

15-009-25308

36-18s-15w



## DRILL STEM TEST REPORT

Prepared For: **L.B EXPLORATION INC**

2135 2ND RD  
HOLYROOD KS 67450+9021

ATTN: JIM MUSGROVE

**36-18-15 BARTON**

**HISS #1**

Start Date: 2009.02.07 @ 15:25:00

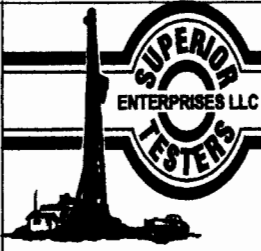
End Date: 2009.02.07 @ 20:40:55

Job Ticket #: 16687                      DST #: 1

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

Printed: 2009.02.10 @ 12:13:05

L.B EXPLORATION INC    HISS #1    36-18-15    BARTON    DST # 1    LANSING KC A-C    2009.02.07



# DRILL STEM TEST REPORT

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16687      **DST#: 1**  
 Test Start: 2009.02.07 @ 15:25:00

## GENERAL INFORMATION:

Formation: **LANSING KC A-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:58:25  
 Time Test Ended: 20:40:55  
 Interval: **3217.00 ft (KB) To 3262.00 ft (KB) (TVD)**  
 Total Depth: 3262.00 ft (KB) (TVD)  
 Hole Diameter: 6.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320 - 20 -GB  
 Reference Elevations: 1903.00 ft (KB)  
 1894.00 ft (CF)  
 KB to GR/CF: 9.00 ft

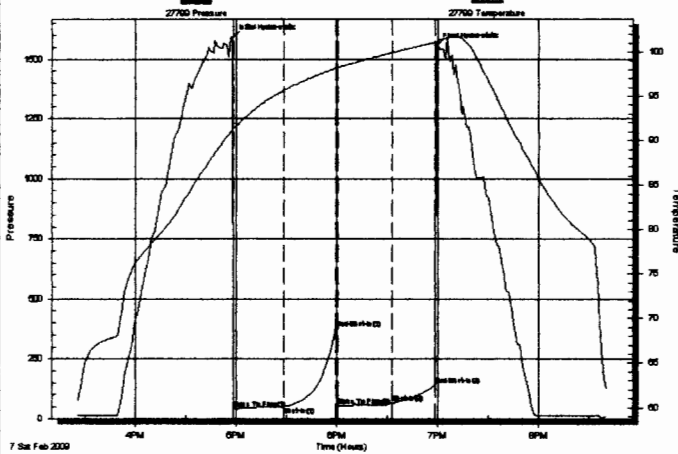
## Serial #: 27799

Inside

Press@RunDepth: 64.82 psia @ 3257.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2009.02.07      End Date: 2009.02.07      Last Calib.: 2009.02.07  
 Start Time: 15:25:25      End Time: 20:40:55      Time On Btrm: 2009.02.07 @ 16:57:25  
 Time Off Btrm: 2009.02.07 @ 18:58:55

**TEST COMMENT:** 30/INITIAL OPEN:VERY WEAK SRFACE BLOW BUILT 1/2 INCH INTO WATER IN 30 MINUTES  
 30/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:WEAK SURGE DID NOT BUILT FLUSHED TOOL 10 MINUTES INTO OPEN VERY WEAK SURFACE BLOW

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1588.35	91.16	Initial Hydro-static
1	41.40	91.39	Open To Flow (1)
31	51.98	95.67	Shut-in(1)
62	375.66	98.16	End Shut-in(1)
63	54.87	98.22	Open To Flow (2)
96	64.82	99.93	Shut-in(2)
121	140.65	101.04	End Shut-in(2)
122	1554.79	101.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%M	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

HISS #1  
**36-18-15 BARTON**  
 Job Ticket: 16687      DST#: 1  
 Test Start: 2009.02.07 @ 15:25:00

## GENERAL INFORMATION:

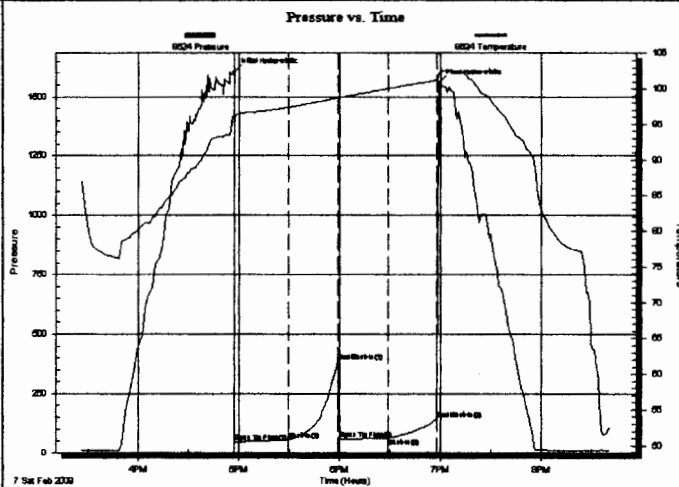
Formation: **LANSING KC A-C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 16:58:25  
 Tester: JARED SCHECK  
 Time Test Ended: 20:40:55  
 Unit No: 3320 - 20 -GB  
 Interval: **3217.00 ft (KB) To 3262.00 ft (KB) (TVD)**  
 Reference Elevations: 1903.00 ft (KB)  
 Total Depth: 3262.00 ft (KB) (TVD) 1894.00 ft (CF)  
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

## Serial #: 8524

Outside

Press@RunDepth: 143.54 psia @ 3257.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.02.07 End Date: 2009.02.07 Last Calib.: 2009.02.07  
 Start Time: 15:26:00 End Time: 20:41:00 Time On Btm: 2009.02.07 @ 16:57:00  
 Time Off Btm: 2009.02.07 @ 18:58:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SRFACE BLOW BUILT 1/2 INCH INTO WATER IN 30 MINUTES  
 30/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:WEAK SURGE DID NOT BUILT FLUSHED TOOL 10 MINUTES INTO OPEN VERY WEAK SURFACE BLOW



## PRESSURE SUMMARY

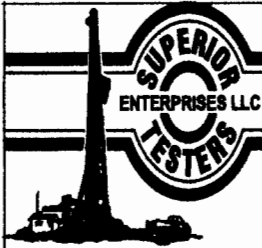
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1604.25	96.32	Initial Hydro-static
1	45.07	95.97	Open To Flow (1)
32	54.41	97.38	Shut-In(1)
62	383.54	98.70	End Shut-In(1)
63	57.45	98.76	Open To Flow (2)
92	61.98	100.04	Shut-In(2)
121	143.54	101.19	End Shut-In(2)
122	1558.89	102.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%M	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16687      **DST#: 1**  
 Test Start: 2009.02.07 @ 15:25:00

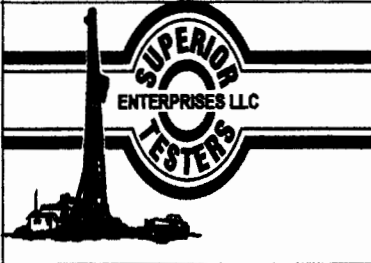
### Tool Information

Drill Pipe:	Length: 3181.00 ft	Diameter: 3.80 inches	Volume: 44.62 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3217.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 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			3197.00	
Shut-In Tool	5.00			3202.00	
Hydraulic Tool	5.00			3207.00	
Packer	5.00			3212.00	21.00      Bottom Of Top Packer
Packer	5.00			3217.00	
Perforations	40.00			3257.00	
Recorder	0.00	27799	Inside	3257.00	
Recorder	0.00	8524	Outside	3257.00	
Bullnose	5.00			3262.00	45.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>66.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16687      **DST#: 1**  
 Test Start: 2009.02.07 @ 15:25:00

## 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: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7900.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MUD 100%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:

Serial #: 27799

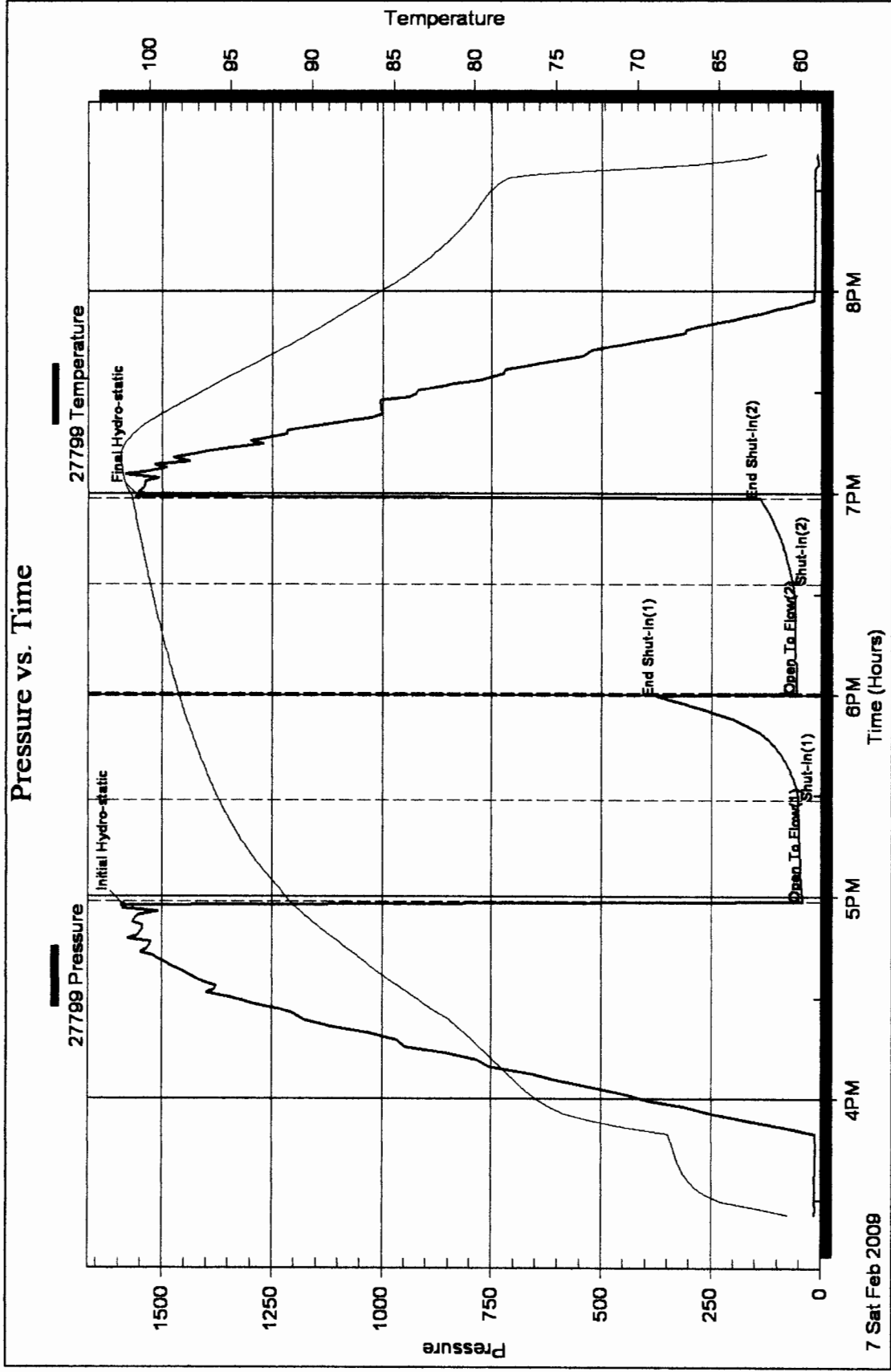
Inside

L.B. EXPLORATION INC

36-18-15 BARTON

DST Test Number: 1

### Pressure vs. Time



Printed: 2009.02.10 @ 12:13:06

Ref. No: 16687

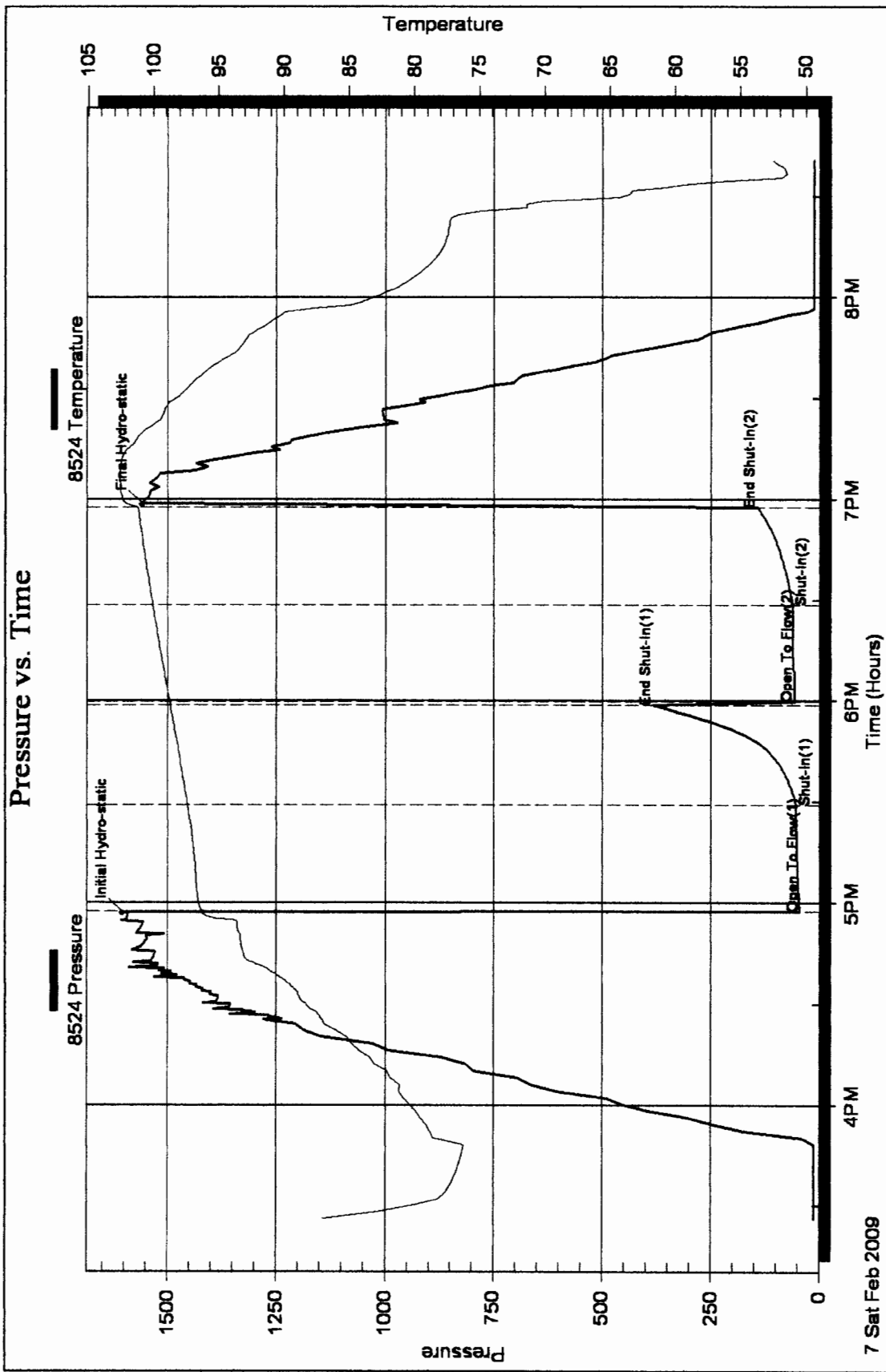
Superior Testers Enterprises LLC

DST Test Number: 1

36-18-15 BARTON

Serial #: 8524 Outside L.B. EXPLORATION INC

### Pressure vs. Time



Printed: 2009.02.10 @ 12:13:06

Ref. No: 16687

Superior Testers Enterprises LLC



## DRILL STEM TEST REPORT

Prepared For: **L.B EXPLORATION INC**

2135 2ND RD  
HOLYROOD KS 67450+9021

ATTN: JIM MUSGROVE

**36-18-15 BARTON**

**HISS #1**

Start Date: 2009.02.08 @ 12:30:00

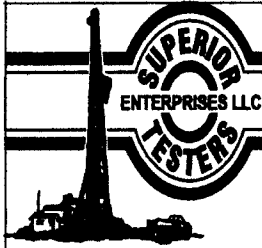
End Date: 2009.02.08 @ 20:27:24

Job Ticket #: 16688                      DST #: 2

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

Printed: 2009.02.10 @ 12:12:52

L.B EXPLORATION INC  
HISS #1  
36-18-15  
BARTON  
DST # 2  
LANSING KC H-J  
2009.02.08



# DRILL STEM TEST REPORT

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

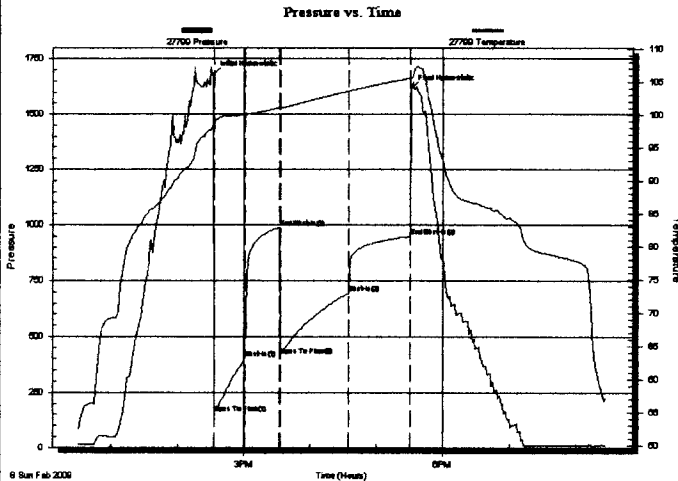
**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16688      **DST#: 2**  
 Test Start: 2009.02.08 @ 12:30:00

## GENERAL INFORMATION:

Formation: **LANSING KC H- J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 14:33:25 Tester: JARED SCHECK  
 Time Test Ended: 20:27:24 Unit No: 3320- 20- GB  
 Interval: **3348.00 ft (KB) To 3416.00 ft (KB) (TVD)** Reference Elevations: 1903.00 ft (KB)  
 Total Depth: 3416.00 ft (KB) (TVD) 1894.00 ft (CF)  
 Hole Diameter: 6.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

**Serial #: 27799 Inside**  
 Press@RunDepth: 694.19 psia @ 3411.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.02.08 End Date: 2009.02.08 Last Calib.: 2009.02.08  
 Start Time: 12:30:25 End Time: 20:27:25 Time On Btm: 2009.02.08 @ 14:32:25  
 Time Off Btm: 2009.02.08 @ 17:31:25

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



## PRESSURE SUMMARY

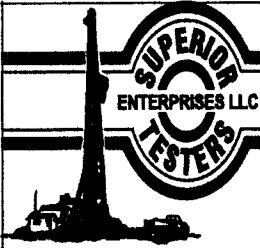
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1678.24	98.47	Initial Hydro-static
1	154.91	98.77	Open To Flow (1)
29	401.49	99.97	Shut-In(1)
61	986.53	101.08	End Shut-In(1)
61	416.65	101.09	Open To Flow (2)
123	694.19	103.59	Shut-In(2)
178	948.62	105.58	End Shut-In(2)
179	1615.64	105.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	O & M CUT W 85%O 10%M 5%W	0.57
60.00	O & M 85%O 15%M	0.84
60.00	O & M 85% O 15%M	0.84
120.00	O&M 85%O 15%M	1.68
1500.00	GO 15%G 85%O	21.04

## Gas Rates

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



# DRILL STEM TEST REPORT

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16688      **DST#: 2**  
 Test Start: 2009.02.08 @ 12:30:00

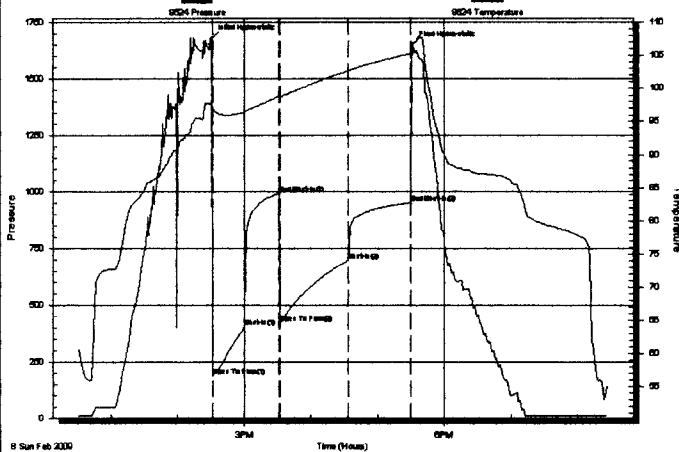
## GENERAL INFORMATION:

Formation: **LANSING KC H- J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:33:25  
 Time Test Ended: 20:27:24  
 Interval: **3348.00 ft (KB) To 3416.00 ft (KB) (TVD)**  
 Total Depth: 3416.00 ft (KB) (TVD)  
 Hole Diameter: 6.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320- 20- GB  
 Reference Elevations: 1903.00 ft (KB)  
 1894.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8524      Outside**  
 Press@RunDepth: 951.53 psia @ 3411.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2009.02.08      End Date: 2009.02.08      Last Calib.: 2009.02.08  
 Start Time: 12:31:00      End Time: 20:27:00      Time On Btrr: 2009.02.08 @ 14:31:00  
 Time Off Btrr: 2009.02.08 @ 17:31:00

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

Pressure vs. Time



## PRESSURE SUMMARY

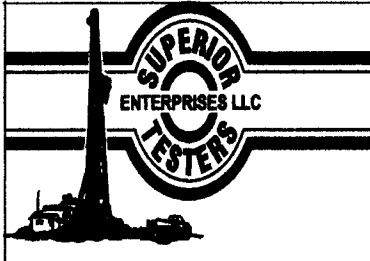
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1681.65	97.83	Initial Hydro-static
2	187.88	97.18	Open To Flow (1)
29	402.21	96.43	Shut-in(1)
60	991.90	98.78	End Shut-in(1)
61	418.44	98.72	Open To Flow (2)
123	696.31	102.67	Shut-in(2)
179	951.53	105.32	End Shut-in(2)
180	1652.29	106.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	O & M CUT W 85%O 10%M 5%W	0.57
60.00	O & M 85%O 15%M	0.84
60.00	O & M 85% O 15%M	0.84
120.00	O & M 85%O 15%M	1.68
1500.00	GO 15%G 85%O	21.04

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16688      DST#: 2  
 Test Start: 2009.02.08 @ 12:30:00

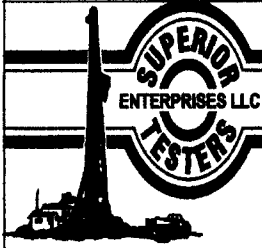
### Tool Information

Drill Pipe:	Length: 3308.00 ft	Diameter: 3.80 inches	Volume: 46.40 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 46.55 bbl</b>	Tool Chased 3.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3348.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: HIT BRIDGE 540 FEET FROM BOTTOM OF HOLE HAD TO OPEN TOOL TO GET TO BOTTOM /GAS TO SURFACE 25 MINUTES INTO 2ND OPEN DID NOT HAVE ENOUGH TO GAUGE SAMPLE WAS TAKEN

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3328.00	
Shut-in Tool	5.00			3333.00	
Hydraulic Tool	5.00			3338.00	
Packer	5.00			3343.00	21.00      Bottom Of Top Packer
Packer	5.00			3348.00	
Change Over Sub	0.75			3348.75	
Drill Pipe	30.50			3379.25	
Perforations	31.00			3410.25	
Change Over Sub	0.75			3411.00	
Recorder	0.00	27799	Inside	3411.00	
Recorder	0.00	8524	Outside	3411.00	
Bullnose	5.00			3416.00	68.00      Bottom Packers & Anchor

**Total Tool Length: 89.00**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16688      DST#: 2  
 Test Start: 2009.02.08 @ 12:30:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 39.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 9000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O & M CUT W 85%O 10%M 5%W	0.568
60.00	O & M 85%O 15%M	0.842
60.00	O & M 85% O 15%M	0.842
120.00	O&M 85%O 15%M	1.683
1500.00	GO 15%G 85%O	21.041

Total Length: 1800.00 ft      Total Volume: 24.976 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: HIT BRIDGE 540 FEET FROM BOTTOM OF HOLE GAS TO SURFACE 25 MINUTES INTO 2 ND OPEN  
 NOT ENOUGH TO GAUGE SAMPLE WAS TAKEN / CHLORIDES 20,000

Serial #: 27799

Inside

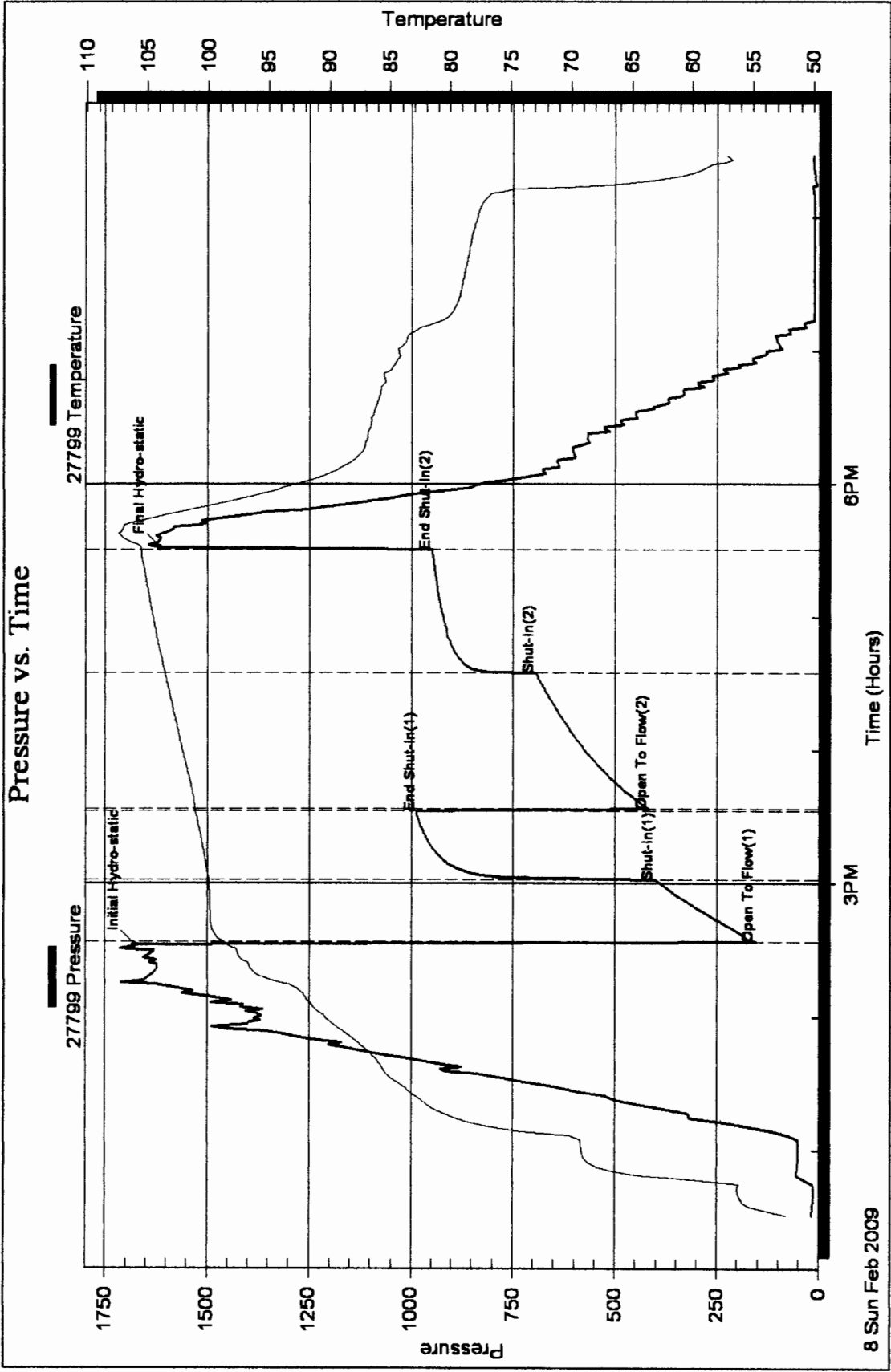
L.B. EXPLORATION INC

36-18-15

BARTON

DST Test Number: 2

### Pressure vs. Time



8 Sun Feb 2009

6PM

3PM

Time (Hours)

Printed: 2009.02.10 @ 12:12:53

Ref. No: 16688

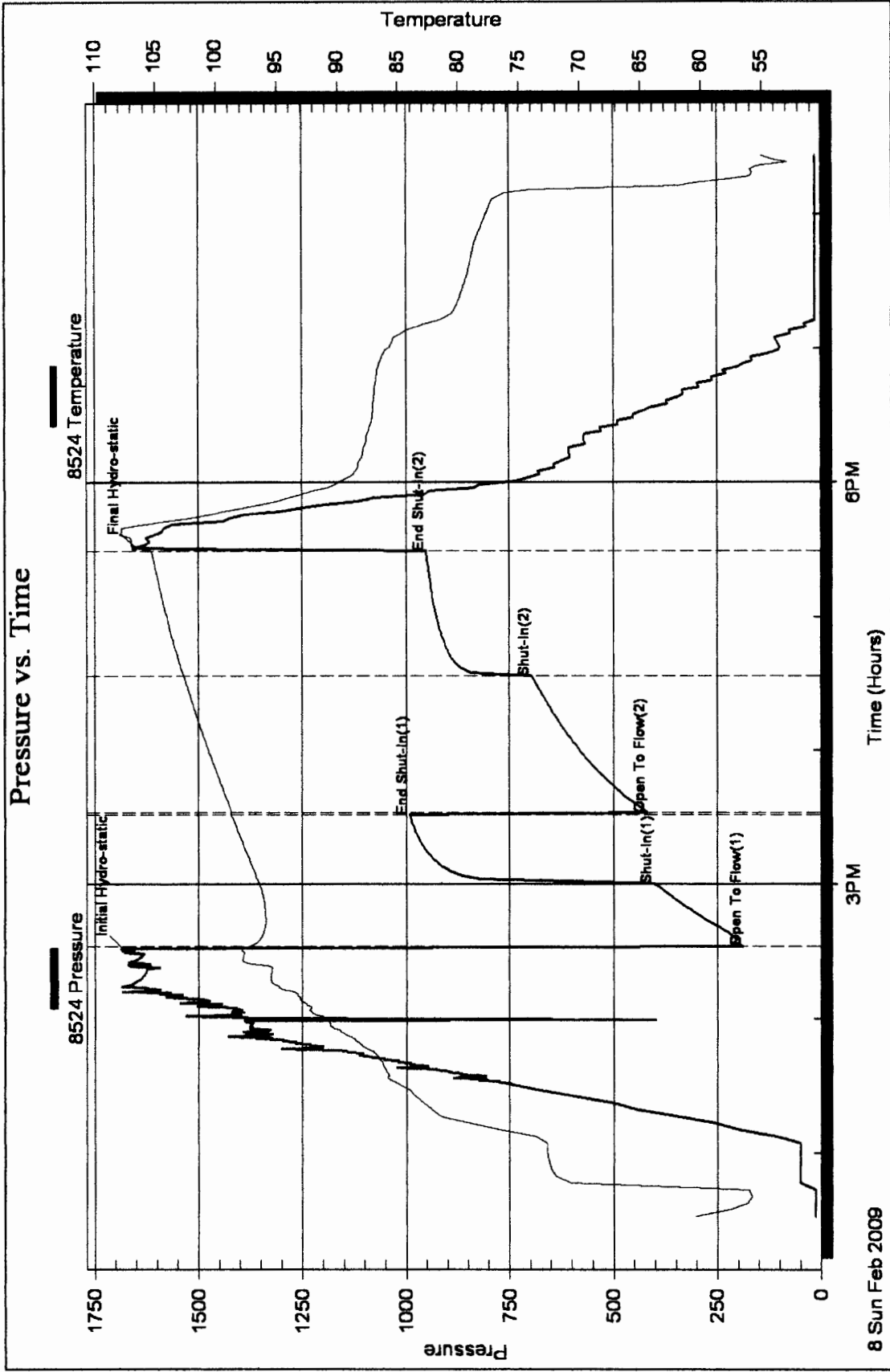
Superior Testers Enterprises LLC

Serial #: 8524

Outside L.B EXPLORATION INC

36-18-15 BARTON

DST Test Number: 2



Printed: 2009.02.10 @ 12:12:53

Ref. No: 16688

Superior Testers Enterprises LLC



## DRILL STEM TEST REPORT

Prepared For: **L.B EXPLORATION INC**

2135 2ND RD  
HOLYROOD KS 67450+9021

ATTN: JIM MUSGROVE

**36-18-15 BARTON**

**HISS #1**

Start Date: 2009.02.09 @ 09:50:00

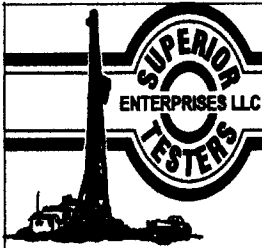
End Date: 2009.02.09 @ 16:43:54

Job Ticket #: 16689                      DST #: 3

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

Printed: 2009.02.10 @ 12:12:26

L.B EXPLORATION INC  
HISS #1  
36-18-15  
BARTON  
DST # 3  
ARBUCKLE  
2009.02.09



# DRILL STEM TEST REPORT

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

**HISS #1**  
**36-18-15 BARTON**  
 Job Ticket: 16689      **DST#: 3**  
 Test Start: 2009.02.09 @ 09:50:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:55:55  
 Time Test Ended: 16:43:54  
 Interval: **3443.00 ft (KB) To 3503.00 ft (KB) (TVD)**  
 Total Depth: 3503.00 ft (KB) (TVD)  
 Hole Diameter: 6.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320 - 20 - GB  
 Reference Elevations: 1903.00 ft (KB)  
 1894.00 ft (CF)  
 KB to GR/CF: 9.00 ft

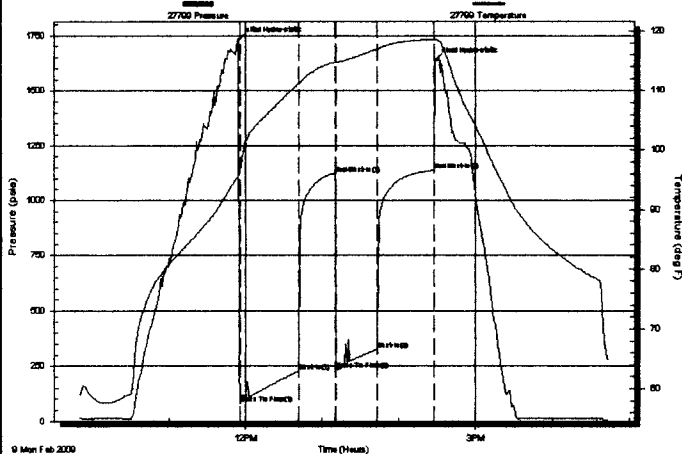
## Serial #: 27799

Inside

Press@RunDepth: 324.11 psia @ 3498.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2009.02.09      End Date: 2009.02.09      Last Calib.: 2009.02.09  
 Start Time: 09:50:25      End Time: 16:43:55      Time On Btm: 2009.02.09 @ 11:54:25  
 Time Off Btm: 2009.02.09 @ 14:28:25

**TEST COMMENT:** 45/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT BOTTOM OF BUCKET IN 19 MINUTES  
 30/INITIAL SHUT IN:BOTTOM OF BUCKET  
 30/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES  
 45/FINAL SHUT IN:BOTTOM OF BUCKET

Pressure vs. Time



## PRESSURE SUMMARY

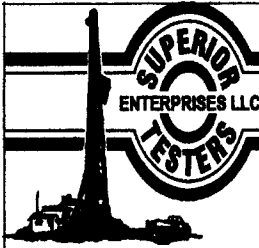
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1728.94	95.52	Initial Hydro-static
2	81.27	96.43	Open To Flow (1)
47	225.44	111.13	Shut-In(1)
77	1118.70	114.86	End Shut-In(1)
77	234.69	114.87	Open To Flow (2)
109	324.11	117.00	Shut-In(2)
153	1136.88	118.61	End Shut-In(2)
154	1635.44	118.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	G O CUT M 10%G 60%O 30%M	3.93
365.00	G O 10%G 90%O	5.12
960.00	GAS IN PIPE	13.47

## Gas Rates

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



# DRILL STEM TEST REPORT

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

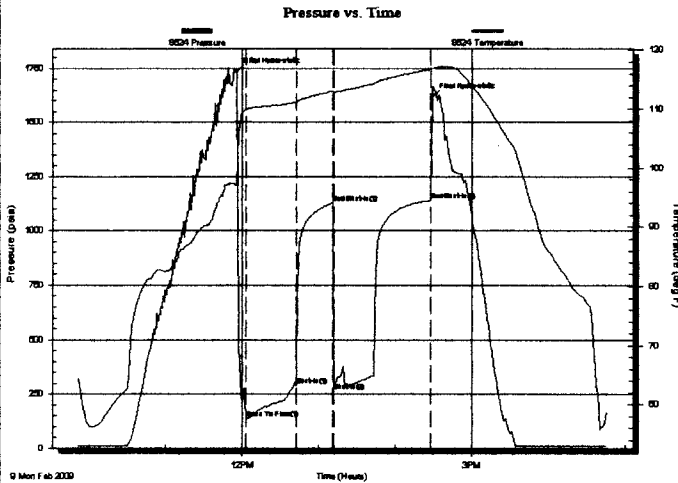
HISS #1  
 36-18-15 BARTON  
 Job Ticket: 16689 DST#: 3  
 Test Start: 2009.02.09 @ 09:50:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 11:55:55 Tester: JARED SCHECK  
 Time Test Ended: 16:43:54 Unit No: 3320 - 20 - GB  
 Interval: **3443.00 ft (KB) To 3503.00 ft (KB) (TVD)** Reference Elevations: 1903.00 ft (KB)  
 Total Depth: 3503.00 ft (KB) (TVD) 1894.00 ft (CF)  
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 8524 Outside**  
 Press@RunDepth: 1138.79 psia @ 3498.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.02.09 End Date: 2009.02.09 Last Calib.: 2009.02.09  
 Start Time: 09:51:00 End Time: 16:46:00 Time On Btrm: 2009.02.09 @ 11:55:30  
 Time Off Btrm: 2009.02.09 @ 14:29:00

**TEST COMMENT:** 45/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT BOTTOM OF BUCKET IN 19 MINUTES  
 30/INITIAL SHUT IN:BOTTOM OF BUCKET  
 30/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES  
 45/FINAL SHUT IN:BOTTOM OF BUCKET



## PRESSURE SUMMARY

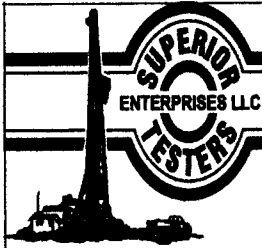
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1734.28	97.06	Initial Hydro-static
8	137.97	109.98	Open To Flow (1)
47	290.49	111.17	Shut-In(1)
75	1126.15	113.09	End Shut-In(1)
76	262.52	112.85	Shut-In(2)
153	1138.79	116.68	End Shut-In(2)
154	1615.94	116.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	GO CUT M 10%G 60%O 30%M	3.93
365.00	GO 10%G 90%O	5.12
960.00	GAS IN PIPE	13.47

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B EXPLORATION INC  
 2135 2ND RD  
 HOLYROOD KS 67450+9021  
 ATTN: JIM MUSGROVE

HISS #1  
 36-18-15 BARTON  
 Job Ticket: 16689 DST#: 3  
 Test Start: 2009.02.09 @ 09:50:00

**Tool Information**

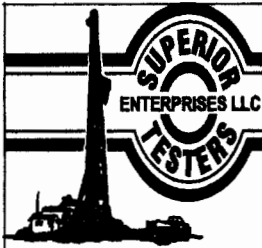
Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 47.82 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3443.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: TOOL CHASED 10 FEET

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

Change Over Sub	1.00			3423.00	
Shut-In Tool	5.00			3428.00	
Hydraulic Tool	5.00			3433.00	
Packer	5.00			3438.00	21.00          Bottom Of Top Packer
Packer	5.00			3443.00	
Change Over Sub	0.75			3443.75	
Drill Pipe	32.50			3476.25	
Perforations	21.00			3497.25	
Change Over Sub	0.75			3498.00	
Recorder	0.00	27799	Inside	3498.00	
Recorder	0.00	8524	Outside	3498.00	
Bullnose	5.00			3503.00	60.00          Bottom Packers & Anchor

**Total Tool Length:      81.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

L.B EXPLORATION INC  
2135 2ND RD  
HOLYROOD KS 67450+9021  
ATTN: JIM MUSGROVE

HISS #1  
36-18-15 BARTON  
Job Ticket: 16689 DST#: 3  
Test Start: 2009.02.09 @ 09:50:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	G O CUT M 10%G 60%O 30%M	3.935
365.00	G O 10%G 90%O	5.120
960.00	GAS IN PIPE	13.466

Total Length: 1625.00 ft Total Volume: 22.521 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: TOOL CHASED 10 FEET

Serial #: 27799

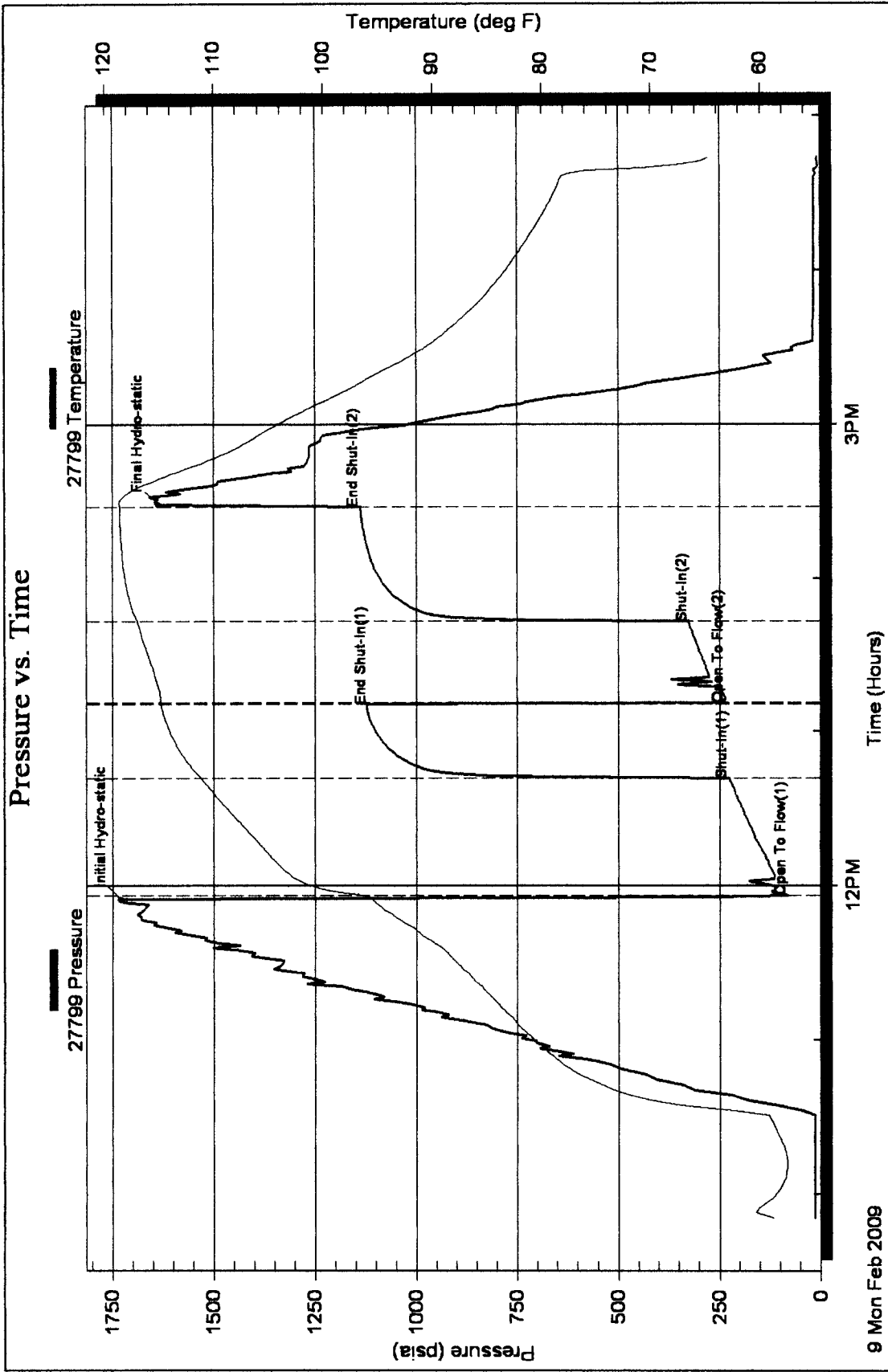
Inside

L.B EXPLORATION INC

36-18-15 BARTON

DST Test Number: 3

### Pressure vs. Time



9 Mon Feb 2009

Superior Testers Enterprises LLC

Ref. No: 16689

Printed: 2009.02.10 @ 12:12:27

Serial #: 8524

Outside L.B EXPLORATION INC

36-18-15 BARTON

DST Test Number: 3

