



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35-16s-15w Barton, KS

1515 Wynkoop Ste 700
Denver CO 80202

James #1-35

Job Ticket: 53620

DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.05.09 @ 22:09:00

GENERAL INFORMATION:

Formation: **LKC " C - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:40:00

Time Test Ended: 09:22:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3264.00 ft (KB) To 3350.00 ft (KB) (TVD)

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8322 Outside

Press @ Run Depth: 396.70 psig @ 3271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.09

End Date:

2013.05.10

Last Calib.:

2013.05.10

Start Time: 22:09:01

End Time:

09:21:30

Time On Btm:

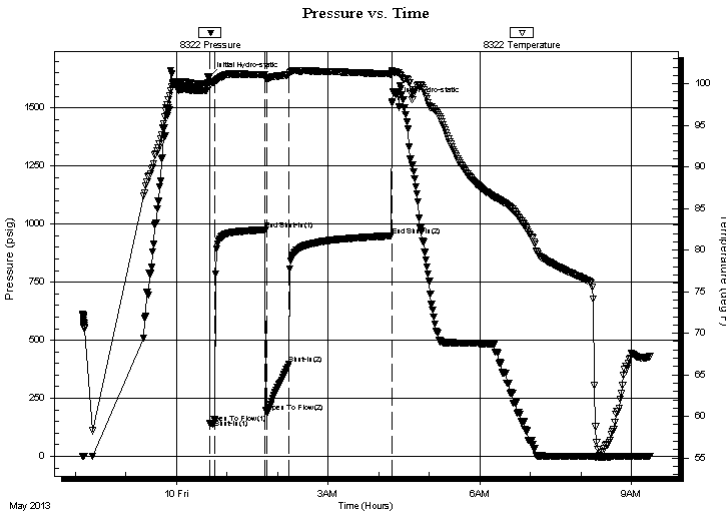
2013.05.10 @ 00:39:40

Time Off Btm:

2013.05.10 @ 04:15:40

TEST COMMENT: 5-IFP- BOB in 1 min.
60-ISIP- BOB in 3 min.
30-FFP- BOB in 35 sec. GTS in 18 min
120-FSIP- BOB in 2 sec.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.40	100.14	Initial Hydro-static
1	141.02	99.68	Open To Flow (1)
7	160.79	100.20	Shut-In(1)
66	974.27	101.08	End Shut-In(1)
68	188.51	100.66	Open To Flow (2)
94	396.70	101.09	Shut-In(2)
216	948.88	101.18	End Shut-In(2)
216	1525.59	101.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	CO 100%	2.10
125.00	GOCM 10%g 40%o 40%m	1.75
187.00	GMCO 5%g 10%m 85%o	2.62
125.00	GOCM 20%g 20%o 60%m	1.75
310.00	GWMCO 10%g 5%w 5%m 80%o	4.35
125.00	GMWCO 20%g 20%m 30%w 30%o	1.75

* Recovery from multiple tests

Gas Rates

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



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Reference Elevations: 1996.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8734 Below (Straddle)

Press @ RunDepth: psig @ 3352.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.09

End Date:

2013.05.10

Last Calib.:

2013.05.10

Start Time: 22:09:01

End Time:

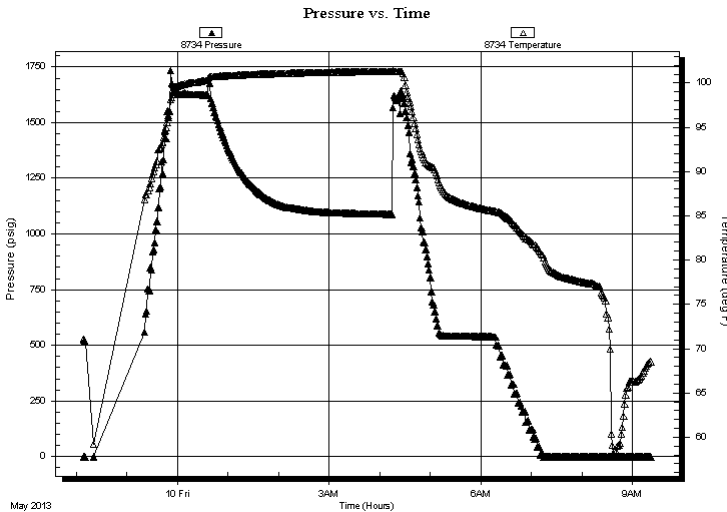
09:21:19

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP- BOB in 1 min.
60-ISIP- BOB in 3 min.
30-FFP- BOB in 35 sec. GTS in 18 min
120-FSIP- BOB in 2 sec.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
150.00	CO 100%	2.10
125.00	GOCM 10%g 40%o 40%m	1.75
187.00	GMCO 5%g 10%m 85%o	2.62
125.00	GOCM 20%g 20%o 60%m	1.75
310.00	GWMCO 10%g 5%w 5%m 80%o	4.35
125.00	GMMCO 20%g 20%m 30%w 30%o	1.75

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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Reference Elevations: 1996.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8736

Fluid

Press @ Run Depth: psig @ 3230.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.09

End Date: 2013.05.10

Last Calib.: 2013.05.10

Start Time: 22:09:01

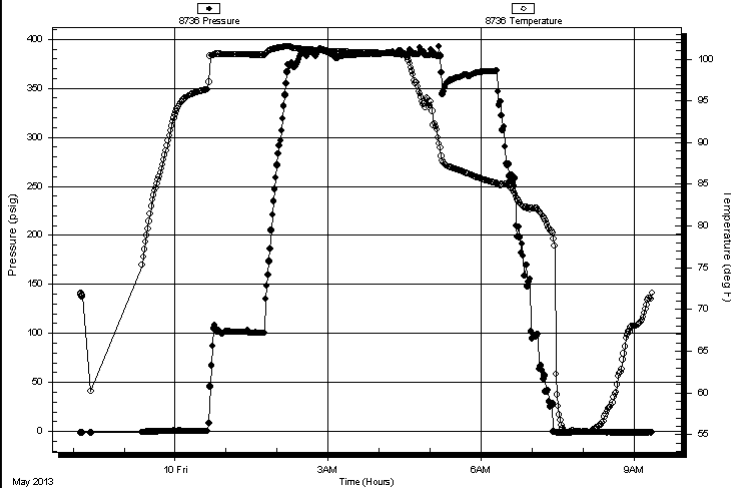
End Time: 09:21:19

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP- BOB in 1 min.
60-ISIP- BOB in 3 min.
30-FFP- BOB in 35 sec. GTS in 18 min
120-FSIP- BOB in 2 sec.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
150.00	CO 100%	2.10
125.00	GOCM 10%g 40%o 40%m	1.75
187.00	GMCO 5%g 10%m 85%o	2.62
125.00	GOCM 20%g 20%o 60%m	1.75
310.00	GWMCO 10%g 5%w 5%m 80%o	4.35
125.00	GMMCO 20%g 20%m 30%w 30%o	1.75

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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James #1-35

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DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.05.09 @ 22:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	CO 100%	2.104
125.00	GOCM 10%g 40%o 40%m	1.753
187.00	GMCO 5%g 10%m 85%o	2.623
125.00	GOCM 20%g 20%o 60%m	1.753
310.00	GWMCO 10%g 5%w 5%m 80%o	4.348
125.00	GMWCO 20%g 20%m 30%w 30%o	1.753
0.00	Gas to Surface 18 min. into 2nd Open	0.000

Total Length: 1022.00 ft Total Volume: 14.334 bbl

Num Fluid Samples: 0

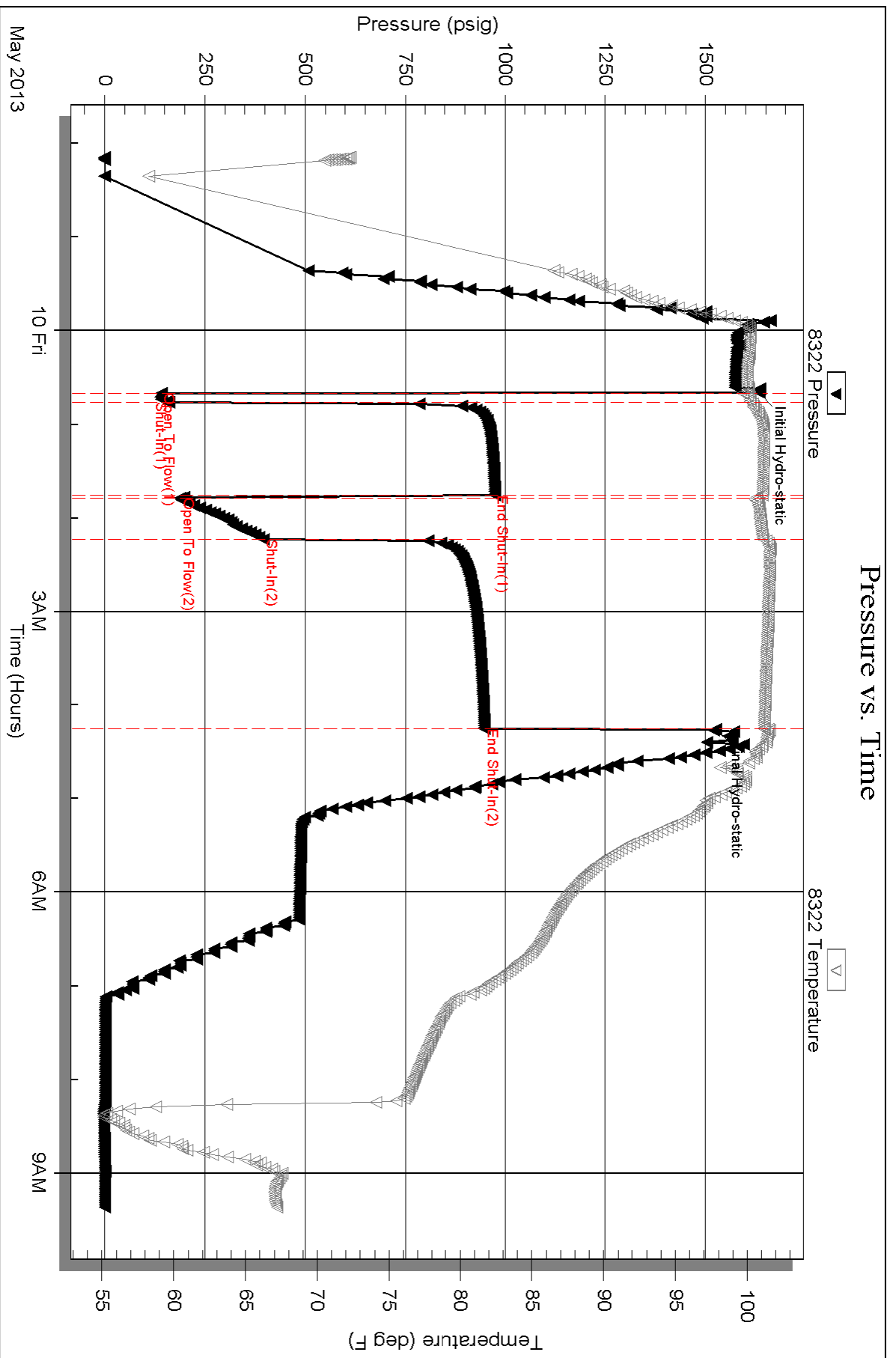
Num Gas Bombs: 0

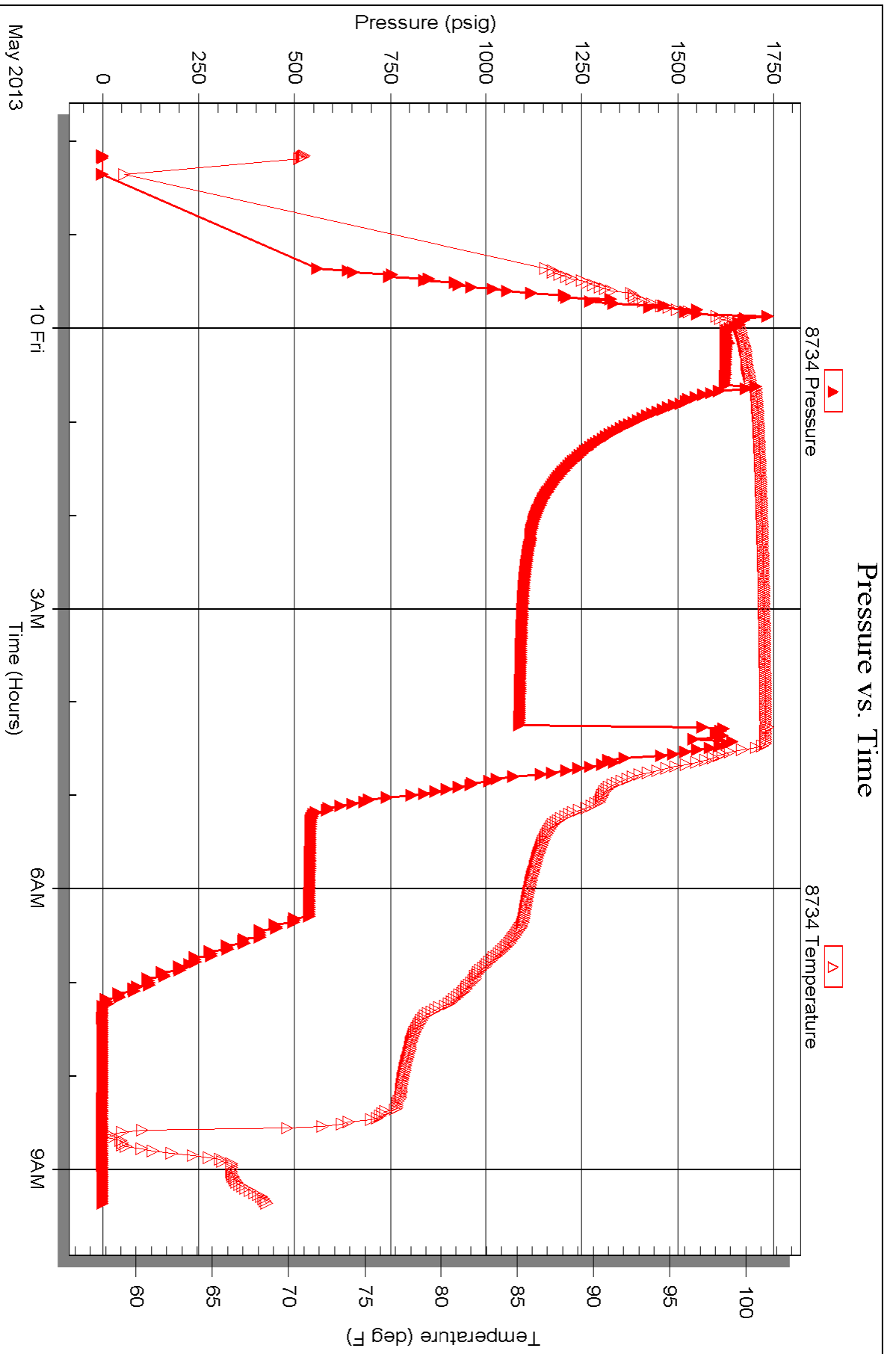
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 2200ml CO 100% 750psi 37gravity





Serial #: 8736

Fluid

Samuel Gary Jr. & Associates

James #1-35

DST Test Number: 2

