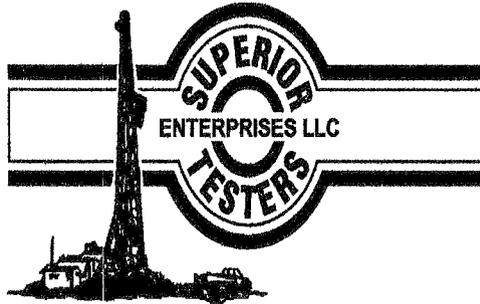


15-009-25230

8-17s-12w

IND



DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR. & ASSOCIATES, INC.**

1560 BROADWAY SUITE 2100
DENVER CO. 80202

ATTN: CLAYTON CAMOZZI

8-17S-12W BARTON KS

DEMEL # 1-8

Start Date: 2008.07.28 @ 11:44:12

End Date: 2008.07.28 @ 20:19:12

Job Ticket #: 16703 DST #: 1

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

Printed: 2008.07.28 @ 11:51:34

SAMUEL GARY JR. & ASSOCIATES, INC.

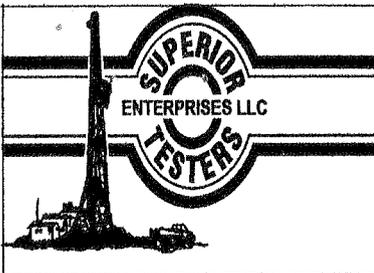
DEMEL # 1-8

8-17S-12W BARTON KS

DST # 1

LANSING

2008.07.28



DRILL STEM TEST REPORT

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16703 DST#: 1

ATTN: CLAYTON CAMOZZI

Test Start: 2008.07.28 @ 11:44:12

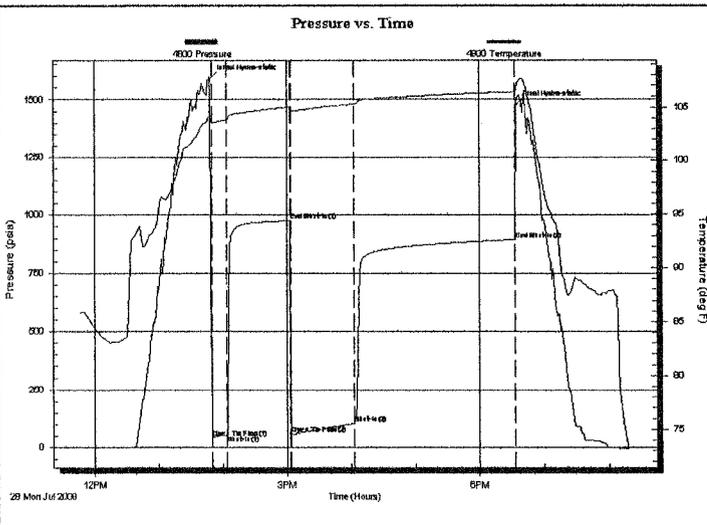
GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:49:42 Tester: RANDY WILLIAMS
 Time Test Ended: 20:19:12 Unit No: 3325/48 MILES-GB
 Interval: **3156.00 ft (KB) To 3220.00 ft (KB) (TVD)** Reference Elevations: 1910.00 ft (KB)
 Total Depth: 3220.00 ft (KB) (TVD) 1900.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 4800

Press@RunDepth: 103.73 psia @ ft (KB) Capacity: psia
 Start Date: 2008.07.28 End Date: 2008.07.28 Last Calib.: 1899.12.30
 Start Time: 11:46:12 End Time: 20:19:12 Time On Btm: 2008.07.28 @ 13:48:42
 Time Off Btm: 2008.07.28 @ 18:33:42

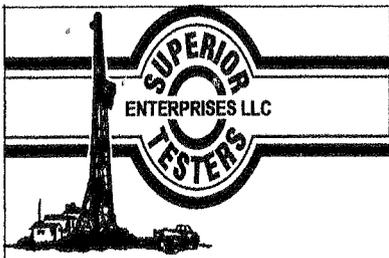
TEST COMMENT: INITIAL BLOW:SLOW BUILDING BLOW BUILT TO 2 INCHS IN 15 MINS INTO 5 GALLON BUCKET OF WATER
 BLOW BACK:NO
 FINAL BLOW:SLOW BUILDING BLOW BUILT TO 7 INCHS IN 60 MINS
 BLOW BACK:NO



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1589.72	104.10	Initial Hydro-static
2	43.11	103.58	Open To Flow (1)
15	55.42	103.86	Shut-In(1)
74	976.14	105.06	End Shut-In(1)
75	57.82	104.67	Open To Flow (2)
134	103.73	105.31	Shut-In(2)
284	893.90	106.44	End Shut-In(2)
285	1477.18	106.58	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
151.00	WATERY / DRILLING MUD	2.12

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16703

DST#: 1

ATTN: CLAYTON CAMOZZI

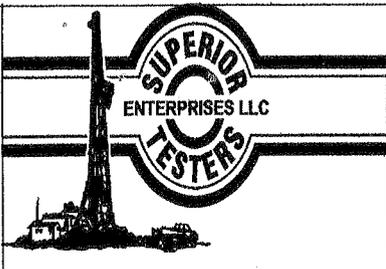
Test Start: 2008.07.28 @ 11:44:12

Tool Information

Drill Pipe:	Length: 3144.00 ft	Diameter: 3.80 inches	Volume: 44.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 2000.00 lb
			<u>Total Volume: 44.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3156.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3135.00	
Jars	5.00			3140.00	
Safety Joint	1.00			3141.00	
HYD S.I. Tool	5.00			3146.00	
Packer	5.00			3151.00	26.00 Bottom Of Top Packer
Packer	5.00			3156.00	
C.O. Sub	1.00			3157.00	
C.O. Sub	1.00			3158.00	
Perforations	57.00			3215.00	
Bullnose	5.00			3220.00	64.00 Bottom Packers & Anchor
Total Tool Length:	90.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16703

DST#: 1

ATTN: CLAYTON CAMOZZI

Test Start: 2008.07.28 @ 11:44:12

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:	32000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7800.00 ppm			
Filter Cake: 0.10 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
151.00	WATERY / DRILLING MUD	2.118

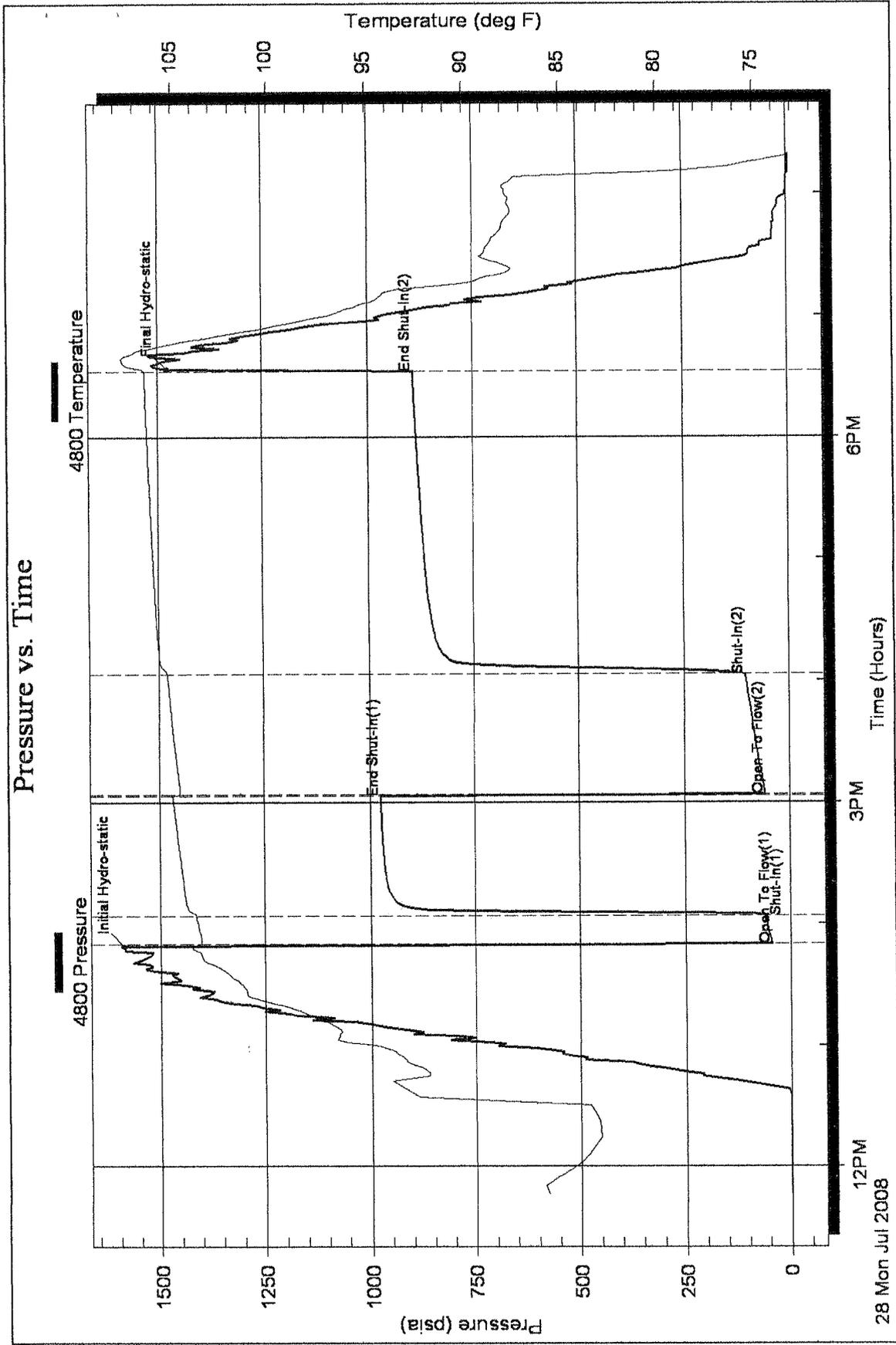
Total Length: 151.00 ft Total Volume: 2.118 bbl

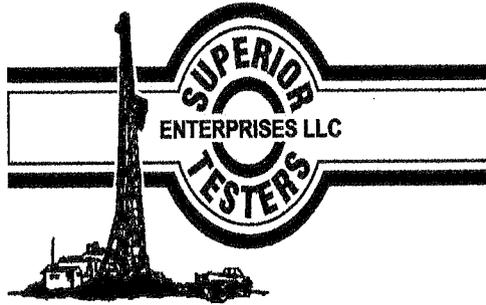
Num Fluid Samples: 3 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR. & ASSOCIATES, INC.**

1560 BROADWAY SUITE 2100
DENVER CO. 80202

ATTN: CLAYTON CAMOZZI

8-17S-12W BARTON KS

DEMEL # 1-8

Start Date: 2008.07.29 @ 04:15:00

End Date: 2008.07.29 @ 22:00:00

Job Ticket #: 16704 DST #: 2

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

Printed: 2008.07.30 @ 08:03:09

SAMUEL GARY JR. & ASSOCIATES, INC.

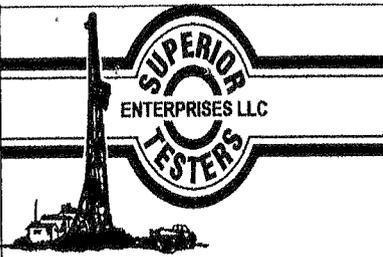
DEMEL # 1-8

8-17S-12W BARTON KS

DST # 2

ARBUCKLE / KANSAS CIT

2008.07.29



DRILL STEM TEST REPORT

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16704

DST#: 2

ATTN: CLAYTON CAMOZZI

Test Start: 2008.07.29 @ 04:15:00

GENERAL INFORMATION:

Formation: **ARBUCKLE / KANSAS CIT**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:00

Time Test Ended: 22:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: RANDY WILLIAMS

Unit No: 3325 / 48 MILES GB

Interval: **3315.00 ft (KB) To 3392.00 ft (KB) (TVD)**

Total Depth: 3392.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1910.00 ft (KB)

1900.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 4800

Press@RunDepth: 1116.13 psia @ ft (KB)

Start Date: 2008.07.29

End Date:

2008.07.29

Start Time: 11:46:12

End Time:

21:52:42

Capacity: 5000.00 psia

Last Calib.: 1899.12.30

Time On Btm: 2008.07.29 @ 13:55:12

Time Off Btm: 2008.07.29 @ 18:44:42

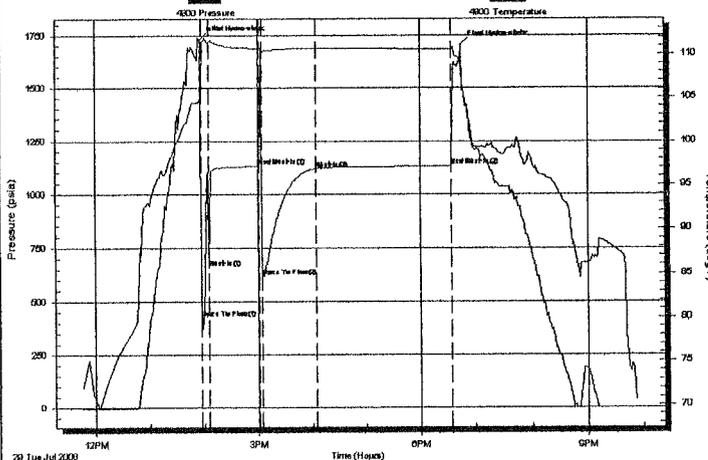
TEST COMMENT: INITIAL BLOW: STRONG BLOW TO BOTTEM OF BUCKET IN LESS THAN 1 MIN

BLOW BACK: NO

FINAL BLOW: NO BLOW FLUSHED TOOL. STRONG BLOW TO BOTTEM OF BUCKET LESS THAN 1 MIN TOOL

OPEN AT 7:07

Pressure vs. Time



PRESSURE SUMMARY

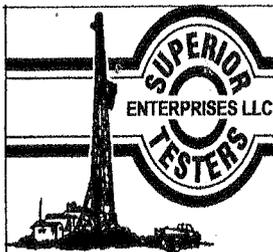
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1731.42	104.80	Initial Hydro-static
2	422.26	105.88	Open To Flow (1)
11	656.52	111.36	Shut-In(1)
66	1128.45	110.58	End Shut-In(1)
69	617.40	110.12	Open To Flow (2)
129	1116.13	110.62	Shut-In(2)
279	1128.98	110.58	End Shut-In(2)
290	1703.82	108.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	CLEAN OIL	0.06
1607.00	MUDDY WATER 60% WATER 40% OIL	22.54
1008.00	OIL / WATER 80% WATER 20% OIL	14.14
378.00	WATER	5.30

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16704

DST#: 2

ATTN: CLAYTON CAMOZZI

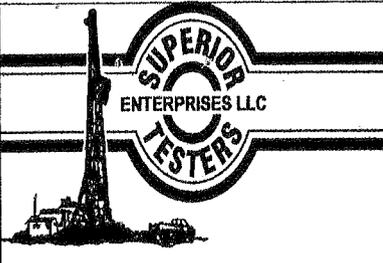
Test Start: 2008.07.29 @ 04:15:00

Tool Information

Drill Pipe:	Length: 3303.00 ft	Diameter: 3.80 inches	Volume: 46.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 46.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3315.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3294.00	
HYD S.I. Tool	5.00			3299.00	
Jars	5.00			3304.00	
Safety Joint	1.00			3305.00	
Packer	5.00			3310.00	26.00 Bottom Of Top Packer
Packer	5.00			3315.00	
C.O. Sub	1.00			3316.00	
C.O. Sub	1.00			3317.00	
Perforations	70.00			3387.00	
Bullnose	5.00			3392.00	77.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16704

DST#: 2

ATTN: CLAYTON CAMOZZI

Test Start: 2008.07.29 @ 04:15:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 59.00 sec/qt
 Water Loss: 2.25 in³
 Resistivity: ohm.m
 Salinity: 8900.00 ppm
 Filter Cake: 0.10 inches

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

Oil API: deg API
 Water Salinity: 22000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	CLEAN OIL	0.056
1607.00	MUDDY WATER 60%WATER 40% MUD	22.542
1008.00	OIL / WATER 80% WATER 20% OIL	14.140
378.00	WATER	5.302

Total Length: 2997.00 ft Total Volume: 42.040 bbl

Num Fluid Samples: 4

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

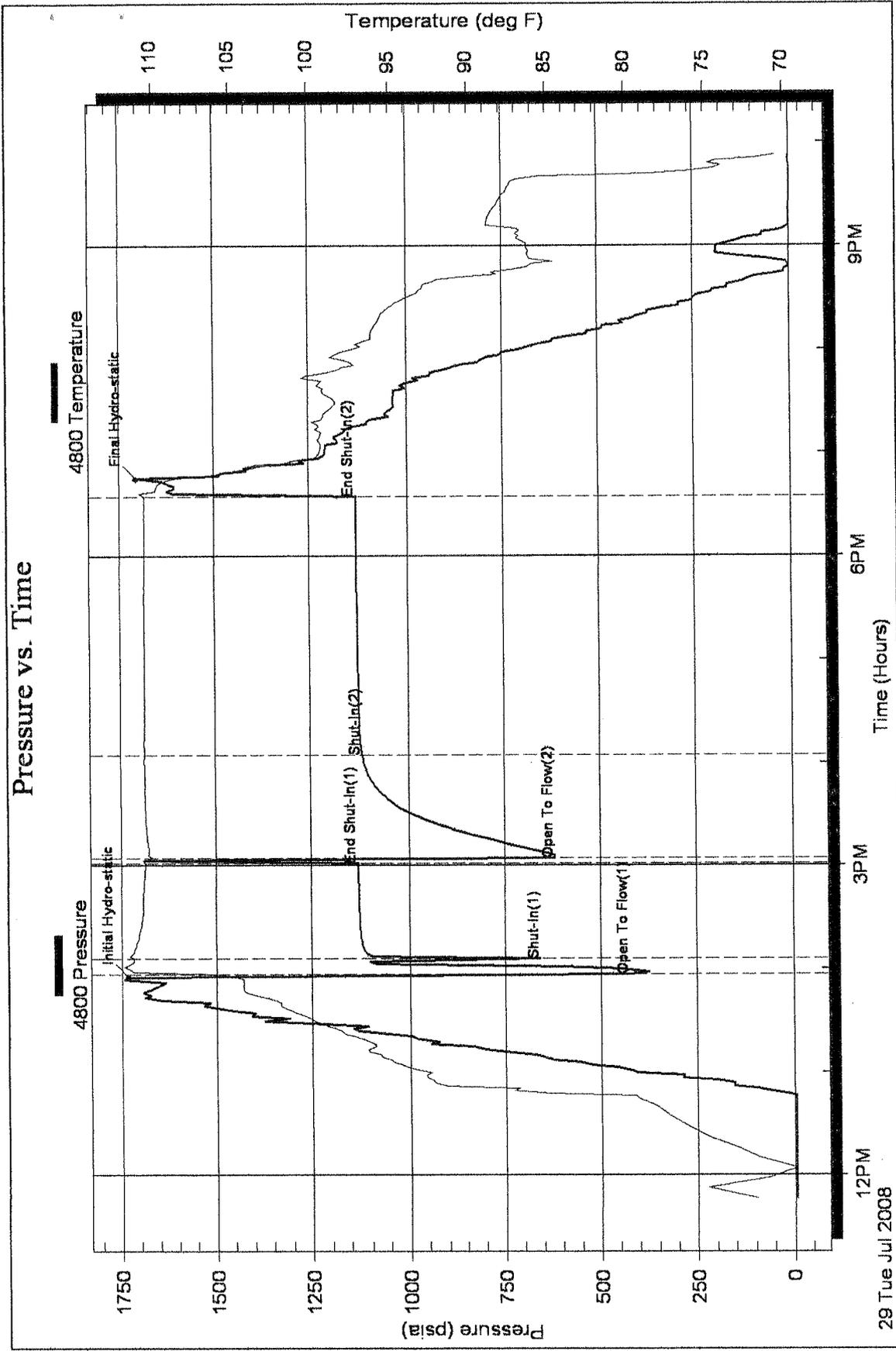
Serial #: 4800

SAMUEL GARY JR. & ASSOCIATES, INC.

8-17S-12W BARTON KS

DST Test Number: 2

Pressure vs. Time



Printed: 2008.07.30 @ 08:03:10

Ref. No: 16704

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR. & ASSOCIATES, INC.**

1560 BROADWAY SUITE 2100
DENVER CO. 80202

ATTN: CLAYTON CAMOZZI

8-17S-12W BARTON KS

DEMEL # 1-8

Start Date: 2008.07.30 @ 11:44:12

End Date: 2008.08.02 @ 01:55:41

Job Ticket #: 16705 DST #: 3

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

Printed: 2008.07.31 @ 09:40:34

SAMUEL GARY JR. & ASSOCIATES, INC.

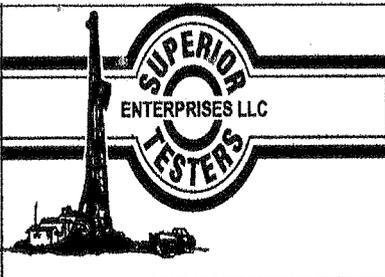
DEMEL # 1-8

8-17S-12W BARTON KS

DST # 3

ARUBCKLE

2008.07.30



DRILL STEM TEST REPORT

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16705

DST#: 3

ATTN: CLAYTON CAMOZZI

Test Start: 2008.07.30 @ 11:44:12

GENERAL INFORMATION:

Formation: **ARUBCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:43:41

Time Test Ended: 01:55:41

Test Type: Conventional Straddle (Initial)

Tester: RANDY WILLIAMS

Unit No: 3325 / 46 MILES GB

Interval: **3362.00 ft (KB) To 3389.00 ft (KB) (TVD)**

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3493.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8400

Press@RunDepth: 178.44 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2008.08.01 End Date: 2008.08.02

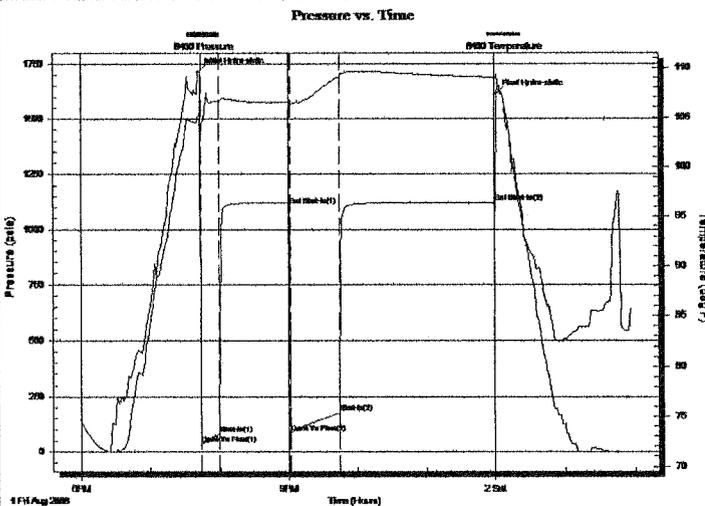
Last Calib.: 1899.12.30

Start Time: 17:59:11 End Time: 01:55:41

Time On Btm: 2008.08.01 @ 19:41:41

Time Off Btm: 2008.08.02 @ 00:01:41

TEST COMMENT: INITIAL BLOW: FAIR BLOW BUILT TO BOTTEM OF BUCKET IN 14 MINS
BLOW BACK: NO
FINAL BLOW: FAIR BLOW BUILT TO BOTTEM OF BUCKET IN 20 MINS
BLOW BACK: NO



PRESSURE SUMMARY

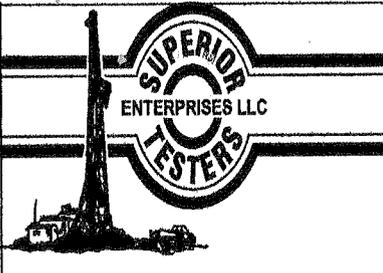
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1713.69	105.15	Initial Hydro-static
2	36.27	102.94	Open To Flow (1)
18	81.75	106.59	Shut-In(1)
79	1110.88	106.50	End Shut-In(1)
80	85.81	106.32	Open To Flow (2)
124	178.44	109.10	Shut-In(2)
259	1124.39	109.03	End Shut-In(2)
260	1612.36	109.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	CLEAN OIL 100% OIL GRAVITY 32 CORFO.84ED	
60.00	OIL CUT MUD 20% OIL 80% MUD	0.84
120.00	MUDDY OIL 60% OIL 40% MUD	1.68
120.00	MUDDY OIL W/A TRACE OF WATER 50% (1.68% M5W	
60.00	MUDDY WATER W/A TRACE OF OIL 5% 00.84 M4	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16705

DST#: 3

ATTN: CLAYTON CAMOZZI

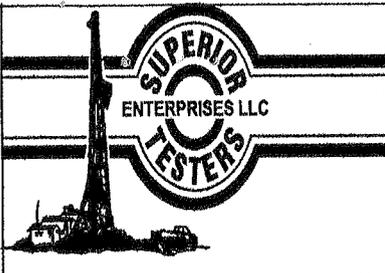
Test Start: 2008.07.30 @ 11:44:12

Tool Information

Drill Pipe:	Length: 3336.00 ft	Diameter: 3.80 inches	Volume: 46.80 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	0.00 ft			
Tool Length:	159.45 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
CIR SUB	1.00			3337.00	
SHUT IN TOOL	5.00			3342.00	
HYD SHUT IN TOOL	5.00			3347.00	
JARS	6.00			3353.00	
SAFTY JOINT	2.00			3355.00	
PACKER	5.00			3360.00	
PACKER	5.00			3365.00	
ANCHOR	21.00			3386.00	
BLANK OFF SUB	1.00			3387.00	
PACKER	5.00			3392.00	
PACKER	5.00			3397.00	
C O SUB	1.00			3398.00	
DRILL PIPE	93.45			3491.45	
C O SUB	1.00			3492.45	
BULL PLUG	3.00			3495.45	159.45 Anchor Tool
Total Tool Length:	159.45				



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR. & ASSOCIATES, INC.

DEMEL # 1-8

1560 BROADWAY SUITE 2100
DENVER CO. 80202

8-17S-12W BARTON KS

Job Ticket: 16705

DST#: 3

ATTN: CLAYTON CAMOZZI

Test Start: 2008.07.30 @ 11:44:12

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 9.98 in³
Resistivity: ohm.m
Salinity: 6500.00 ppm
Filter Cake: 0.10 inches

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

Oil API: 32 deg API
Water Salinity: 17000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	CLEAN OIL 100% OIL GRAVITY 32 CORRECT	0.842
60.00	OIL CUT MUD 20% OIL 80% MUD	0.842
120.00	MUDDY OIL 60% OIL 40% MUD	1.683
"	120.00 MUDDY OIL W/A TRACE OF WATER 50% OIL 45%	1.683
60.00	MUDDY WATER W/A TRACE OF OIL 5% OIL 50%	0.842

Total Length: 420.00 ft Total Volume: 5.892 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

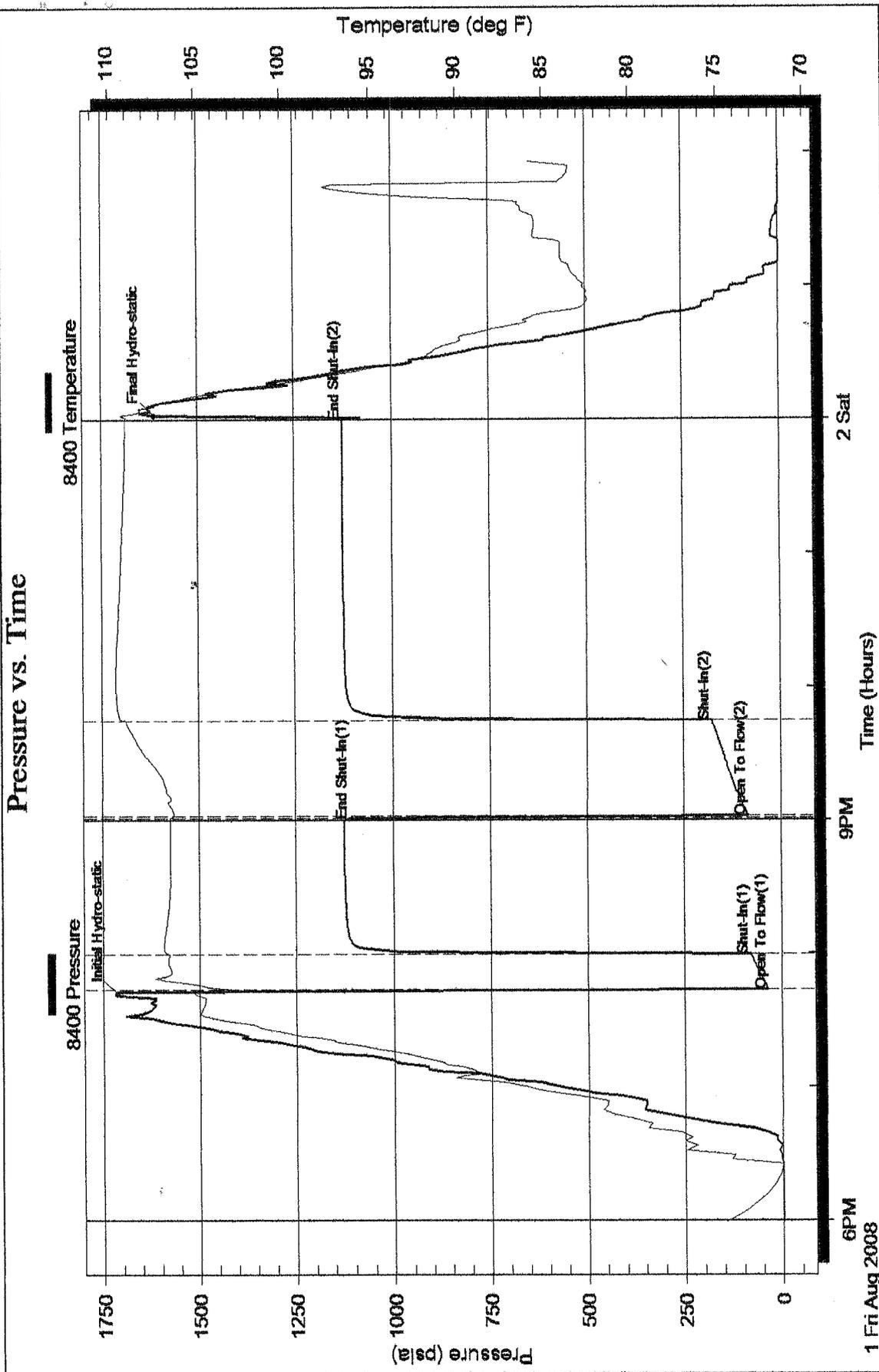
Recovery Comments:

Serial #: 8400

SAMUEL GARY JR. & ASSOCIATES, INC. 8-17S-12W BARTON KS

DST Test Number: 3

Pressure vs. Time



Printed: 2008.07.31 @ 09:40:35

Ref. No: 16705

Superior Testers Enterprises LLC