

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Beren Corporation
P.O. Box 20380
Wichita, KS 67208-1380
ATTN: Jim Hickman

DEAN #5

35-33s-11w-BA-KS

Job Ticket: 38780

DST#: 1

Test Start: 2010.08.05 @ 17:42:00

GENERAL INFORMATION:

Formation: **PAWNEE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:20

Time Test Ended: 03:24:30

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4499.00 ft (KB) To 4525.00 ft (KB) (TVD)

Reference Elevations: 1457.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

1445.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8648 Inside

Press@RunDepth: 16.56 psig @ 4500.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.05

End Date:

2010.08.06

Last Calib.: 2010.08.06

Start Time: 17:42:05

End Time:

03:24:30

Time On Btm: 2010.08.05 @ 20:41:30

Time Off Btm: 2010.08.06 @ 00:29:20

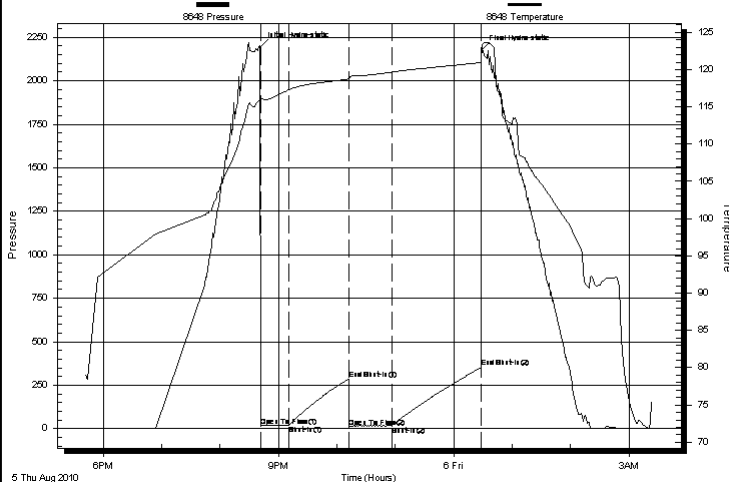
TEST COMMENT: IF: Fair blow, built to BOB in 17.5 minutes.

IS: Bled off, no blow back.

FF: Fairly strong blow, BOB 10 seconds.

FS: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

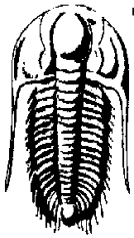
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.10	115.83	Initial Hydro-static
1	15.39	115.80	Open To Flow (1)
30	17.91	117.30	Shut-In(1)
91	285.90	118.73	End Shut-In(1)
91	9.10	118.66	Open To Flow (2)
136	16.56	119.66	Shut-In(2)
227	350.97	120.94	End Shut-In(2)
228	2180.13	123.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud 100% m	0.05
0.00	450' Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DEAN #5

P.O. Box 20380
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35-33s-11w-BA-KS

Job Ticket: 38780

DST#: 1

ATTN: Jim Hickman

Test Start: 2010.08.05 @ 17:42:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud 100% _m	0.049
0.00	450' Gas In Pipe	0.000

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

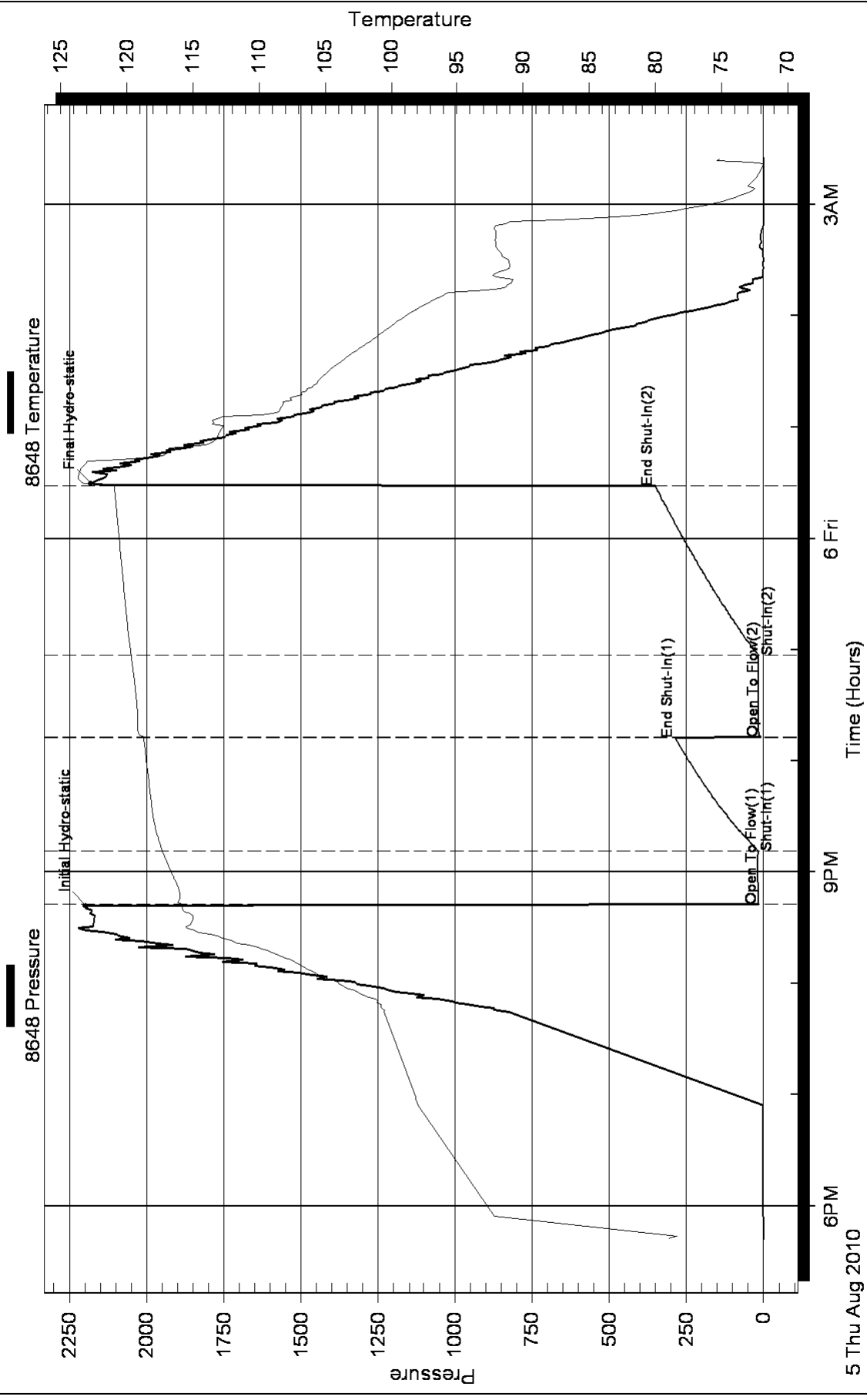
Serial #:

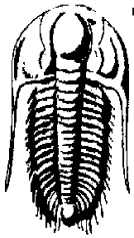
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DEAN #5

P.O. Box 20380
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35-33s-11w-BA-KS

Job Ticket: 38781

DST#: 2

ATTN: Jim Hickman

Test Start: 2010.08.06 @ 19:49:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:31:50

Time Test Ended: 06:04:19

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4585.00 ft (KB) To 4645.00 ft (KB) (TVD)

Total Depth: 4645.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1457.00 ft (KB)

1445.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8648 Inside

Press@RunDepth: 55.43 psig @ 4587.00 ft (KB)

Start Date: 2010.08.06

End Date:

2010.08.07

Start Time: 19:49:05

End Time:

06:04:20

Capacity: 8000.00 psig

Last Calib.: 2010.08.07

Time On Btm: 2010.08.06 @ 22:26:30

Time Off Btm: 2010.08.07 @ 03:04:50

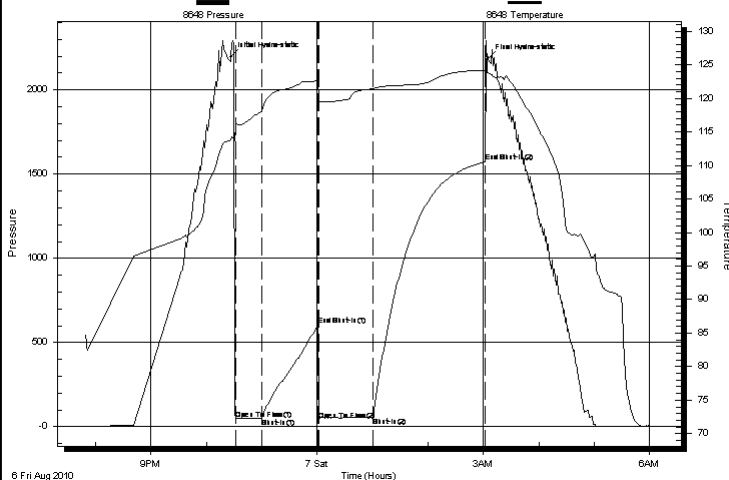
TEST COMMENT: IF: Strong blow , BOB 1 minute.

IS: Bled off , no blow back.

FF: Strong blow , BOB immediately , GTS 55 minutes , TSTM.

FS: Bled off , no blow back.

Pressure vs. Time



PRESSURE SUMMARY

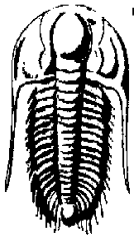
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.87	113.88	Initial Hydro-static
6	46.36	116.07	Open To Flow (1)
34	49.86	118.01	Shut-In(1)
95	604.00	122.71	End Shut-In(1)
95	35.87	120.03	Open To Flow (2)
154	55.43	121.45	Shut-In(2)
276	1571.70	124.19	End Shut-In(2)
279	2183.16	123.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	SGCM 5%g 95%m	0.47
0.00	GTS TSTM	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DEAN #5

P.O. Box 20380
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35-33s-11w-BA-KS

Job Ticket: 38781

DST#: 2

ATTN: Jim Hickman

Test Start: 2010.08.06 @ 19:49:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	SGCM 5%g 95%m	0.467
0.00	GTS TSTM	0.000

Total Length: 95.00 ft

Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

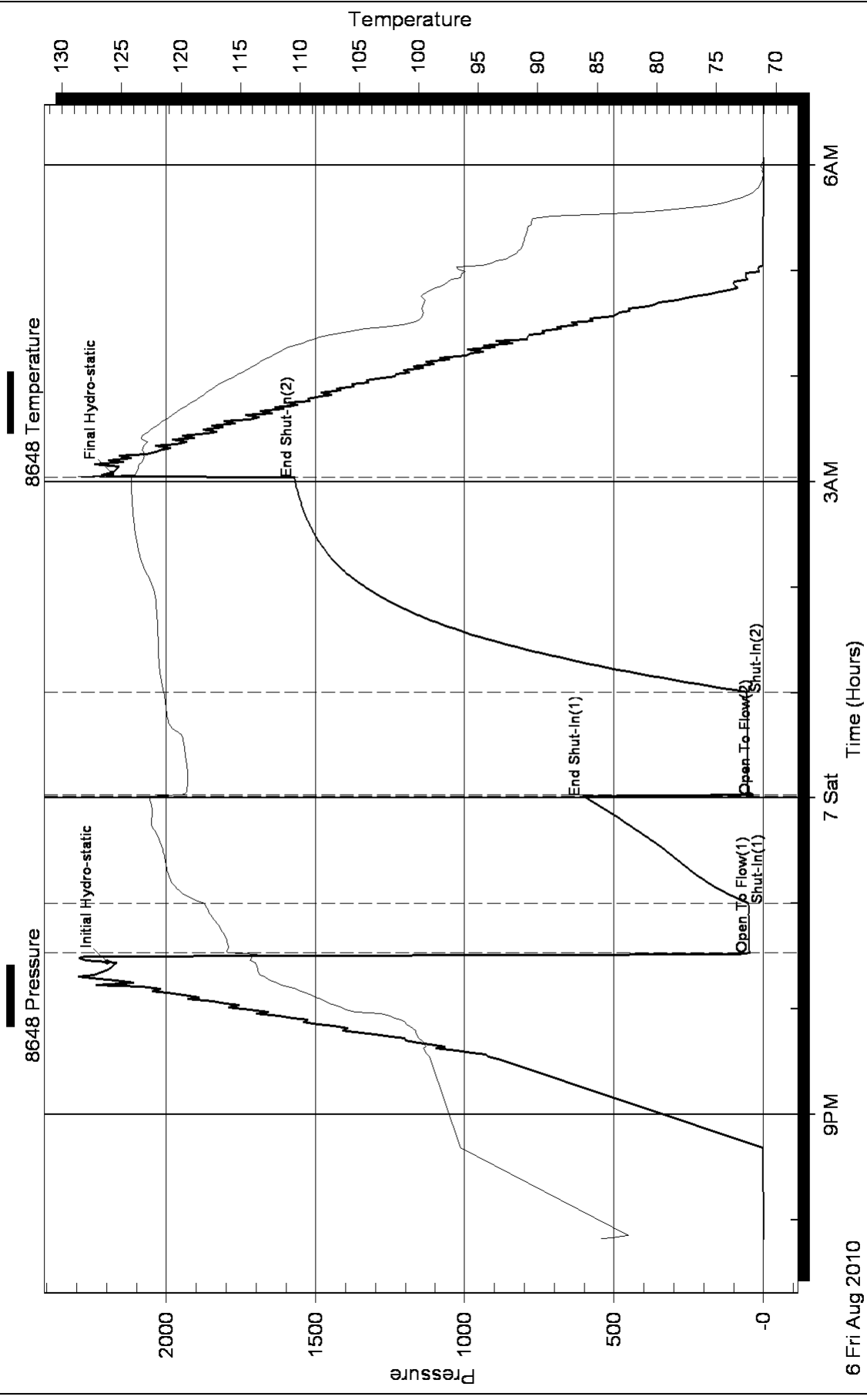
Serial #:

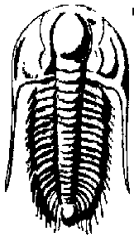
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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ATTN: Jim Hickman

DEAN #5

35-33s-11w-BA-KS

Job Ticket: 38782

DST#: 3

Test Start: 2010.08.08 @ 09:51:00

GENERAL INFORMATION:

Formation: **MISENER SAND**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:10:40

Time Test Ended: 19:51:30

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4790.00 ft (KB) To 4930.00 ft (KB) (TVD)

Total Depth: 4930.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1457.00 ft (KB)

1445.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8648 Inside

Press@RunDepth: 124.72 psig @ 4793.00 ft (KB)

Start Date: 2010.08.08

End Date:

2010.08.08

Start Time: 09:51:05

End Time:

19:51:30

Capacity: 8000.00 psig

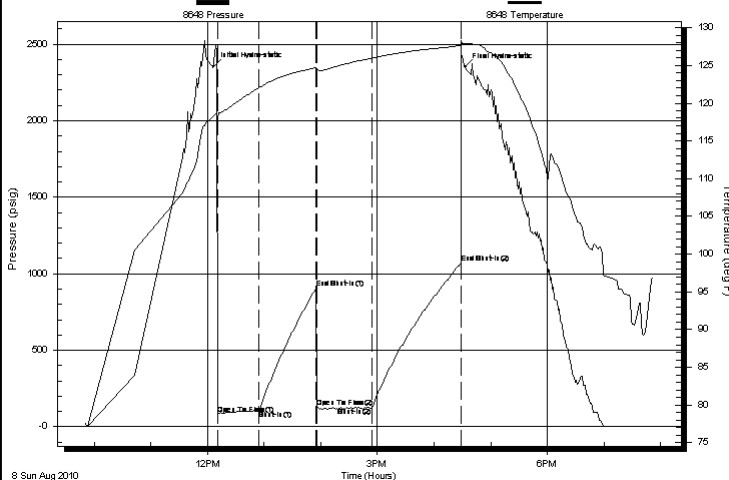
Last Calib.: 2010.08.08

Time On Btm: 2010.08.08 @ 12:06:40

Time Off Btm: 2010.08.08 @ 16:33:09

TEST COMMENT: IF: Fairly strong blow, BOB 19 minutes.
IS: Bled off, no blow back.
FF: Strong blow, BOB 5 seconds, No GTS.
FS: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

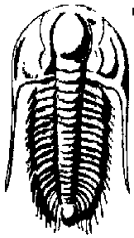
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2353.51	118.30	Initial Hydro-static
4	82.25	117.94	Open To Flow (1)
48	106.38	122.05	Shut-In(1)
109	909.68	124.72	End Shut-In(1)
110	126.92	124.55	Open To Flow (2)
168	124.72	125.96	Shut-In(2)
262	1068.65	127.63	End Shut-In(2)
267	2350.75	127.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	GCM 20%g 80%m	1.13
0.00	2800' Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DEAN #5

P.O. Box 20380
Wichita, KS 67208-1380

35-33s-11w-BA-KS

Job Ticket: 38782

DST#: 3

ATTN: Jim Hickman

Test Start: 2010.08.08 @ 09:51:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
230.00	GCM 20%g 80%m	1.131
0.00	2800' Gas In Pipe	0.000

Total Length: 230.00 ft

Total Volume: 1.131 bbl

Num Fluid Samples: 0

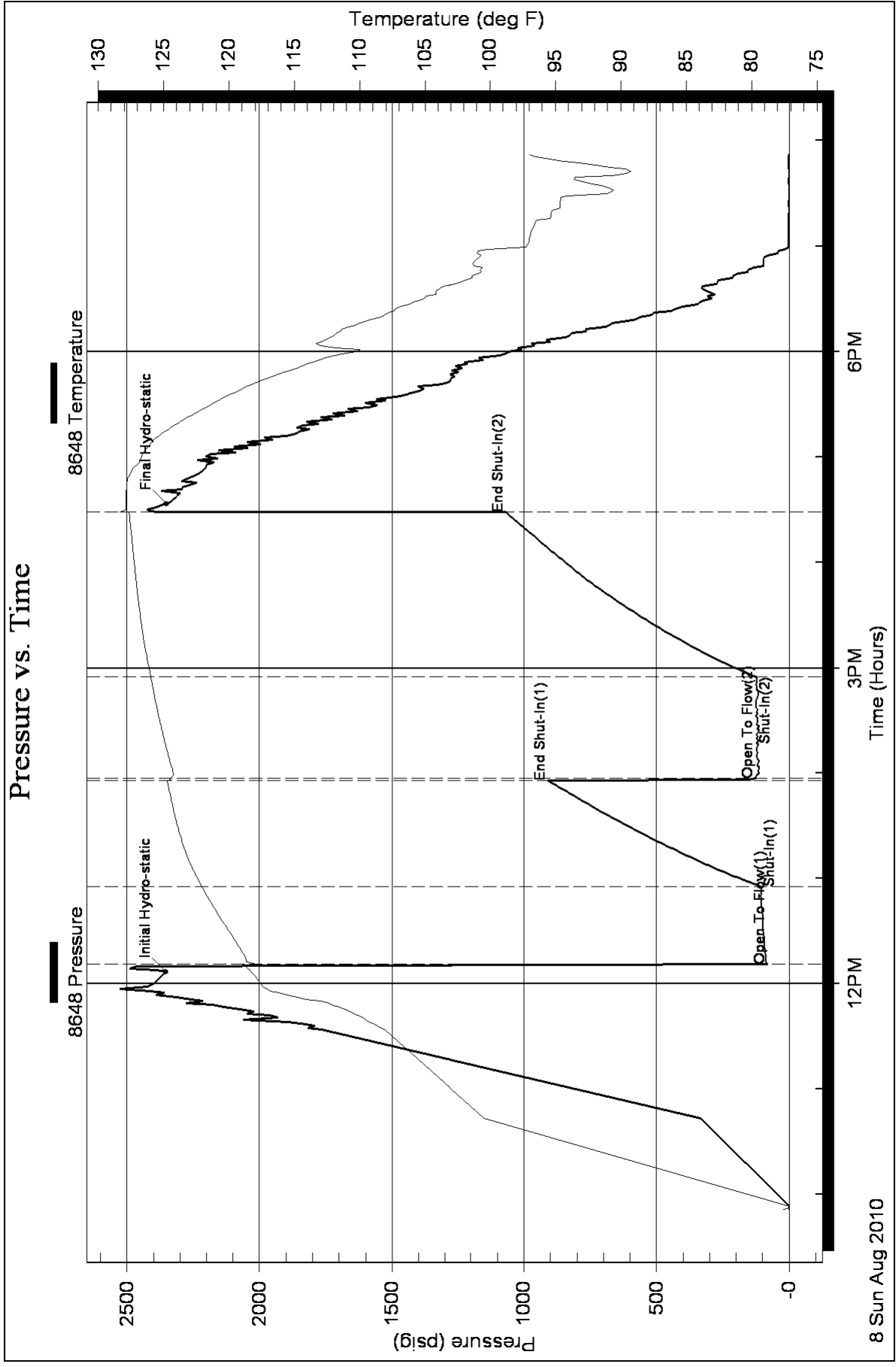
Num Gas Bombs: 0

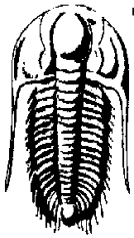
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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Wichita, KS 67208-1380
ATTN: Jim Hickman

DEAN #5

35-33s-11w-BA-KS

Job Ticket: 38783

DST#: 4

Test Start: 2010.08.09 @ 15:01:00

GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:20

Time Test Ended: 21:33:00

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 5014.00 ft (KB) To 5048.00 ft (KB) (TVD)

Reference Elevations: 1457.00 ft (KB)

Total Depth: 5048.00 ft (KB) (TVD)

1445.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8648 Inside

Press@RunDepth: 23.95 psig @ 5015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.09

End Date:

2010.08.09

Last Calib.:

2010.08.09

Start Time: 15:01:05

End Time:

21:32:59

Time On Btm:

2010.08.09 @ 17:14:10

Time Off Btm:

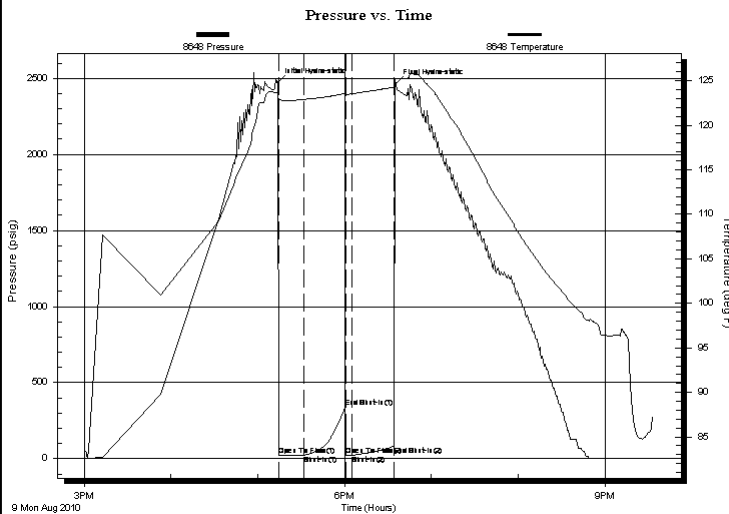
2010.08.09 @ 18:35:10

TEST COMMENT: IF: Very weak surface blow, dead after 4 minutes.

IS: No blow.

FF: No blow.

FS: No blow.



PRESSURE SUMMARY

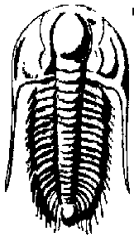
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2468.91	123.58	Initial Hydro-static
1	20.63	122.36	Open To Flow (1)
18	23.09	122.89	Shut-In(1)
47	340.42	123.56	End Shut-In(1)
47	23.45	123.37	Open To Flow (2)
52	23.95	123.52	Shut-In(2)
80	81.49	124.26	End Shut-In(2)
81	2466.00	125.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud 100% m	0.02

Gas Rates

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

Beren Corporation

DEAN #5

P.O. Box 20380
Wichita, KS 67208-1380

35-33s-11w-BA-KS

Job Ticket: 38783

DST#: 4

ATTN: Jim Hickman

Test Start: 2010.08.09 @ 15:01:00

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud 100% _m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

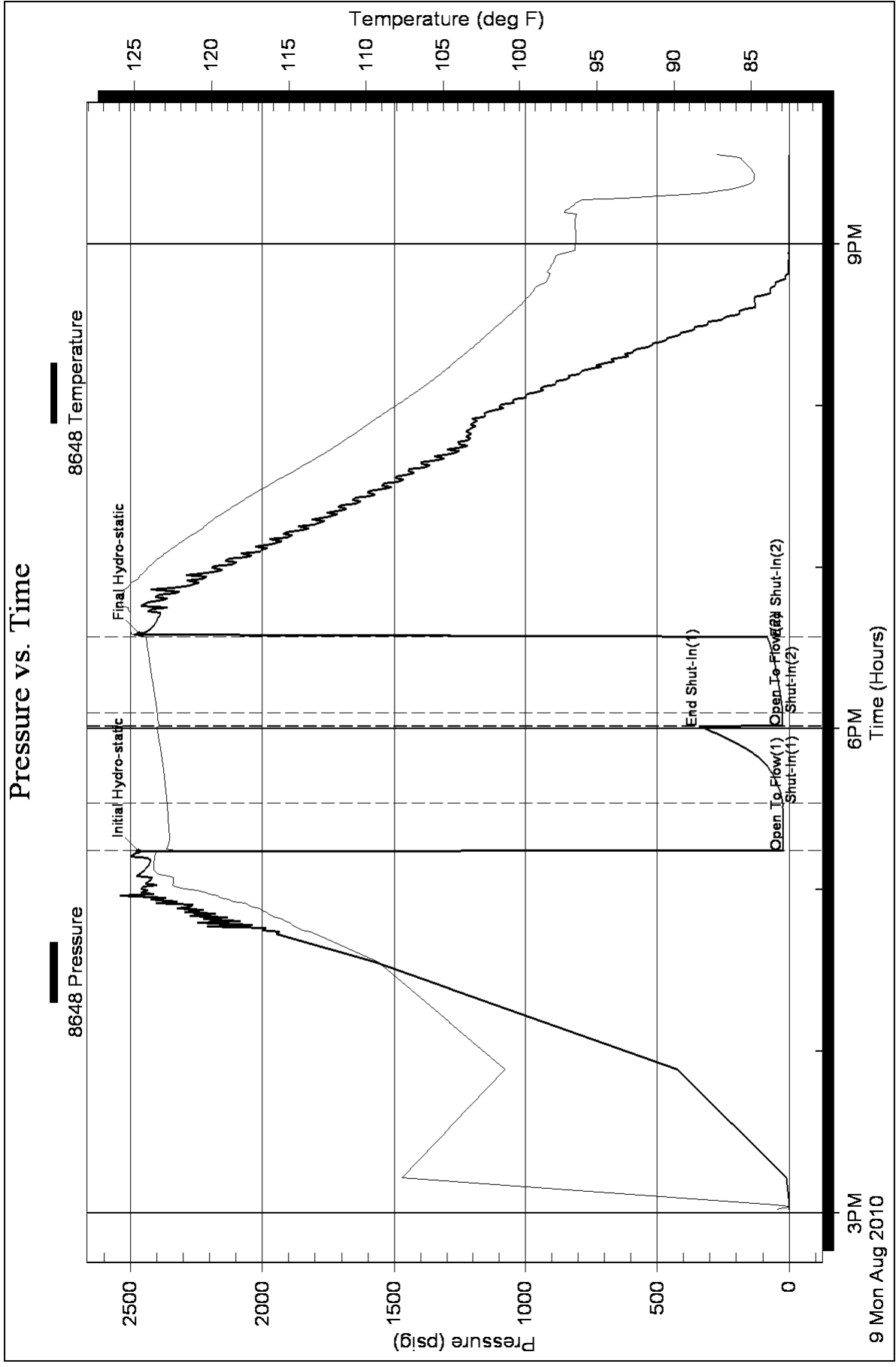
Num Gas Bombs: 0

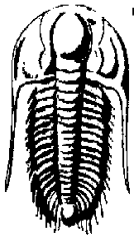
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Beren Corporation
P.O. Box 20380
Wichita, KS 67208-1380
ATTN: Jim Hickman

DEAN #5

35-33s-11w-BA-KS

Job Ticket: 38784

DST#: 5

Test Start: 2010.08.10 @ 08:57:00

GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:56:30

Time Test Ended: 19:17:10

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 5015.00 ft (KB) To 5053.00 ft (KB) (TVD)

Reference Elevations: 1457.00 ft (KB)

Total Depth: 5053.00 ft (KB) (TVD)

1445.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8648 Inside

Press@RunDepth: 614.97 psig @ 5016.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.10

End Date:

2010.08.10

Last Calib.:

2010.08.10

Start Time:

08:57:05

End Time:

19:17:10

Time On Btm:

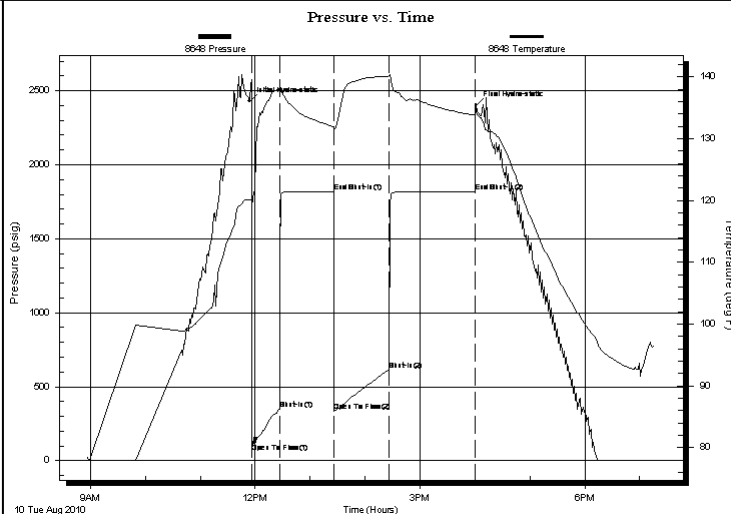
2010.08.10 @ 11:53:50

Time Off Btm:

2010.08.10 @ 16:01:20

TEST COMMENT: IF: Fairly strong blow, increased to BOB in 11.5 minutes.
IS: Bled off, weak surface blow back.
FF: Fairly strong blow, increased to BOB in 11.5 minutes.
FS: Bled off, weak blow back built to 1" in

PRESSURE SUMMARY



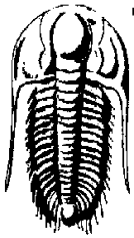
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2426.72	120.06	Initial Hydro-static
3	56.39	118.85	Open To Flow (1)
33	351.45	138.15	Shut-In(1)
93	1819.87	131.90	End Shut-In(1)
93	336.15	131.48	Open To Flow (2)
153	614.97	140.18	Shut-In(2)
247	1818.82	133.81	End Shut-In(2)
248	2400.01	134.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
825.00	Water 100%w	6.38
375.00	GCV&M 10%g 40%w 50%m	5.26
0.00	450' GIP	0.00
0.00	92,000 ppm chlorides.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DEAN #5

P.O. Box 20380
Wichita, KS 67208-1380

35-33s-11w-BA-KS

Job Ticket: 38784

DST#: 5

ATTN: Jim Hickman

Test Start: 2010.08.10 @ 08:57:00

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: 92000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
825.00	Water 100%w	6.380
375.00	GCW&M 10%g 40%w 50%m	5.260
0.00	450' GIP	0.000
0.00	92,000 ppm chlorides.	0.000

Total Length: 1200.00 ft

Total Volume: 11.640 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

