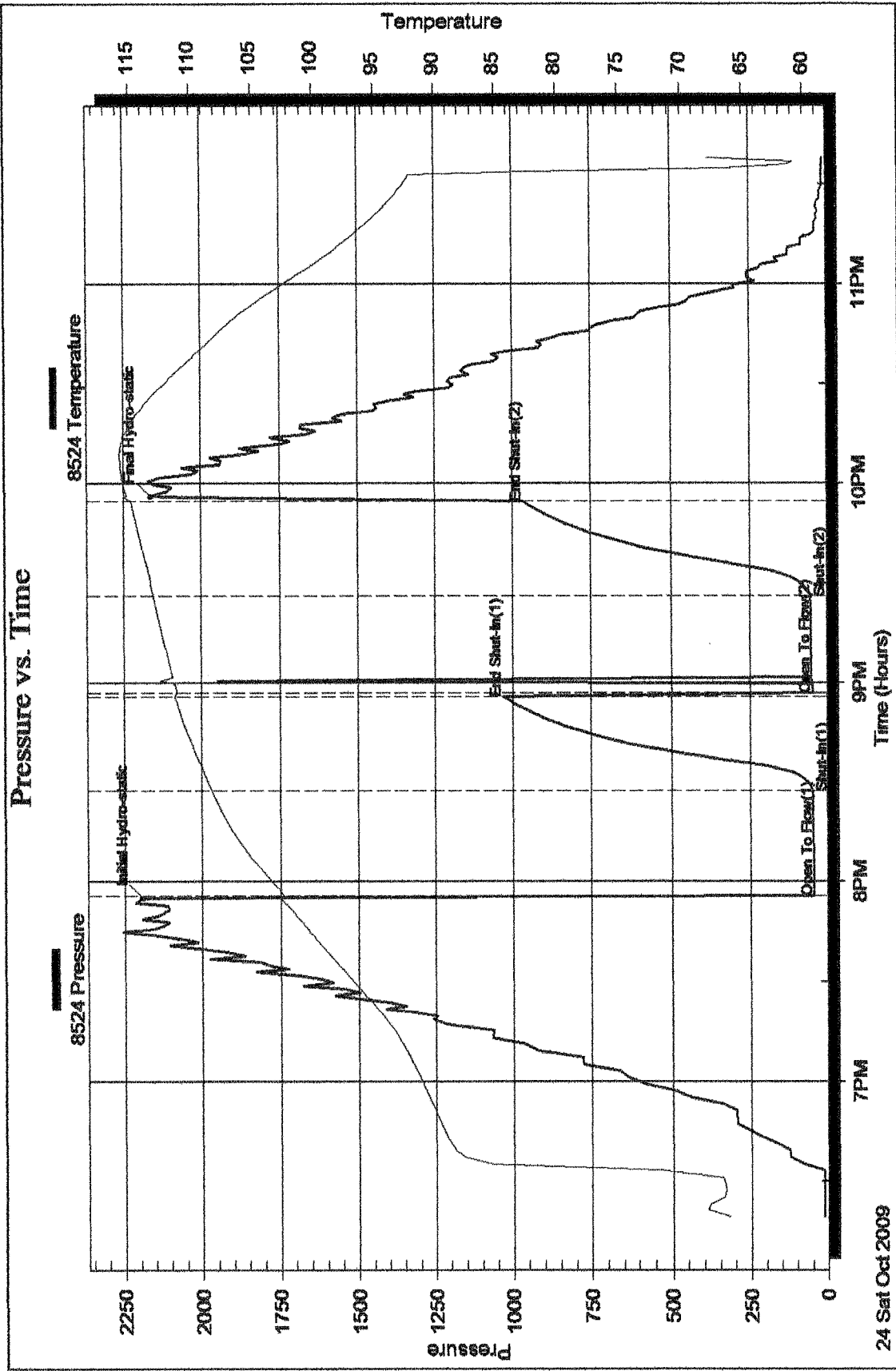
14-9-36W THOMAS

S & W OIL & GAS L.L.C

Inside

Serial #: 8524

Pressure vs. Time



Printed: 2009.10.27 @ 13:12:07

Ref. No: 15467

Superior Testers Enterprises LLC

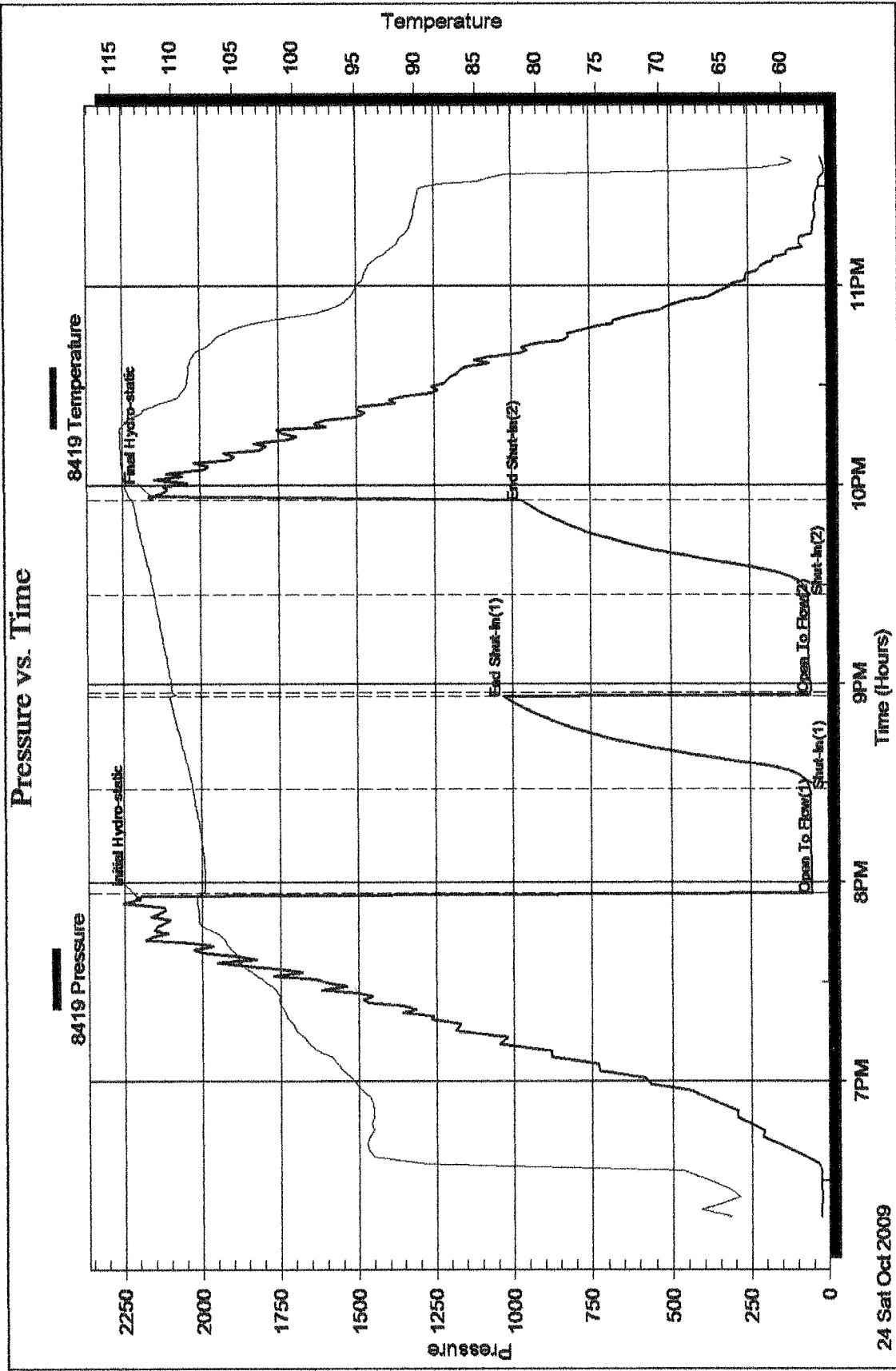
DST Test Number: 2

14-9-36W THOMAS

Outside S & W OIL & GAS L.L.C

Serial #: 8419

Pressure vs. Time



24 Sat Oct 2009



DRILL STEM TEST REPORT

Prepared For: **S & W OIL & GAS L.L.C**

3540 W DOUGLES #3
WICHITA KS 67203

ATTN: MIKE ENGELBRECHT

14-9-36W THOMAS

KECK #1-14

Start Date: 2009.10.25 @ 14:50:00

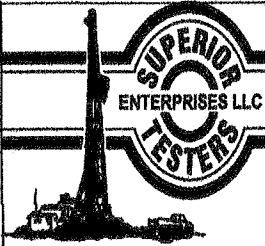
End Date: 2009.10.25 @ 20:24:30

Job Ticket #: 16468 DST #: 3

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

Printed: 2009.10.25 @ 20:43:49

S & W OIL & GAS L.L.C
KECK #1-14
14-9-36W THOMAS
DST # 3
LANSING I - J - K
2009.10.25



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16468 DST#: 3

ATTN: MIKE ENGELBRECHT

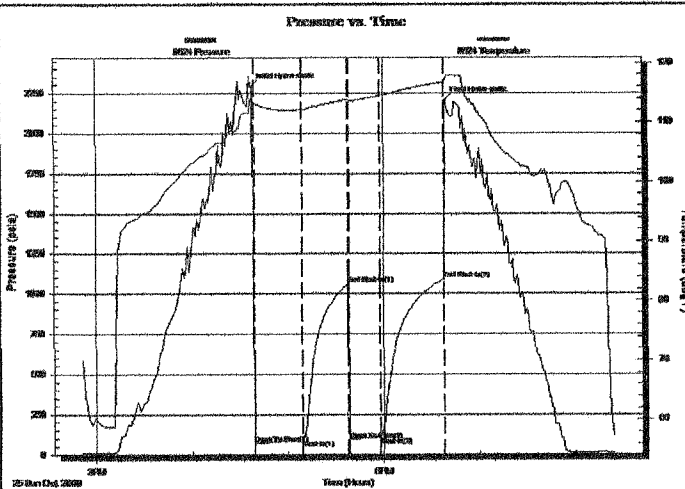
Test Start: 2009.10.25 @ 14:50:00

GENERAL INFORMATION:

Formation: **LANSING I - J - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:38:30
 Time Test Ended: 20:24:30
 Interval: **4348.00 ft (KB) To 4430.00 ft (KB) (TVD)**
 Total Depth: 4430.00 ft (KB) (TVD)
 Hole Diameter: 6.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-80-SCOTT CITY
 Reference Elevations: 3399.00 ft (KB)
 3389.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 Inside
 Press@RunDepth: 107.99 psia @ 4425.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.10.25 End Date: 2009.10.25 Last Calib.: 2009.10.25
 Start Time: 14:50:00 End Time: 20:24:30 Time On Btm: 2009.10.25 @ 16:37:00
 Time Off Btm: 2009.10.25 @ 18:38:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURGE DID NOT BUILD
 30/INITIAL SHUT IN:NO BLOW BACK
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL 5 MINUTES INTO OPEN GOOD SUGE DIED OFF
 30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

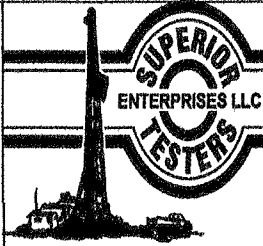
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2288.57	113.90	Initial Hydro-static
2	68.13	113.34	Open To Flow (1)
32	91.58	112.21	Shut-In(1)
61	1059.10	113.83	End Shut-In(1)
62	95.09	113.62	Open To Flow (2)
81	107.99	114.45	Shut-In(2)
121	1089.26	116.72	End Shut-In(2)
122	2201.09	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SPOT OIL CUT MD 1%O 99%M	0.10

Gas Rates

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



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16468

DST#: 3

ATTN: MIKE ENGELBRECHT

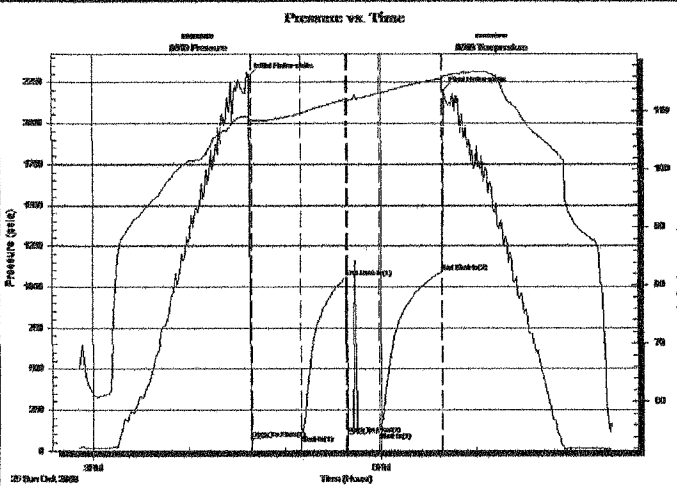
Test Start: 2009.10.25 @ 14:50:00

GENERAL INFORMATION:

Formation: **LANSING I - J - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:38:30
 Time Test Ended: 20:24:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-80-SCOTT CITY
 Interval: **4348.00 ft (KB) To 4430.00 ft (KB) (TVD)**
 Total Depth: 4430.00 ft (KB) (TVD)
 Reference Elevations: 3399.00 ft (KB)
 Hole Diameter: 6.88 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8519 Outside
 Press@RunDepth: 1090.99 psia @ 4425.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.10.25 End Date: 2009.10.25 Last Calib.: 2009.10.25
 Start Time: 14:50:00 End Time: 20:25:30 Time On Btm: 2009.10.25 @ 16:38:00
 Time Off Btm: 2009.10.25 @ 18:39:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURGE DID NOT BUILD
 30/INITIAL SHUT IN:NO BLOW BACK
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL 5 MINUTES INTO OPEN GOOD SUGE DIED OFF
 30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

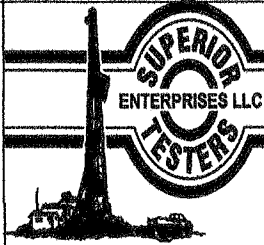
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2288.70	109.18	Initial Hydro-static
1	74.68	108.58	Open To Flow (1)
32	98.15	109.60	Shut-In(1)
60	1056.41	112.06	End Shut-In(1)
61	101.15	111.86	Open To Flow (2)
81	114.11	113.02	Shut-In(2)
121	1090.99	115.66	End Shut-In(2)
122	2199.90	116.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SPOT OIL CUT MD 1%O 99%M	0.10

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16468

DST#: 3

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.25 @ 14:50:00

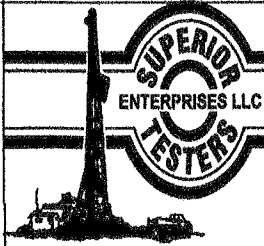
Tool Information

Drill Pipe:	Length: 3765.00 ft	Diameter: 3.80 inches	Volume: 52.81 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 83000.00 lb
			<u>Total Volume: 55.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4348.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4328.00	
Shut-In Tool	5.00			4333.00	
Hydraulic Tool	5.00			4338.00	
Packer	5.00			4343.00	21.00 Bottom Of Top Packer
Packer	5.00			4348.00	
Perforations	12.00			4360.00	
Change Over Sub	0.75			4360.75	
Drill Pipe	63.50			4424.25	
Change Over Sub	0.75			4425.00	
Recorder	0.00	8524	Inside	4425.00	
Recorder	0.00	8519	Outside	4425.00	
Bullnose	5.00			4430.00	82.00 Bottom Packers & Anchor

Total Tool Length: 103.00



DRILL STEM TEST REPORT

FLUID SUMMARY

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16468

DST#: 3

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.25 @ 14:50:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SPOT OIL CUT MD 1%O 99%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

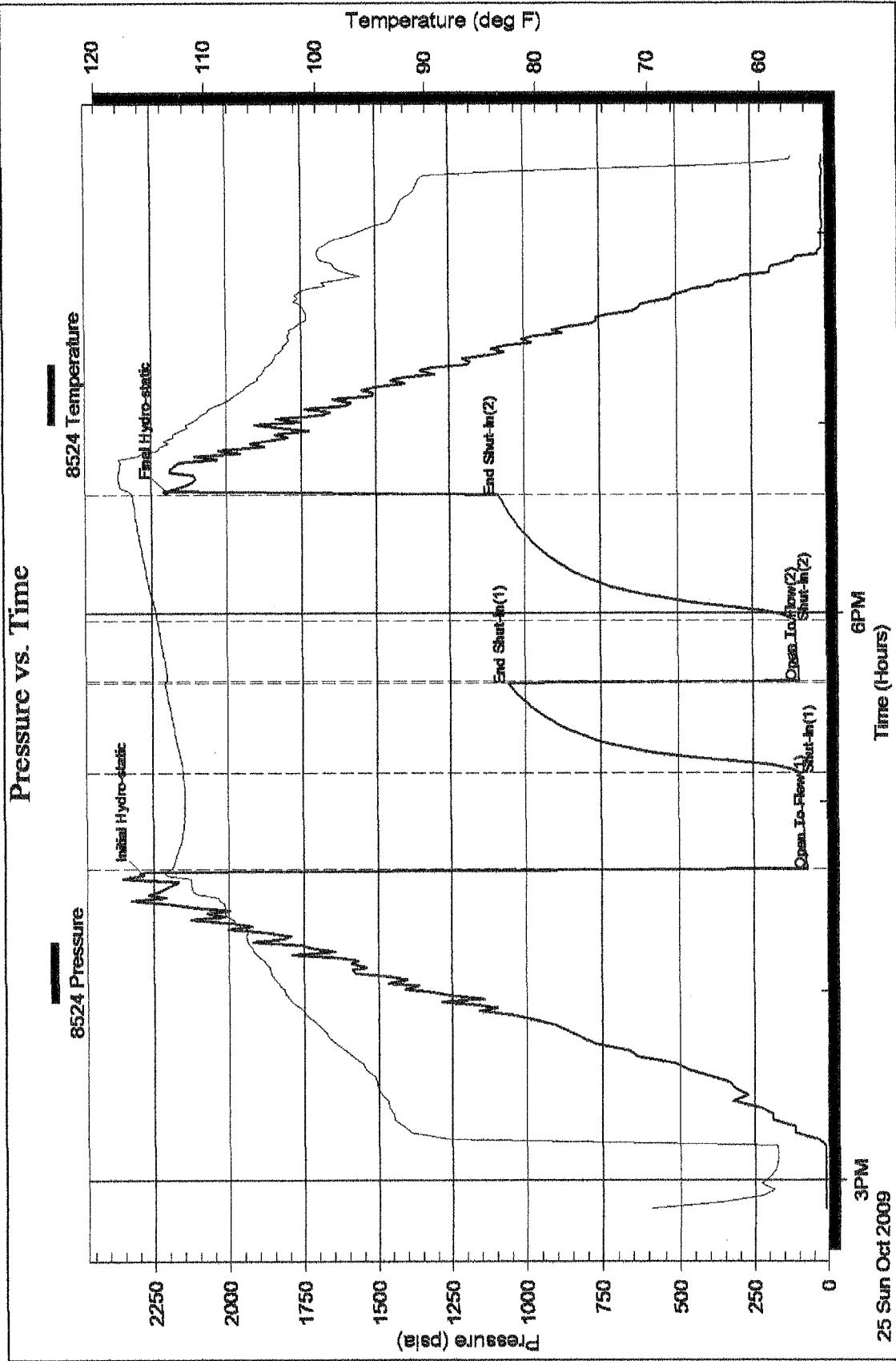
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



25 Sun Oct 2009

3PM

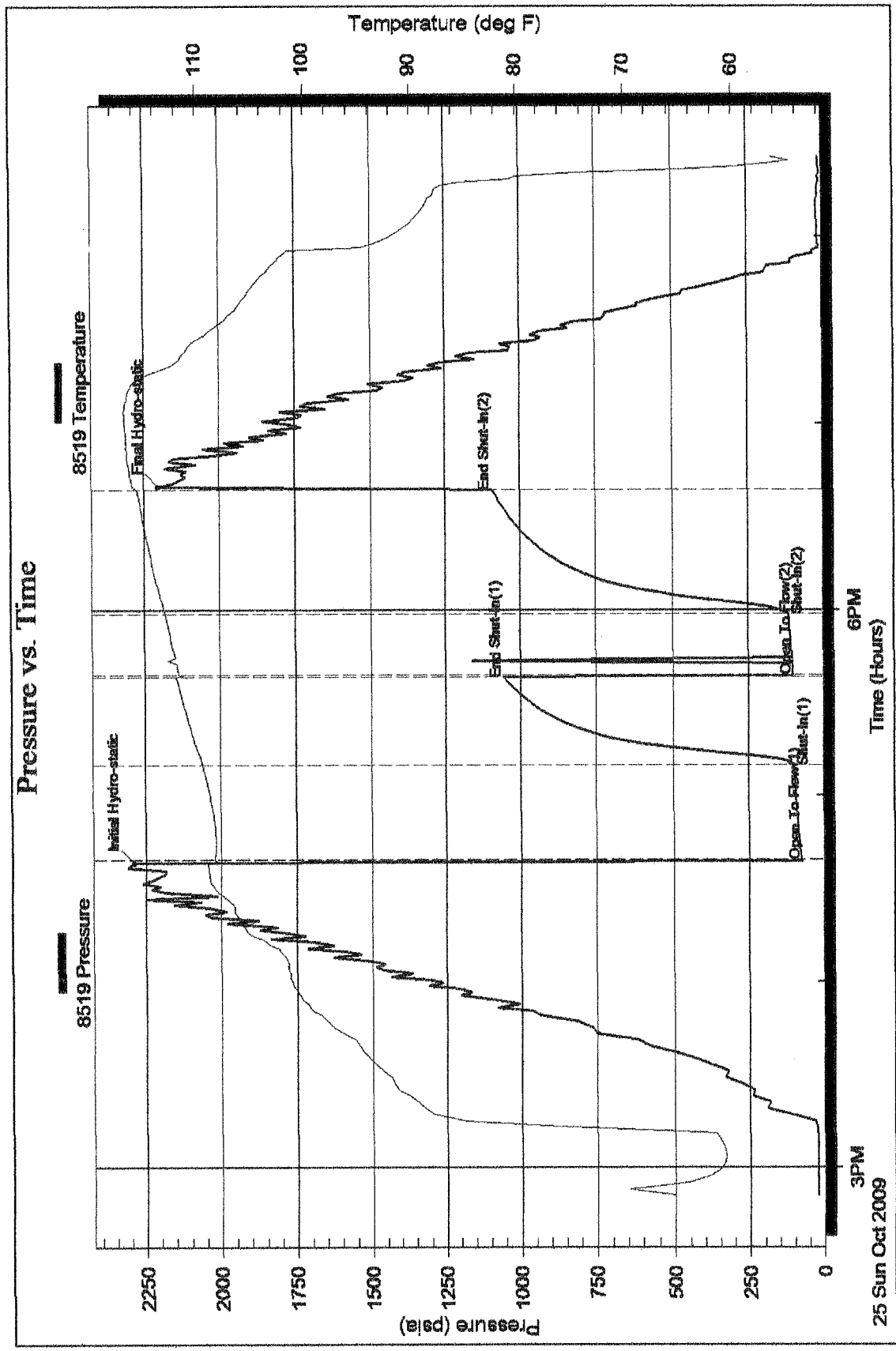
6PM

Serial #: 8519

Outside S & W OIL & GAS L.L.C

14-9-36W THOMAS

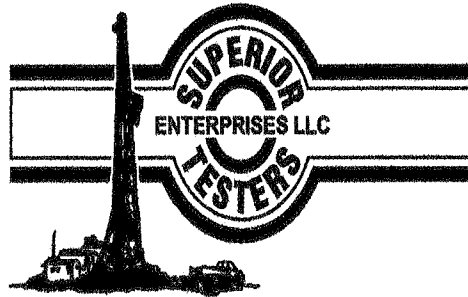
DST Test Number: 3



Printed: 2009.10.25 @ 20:43:51

Ref. No: 16468

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **S & W OIL & GAS L.L.C**

3540 W DOUGLES #3
WICHITA KS 67203

ATTN: MIKE ENGELBRECHT

14-9-36W THOMAS

KECK #1-14

Start Date: 2009.10.26 @ 23:10:00

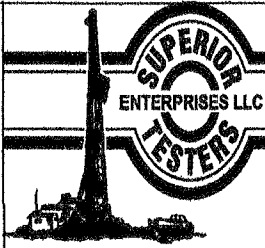
End Date: 2009.10.27 @ 06:16:30

Job Ticket #: 16469 DST #: 4

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

Printed: 2009.10.27 @ 06:34:38

S & W OIL & GAS L.L.C
KECK #1-14
14-9-36W THOMAS
DST # 4
CK-JOHNSON
2009.10.26



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16469

DST#: 4

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.26 @ 23:10:00

GENERAL INFORMATION:

Formation: **CK- JOHNSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:30

Time Test Ended: 06:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-80-SCOTT CITY

Interval: **4684.00 ft (KB) To 4755.00 ft (KB) (TVD)**

Reference Elevations: 3399.00 ft (KB)

Total Depth: 4755.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GRV/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 87.97 psia @ 4750.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.26

End Date:

2009.10.27

Last Calib.:

2009.10.27

Start Time: 23:10:00

End Time:

06:16:30

Time On Btm:

2009.10.27 @ 01:06:00

Time Off Btm:

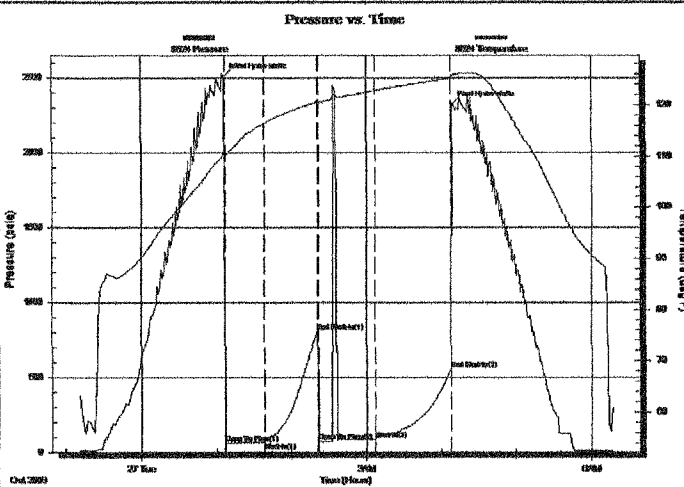
2009.10.27 @ 04:08:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 1/4 INCHES INTO BUCKET IN 30 MINUTES

45/INITIAL SHUT IN:NO BLOW BACK

45/FINAL OPEN:VERY WEAK SURGE DIED OFF 10 MINUTES INTO OPEN FLUSHED TOOL GOOD SURGE DIED

60/FINAL SHUT IN :NO BLOW BACK



PRESSURE SUMMARY

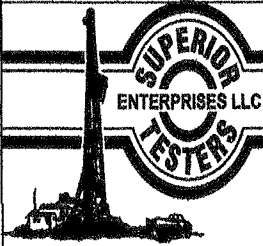
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2509.81	110.61	Initial Hydro-static
1	61.07	110.15	Open To Flow (1)
33	69.88	116.46	Shut-In(1)
75	804.43	120.62	End Shut-In(1)
76	71.20	120.48	Open To Flow (2)
121	87.97	122.86	Shut-In(2)
182	553.27	125.25	End Shut-In(2)
183	2319.70	125.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	S O CUT MUD 5%O 90%M	0.05

Gas Rates

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



DRILL STEM TEST REPORT

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16469

DST#: 4

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.26 @ 23:10:00

GENERAL INFORMATION:

Formation: **CK- JOHNSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:30

Time Test Ended: 06:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-80-SCOTT CITY

Interval: **4684.00 ft (KB) To 4755.00 ft (KB) (TVD)**

Reference Elevations: 3399.00 ft (KB)

Total Depth: 4755.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **8419**

Outside

Press@RunDepth: 554.55 psia @ 4750.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.26

End Date:

2009.10.27

Last Calib.: 2009.10.27

Start Time: 23:10:00

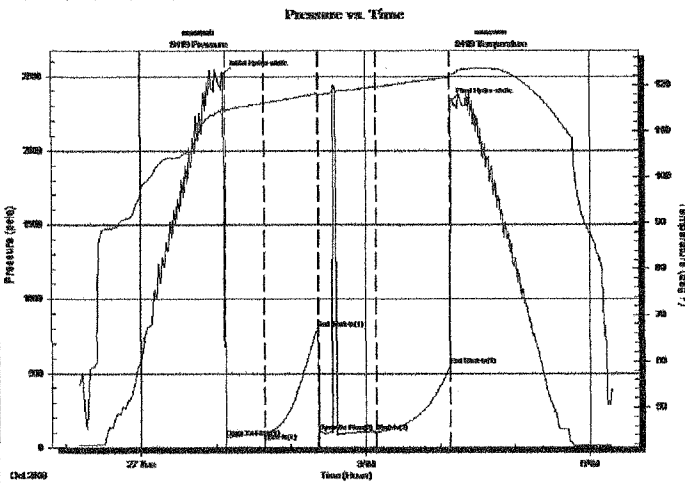
End Time:

06:18:00

Time On Btm: 2009.10.27 @ 01:06:30

Time Off Btm: 2009.10.27 @ 04:08:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 1/4 INCHES INTO BUCKET IN 30 MINUTES
45/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:VERY WEAK SURGE DIED OFF 10 MINUTES INTO OPEN FLUSHED TOOL GOOD SURGE DIED
60/FINAL SHUT IN :NO BLOW BACK



PRESSURE SUMMARY

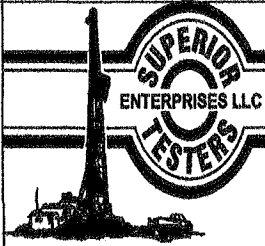
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2514.21	114.98	Initial Hydro-static
1	69.26	114.53	Open To Flow (1)
32	99.23	116.12	Shut-In(1)
75	803.07	118.08	End Shut-In(1)
76	105.85	117.92	Open To Flow (2)
122	103.60	119.60	Shut-In(2)
182	554.55	121.69	End Shut-In(2)
182	2324.69	122.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	S O CUT MUD 5%O 90%M	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16469

DST#: 4

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.26 @ 23:10:00

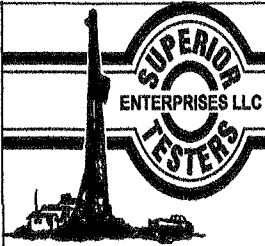
Tool Information

Drill Pipe:	Length: 4112.00 ft	Diameter: 3.80 inches	Volume: 57.68 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 60.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4684.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4664.00	
Shut-In Tool	5.00			4669.00	
Hydrolic Tool	5.00			4674.00	
Packer	5.00			4679.00	21.00 Bottom Of Top Packer
Packer	5.00			4684.00	
Perforations	33.00			4717.00	
Change Over Sub	0.75			4717.75	
Drill Pipe	31.50			4749.25	
Change Over Sub	0.75			4750.00	
Recorder	0.00	8524	Inside	4750.00	
Recorder	0.00	8419	Outside	4750.00	
Bullnose	5.00			4755.00	71.00 Bottom Packers & Anchor

Total Tool Length: 92.00



DRILL STEM TEST REPORT

FLUID SUMMARY

S & W OIL & GAS L.L.C

KECK #1-14

3540 W DOUGLES #3
WICHITA KS 67203

14-9-36W THOMAS

Job Ticket: 16469

DST#: 4

ATTN: MIKE ENGELBRECHT

Test Start: 2009.10.26 @ 23:10:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	S O CUT MUD 5%O 90%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

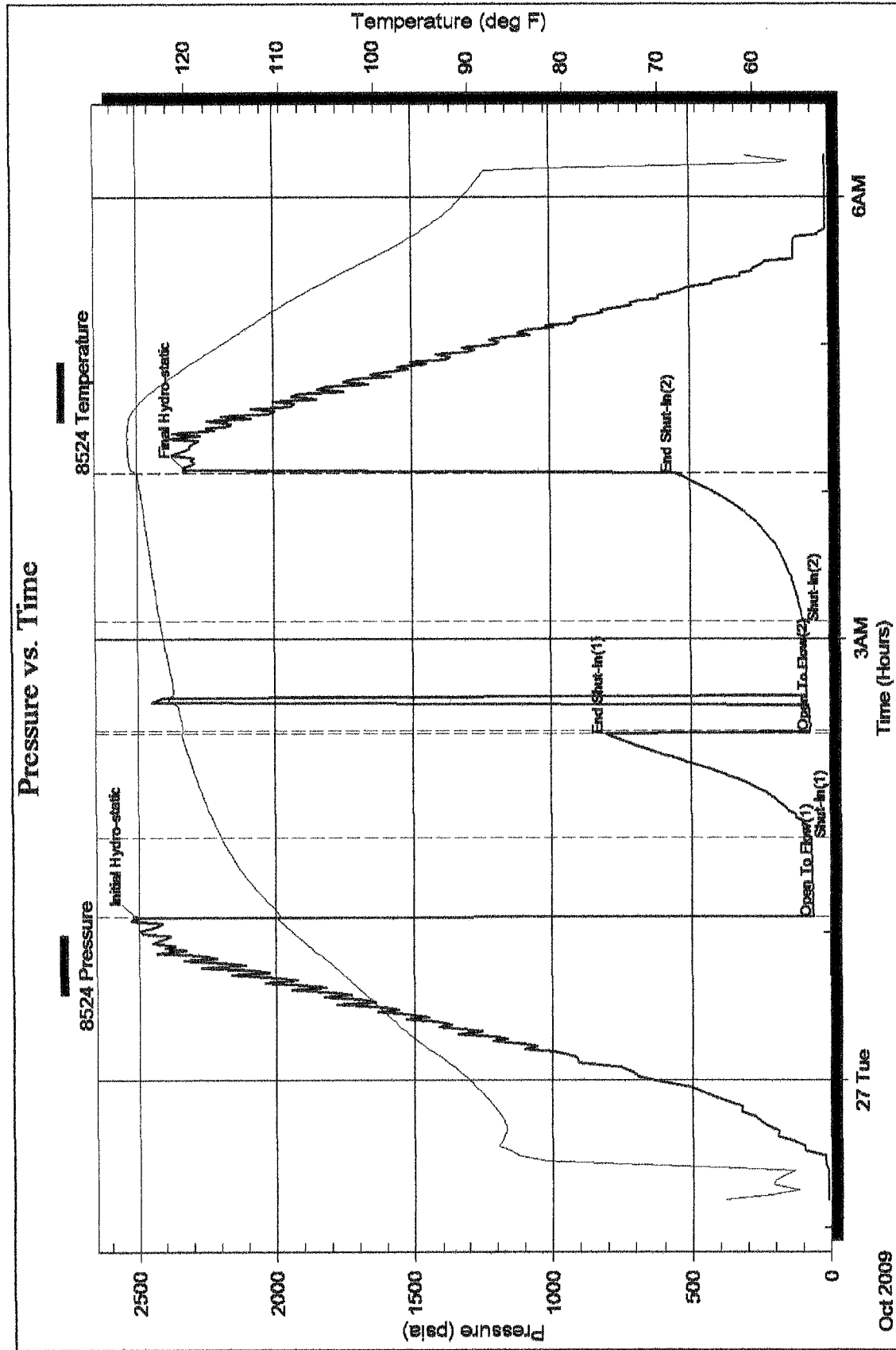
14-9-36W THOMAS

S & W OIL & GAS L.L.C

Inside

Serial #: 8524

Pressure vs. Time



Printed: 2009.10.27 @ 06:34:40

Ref. No: 16469

Superior Testers Enterprises LLC

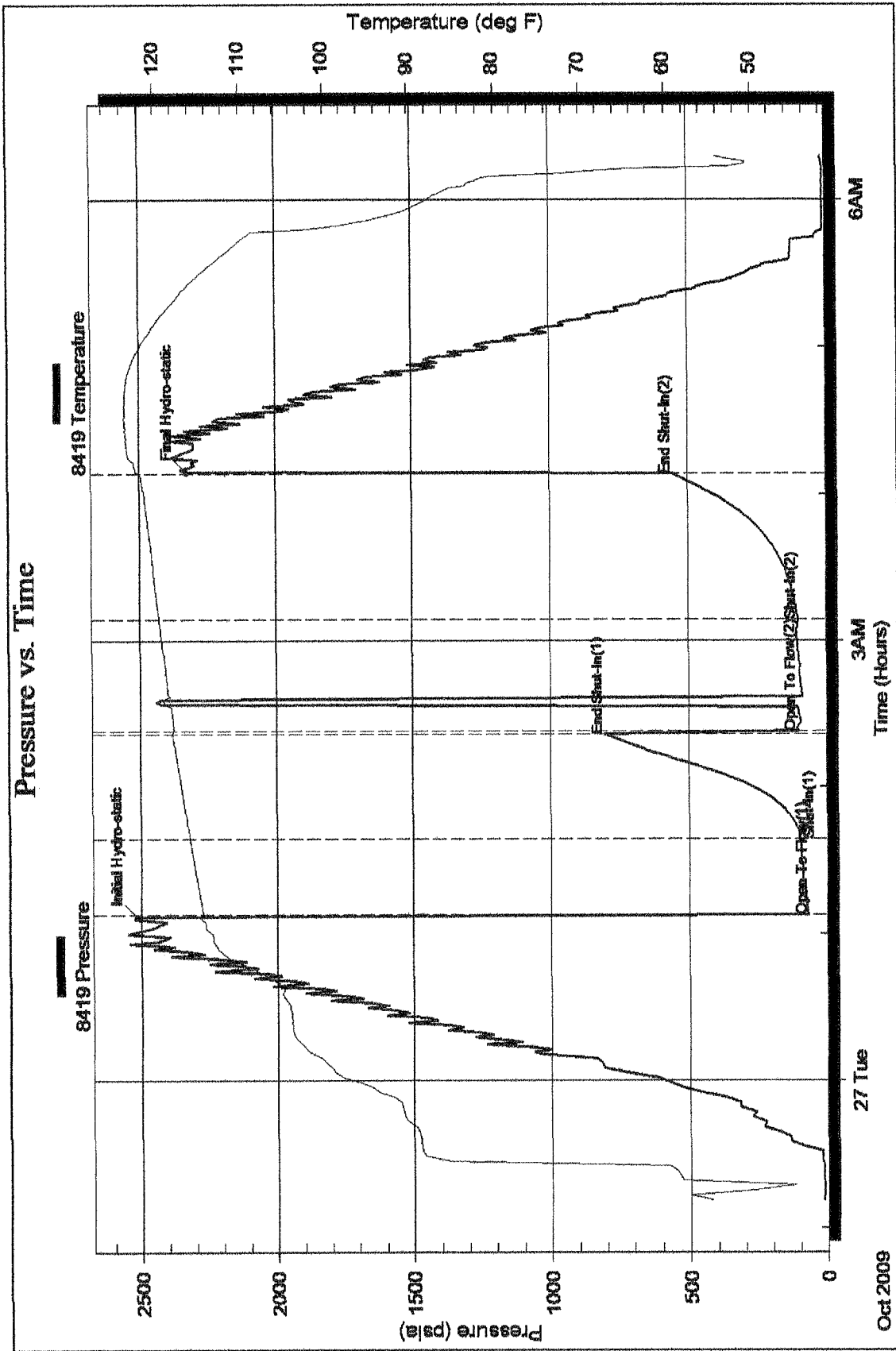
DST Test Number: 4

14-9-36W THOMAS

Outside S & W OIL & GAS L.L.C

Serial #: 8419

Pressure vs. Time



Printed: 2009.10.27 @ 06:34:40

Ref. No: 16469

Superior Testers Enterprises LLC