

15-109-20869

36-13s-32w



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67278

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.07 @ 22:08:00

End Date: 2009.11.08 @ 05:40:30

Job Ticket #: 16474 DST #: 1

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

Printed: 2009.11.12 @ 10:22:25

RITCHIE EXPLORATION INC
STUCKEY 36D#2
36-13-32W LOGAN
DST # 1
LANSING "C"
2009.11.07



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

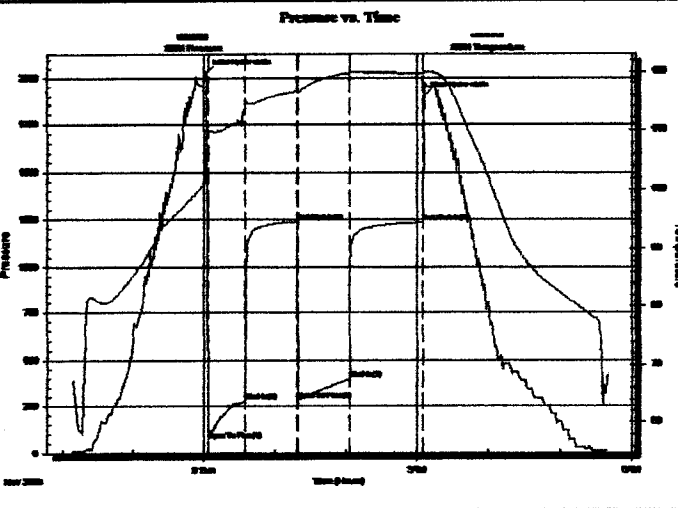
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16474 DST#: 1
 Test Start: 2009.11.07 @ 22:08:00

GENERAL INFORMATION:

Formation: **LANSING "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:04:00
 Time Test Ended: 05:40:30
 Interval: 3975.00 ft (KB) To 4005.00 ft (KB) (TVD)
 Total Depth: 4005.00 ft (KB) (TVD)
 Hole Diameter: 6.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 Inside
 Press@RunDepth: 399.26 psia @ 4000.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.07 End Date: 2009.11.08 Last Calib.: 2009.11.08
 Start Time: 22:09:00 End Time: 05:40:30 Time On Btm: 2009.11.08 @ 00:02:00
 Time Off Btm: 2009.11.08 @ 03:06:00

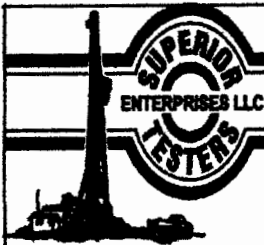
TEST COMMENT: 30?INITIAL OPEN:FAIR BLOW BUILT 1 INCH FROM THE BOTTOM OF BUCKET IN 30 MINUTES
 45?INITIAL SHUT IN:NO BLOW BACK
 45?FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 8 MINUTES
 60?FINAL SHUT IN:VERY WEAK SURFACE BLOW



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2029.72	107.51	Initial Hydro-static
2	71.82	109.72	Open To Flow (1)
33	277.92	114.05	Shut-In(1)
77	1237.33	116.58	End Shut-In(1)
78	287.22	116.38	Open To Flow (2)
121	399.26	119.69	Shut-In(2)
183	1233.95	119.67	End Shut-In(2)
184	1900.09	119.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
190.00	O C MW 10%O 10%M 80%W	0.93
380.00	SGO C W 5%G 10%W 85%O	1.87
190.00	SGO C M 5%G 30%M 65%O	2.56
215.00	CLEAN G OIL 15%G 85%O	3.02
380.00	GAS IN PIPE 100%	5.33

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16474 DST#: 1
 Test Start: 2009.11.07 @ 22:08:00

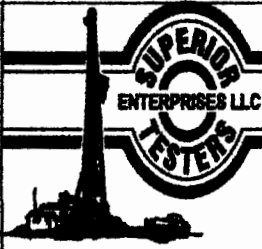
Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 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: 78000.00 lb
			<u>Total Volume: 50.31 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3975.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	53.00 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			3953.00	
Shut-in Tool	5.00			3958.00	
Hydraulic Tool	5.00			3963.00	
Safety Joint	2.00			3965.00	
Packer	5.00			3970.00	23.00 Bottom Of Top Packer
Packer	5.00			3975.00	
Perforations	25.00			4000.00	
Recorder	0.00	8524	Inside	4000.00	
Recorder	0.00	8419	Outside	4000.00	
Bullnose	5.00			4005.00	30.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16474 DST#: 1
 Test Start: 2009.11.07 @ 22:08:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	49 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	O C M W 10%O 10%M 80%W	0.934
380.00	SGO C W 5%G 10%W 85%O	1.869
190.00	SGO C M 5%G 30%M 65%O	2.556
215.00	CLEAN G OIL 15%G 85%O	3.018
380.00	GAS IN PIPE 100%	5.330

Total Length: 1355.00 ft Total Volume: 13.705 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: GRAVITY OIL 49 CHLORIDES 38,000

Serial #: 8524

Inside

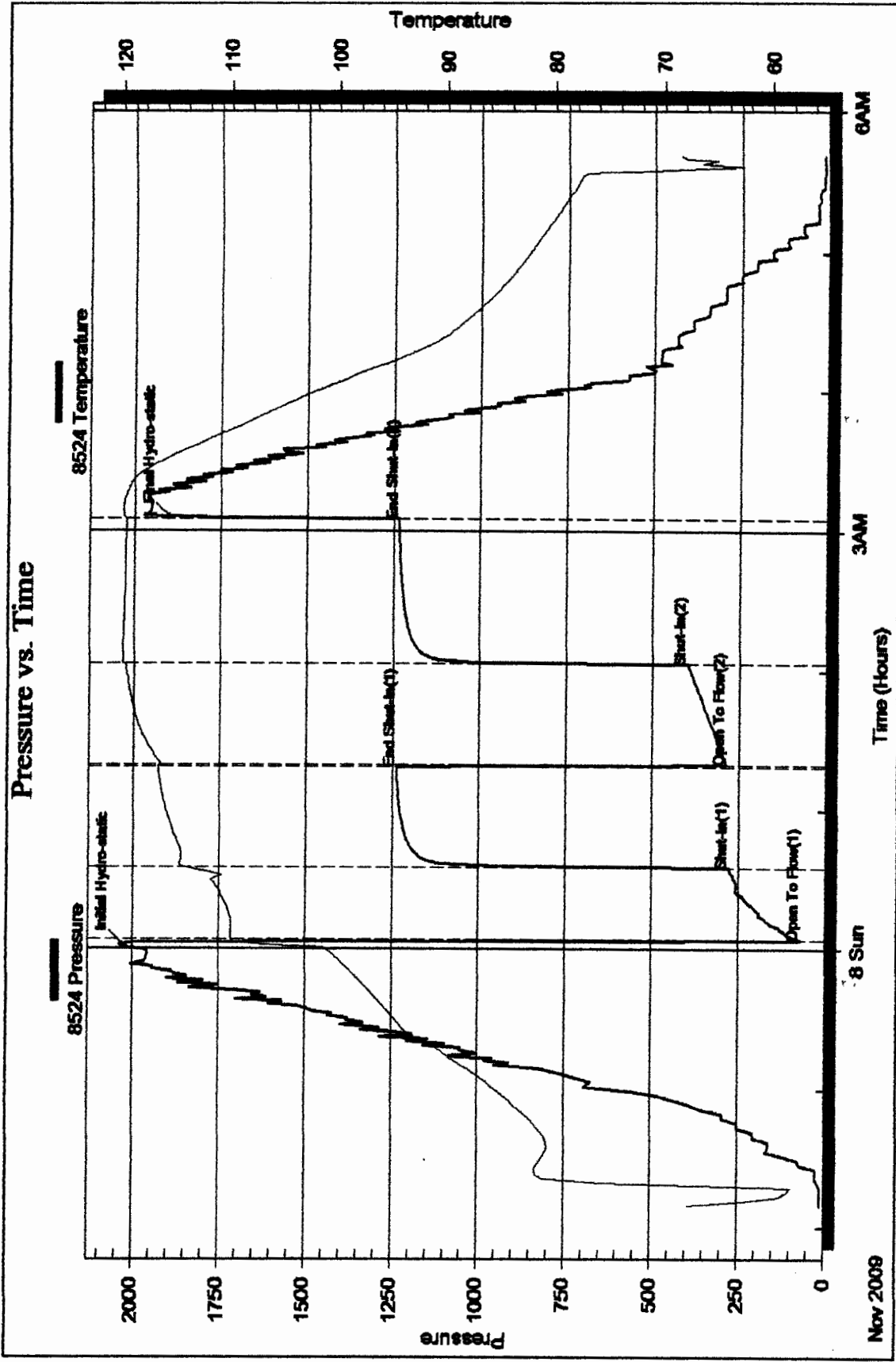
RITCHEXPLORATION INC

36-13-32W

LOGAN

DST Test Number: 1

Pressure vs. Time



Printed: 2009.11.12 @ 10:22:28

Ref. No: 16474

Superior Testers Enterprises LLC

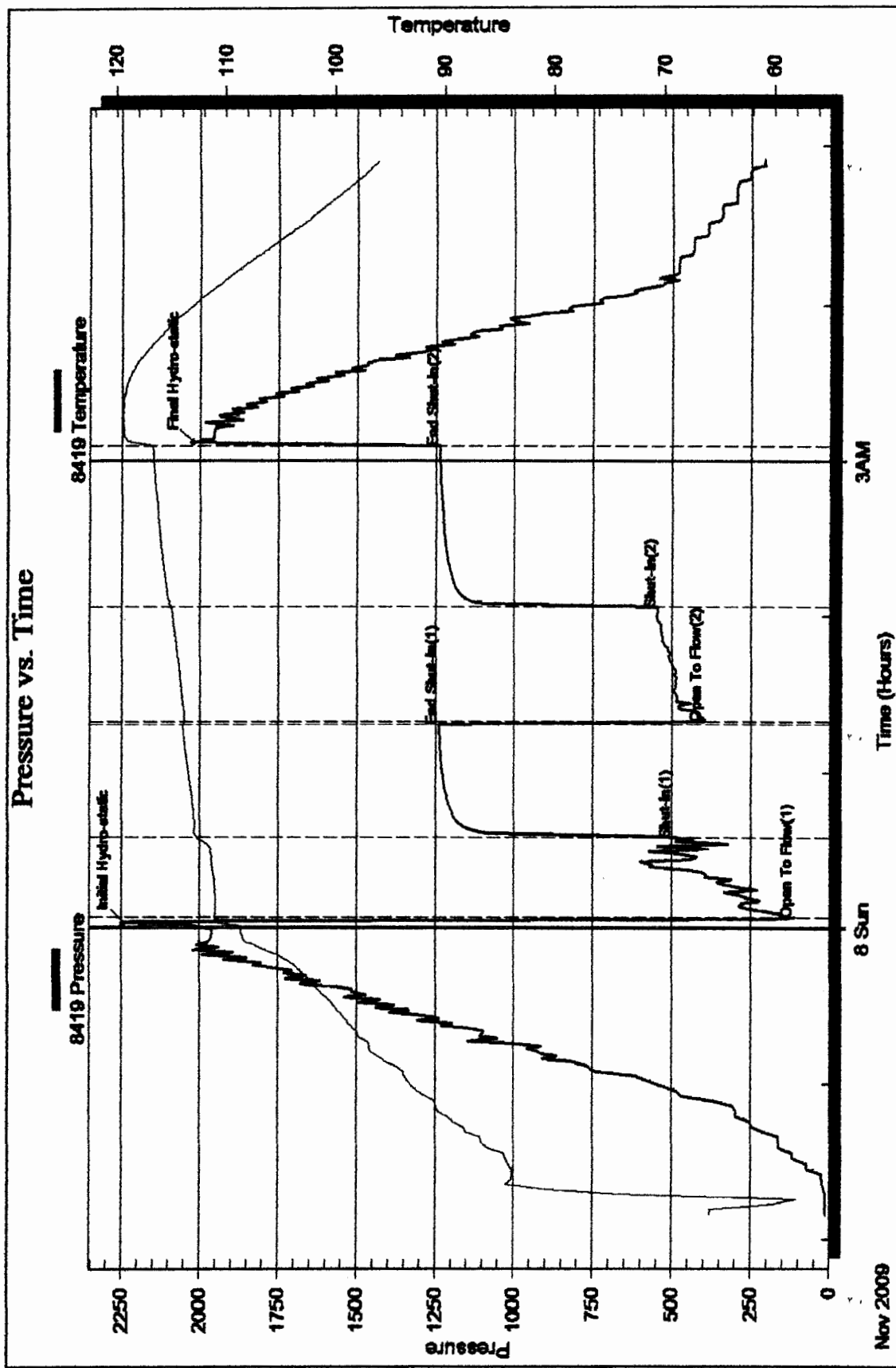
DST Test Number: 1

36-13-32W LOGAN

Outside RITCHE EXPLORATION INC

Serial #: 8419

Pressure vs. Time



Printed: 2009.11.12 @ 10:22:28

Ref. No: 16474

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.08 @ 13:28:00

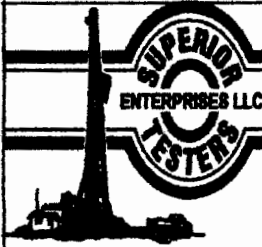
End Date: 2009.11.08 @ 21:00:00

Job Ticket #: 16475 DST #: 2

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

Printed: 2009.11.12 @ 10:20:51

RITCHIE EXPLORATION INC
STUCKEY 36D#2
36-13-32W LOGAN
DST # 2
LANSING "E"
2009.11.08



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67278
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16475 DST#: 2
 Test Start: 2009.11.08 @ 13:28:00

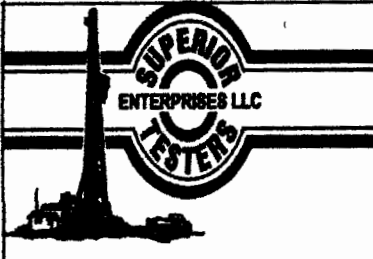
Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 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: 80000.00 lb
			<u>Total Volume: 51.20 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4023.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	42.00 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			4001.00	
Shut-In Tool	5.00			4006.00	
Hydraulic Tool	5.00			4011.00	
Safety Joint	2.00			4013.00	
Packer	5.00			4018.00	23.00 Bottom Of Top Packer
Packer	5.00			4023.00	
Perforations	14.00			4037.00	
Recorder	0.00	8524	Inside	4037.00	
Recorder	0.00	8419	Outside	4037.00	
Bullnose	5.00			4042.00	19.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC
B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276
ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
Job Ticket: 16475 DST#: 2
Test Start: 2009.11.08 @ 13:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.95 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: 1.00 inches

Cushion Type: Oil API: 46 deg API
Cushion Length: ft Water Satinity: ppm
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1425.00	CLEAN GASSEY OIL 10%G 90%O	14.687
950.00	GAS IN PIPE	13.326

Total Length: 2375.00 ft Total Volume: 28.013 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: GRAVITY 46

DST Test Number: 2

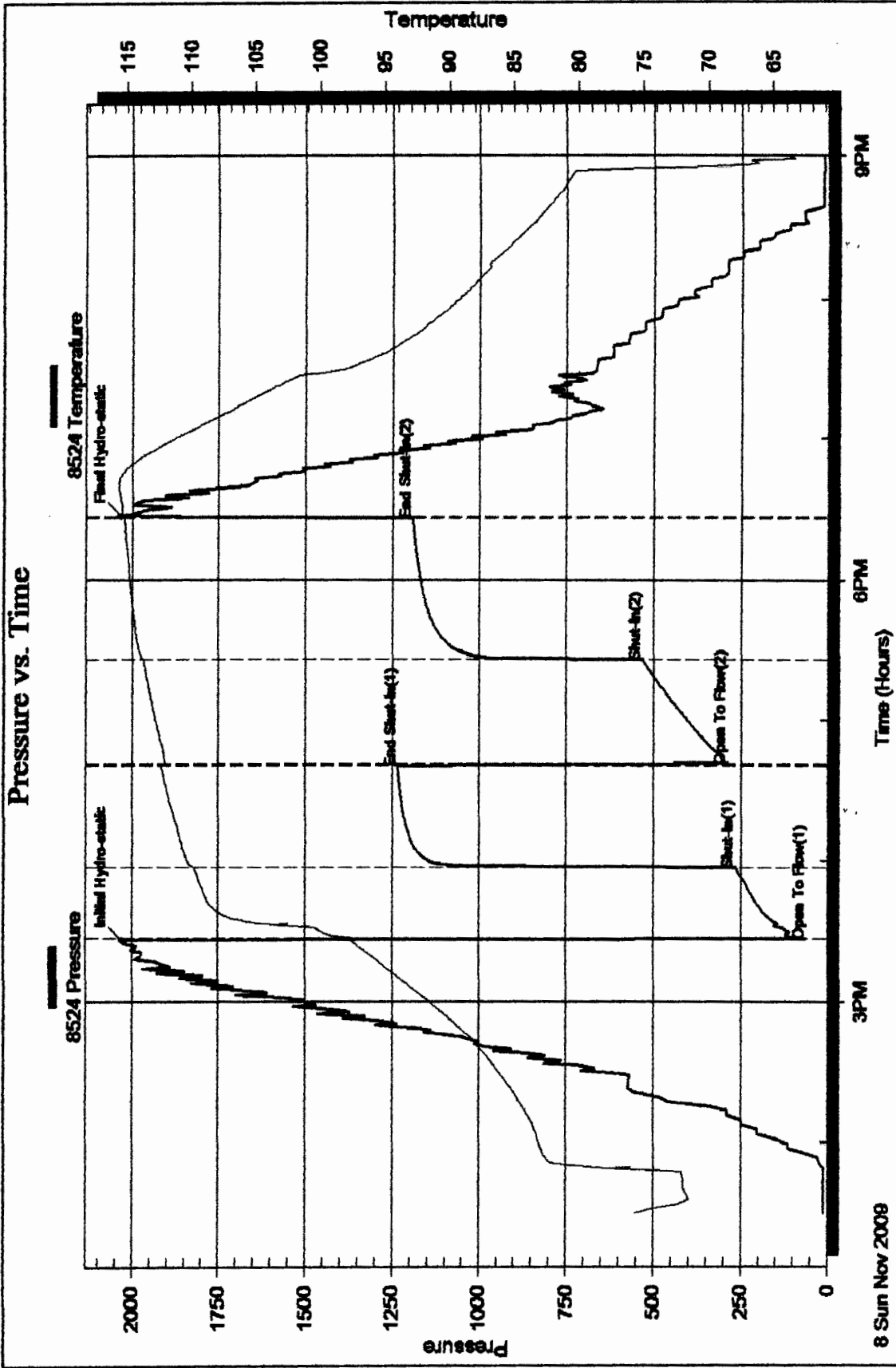
36-13-32W LOGAN

RITCHE EXPLORATION INC

Inside

Serial #: 8524

Pressure vs. Time



8 Sun Nov 2009

Printed: 2009.11.12 @ 10:20:52

Ref. No: 16475

Superior Testers Enterprises LLC

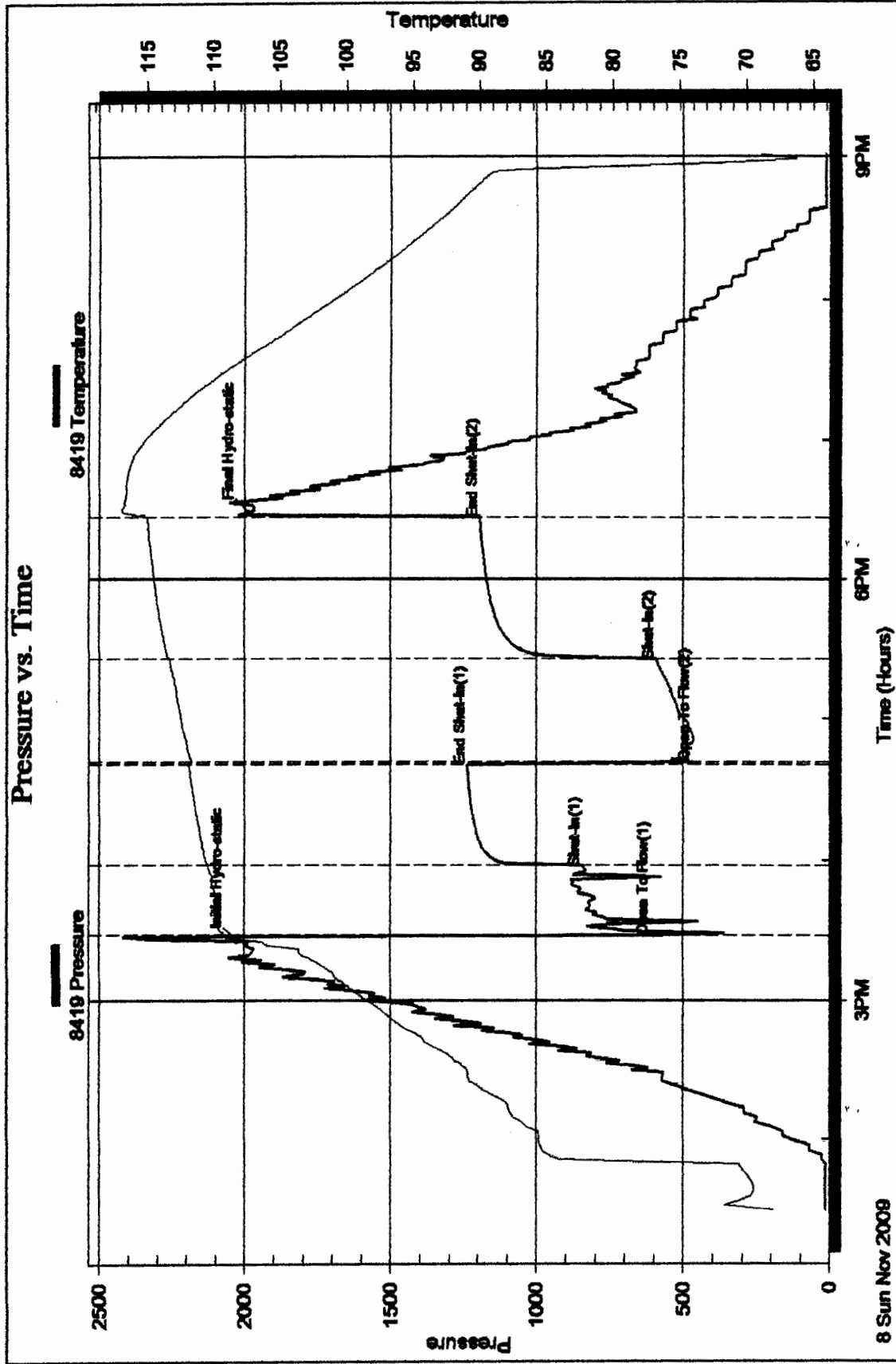
DST Test Number: 2

36-13-32W LOGAN

Outside RITCHE EXPLORATION INC

Serial #: 8419

Pressure vs. Time



Printed: 2008.11.12 @ 10:20:52

Ref. No: 16475

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.09 @ 09:44:00

End Date: 2009.11.09 @ 17:41:00

Job Ticket #: 16176 DST #: 3

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

Printed: 2009.11.12 @ 10:20:30

RITCHIE EXPLORATION INC

STUCKEY 36D#2

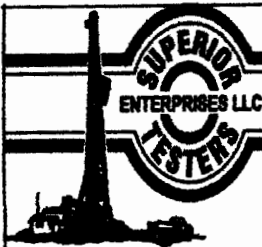
36-13-32W

LOGAN

DST # 3

LANISING "H"

2009.11.09



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

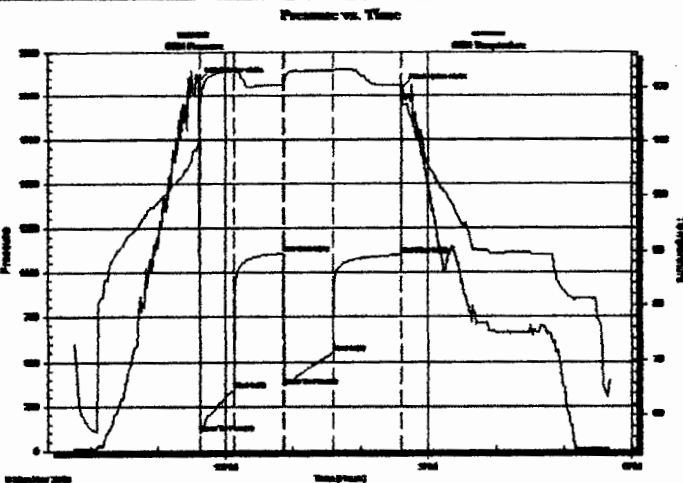
STUCKEY 38D#2
36-13-32W LOGAN
 Job Ticket: 16176 DST#: 3
 Test Start: 2009.11.09 @ 09:44:00

GENERAL INFORMATION:

Formation: **LANSING "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:37:30
 Time Test Ended: 17:41:00
 Interval: **4108.00 ft (KB) To 4134.00 ft (KB) (TVD)**
 Total Depth: **4134.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8524** Inside
 Press@RunDepth: **552.18 psia @ 4129.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.11.09** End Date: **2009.11.09** Last Calib.: **2009.11.09**
 Start Time: **09:45:00** End Time: **17:41:00** Time On Btrc: **2009.11.09 @ 11:36:30**
 Time Off Btrc: **2009.11.09 @ 14:37:30**

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN :BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 60/FINAL SHUT IN :BOTTOM OF BUCKET



PRESSURE SUMMARY

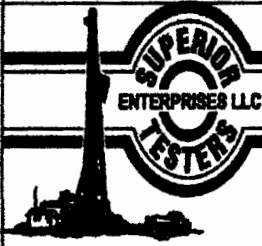
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2086.89	109.70	Initial Hydro-static
1	101.33	116.25	Open To Flow (1)
31	346.58	123.29	Shut-In(1)
75	1110.39	120.50	End Shut-In(1)
76	364.14	121.08	Open To Flow (2)
119	552.18	123.31	Shut-In(2)
180	1099.79	120.52	End Shut-In(2)
181	2044.66	116.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	OM CTW 5%W 30%O 65%M	0.47
1425.00	CLEAN GASSEY OIL 20%G 80%O	15.55
1990.00	GAS IN PIPE	27.91

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

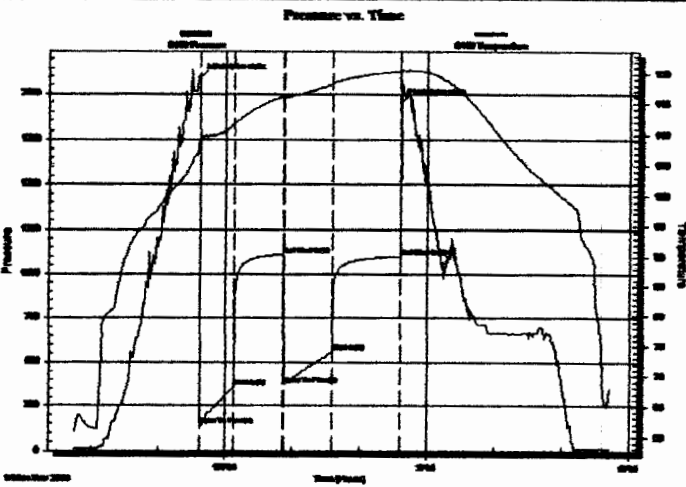
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16176 DST#: 3
 Test Start: 2009.11.09 @ 09:44:00

GENERAL INFORMATION:

Formation: **LANSING "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:37:30
 Time Test Ended: 17:41:00
 Interval: **4108.00 ft (KB) To 4134.00 ft (KB) (TVD)**
 Total Depth: **4134.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **JARED SCHECK**
 Unit No: **3320-50-SCOTT CITY**
 Reference Elevations: **2938.00 ft (KB)**
2928.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8419 Outside
 Press@RunDepth: **1101.59 psia @ 4129.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.11.09** End Date: **2009.11.09** Last Calib.: **2009.11.09**
 Start Time: **09:45:00** End Time: **17:44:00** Time On Btrm: **2009.11.09 @ 11:37:00**
 Time Off Btrm: **2009.11.09 @ 14:37:00**

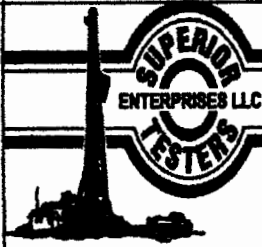
TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN :BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 60/FINAL SHUT IN :BOTTOM OF BUCKET



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2092.27	109.51	Initial Hydro-static
1	139.63	109.28	Open To Flow (1)
31	358.04	111.52	Shut-in(1)
75	1112.84	116.05	End Shut-in(1)
76	375.42	115.82	Open To Flow (2)
119	558.12	118.13	Shut-in(2)
180	1101.59	120.35	End Shut-in(2)
180	1950.63	120.77	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
95.00	OM CT W 5%W 30%O 65%M	0.47
1425.00	CLEAN GASSEY OIL 20%G 80%O	15.55
1990.00	GAS IN PIPE	27.91

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16176 DST#: 3
 Test Start: 2009.11.09 @ 09:44:00

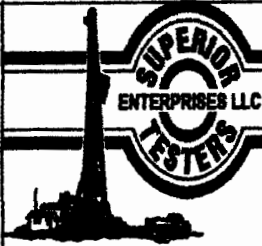
Tool Information

Drill Pipe:	Length: 3510.00 ft	Diameter: 3.80 inches	Volume: 49.24 bbl	Tool Weight: 10000.00 lb
Heavy WL 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: 80000.00 lb
			<u>Total Volume: 52.10 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4108.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 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			4086.00	
Shut-in Tool	5.00			4091.00	
Hydraulic Tool	5.00			4096.00	
Safety Joint	2.00			4098.00	
Packer	5.00			4103.00	23.00 Bottom Of Top Packer
Packer	5.00			4108.00	
Perforations	21.00			4129.00	
Recorder	0.00	8524	Inside	4129.00	
Recorder	0.00	8419	Outside	4129.00	
Bullnose	5.00			4134.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RTCHIE EXPLORATION INC
B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276
ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
Job Ticket: 16176 DST#: 3
Test Start: 2009.11.09 @ 09:44:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	48 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.55 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	OM CT W 5%W 30%O 65%M	0.467
1425.00	CLEAN GASSEY OIL 20%G 80%O	15.553
1990.00	GAS IN PIPE	27.914

Total Length: 3510.00 ft Total Volume: 43.934 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: CHLORIDES 15,000

Serial #: 8524

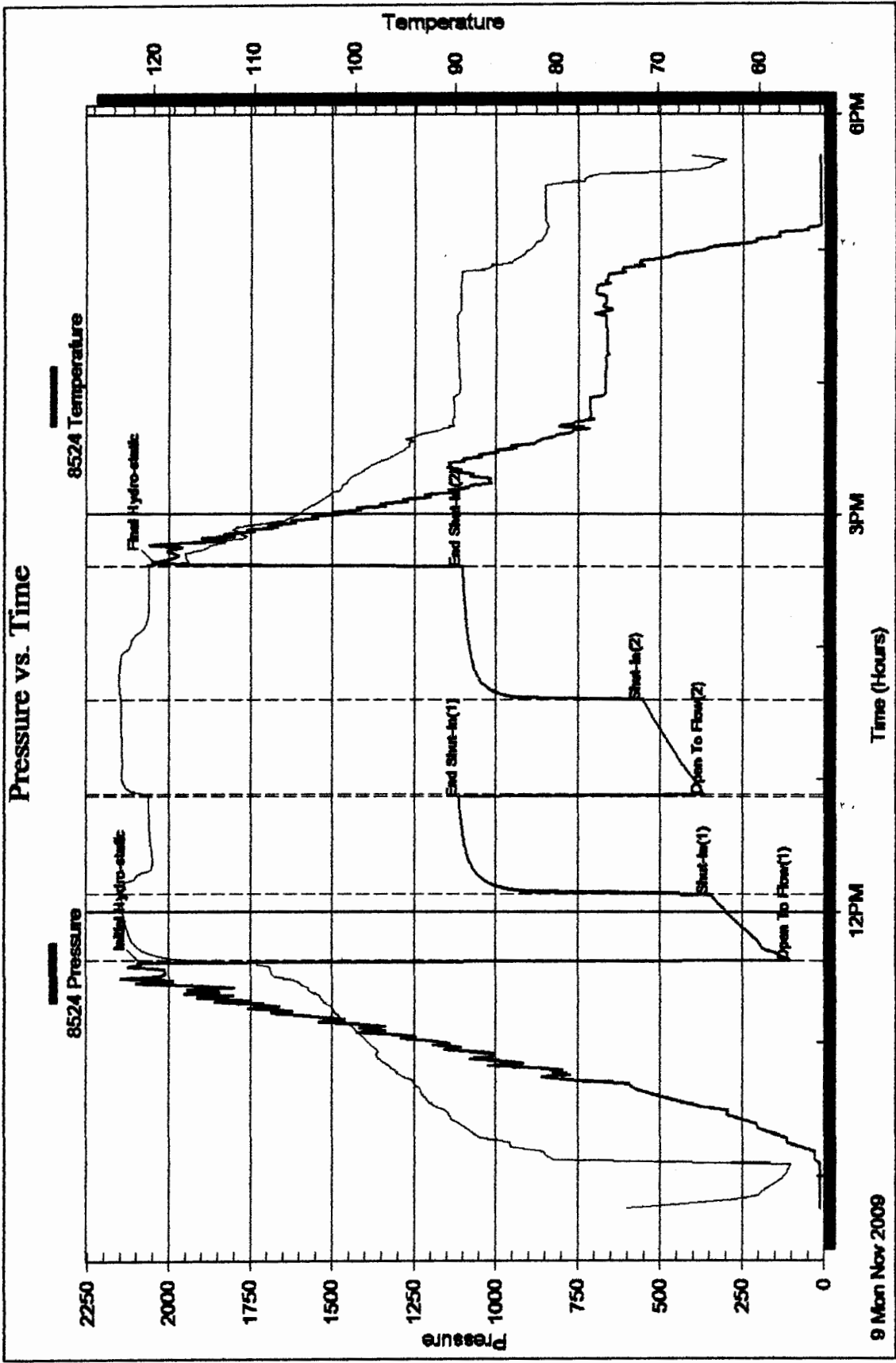
Inside

RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 3

Pressure vs. Time



Printed: 2009.11.12 @ 10:20:31

Ref. No: 16176

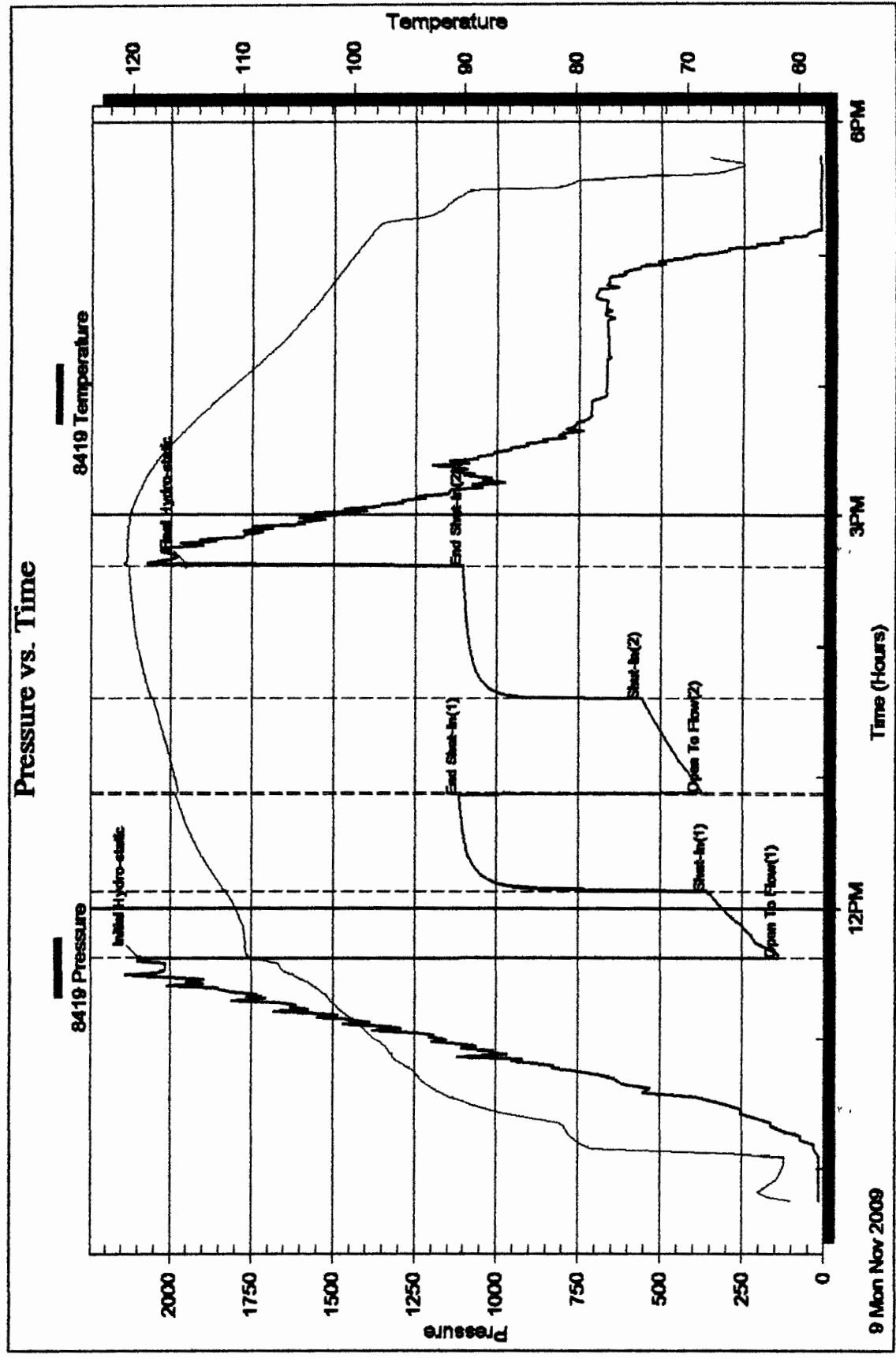
Superior Testers Enterprises LLC

Serial #: 8419

Outside RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 3



Printed: 2008.11.12 @ 10:20:31

Ref. No: 16176

Superior Testers Enterprises LLC

9 Mon Nov 2009



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.10 @ 00:53:00

End Date: 2009.11.10 @ 08:23:00

Job Ticket #: 16177 DST #: 4

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

Printed: 2009.11.12 @ 10:17:47

RITCHIE EXPLORATION INC STUCKEY 36D#2 36-13-32W LOGAN DST # 4 LANSING "1" 2009.11.10



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67278
 ATTN: TERRY MCCLEOD

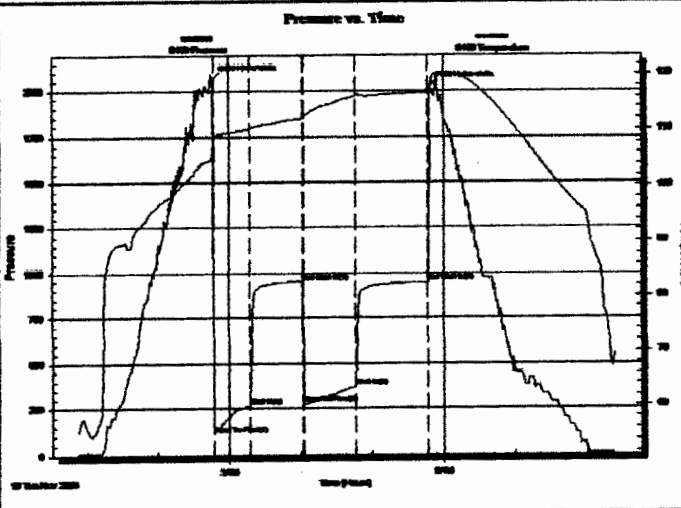
STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16177 DST#: 4
 Test Start: 2009.11.10 @ 00:53:00

GENERAL INFORMATION:

Formation: LANSING "1"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:47:00
 Time Test Ended: 08:23:00
 Interval: 4142.00 ft (KB) To 4168.00 ft (KB) (TVD)
 Total Depth: 4168.00 ft (KB) (TVD)
 Hole Diameter: 6.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8419 Outside
 Press@RunDepth: 949.67 psia @ 4163.00 ft (KB)
 Start Date: 2009.11.10 End Date: 2009.11.10
 Start Time: 00:53:00 End Time: 08:23:00
 Capacity: 5000.00 psia
 Last Calib.: 2009.11.10
 Time On Btm: 2009.11.10 @ 02:46:30
 Time Off Btm: 2009.11.10 @ 05:49:00

TEST COMMENT: 30/INITIAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES
 45/INITIAL SHUT IN: BOTTOM OF BUCKET
 45/FINAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES
 60/FINAL SHUT IN: BOTTOM OF BUCKET



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2065.36	108.05	Initial Hydro-static
1	115.06	108.77	Open To Flow (1)
31	266.33	110.09	Shut-in(1)
75	954.78	111.97	End Shut-in(1)
77	277.70	112.10	Open To Flow (2)
120	374.21	116.10	Shut-in(2)
181	949.67	116.70	End Shut-in(2)
183	2026.91	117.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	SG OIL CUT M 15%M 20%G 65%O	0.93
760.00	CLEAN GASSEY OIL 20%G 80%O	7.09
35.00	CLEAN GASSEY OIL 15%G 85%O	0.49
1865.00	GAS IN PIPE	26.16

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16177 DST#: 4
 Test Start: 2009.11.10 @ 00:53:00

Tool Information

Drill Pipe:	Length: 3543.00 ft	Diameter: 3.80 inches	Volume: 49.70 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: 52.56 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4142.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 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			4120.00	
Shut-In Tool	5.00			4125.00	
Hydraulic Tool	5.00			4130.00	
Safety Joint	2.00			4132.00	
Packer	5.00			4137.00	23.00 Bottom Of Top Packer
Packer	5.00			4142.00	
Perforations	21.00			4163.00	
Recorder	0.00	8524	Inside	4163.00	
Recorder	0.00	8419	Outside	4163.00	
Bullnose	5.00			4168.00	26.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67278
ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
Job Ticket: 16177 DST#: 4
Test Start: 2009.11.10 @ 00:53:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 48 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.54 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 2800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	SG OIL CUT M 15%M 20%G 65%O	0.934
760.00	CLEAN GASSEY OIL 20%G 80%O	7.090
35.00	CLEAN GASSEY OIL 15%G 85%O	0.491
1865.00	GAS IN PIPE	26.161

Total Length: 2850.00 ft Total Volume: 34.676 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8524

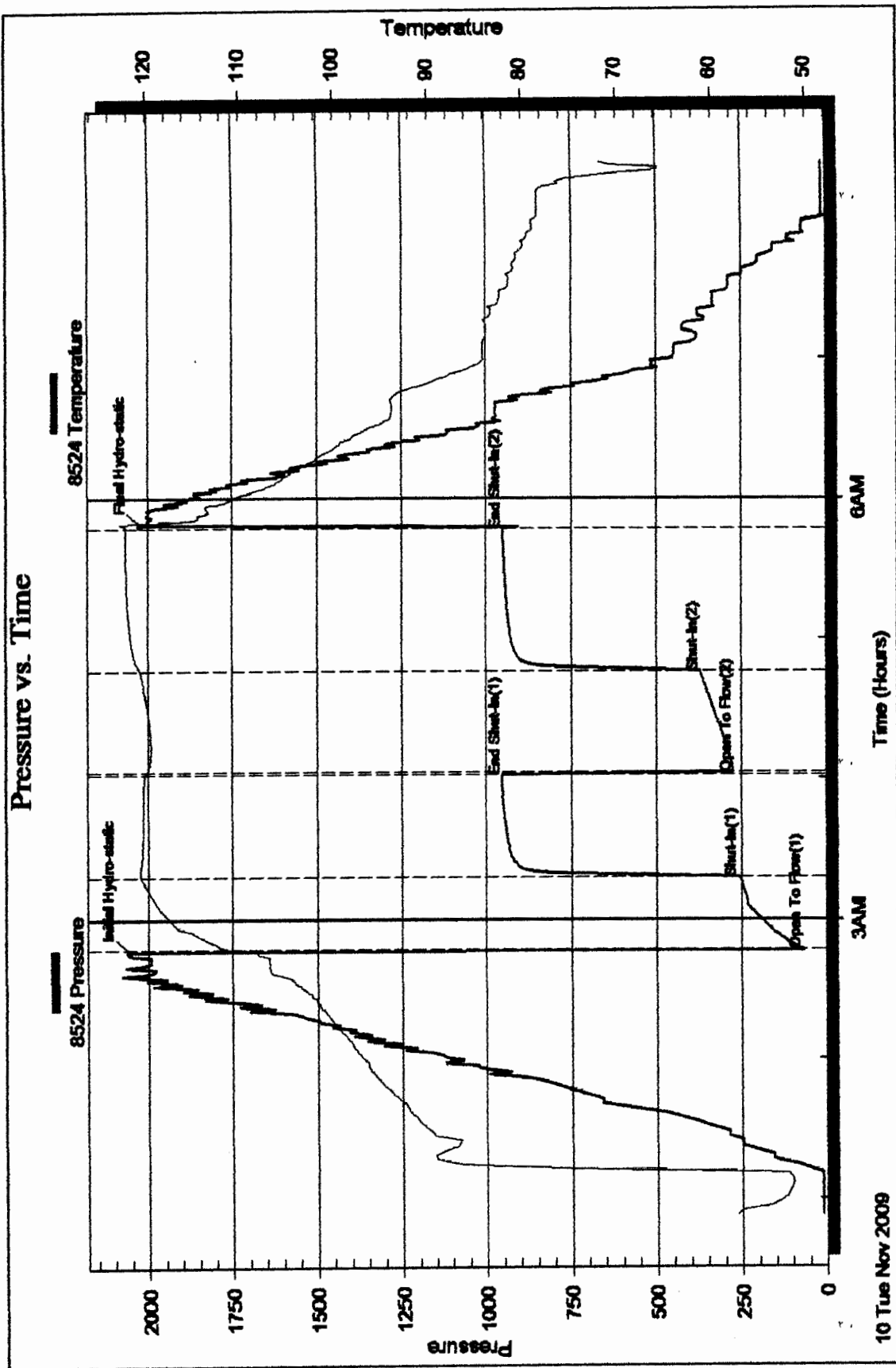
Inside

RITCHEX EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 4

Pressure vs. Time



Serial #: 8419

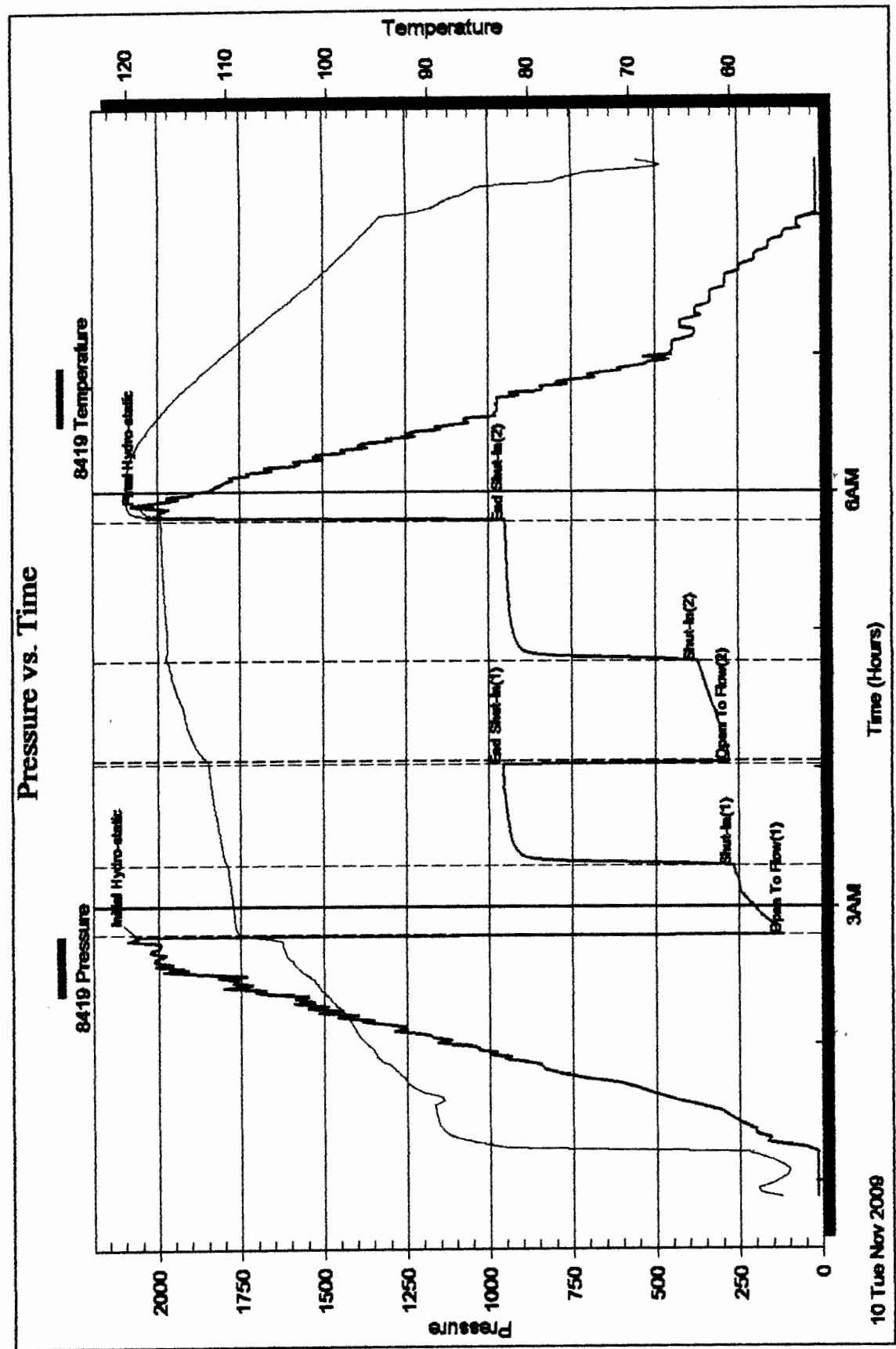
Outside

RITCHE EXPLORATION INC

38-13-32W LOGAN

DST Test Number: 4

Pressure vs. Time



10 Tue Nov 2009

3AM

Time (Hours)

6AM



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.10 @ 15:00:00

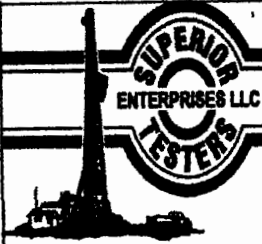
End Date: 2009.11.10 @ 21:41:00

Job Ticket #: 18178 DST #: 5

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

Printed: 2009.11.12 @ 10:15:31

RITCHIE EXPLORATION INC
STUCKEY 36D#2
36-13-32W LOGAN
DST # 5
LANSING "J"
2009.11.10



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

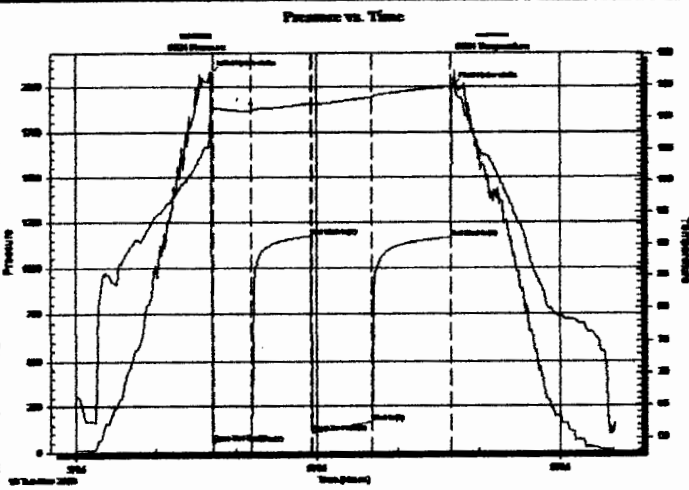
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16178 DST#: 6
 Test Start: 2009.11.10 @ 15:00:00

GENERAL INFORMATION:

Formation: **LANSING "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:43:00
 Tester: JARED SCHECK
 Time Test Ended: 21:41:00
 Unit No: 3320-50-SCOTT CITY
 Interval: **4171.00 ft (KB) To 4192.00 ft (KB) (TVD)**
 Reference Elevations: 2938.00 ft (KB)
 Total Depth: 4192.00 ft (KB) (TVD)
 2928.00 ft (CF)
 Hole Diameter: 6.88 inches
 Hole Condition: Poor
 KB to GR/CF: 10.00 ft

Serial #: **8524** Inside
 Press@RunDepth: 165.04 psia @ 4187.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.10 End Date: 2009.11.10 Last Calib.: 2009.11.10
 Start Time: 15:01:00 End Time: 21:41:00 Time On Btm: 2009.11.10 @ 16:42:00
 Time Off Btm: 2009.11.10 @ 19:41:00

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 12 MINUTES
 45/INITIAL SHUT IN:VERY WEAK SURFACE BLOW
 45/FINAL OPEN :STRONG BLOW BUILT BOTTOM OF BUCKET IN 12 MINUTES
 60/FINAL SHIT IN:3 INCHES FROM THE BOTTOM OF THE BUCKET



PRESSURE SUMMARY

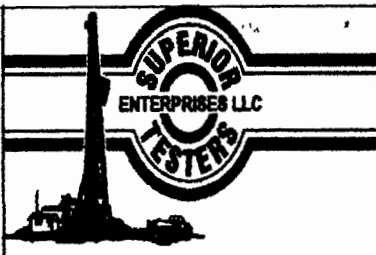
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2072.62	110.26	Initial Hydro-static
1	58.64	111.36	Open To Flow (1)
30	98.27	111.00	Shut-in(1)
74	1172.30	112.12	End Shut-in(1)
75	106.23	111.98	Open To Flow (2)
119	165.04	113.12	Shut-in(2)
178	1165.88	114.84	End Shut-in(2)
179	1998.58	115.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	OCT MUD 30%M 70%O	0.93
200.00	CLEAN GASSEY OIL 10%G 90%O	0.98

Gas Rates

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



DRILL STEM TEST REPORT TOOL DIAGRAM

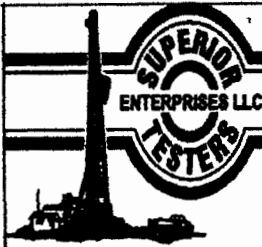
RITCHE EXPLORATION INC B100 E 22ND ST N #700 BOX 783188 WICHITA KS 67276 ATTN: TERRY MCCLEOD	STUCKEY 36D#2 36-13-32W LOGAN Job Ticket: 16178 DST#: 5 Test Start: 2009.11.10 @ 15:00:00
--	---

Tool Information

Drill Pipe: Length: 3573.00 ft	Diameter: 3.80 inches	Volume: 50.12 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
Total Volume: 52.98 bbl			Tool Chased: 6.00 ft
Drill Pipe Above KB: 7.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer: 4171.00 ft			Final 73000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 21.00 ft			
Tool Length: 44.00 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			4149.00	
Shut-In Tool	5.00			4154.00	
Hydraulic Tool	5.00			4159.00	
Safety Joint	2.00			4161.00	
Packer	5.00			4166.00	23.00 Bottom Of Top Packer
Packer	5.00			4171.00	
Perforations	16.00			4187.00	
Recorder	0.00	8524	Inside	4187.00	
Recorder	0.00	8419	Outside	4187.00	
Bullnose	5.00			4192.00	21.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16178 DST#: 5
 Test Start: 2009.11.10 @ 15:00:00

ATTN: TERRY MCCLEOD

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	48 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	OCT MUD 30%M 70%O	0.934
200.00	CLEAN GASSEY OIL 10%G 90%O	0.984

Total Length: 390.00 ft Total Volume: 1.918 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8524

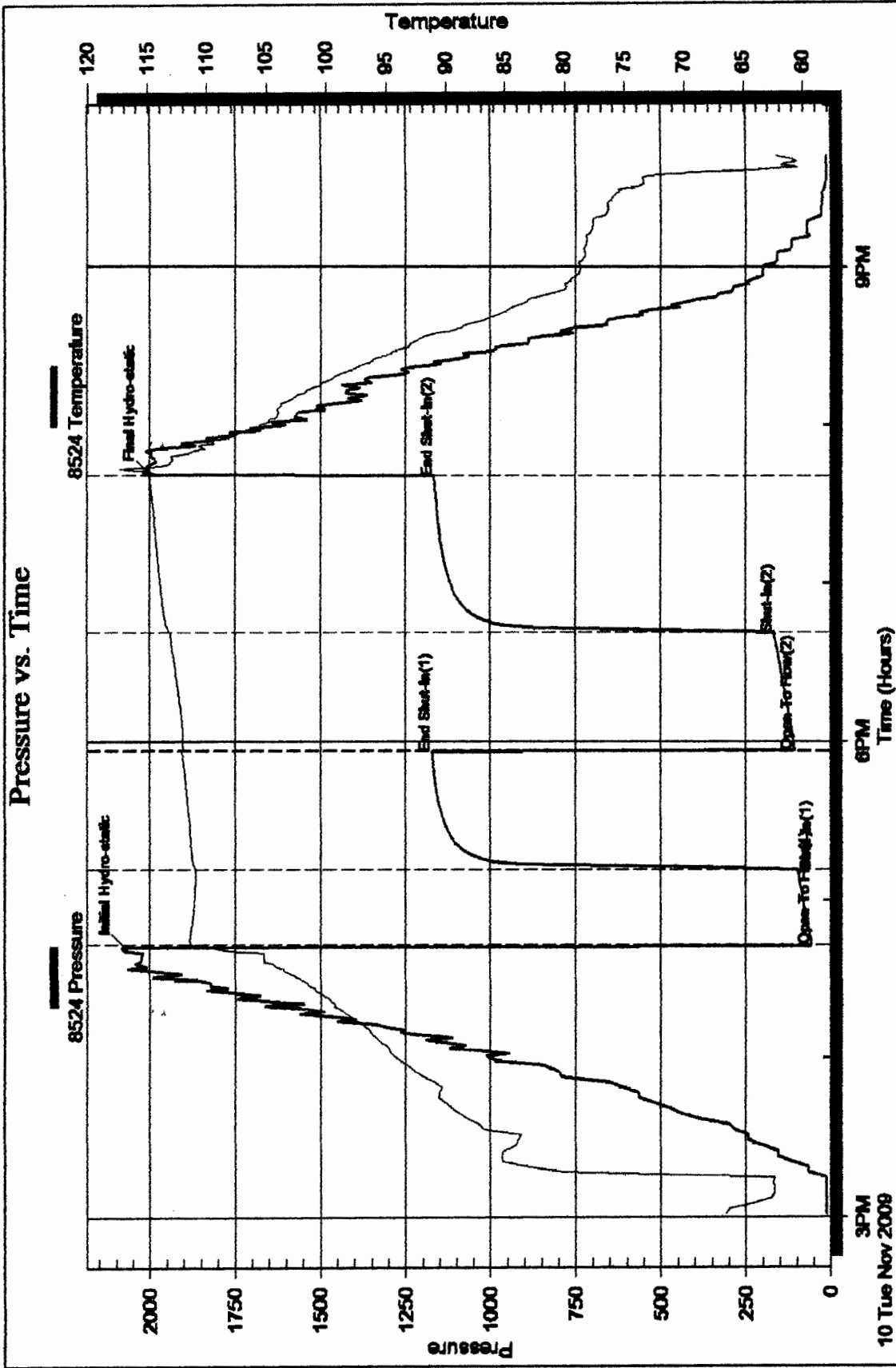
Inside

RITCHEX EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 5

Pressure vs. Time



10 Tue Nov 2009

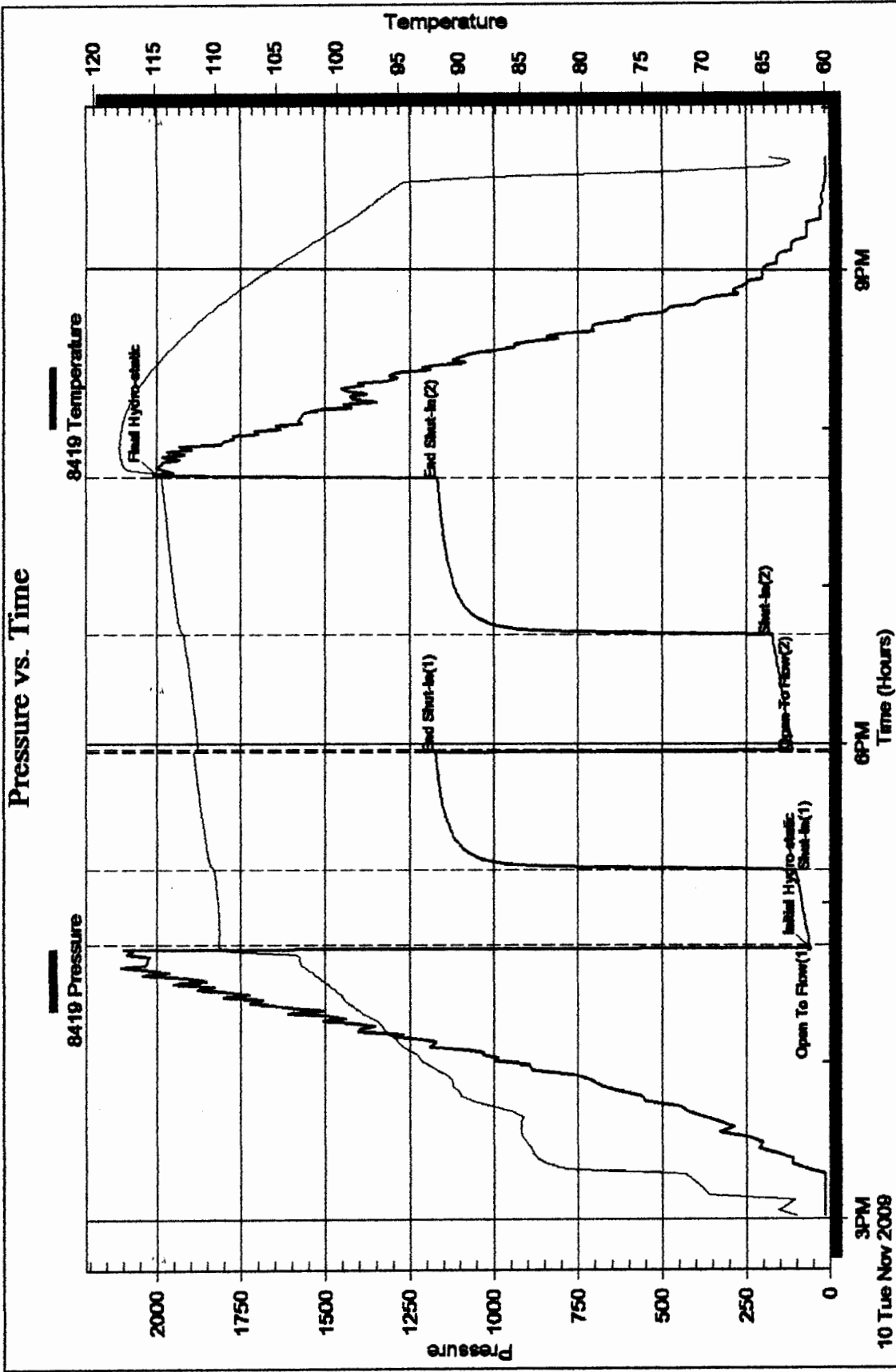
Serial #: 8419

Outside RITCHEXPLORATION INC

36-13-32W LOGAN

DST Test Number: 5

Pressure vs. Time



10 Tue Nov 2009

Superior Testers Enterprises LLC

Ref. No: 16178

Printed: 2009.11.12 @ 10:15:32



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.11 @ 05:30:00

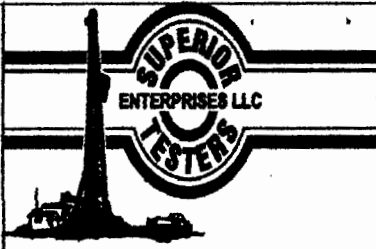
End Date: 2009.11.11 @ 12:11:30

Job Ticket #: 16179 DST #: 6

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

Printed: 2009.11.12 @ 10:15:13

RITCHIE EXPLORATION INC
STUCKEY 36D#2
36-13-32W LOGAN
DST # 6
LANSING "K"
2009.11.11



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67278
 ATTN: TERRY MCCLEOD

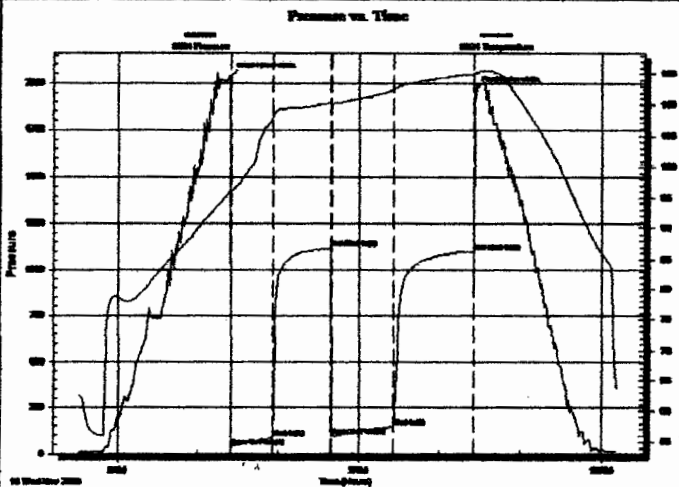
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16179 DST#: 6
 Test Start: 2009.11.11 @ 05:30:00

GENERAL INFORMATION:

Formation: **LANSING "K"**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **07:25:00**
 Time Test Ended: **12:11:30**
 Interval: **4196.00 ft (KB) To 4225.00 ft (KB) (TVD)**
 Total Depth: **4225.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **JARED SCHECK**
 Unit No: **3320-50 -SCOTT CITY**
 Reference Elevations: **2938.00 ft (KB)**
2928.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8524 Inside
 Press@RunDepth: **148.16 psia @ 4220.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.11.11** End Date: **2009.11.11** Last Calib.: **2009.11.11**
 Start Time: **05:31:00** End Time: **12:11:30** Time On Btm: **2009.11.11 @ 07:24:00**
 Time Off Btm: **2009.11.11 @ 10:26:00**

TEST COMMENT: 30/INITIAL OPEN:WEAK BLOW BUILT 4 1/2 INCHES INTO BUCKET IN 30 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:WEAK BLOW BUILT 4 1/2 INCHES INTO BUCKET IN 45 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

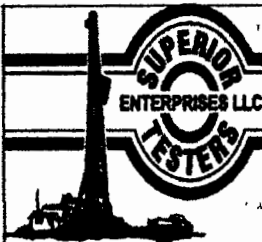
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2034.28	96.11	Initial Hydro-static
1	40.08	96.07	Open To Flow (1)
32	88.13	107.80	Shut-in(1)
75	1120.26	110.22	End Shut-in(1)
76	93.96	109.82	Open To Flow (2)
122	148.16	112.45	Shut-in(2)
181	1103.25	114.97	End Shut-in(2)
182	1961.64	115.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	WATER CUT MUD 30%M 70w	0.98

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

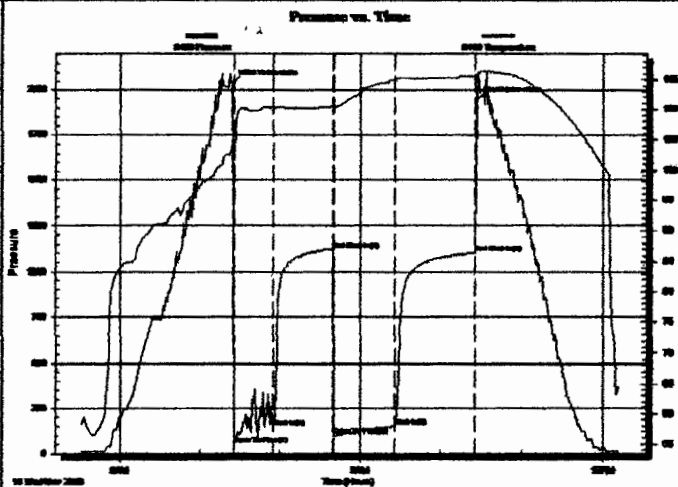
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16179 DST#: 6
 Test Start: 2009.11.11 @ 05:30:00

GENERAL INFORMATION:

Formation: **LANSING "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:25:00
 Time Test Ended: 12:11:30
 Interval: **4196.00 ft (KB) To 4225.00 ft (KB) (TVD)**
 Total Depth: **4225.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50 -SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8419 Outside
 Press@RunDepth: 1103.74 psia @ 4220.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.11 End Date: 2009.11.11 Last Calib.: 2009.11.11
 Start Time: 05:31:00 End Time: 12:12:30 Time On Btm: 2009.11.11 @ 07:24:30
 Time Off Btm: 2009.11.11 @ 10:26:30

TEST COMMENT: 30/INITIAL OPEN WEAK BLOW BUILT 4 1/2 INCHES INTO BUCKET IN 30 MINUTES
 45/INITIAL SHUT IN NO BLOW BACK
 45/FINAL OPEN WEAK BLOW BUILT 4 1/2 INCHES INTO BUCKET IN 45 MINUTES
 60/FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

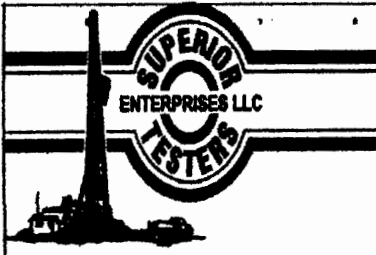
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2036.97	104.41	Initial Hydro-static
1	50.66	104.50	Open To Flow (1)
31	145.64	110.26	Shut-in(1)
75	1119.93	110.49	End Shut-in(1)
76	99.00	110.32	Open To Flow (2)
121	149.19	114.97	Shut-in(2)
181	1103.74	115.53	End Shut-in(2)
182	1943.95	115.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	WATER CUT MUD 30%M 70w	0.98

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16179 DST#: 6
 Test Start: 2009.11.11 @ 05:30:00

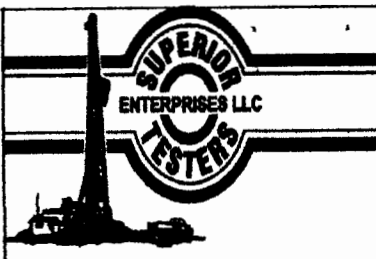
Tool Information

Drill Pipe:	Length: 3605.00 ft	Diameter: 3.80 inches	Volume: 50.57 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: 81000.00 lb
			<u>Total Volume: 53.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4196.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4174.00	
Shut-In Tool	5.00			4179.00	
Hydraulic Tool	5.00			4184.00	
Safety Joint	2.00			4186.00	
Packer	5.00			4191.00	23.00 Bottom Of Top Packer
Packer	5.00			4196.00	
Perforations	24.00			4220.00	
Recorder	0.00	8524	Inside	4220.00	
Recorder	0.00	8419	Outside	4220.00	
Bullnose	5.00			4225.00	29.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16179 DST#: 6
 Test Start: 2009.11.11 @ 05:30:00

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	WATER CUT MUD 30%M 70w	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 30,000

Serial #: 8524

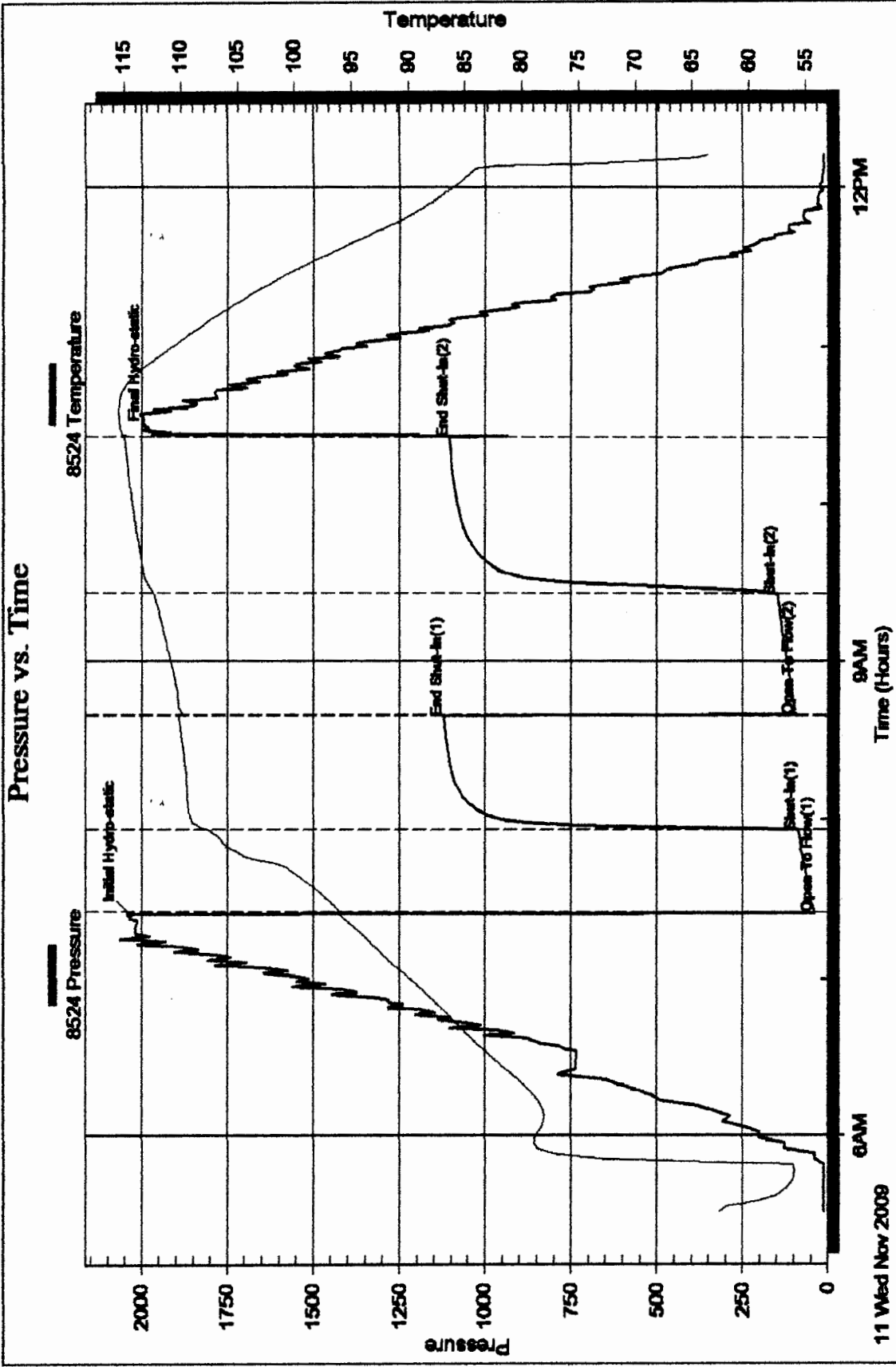
Inside

RITCHEXPLORATION INC

36-13-32W LOGAN

DST Test Number: 6

Pressure vs. Time



11 Wed Nov 2008

Superior Testers Enterprises LLC

Ref. No: 16179

Printed: 2008.11.12 @ 10:15:14

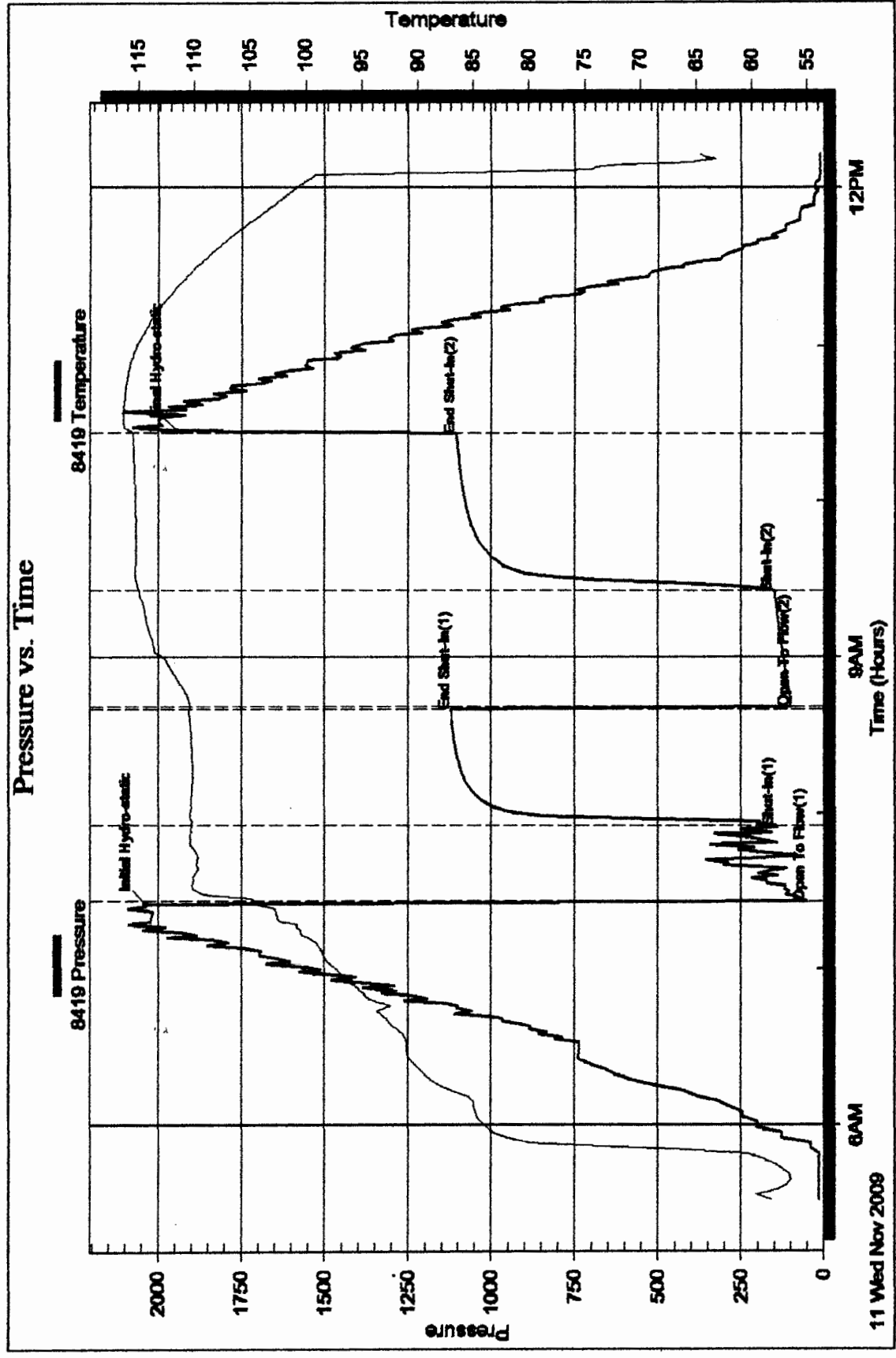
Serial #: 8419

Outside RITCHEXPLORATION INC

36-13-32W LOGAN

DST Test Number: 6

Pressure vs. Time



11 Wed Nov 2009

6AM

9AM

12PM

Superior Testers Enterprises LLC

Ref. No: 16179

Printed: 2009.11.12 @ 10:15:14



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.11 @ 20:45:00

End Date: 2009.11.12 @ 02:14:30

Job Ticket #: 16180 DST #: 7

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

Printed: 2009.11.12 @ 11:29:28

RITCHIE EXPLORATION INC STUCKEY 36D#2 36-13-32W LOGAN DST # 7 LANSING "L" 2009.11.11



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

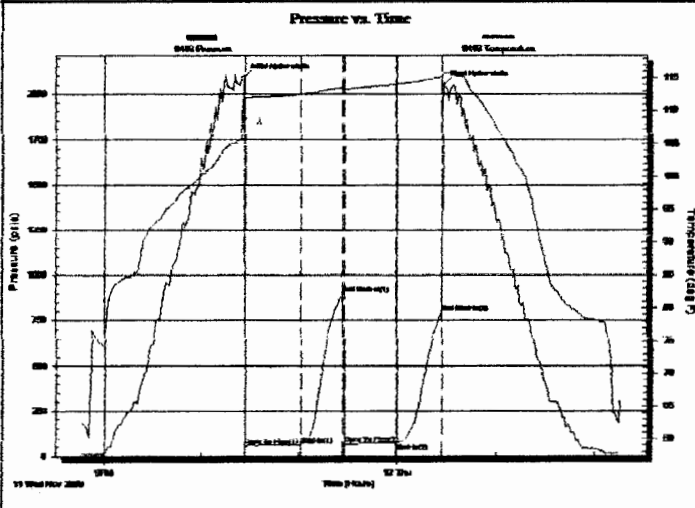
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16180 DST#: 7
 Test Start: 2009.11.11 @ 20:45:00

GENERAL INFORMATION:

Formation: **LANSING "L"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:26:30 Tester: JARED SCHECK
 Time Test Ended: 02:14:30 Unit No: 3320-50-SCOTT CITY
 Interval: 4233.00 ft (KB) To 4285.00 ft (KB) (TVD) Reference Elevations: 2938.00 ft (KB)
 Total Depth: 4285.00 ft (KB) (TVD) 2928.00 ft (CF)
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8524 Inside
 Press@RunDepth: 65.63 psia @ 4280.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.11 End Date: 2009.11.12 Last Calib.: 2009.11.12
 Start Time: 20:46:00 End Time: 02:14:30 Time On Btm: 2009.11.11 @ 22:25:30
 Time Off Btm: 2009.11.12 @ 00:28:00

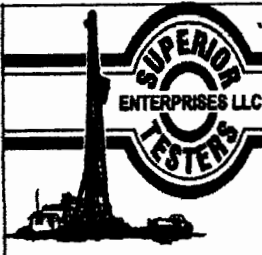
TEST COMMENT: 30/INITIAL OPEN: VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN
 30/INITIAL SHUT IN: NO BLOW BACK
 30/FINAL OPEN: VERY WEAK SURFACE BLOW STAYED STEADY THROUGH OUT OPEN
 30/FINAL SHUT IN: NO BLOW BACK



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

Recovery		
Length (ft)	Description	Volume (bbl)

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67278
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16180 DST#: 7
 Test Start: 2009.11.11 @ 20:45:00

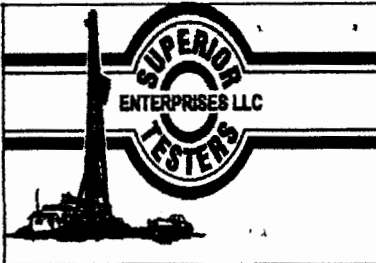
Tool Information

Drill Pipe:	Length: 3638.00 ft	Diameter: 3.80 inches	Volume: 51.03 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: 80000.00 lb
			<u>Total Volume: 53.89 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4233.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	75.00 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			4211.00	-999999.00
Shut-in Tool	5.00			4216.00	-999999.00
Hydraulic Tool	5.00			4221.00	-999999.00
Safety Joint	2.00			4223.00	-999999.00
Packer	5.00			4228.00	23.00 Bottom Of Top Packer
Packer	5.00			4233.00	-999999.00
Change Over Sub	0.75			4233.75	-999999.00
Drill Pipe	31.50			4265.25	-999999.00
Change Over Sub	0.75			4266.00	-999999.00
Perforations	14.00			4280.00	-999999.00
Recorder	0.00	8524	inside	4280.00	-999999.00
Recorder	0.00	8419	Outside	4280.00	-999999.00
Bullnose	5.00			4285.00	52.00 Bottom Packers & Anchor

Total Tool Length: 75.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16180 DST#: 7
 Test Start: 2009.11.11 @ 20:45:00

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SPOT OIL CUT MUD 3%O 97%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:

Serial #: 8524

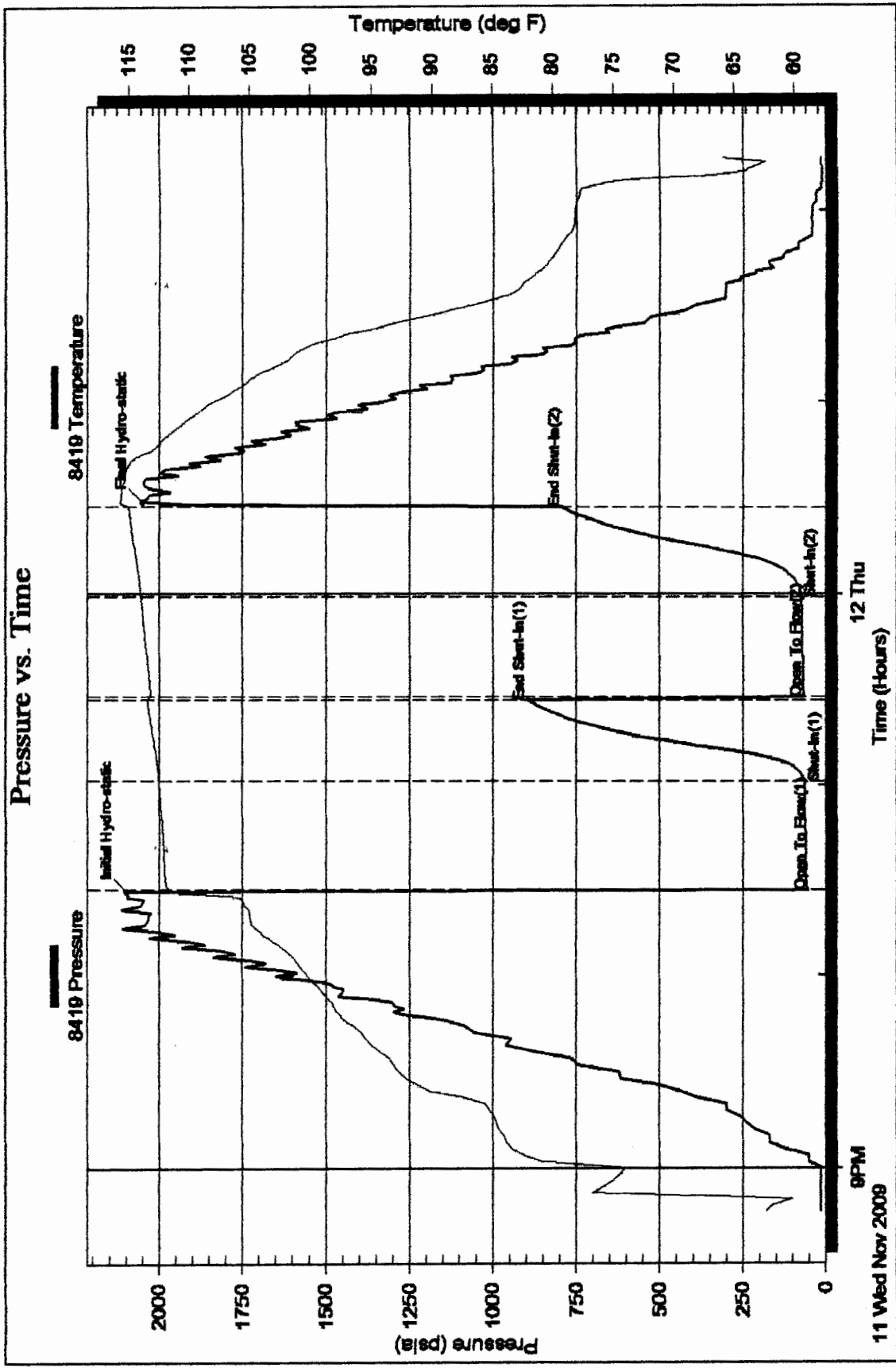
Inside

RITCHEXPLORATION INC

36-13-32W LOGAN

DST Test Number: 7

Pressure vs. Time



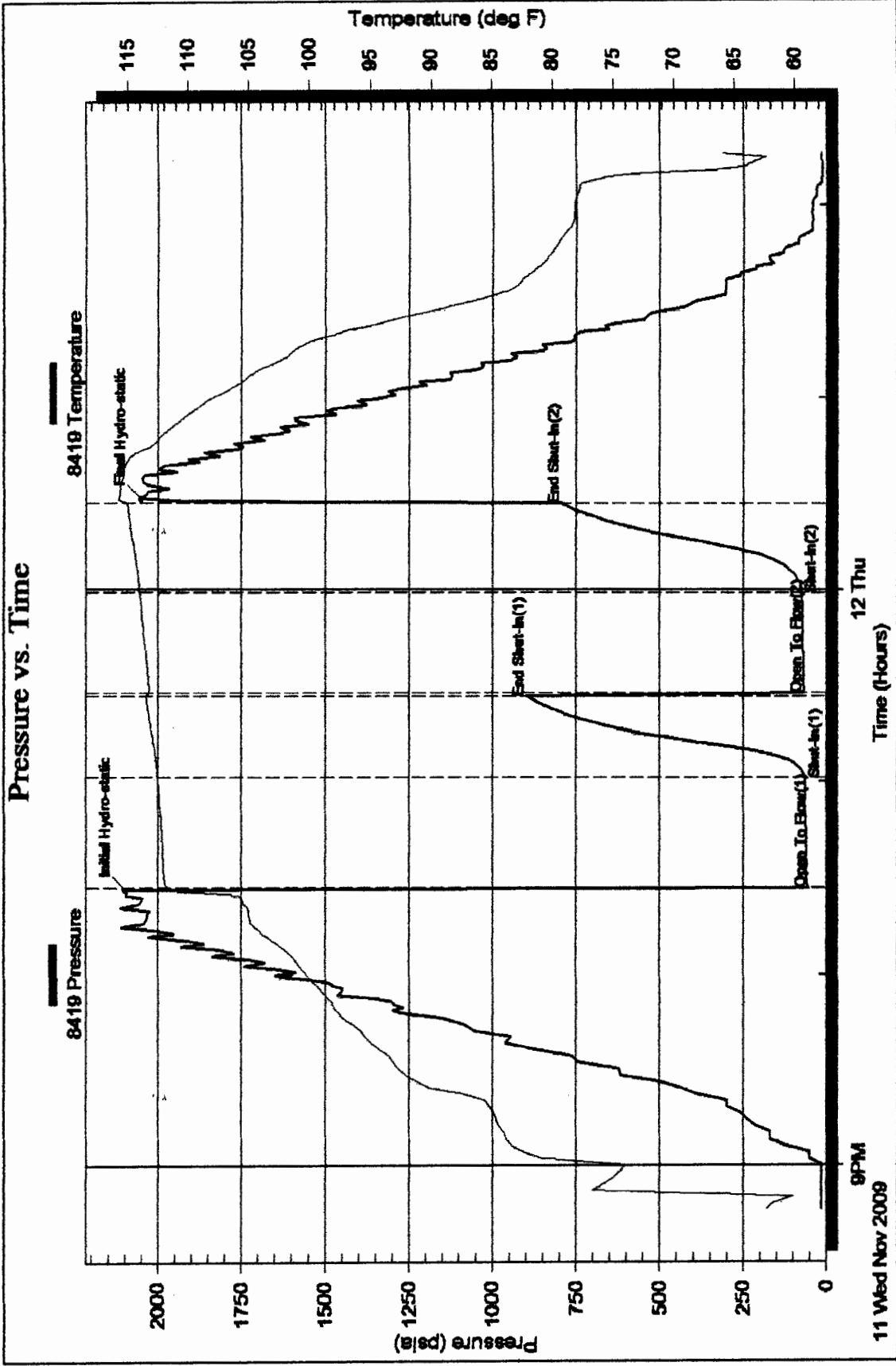
Serial #: 8419

Outside RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 7

Pressure vs. Time



11 Wed Nov 2009 9PM

12 Thu Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.12 @ 15:35:00

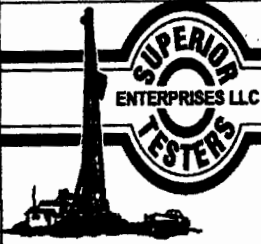
End Date: 2009.11.12 @ 22:36:00

Job Ticket #: 16181 DST #: 8

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

Printed: 2009.11.12 @ 22:58:26

RITCHIE EXPLORATION INC
STUCKEY 36D#2
36-13-32W LOGAN
DST # 8
MYRIC
2009.11.12



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N#700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

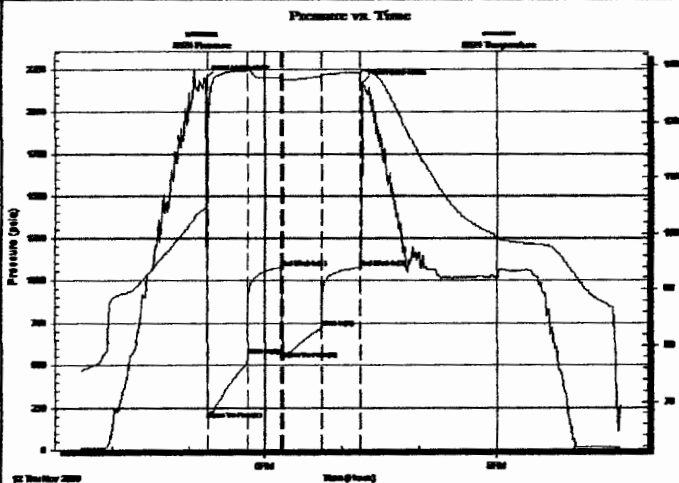
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16181 DST#: 8
 Test Start: 2009.11.12 @ 15:35:00

GENERAL INFORMATION:

Formation: **MYRIC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:15:00
 Time Test Ended: 22:36:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Interval: **4423.00 ft (KB) To 4444.00 ft (KB) (TVD)**
 Total Depth: **4444.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 Inside
 Press@RunDepth: 721.57 psia @ 4439.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.12 End Date: 2009.11.12 Last Calib.: 2009.11.12
 Start Time: 15:36:00 End Time: 22:36:00 Time On Btmr: 2009.11.12 @ 17:13:30
 Time Off Btmr: 2009.11.12 @ 19:15:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 30/INITIAL OPEN:VERY WEAK SURFACE BLOW
 30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 30/FINAL SHUT IN :BOTTOM OF BUCKET



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2192.60	104.74	Initial Hydro-static
2	184.03	115.45	Open To Flow (1)
33	556.75	129.15	Shut-in(1)
59	1073.70	127.86	End Shut-in(1)
60	534.77	127.63	Open To Flow (2)
91	721.57	128.12	Shut-in(2)
121	1072.02	128.72	End Shut-in(2)
122	2164.72	129.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	OIL CUT MUD 40%M 60%O	0.47
2150.00	CLEAN GASSEY OIL 30%G 70%O	25.72
1650.00	GIP 100%	23.15

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N#700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

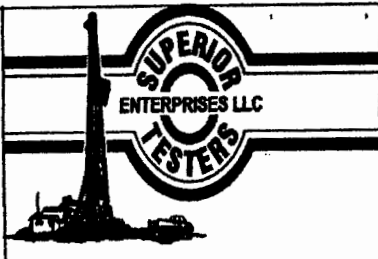
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16181 DST#: 8
 Test Start: 2009.11.12 @ 15:35:00

Tool Information

Drill Pipe:	Length: 3827.00 ft	Diameter: 3.80 inches	Volume: 53.68 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:	98000.00 lb
			Total Volume: 56.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4423.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	44.00 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			4401.00	
Shut-In Tool	5.00			4406.00	
Hydraulic Tool	5.00			4411.00	
Screen	2.00			4413.00	
Packer	5.00			4418.00	23.00 Bottom Of Top Packer
Packer	5.00			4423.00	
Perforations	16.00			4439.00	
Recorder	0.00	8524	Inside	4439.00	
Recorder	0.00	8419	Outside	4439.00	
Bullnose	5.00			4444.00	21.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16181 DST#: 8
 Test Start: 2009.11.12 @ 15:35:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	45 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	OIL CUT MUD 40%M 60%O	0.467
2150.00	CLEAN GASSEY OIL 30%G 70%O	25.723
1650.00	GIP 100%	23.145

Total Length: 3895.00 ft Total Volume: 49.335 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: GRAVITY 45

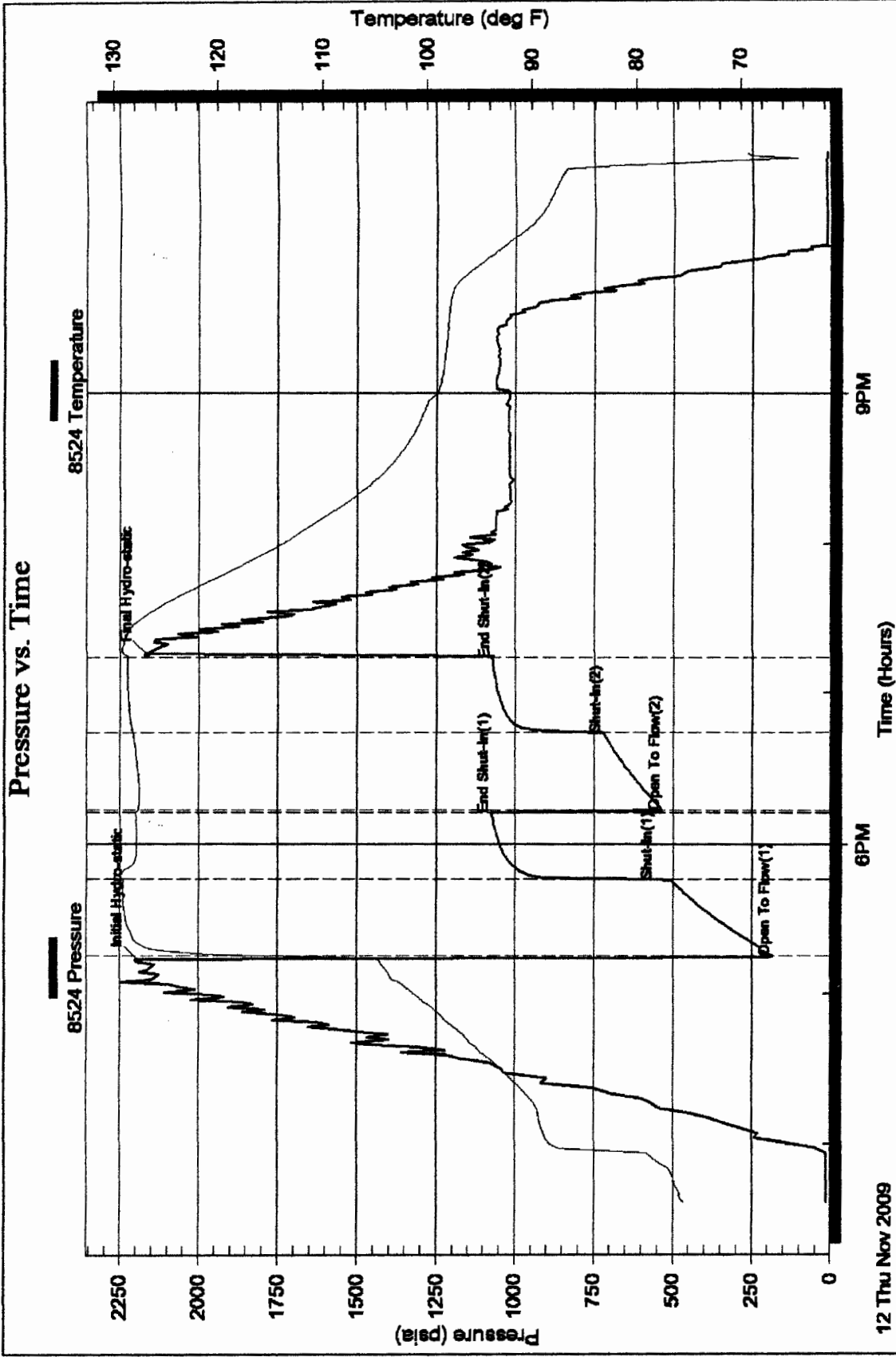
Serial #: 8524

Inside

RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 8

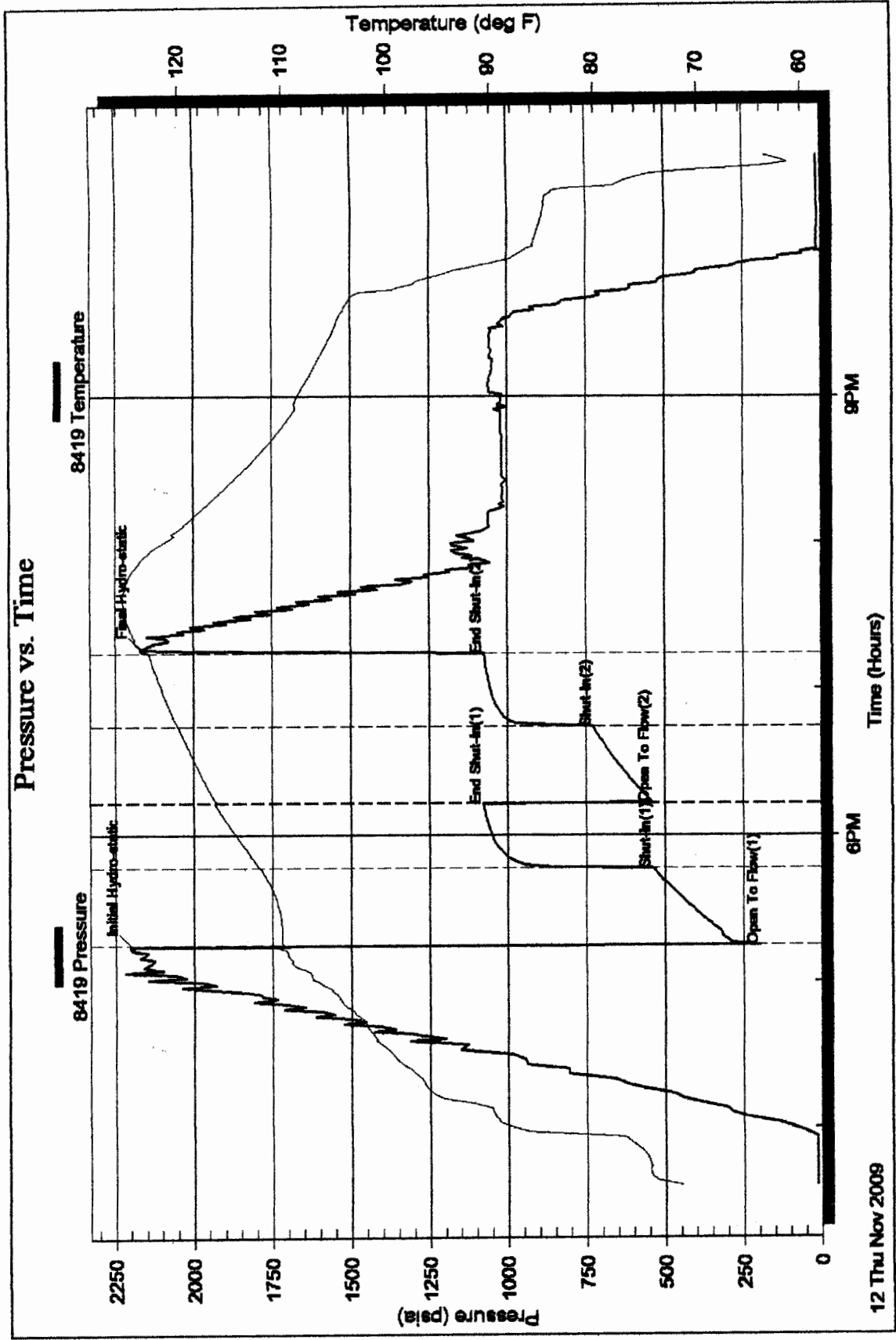


Serial #: 8419

Outside RITCHEE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 8



12 Thu Nov 2009

8PM

9PM



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.12 @ 05:45:00

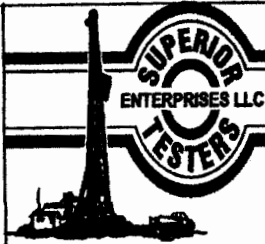
End Date: 2009.11.12 @ 13:32:30

Job Ticket #: 16182 DST #: 9

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

Printed: 2009.11.13 @ 13:51:38

RITCHIE EXPLORATION INC
STUCKEY 36D#2
36-13-32W LOGAN
DST # 9
FORT SCOTT
2009.11.12



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

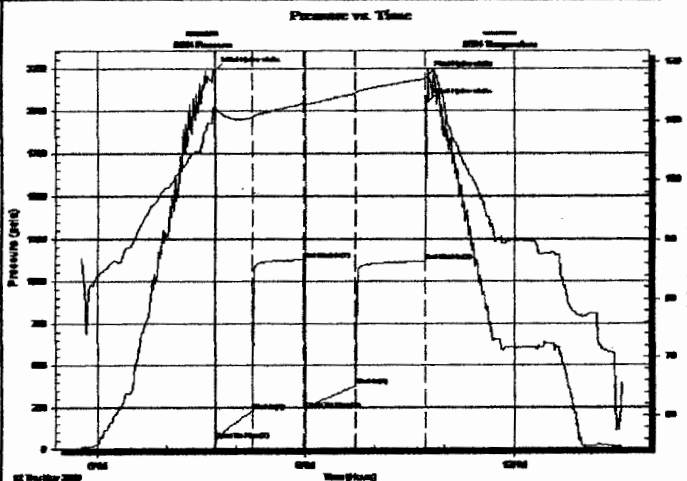
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16182 DST#: 9
 Test Start: 2009.11.12 @ 05:45:00

GENERAL INFORMATION:

Formation: **FORT SCOTT**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:42:30
 Time Test Ended: 13:32:30
 Interval: **4452.00 ft (KB) To 4475.00 ft (KB) (TVD)**
 Total Depth: **4475.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 Inside
 Press@RunDepth: 377.29 psia @ 4470.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.12 End Date: 2009.11.12 Last Calib.: 2009.11.13
 Start Time: 05:45:00 End Time: 13:32:30 Time On Btrr: 2009.11.12 @ 07:42:00
 Time Off Btrr: 2009.11.12 @ 10:45:00

TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT 10 INCHES INTO THE BUCKET IN 30 MINUTES
 45/INITIAL SHUT IN:BOTTOM OF BUCKET
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 17 MINUTES
 60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

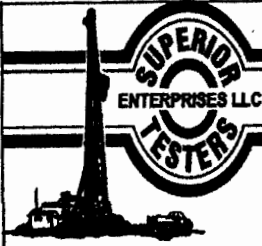
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2238.43	112.55	Initial Hydro-static
1	55.35	112.07	Open To Flow (1)
32	226.27	110.56	Shut-In(1)
77	1125.68	113.02	End Shut-In(1)
78	236.49	112.79	Open To Flow (2)
122	377.29	114.71	Shut-In(2)
181	1115.23	117.17	End Shut-In(2)
183	2047.82	117.46	Final Hydro-static
184	2209.50	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	OIL CUT MD 70%O 30%M	0.47
1235.00	CLEAN GASSEY OIL 100%	12.89
1330.00	GAS IN PIPE 100%	18.66

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

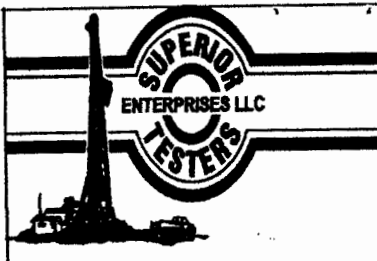
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16182 DST#: 9
 Test Start: 2009.11.12 @ 05:45:00

Tool Information

Drill Pipe:	Length: 3859.00 ft	Diameter: 3.80 inches	Volume: 54.13 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: 80000.00 lb
			<u>Total Volume: 56.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4452.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4430.00	
Shut-In Tool	5.00			4435.00	
Hydraulic Tool	5.00			4440.00	
Safety Joint	2.00			4442.00	
Packer	5.00			4447.00	23.00 Bottom Of Top Packer
Packer	5.00			4452.00	
Perforations	18.00			4470.00	
Recorder	0.00	8524	Inside	4470.00	
Recorder	0.00	8419	Outside	4470.00	
Bullnose	5.00			4475.00	23.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276
ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
Job Ticket: 16182 DST#: 9
Test Start: 2009.11.12 @ 05:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: 41 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	OIL CUT MD 70%O 30%M	0.467
1235.00	CLEAN GASSEY OIL 100%	12.887
1330.00	GAS IN PIPE 100%	18.656

Total Length: 2660.00 ft Total Volume: 32.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

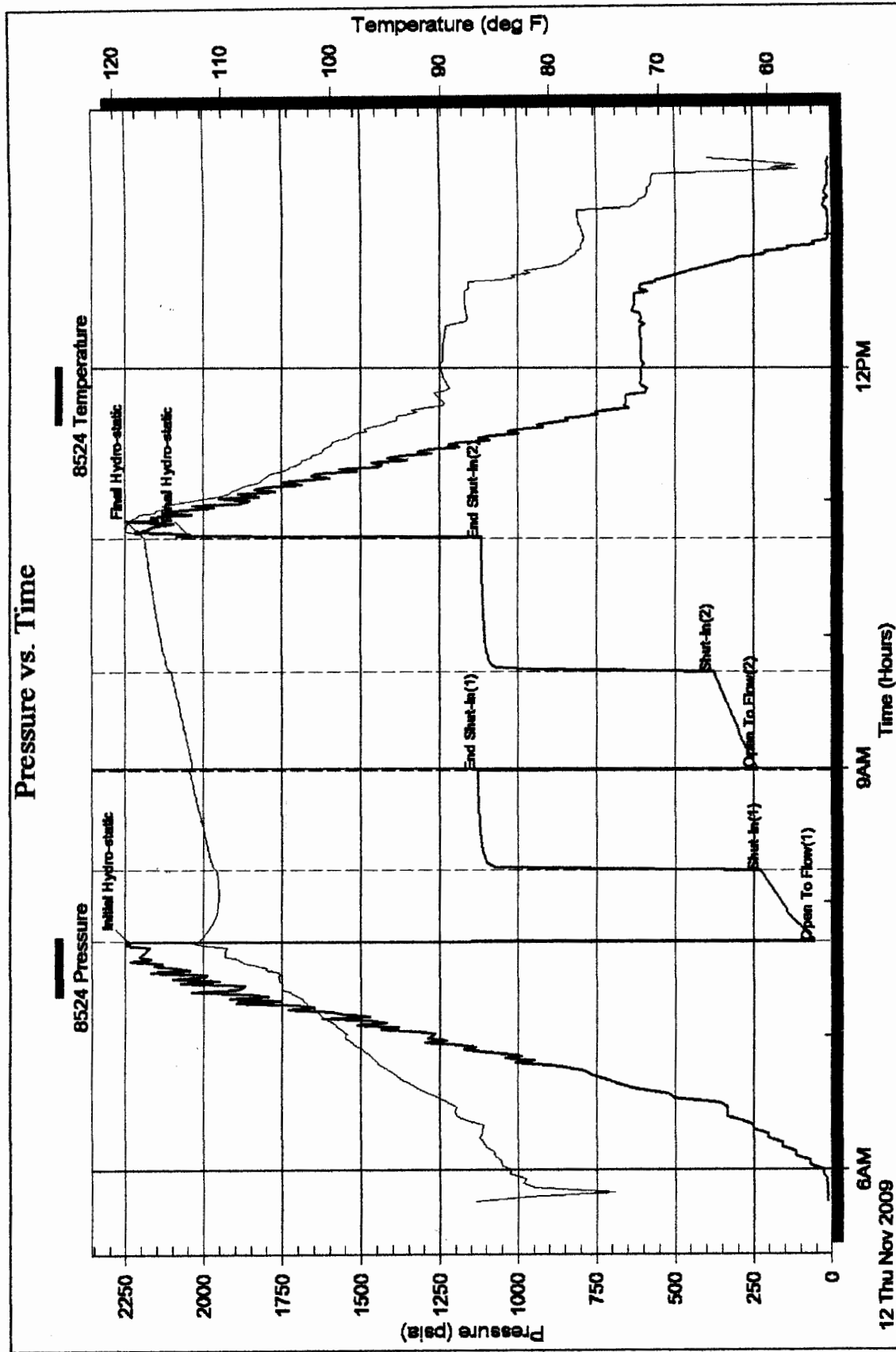
Inside

RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 9

Pressure vs. Time

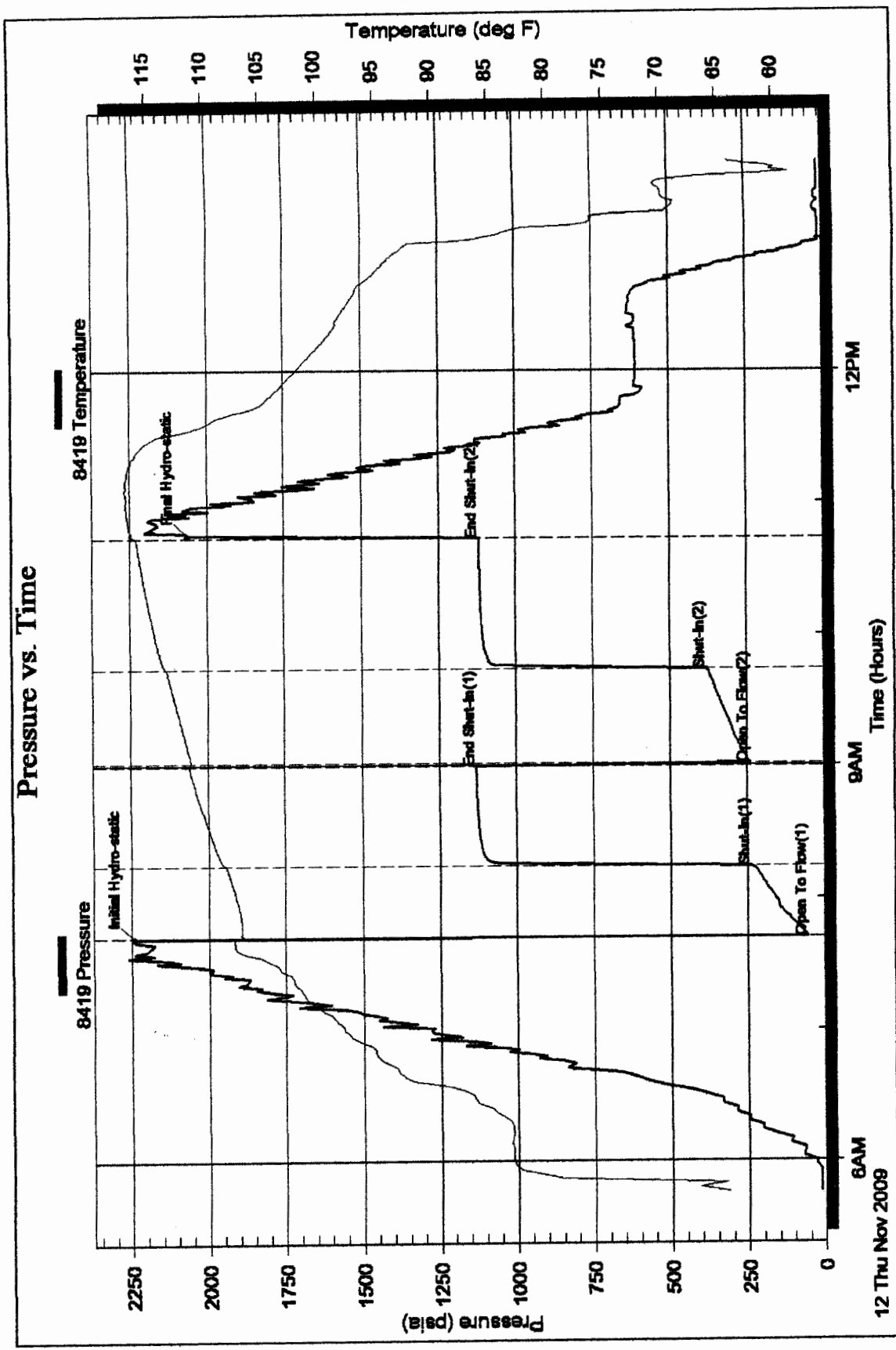


Serial #: 8419

Outside RITCHEE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 9



Printed: 2009.11.13 @ 13:51:40

Ref. No: 16182

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.13 @ 21:15:00

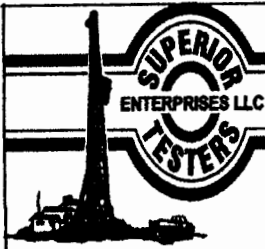
End Date: 2009.11.14 @ 04:26:00

Job Ticket #: 16183 DST #: 10

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

Printed: 2009.11.14 @ 04:49:56

RITCHIE EXPLORATION INC STUCKEY 36D#2 36-13-32W LOGAN DST # 10 CHEROKEE 2009.11.13



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16183 DST#: 10
 Test Start: 2009.11.13 @ 21:15:00

Tool Information

Drill Pipe:	Length: 3891.00 ft	Diameter: 3.80 inches	Volume: 54.58 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: 80000.00 lb
			<u>Total Volume: 57.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4482.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 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			4460.00	
Shut-In Tool	5.00			4465.00	
Hydrolic Tool	5.00			4470.00	
Safety Joint	2.00			4472.00	
Packer	5.00			4477.00	23.00 Bottom Of Top Packer
Packer	5.00			4482.00	
Perforations	28.00			4510.00	
Recorder	0.00	8524	Inside	4510.00	
Recorder	0.00	8419	Outside	4510.00	
Bullnose	5.00			4515.00	33.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16183 DST#: 10
 Test Start: 2009.11.13 @ 21:15:00

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: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
425.00	WATER CT MUD 20%M 80%W	2.090

Total Length: 425.00 ft Total Volume: 2.090 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: CHLORIDES 30,000

Serial #: 8524

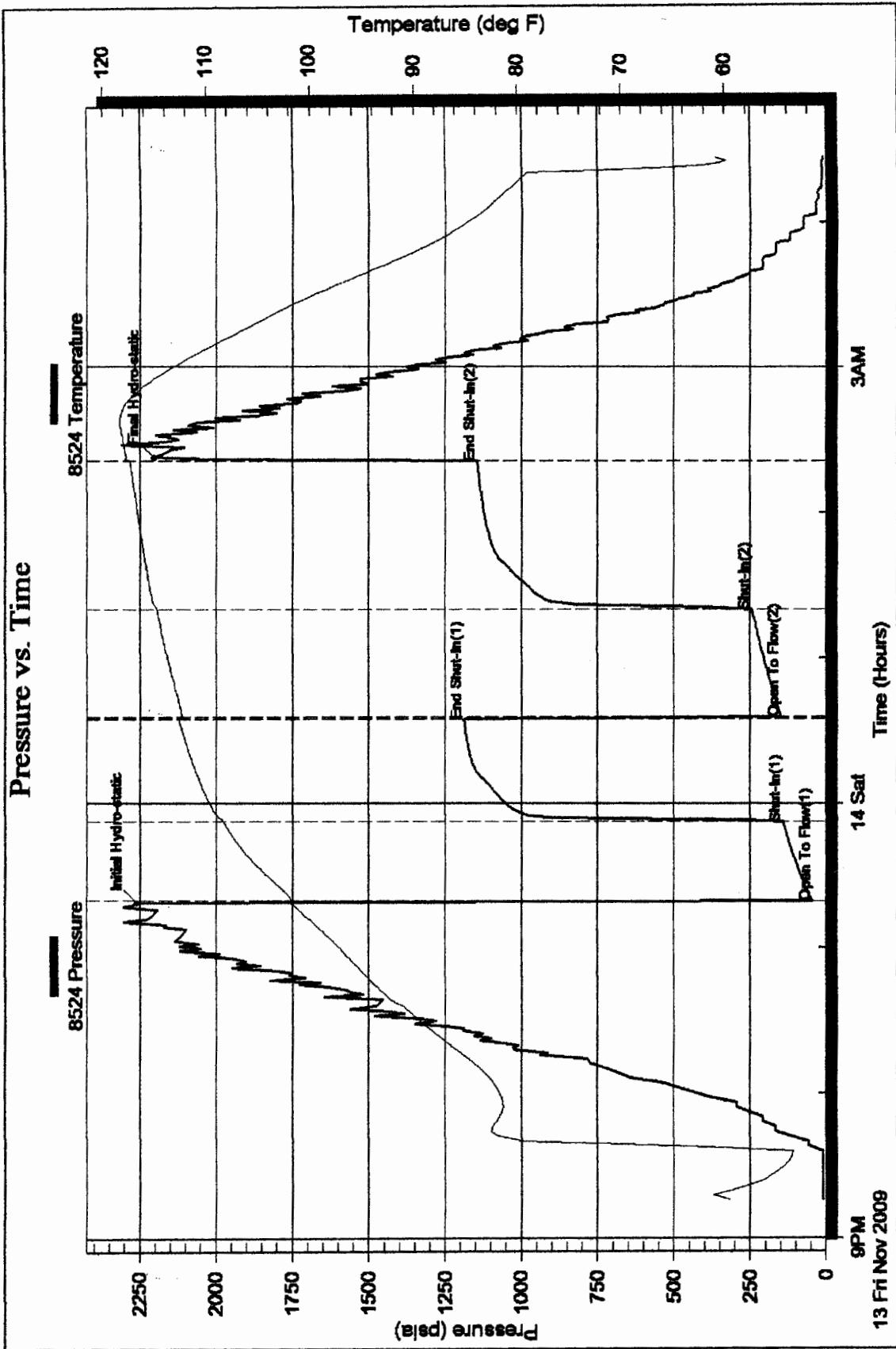
Inside

RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 10

Pressure vs. Time



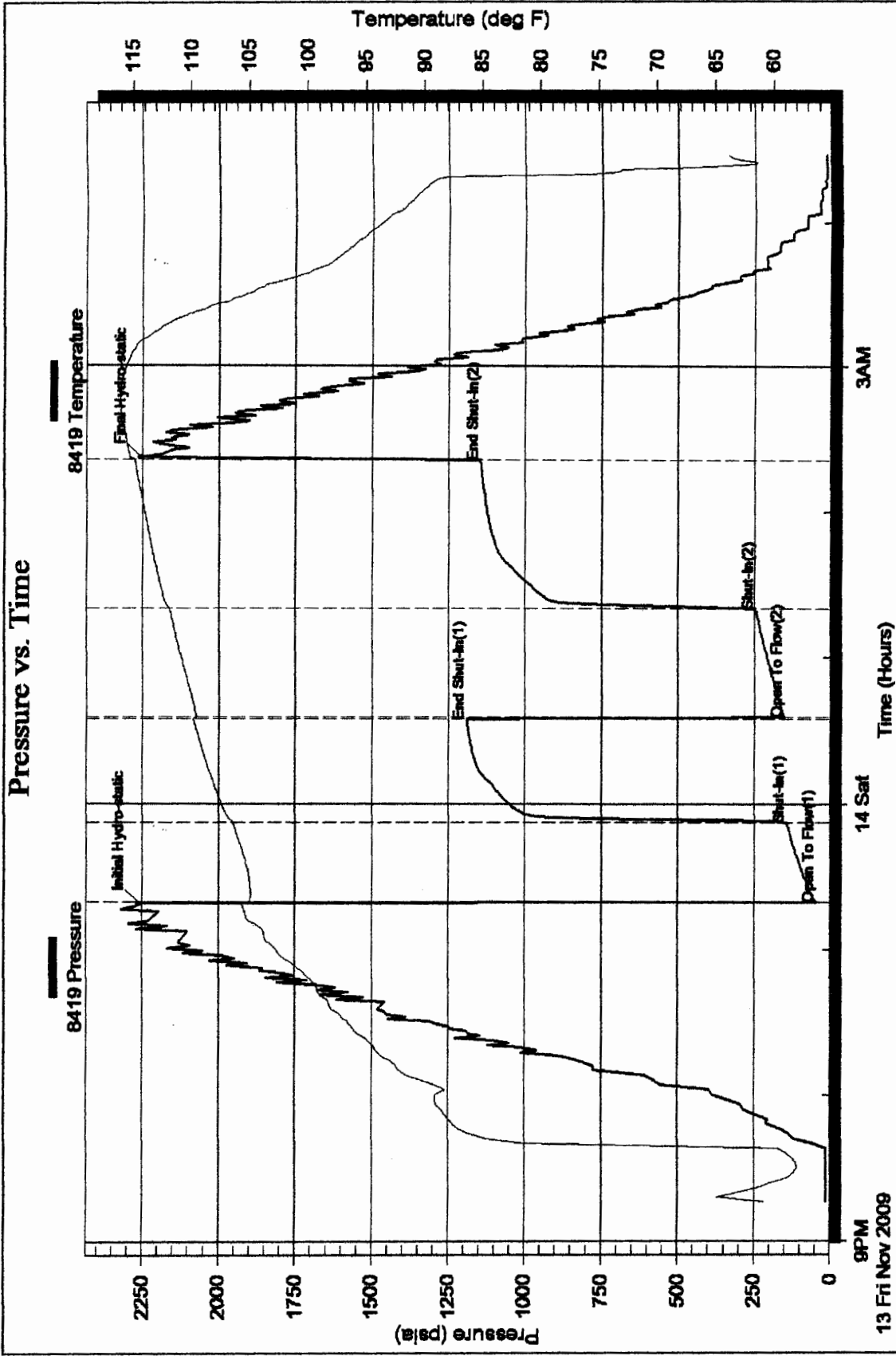
Serial #: 8419

Outside RITCHEE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 10

Pressure vs. Time



9PM
13 Fri Nov 2009

14 Sat

3AM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.14 @ 11:09:00

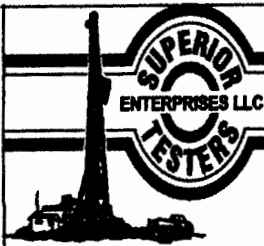
End Date: 2009.11.14 @ 18:09:30

Job Ticket #: 16184 DST #: 11

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

Printed: 2009.11.14 @ 18:24:59

RITCHIE EXPLORATION INC STUCKEY 36D#2 36-13-32W LOGAN DST # 11 JOHNSON 2009.11.14



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

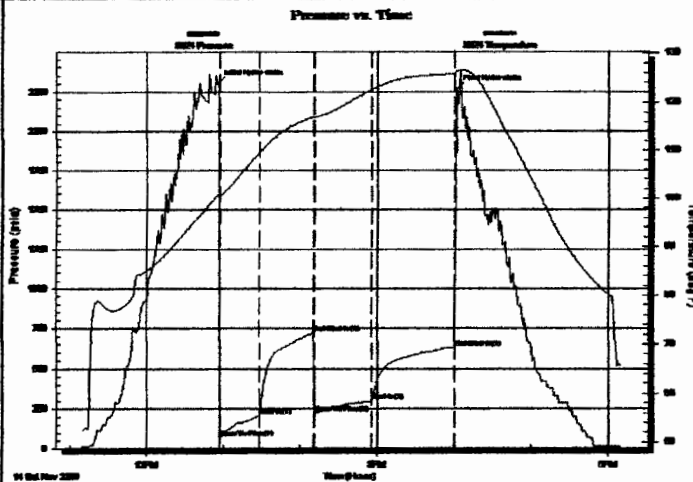
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16184 DST#: 11
 Test Start: 2009.11.14 @ 11:09:00

GENERAL INFORMATION:

Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:57:30
 Time Test Ended: 18:09:30
 Interval: **4522.00 ft (KB) To 4538.00 ft (KB) (TVD)**
 Total Depth: **4538.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8524** Inside
 Press@RunDepth: 297.80 psia @ 4533.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.14 End Date: 2009.11.14 Last Calib.: 2009.11.14
 Start Time: 11:09:00 End Time: 18:09:30 Time On Btm: 2009.11.14 @ 12:56:00
 Time Off Btm: 2009.11.14 @ 16:01:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 45/INITIAL SHUT IN:BOTTOM OB BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 10 MINUTES
 60/FINAL SHUT IN:3 INCHES FROM BOTTOM OF BUCKET



PRESSURE SUMMARY

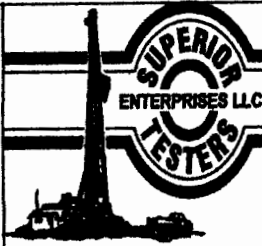
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2301.80	100.80	Initial Hydro-static
2	67.50	100.71	Open To Flow (1)
33	205.49	109.52	Shut-in(1)
75	723.26	117.16	End Shut-in(1)
76	221.51	116.99	Open To Flow (2)
120	297.80	122.63	Shut-in(2)
185	631.88	125.83	End Shut-in(2)
186	2266.54	126.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	OIL CUT MUD 30%M 70%O	0.47
855.00	CLEAN GASSEY OIL 20%G 80%O	7.56
1235.00	GAS IN PIPE 100%G	17.32

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

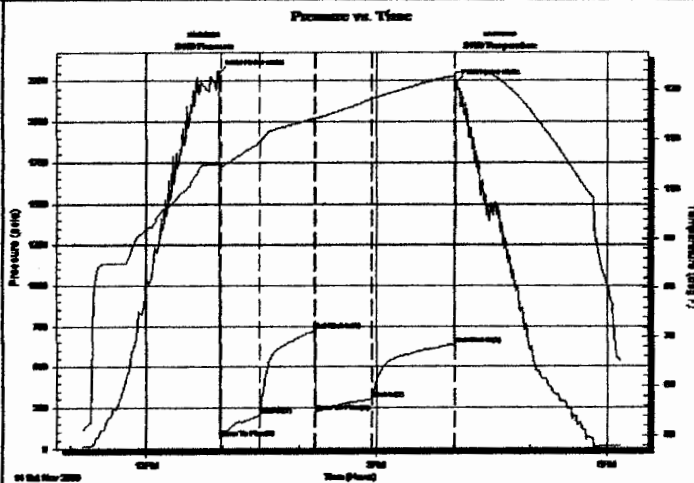
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16184 DST#: 11
 Test Start: 2009.11.14 @ 11:09:00

GENERAL INFORMATION:

Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:57:30
 Time Test Ended: 18:09:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Interval: **4522.00 ft (KB) To 4538.00 ft (KB) (TVD)**
 Total Depth: **4538.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8419** Outside
 Press@RunDepth: **633.79 psia @ 4533.00 ft (KB)** Capacity: 5000.00 psia
 Start Date: 2009.11.14 End Date: 2009.11.14 Last Calib.: 2009.11.14
 Start Time: 11:09:00 End Time: 18:11:00 Time On Btrr: 2009.11.14 @ 12:57:00
 Time Off Btrr: 2009.11.14 @ 16:02:00

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 45/INITIAL SHUT IN:BOTTOM OB BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 10 MINUTES
 60/FINAL SHUT IN:3 INCHES FROM BOTTOM OF BUCKET



PRESSURE SUMMARY

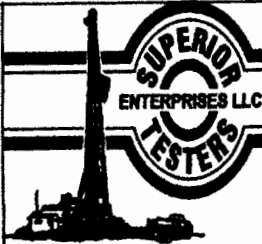
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2300.43	105.09	Initial Hydro-static
1	69.77	104.55	Open To Flow (1)
32	206.48	109.56	Shut-In(1)
75	723.83	114.28	End Shut-In(1)
76	224.08	114.23	Open To Flow (2)
120	299.98	118.19	Shut-In(2)
184	633.79	122.90	End Shut-In(2)
185	2234.57	123.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	OIL CUT MUD 30%M 70%O	0.47
855.00	CLEAN GASSEY OIL 20%G 80%O	7.56
1235.00	GAS IN PIPE 100%G	17.32

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16184 DST#: 11
 Test Start: 2009.11.14 @ 11:09:00

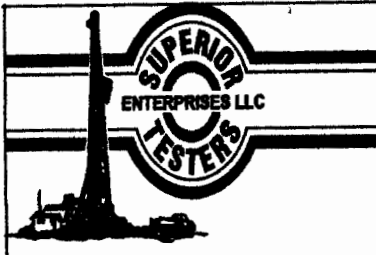
Tool Information

Drill Pipe:	Length: 3916.00 ft	Diameter: 3.80 inches	Volume: 54.93 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 Full Loose: 81000.00 lb
			Total Volume: 57.79 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4522.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	45.00 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			4494.00	
Shut-In Tool	5.00			4499.00	
Hydraulic Tool	5.00			4504.00	
Jars	6.00			4510.00	
Safety Joint	2.00			4512.00	
Packer	5.00			4517.00	29.00 Bottom Of Top Packer
Packer	5.00			4522.00	
Perforations	11.00			4533.00	
Recorder	0.00	8524	Inside	4533.00	
Recorder	0.00	8419	Outside	4533.00	
Bullnose	5.00			4538.00	16.00 Bottom Packers & Anchor

Total Tool Length: 45.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16184 DST#: 11
 Test Start: 2009.11.14 @ 11:09:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 63.00 sec/qt
 Water Loss: 8.80 in³
 Resistivity: ohm.m
 Salinity: 400.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psia

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	OIL CUT MUD 30%M 70%O	0.467
855.00	CLEAN GASSEY OIL 20%G 80%O	7.557
1235.00	GAS IN PIPE 100%G	17.324

Total Length: 2185.00 ft Total Volume: 25.348 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8524

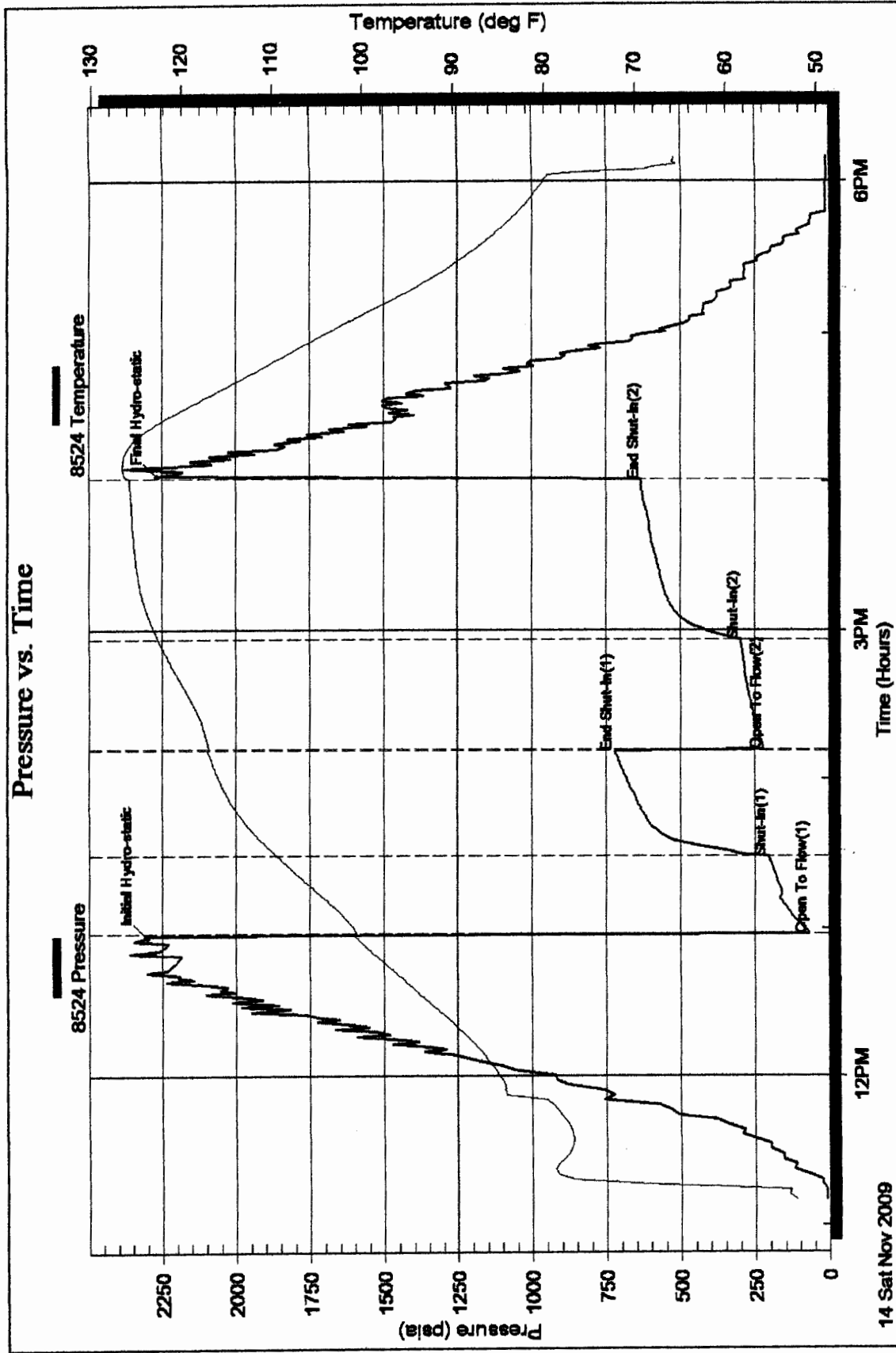
Inside

RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 11

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

ATTN: TERRY MCCLEOD

36-13-32W LOGAN

STUCKEY 36D#2

Start Date: 2009.11.15 @ 02:32:00

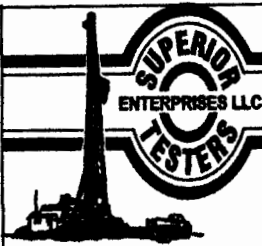
End Date: 2009.11.15 @ 09:04:00

Job Ticket #: 16185 DST #: 12

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

Printed: 2009.11.15 @ 09:17:04

RITCHIE EXPLORATION INC STUCKEY 36D#2 36-13-32W LOGAN DST # 12 MARROW SAND 2009.11.15



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

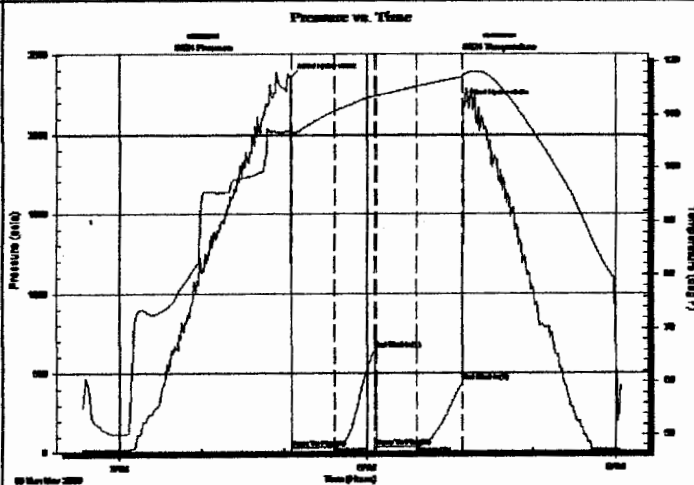
STUCKEY 36D#2
 36-13-32W LOGAN
 Job Ticket: 16185 DST#: 12
 Test Start: 2009.11.15 @ 02:32:00

GENERAL INFORMATION:

Formation: **MARROW SAND**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:05:30
 Time Test Ended: 09:04:00
 Interval: **4585.00 ft (KB) To 4596.00 ft (KB) (TVD)**
 Total Depth: **4596.00 ft (KB) (TVD)**
 Hole Diameter: 6.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-50-SCOTT CITY
 Reference Elevations: 2938.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8524** Inside
 Press@RunDepth: 32.67 psia @ 4591.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2009.11.15 End Date: 2009.11.15 Last Calib.: 2009.11.15
 Start Time: 02:32:00 End Time: 09:04:00 Time On Btmr: 2009.11.15 @ 05:05:00
 Time Off Btmr: 2009.11.15 @ 07:10:00

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 INCH INTO BUCKET IN 30 MINUTES
 30/INITIAL SHUT IN:NO BLOW BACK
 30/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUOUT OPEN
 30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

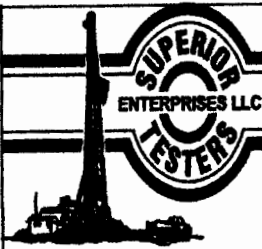
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2358.64	107.17	Initial Hydro-static
1	29.20	106.73	Open To Flow (1)
32	31.43	110.69	Shut-In(1)
61	648.29	113.61	End Shut-In(1)
62	31.68	113.56	Open To Flow (2)
91	32.67	115.35	Shut-In(2)
124	441.20	117.03	End Shut-In(2)
125	2192.59	117.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 B100 E 22ND ST N #700
 BOX 783188 WICHITA KS 67276
 ATTN: TERRY MCCLEOD

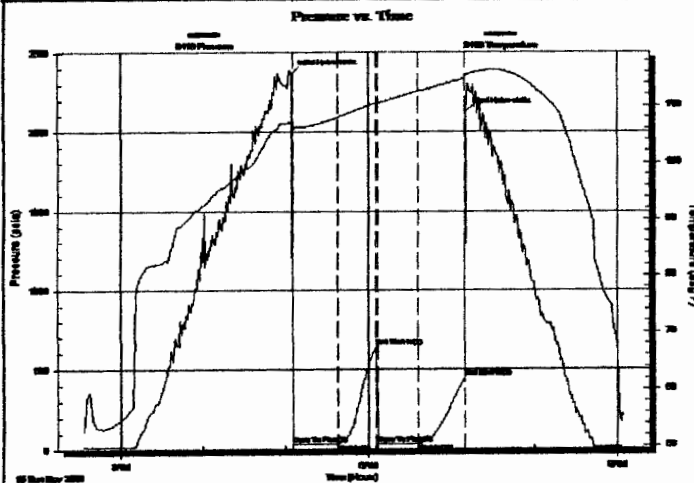
STUCKEY 36D#2
36-13-32W LOGAN
 Job Ticket: 16185 **DST#: 12**
 Test Start: 2009.11.15 @ 02:32:00

GENERAL INFORMATION:

Formation: MARROW SAND
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 05:05:30
Tester: JARED SCHECK
Time Test Ended: 09:04:00
Unit No: 3320-50-SCOTT CITY
Interval: 4585.00 ft (KB) To 4596.00 ft (KB) (TVD)
Reference Elevations: 2938.00 ft (KB)
Total Depth: 4596.00 ft (KB) (TVD)
2928.00 ft (CF)
Hole Diameter: 6.88 inches Hole Condition: Fair
KB to GR/CF: 10.00 ft

Serial #: 8419 Outside
Press@RunDepth: 444.97 psia @ 4591.00 ft (KB)
Capacity: 5000.00 psia
Start Date: 2009.11.15 End Date: 2009.11.15
Last Calib.: 2009.11.15
Start Time: 02:32:00 End Time: 09:04:00
Time On Btmr: 2009.11.15 @ 05:04:30
Time Off Btmr: 2009.11.15 @ 07:10:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 INCH INTO BUCKET IN 30 MINUTES
30/INITIAL SHUT IN:NO BLOW BACK
30/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUOUT OPEN
30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

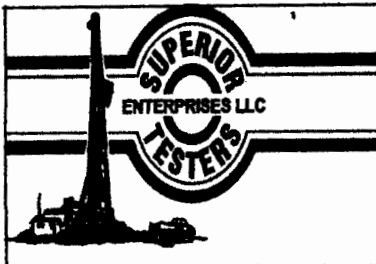
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2369.62	106.96	Initial Hydro-static
1	31.85	105.79	Open To Flow (1)
34	34.75	107.93	Shut-In(1)
61	643.86	110.50	End Shut-In(1)
62	33.91	110.41	Open To Flow (2)
91	35.40	112.44	Shut-In(2)
125	444.97	114.69	End Shut-In(2)
126	2128.77	115.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

STUCKEY 36D#2

B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276

36-13-32W LOGAN

Job Ticket: 16185 DST#: 12

ATTN: TERRY MCCLEOD

Test Start: 2009.11.15 @ 02:32:00

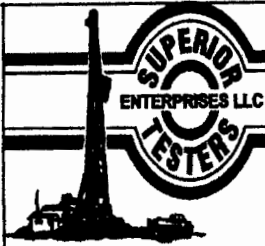
Tool Information

Drill Pipe:	Length: 3986.00 ft	Diameter: 3.80 inches	Volume: 55.91 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: 80000.00 lb
			<u>Total Volume: 58.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4585.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	34.00 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			4563.00	
Shut-In Tool	5.00			4568.00	
Hydraulic Tool	5.00			4573.00	
Safety Joint	2.00			4575.00	
Packer	5.00			4580.00	23.00 Bottom Of Top Packer
Packer	5.00			4585.00	
Perforations	6.00			4591.00	
Recorder	0.00	8524	Inside	4591.00	
Recorder	0.00	8419	Outside	4591.00	
Bullnose	5.00			4596.00	11.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
B100 E 22ND ST N #700
BOX 783188 WICHITA KS 67276
ATTN: TERRY MCCLEOD

STUCKEY 36D#2
36-13-32W LOGAN
Job Ticket: 16185 DST#: 12
Test Start: 2009.11.15 @ 02:32:00

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: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD	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:

Serial #: 8524

Inside

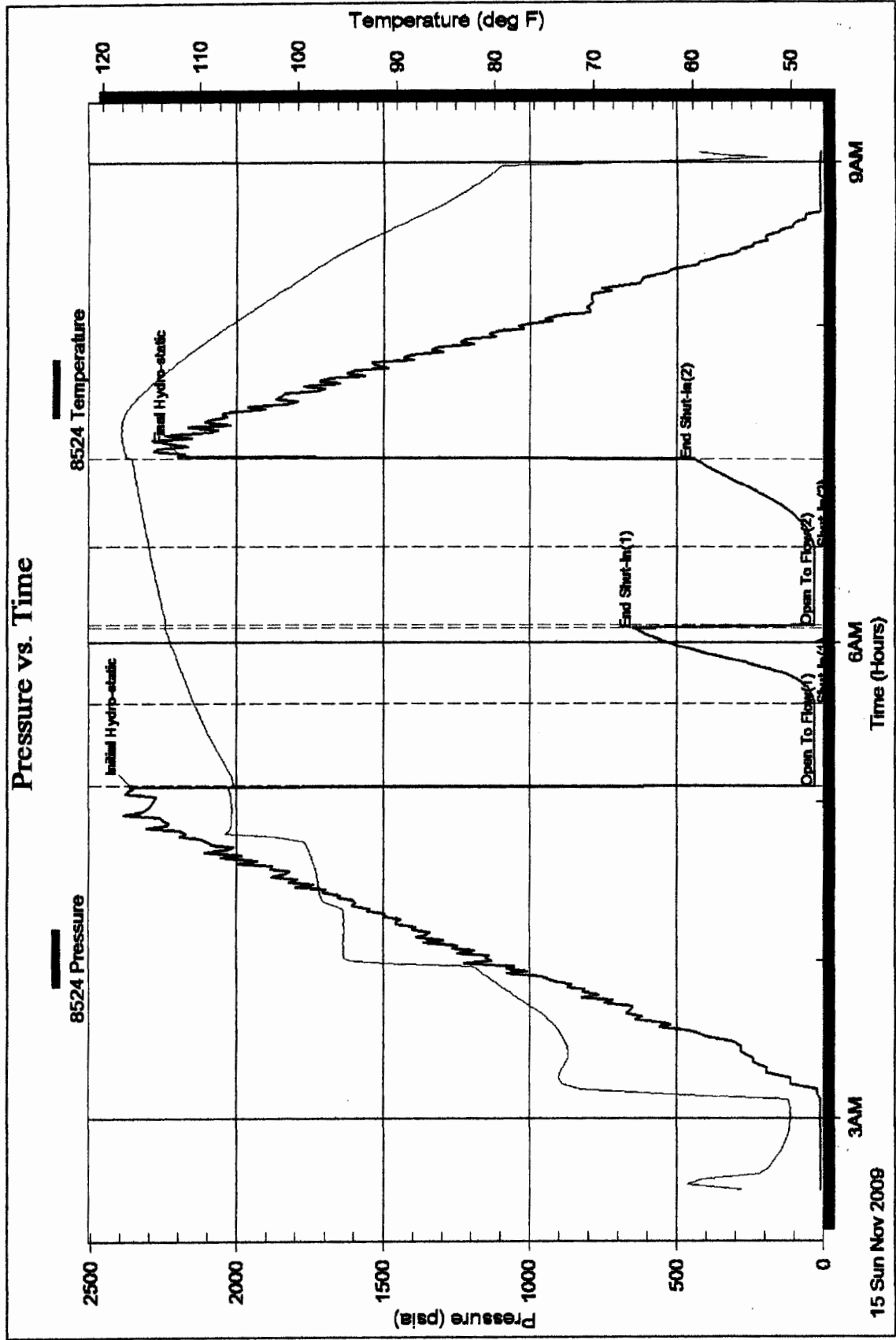
RITCHEE EXPLORATION INC

36-13-32W

LOGAN

DST Test Number: 12

Pressure vs. Time



Serial #: 8419

Outside RTCHIE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 12

