



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 49399

DST#: 1

ATTN: Bryan Bynog

Test Start: 2012.08.31 @ 06:50:00

GENERAL INFORMATION:

Formation: **Foraker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:19:00

Time Test Ended: 17:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: #57

Interval: 3620.00 ft (KB) To 3720.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

3129.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6719 Inside

Press@RunDepth: 198.08 psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.31

End Date:

2012.08.31

Last Calib.: 1899.12.30

Start Time: 06:50:05

End Time:

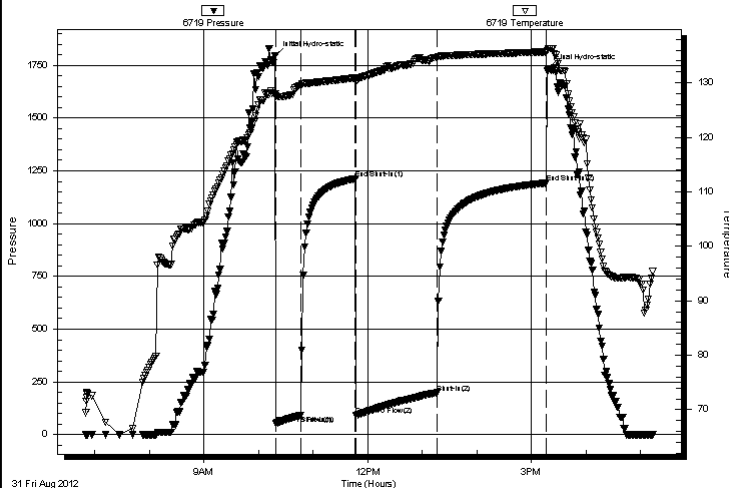
17:14:30

Time On Btm: 2012.08.31 @ 10:18:30

Time Off Btm: 2012.08.31 @ 15:19:00

TEST COMMENT: IF 30 Weak Blow , Increased to 2 1/2" in bkt.
IS 60 No Blow Back
FF 90 Weak Blow , Increased Very Slowly to 2 1/2"
FS 120 No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.32	128.03	Initial Hydro-static
1	51.20	127.66	Open To Flow (1)
29	90.65	129.59	Shut-In(1)
88	1212.63	130.88	End Shut-In(1)
89	92.85	130.60	Open To Flow (2)
178	198.08	134.63	Shut-In(2)
299	1192.59	135.67	End Shut-In(2)
301	1735.80	136.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	WCM 85% _m , 15% _w	1.48
5.00	WCM 90% _m , 10% _w	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 49399

DST#: 1

ATTN: Bryan Bynog

Test Start: 2012.08.31 @ 06:50:00

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	WCM 85%m, 15%w	1.475
5.00	WCM 90%m, 10%w	0.025

Total Length: 305.00 ft

Total Volume: 1.500 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

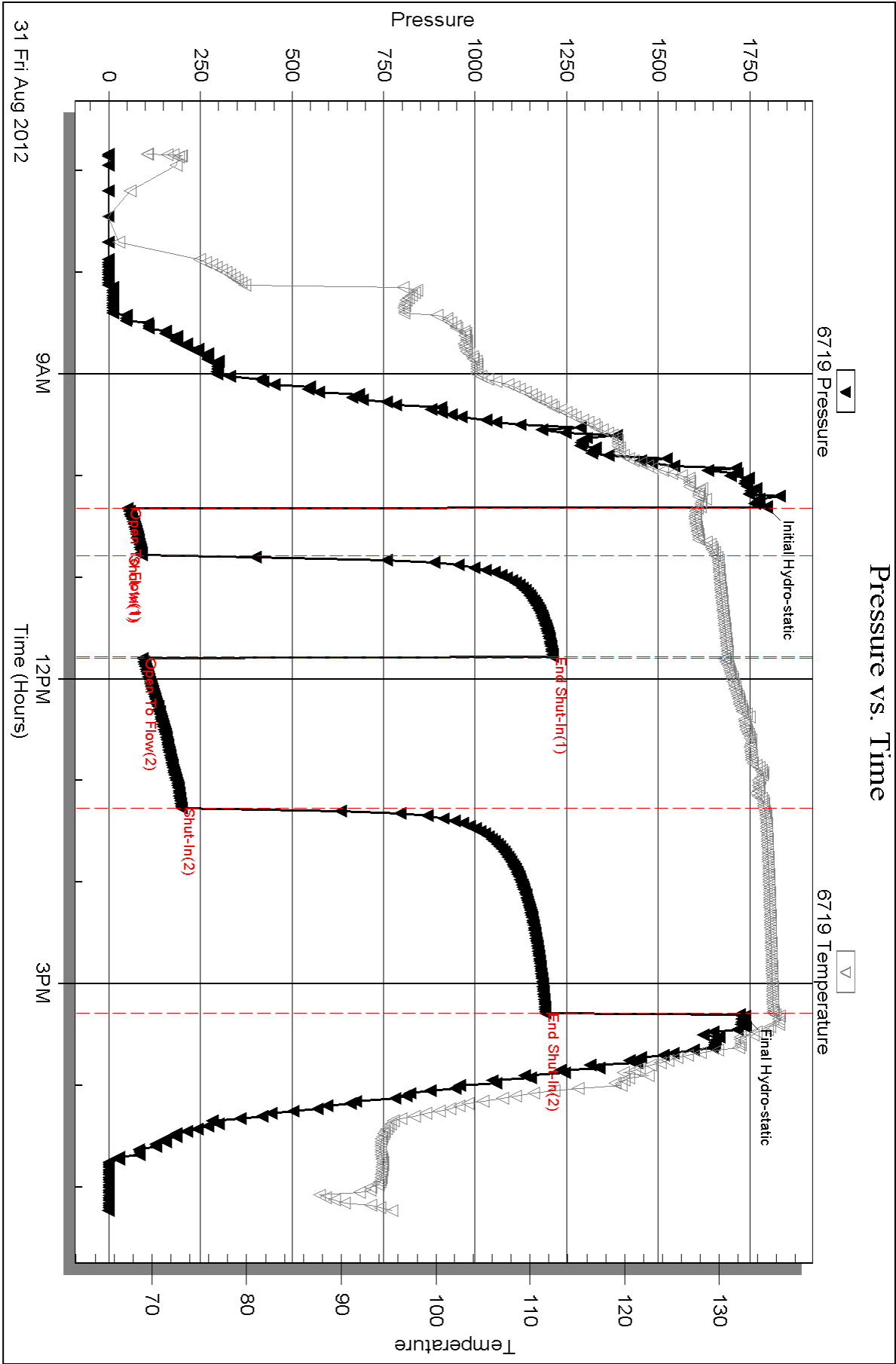
Serial #: 6719

Inside

Berexco LLC.

Mears A #1-9

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 49400

DST#: 2

ATTN: Bryan Bynog

Test Start: 2012.09.01 @ 21:40:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:09:00

Time Test Ended: 07:44:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #57

Interval: 3920.00 ft (KB) To 4035.00 ft (KB) (TVD)

Total Depth: 4035.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)

3129.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719 Inside

Press@RunDepth: 153.48 psig @ 4018.00 ft (KB)

Start Date: 2012.09.01

End Date:

2012.09.02

Start Time: 21:40:05

End Time:

07:44:30

Capacity: 8000.00 psig

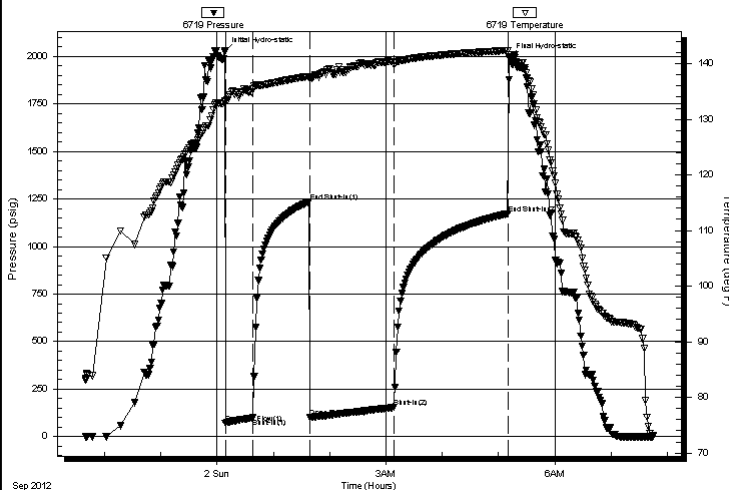
Last Calib.: 2012.09.02

Time On Btm: 2012.09.02 @ 00:08:30

Time Off Btm: 2012.09.02 @ 05:11:30

TEST COMMENT: IF 30 Weak Blow Increased to 1 1/2"
IS 60 No Blow Back
FF 90 Very Weak Surface Blow Died in 30 sec.
FS 120 No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.94	133.33	Initial Hydro-static
1	70.38	133.21	Open To Flow (1)
30	98.75	135.55	Shut-In(1)
90	1236.59	137.74	End Shut-In(1)
91	100.13	137.36	Open To Flow (2)
180	153.48	140.10	Shut-In(2)
302	1172.68	142.39	End Shut-In(2)
303	1992.26	141.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Drig. Mud 100%	0.59

Gas Rates

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



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FLUID SUMMARY

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9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 49400

DST#: 2

ATTN: Bryan Bynog

Test Start: 2012.09.01 @ 21:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.80 in³

Resistivity: 1.00 ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Drig. Mud 100%	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

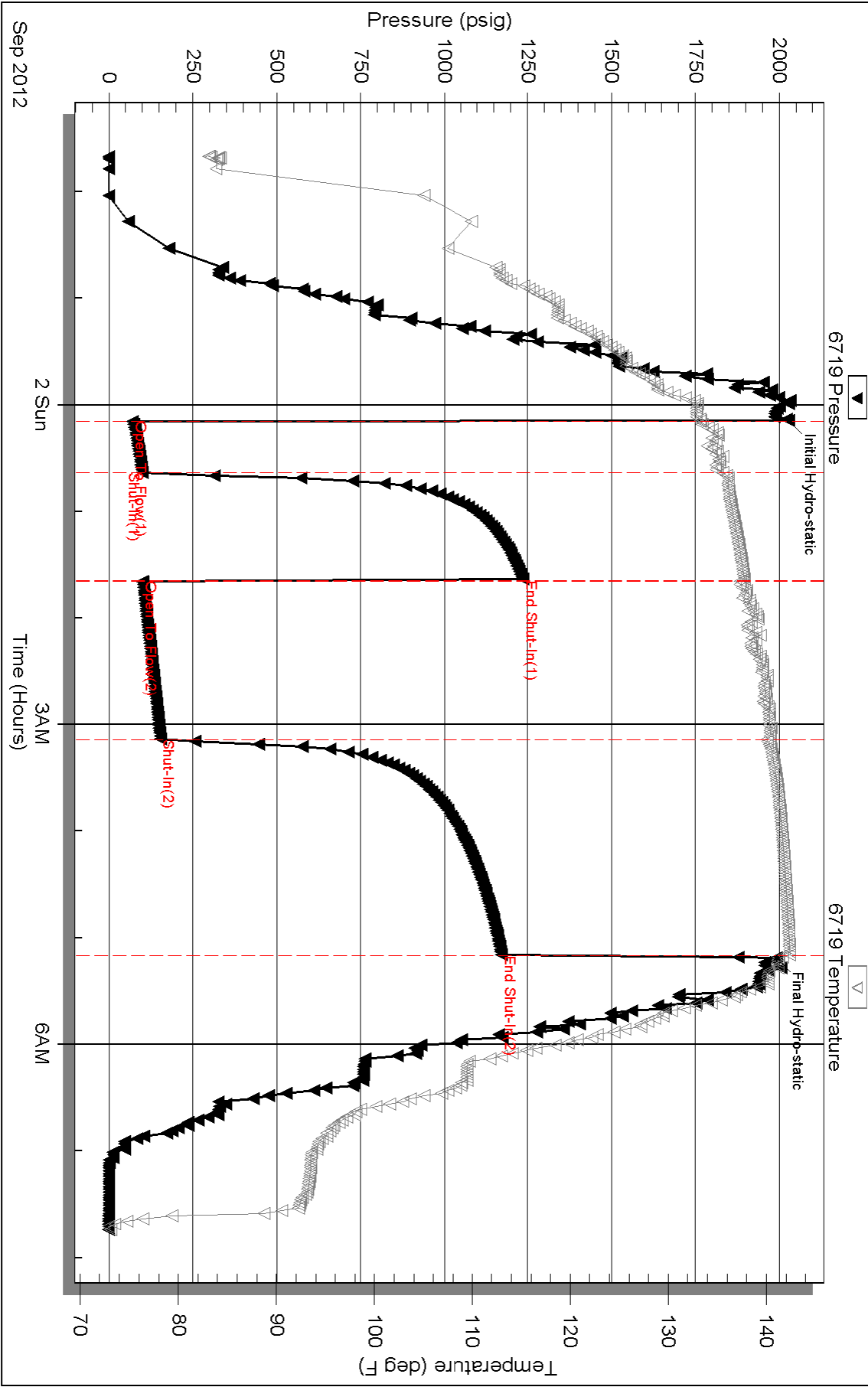
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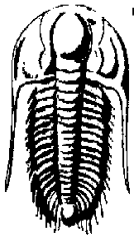
Berexco LLC.

Mears A #1-9

DST Test Number: 2

Pressure vs. Time





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DRILL STEM TEST REPORT

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 49401

DST#: 3

ATTN: Bryan Bynog

Test Start: 2012.09.03 @ 01:47:00

GENERAL INFORMATION:

Formation: **Lansing KC. A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:21:00

Time Test Ended: 12:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #57

Interval: 4030.00 ft (KB) To 4180.00 ft (KB) (TVD)

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)

3129.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719 Inside

Press@RunDepth: 636.74 psig @ 4159.00 ft (KB)

Start Date: 2012.09.03

End Date:

2012.09.03

Start Time: 01:47:05

End Time:

12:49:00

Capacity: 8000.00 psig

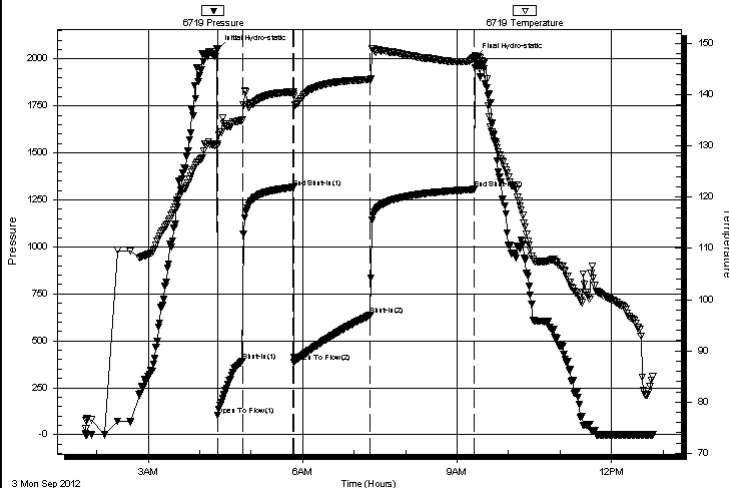
Last Calib.: 2012.09.04

Time On Btm: 2012.09.03 @ 04:20:30

Time Off Btm: 2012.09.03 @ 09:21:30

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 9 Min.
IS 60 No Blow Back
FF 90 Strong Blow , Off Bottom in 13 Min.
FS 120 No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.20	130.01	Initial Hydro-static
1	104.75	130.45	Open To Flow (1)
30	390.47	135.08	Shut-In(1)
89	1316.44	140.54	End Shut-In(1)
90	387.76	139.75	Open To Flow (2)
179	636.74	143.00	Shut-In(2)
300	1306.46	147.19	End Shut-In(2)
301	2007.00	147.44	Final Hydro-static

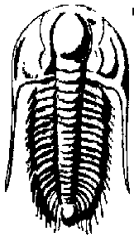
Recovery

Length (ft)	Description	Volume (bbl)
558.00	Muddy Water With Trace of Oil	2.74
496.00	VSCOWM 5%o 45%w 50%m	6.73
62.00	OCM 20%o 80%m	0.87
9.00	SOCM 10%o 90%m	0.13

Gas Rates

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



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9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 49401

DST#: 3

ATTN: Bryan Bynog

Test Start: 2012.09.03 @ 01:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.96 in³

Resistivity: 1.00 ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	Muddy Water With Trace of Oil	2.744
496.00	VSCOWM 5%o 45%w 50%m	6.730
62.00	OCM 20%o 80%m	0.870
9.00	SOCM 10%o 90%m	0.126

Total Length: 1125.00 ft Total Volume: 10.470 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Chlorides 950

Serial #: 6719

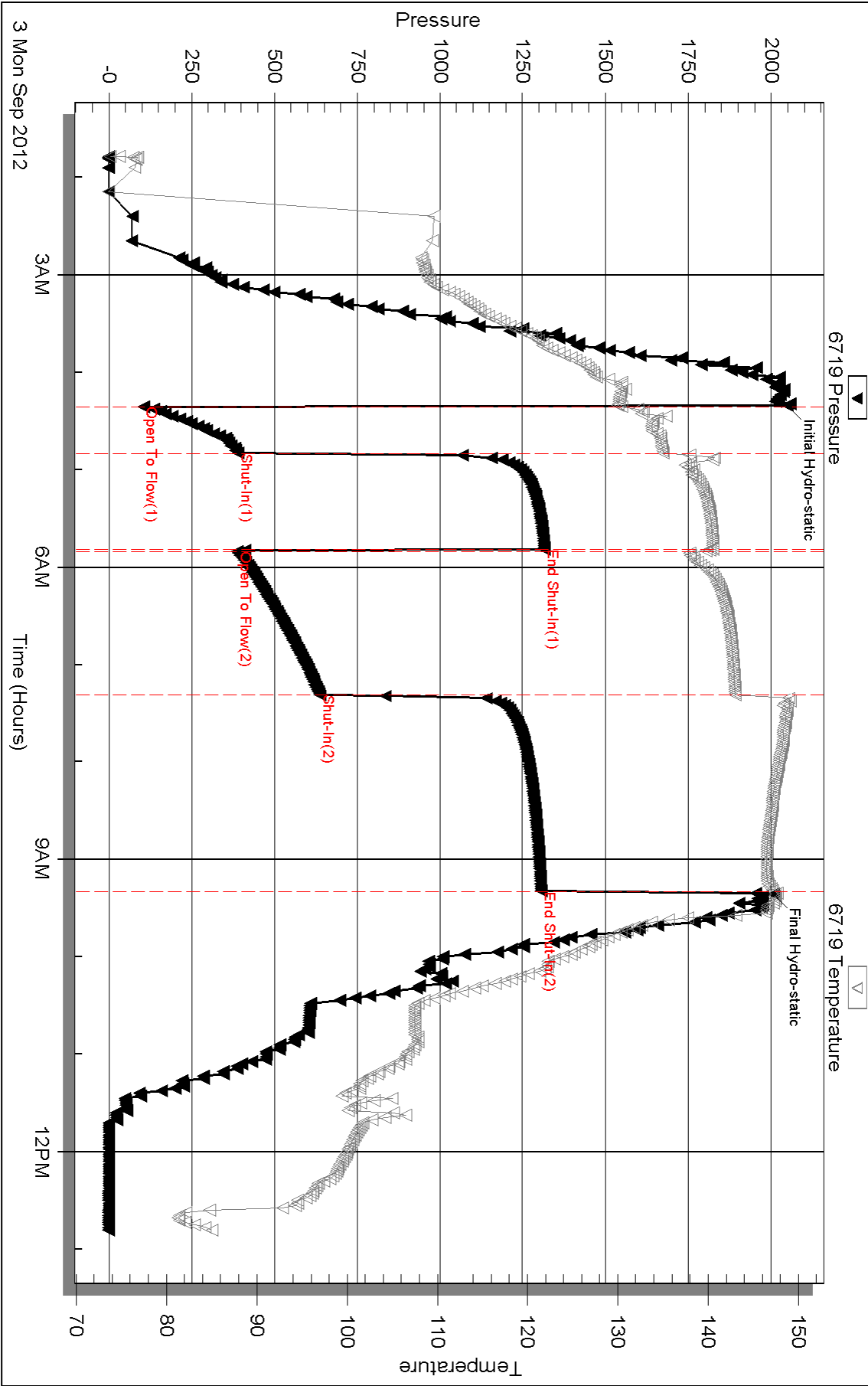
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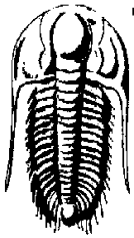
Berexco LLC.

Mears A #1-9

DST Test Number: 3

Pressure vs. Time





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Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

9-15S-37W Cheyenne Ks.

Mears A #1-9

Job Ticket: 48134

DST#: 4

Test Start: 2012.09.04 @ 01:12:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:36:30

Time Test Ended: 09:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: #57

Interval: 4176.00 ft (KB) To 4220.00 ft (KB) (TVD)

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)

3129.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719 Inside

Press@RunDepth: 16.97 psig @ 4177.00 ft (KB)

Start Date: 2012.09.04

End Date:

2012.09.04

Start Time: 01:12:05

End Time:

09:58:00

Capacity: 8000.00 psig

Last Calib.: 2012.09.04

Time On Btm: 2012.09.04 @ 03:36:00

Time Off Btm: 2012.09.04 @ 07:48:00

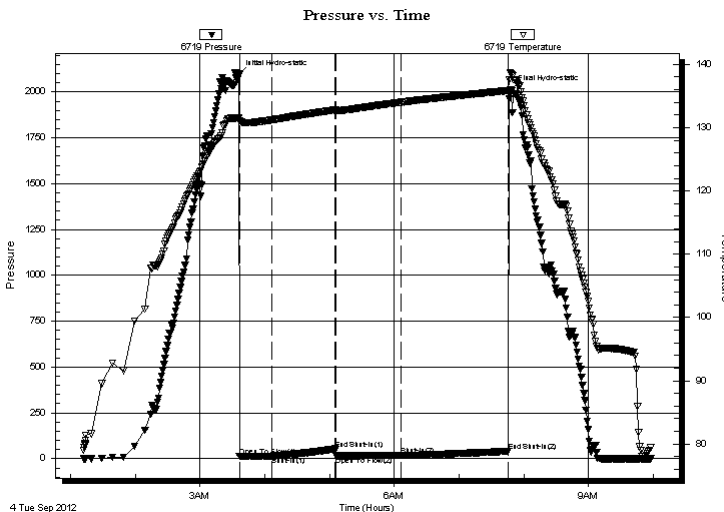
TEST COMMENT: 30 - IF: Surface blow at open, did not build, dead at 9 min.

60 - IS: No blow back

60 - FF: No blow

90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2093.87	131.53	Initial Hydro-static
1	13.05	131.13	Open To Flow (1)
31	14.68	131.23	Shut-In(1)
89	53.53	132.80	End Shut-In(1)
90	15.47	132.71	Open To Flow (2)
150	16.97	134.01	Shut-In(2)
250	40.17	135.86	End Shut-In(2)
252	2011.49	138.51	Final Hydro-static

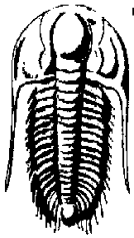
Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 97% m, 3% o	0.02

Gas Rates

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



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FLUID SUMMARY

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 48134

DST#: 4

ATTN: Bryan Bynog

Test Start: 2012.09.04 @ 01:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.56 in³

Resistivity: ohm.m

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 97% m, 3% o	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:

Serial #: 6719

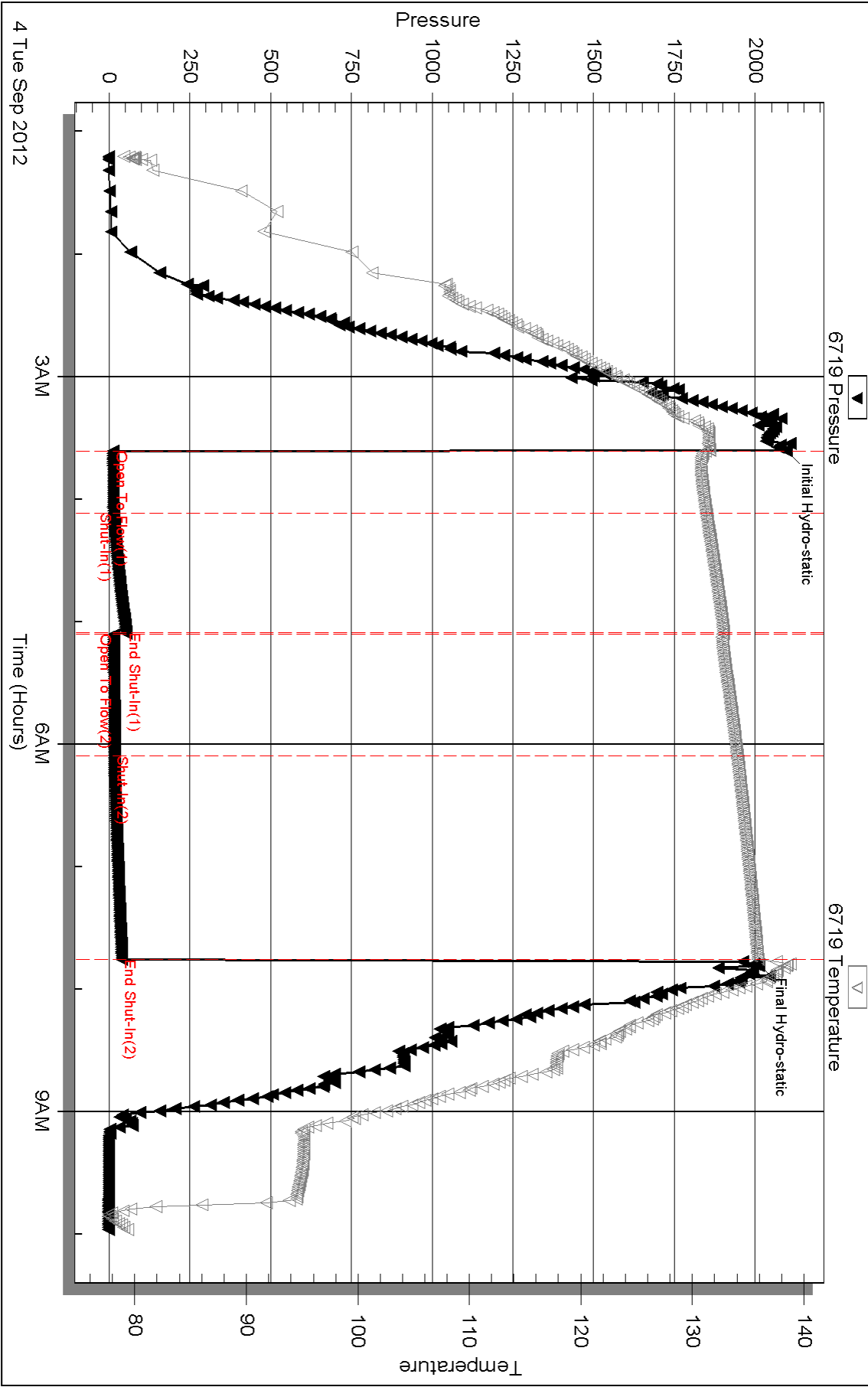
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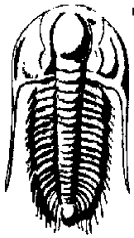
Berexco LLC.

Mears A #1-9

DST Test Number: 4

Pressure vs. Time





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TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 48135

DST#: 5

ATTN: Bryan Bynog

Test Start: 2012.09.05 @ 02:15:00

GENERAL INFORMATION:

Formation: **LKC "D - E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:50:00

Time Test Ended: 11:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: #57

Interval: 4215.00 ft (KB) To 4310.00 ft (KB) (TVD)

Total Depth: 4310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)

3129.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719 Inside

Press@RunDepth: 27.54 psig @ 4216.00 ft (KB)

Start Date: 2012.09.05

End Date:

2012.09.05

Start Time: 02:15:05

End Time:

11:37:30

Capacity: 8000.00 psig

Last Calib.: 2012.09.05

Time On Btm: 2012.09.05 @ 04:49:30

Time Off Btm: 2012.09.05 @ 09:26:30

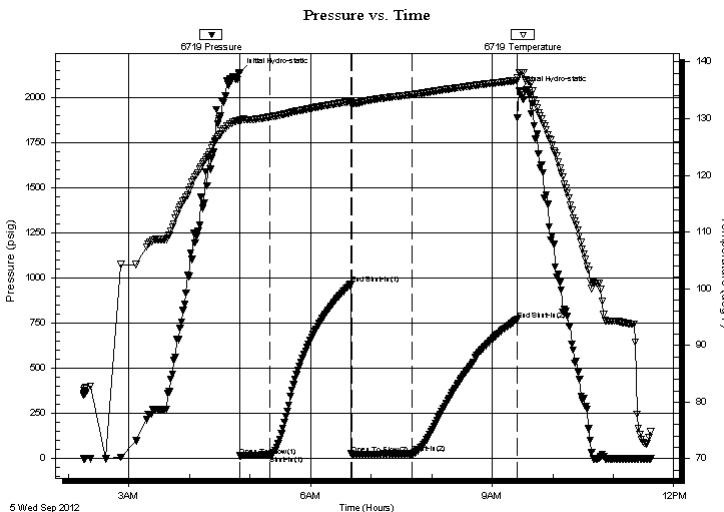
TEST COMMENT: 30 - IF: 1/4" blow at open, built to 3/8" then died back, dead at 19 min.

60 - IS: No blow back

60 - FF: No blow

90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.14	129.71	Initial Hydro-static
1	15.60	129.57	Open To Flow (1)
30	20.81	130.28	Shut-In(1)
110	964.74	133.07	End Shut-In(1)
111	23.20	132.78	Open To Flow (2)
171	27.54	134.24	Shut-In(2)
275	770.11	136.74	End Shut-In(2)
277	2037.75	138.04	Final Hydro-static

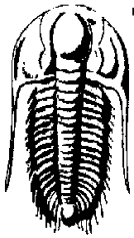
Recovery

Length (ft)	Description	Volume (bbl)
45.00	SOCM 99% m, 1% o	0.22

Gas Rates

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



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FLUID SUMMARY

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 48135

DST#: 5

ATTN: Bryan Bynog

Test Start: 2012.09.05 @ 02:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	SOCM 99% m, 1% o	0.221

Total Length: 45.00 ft

Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

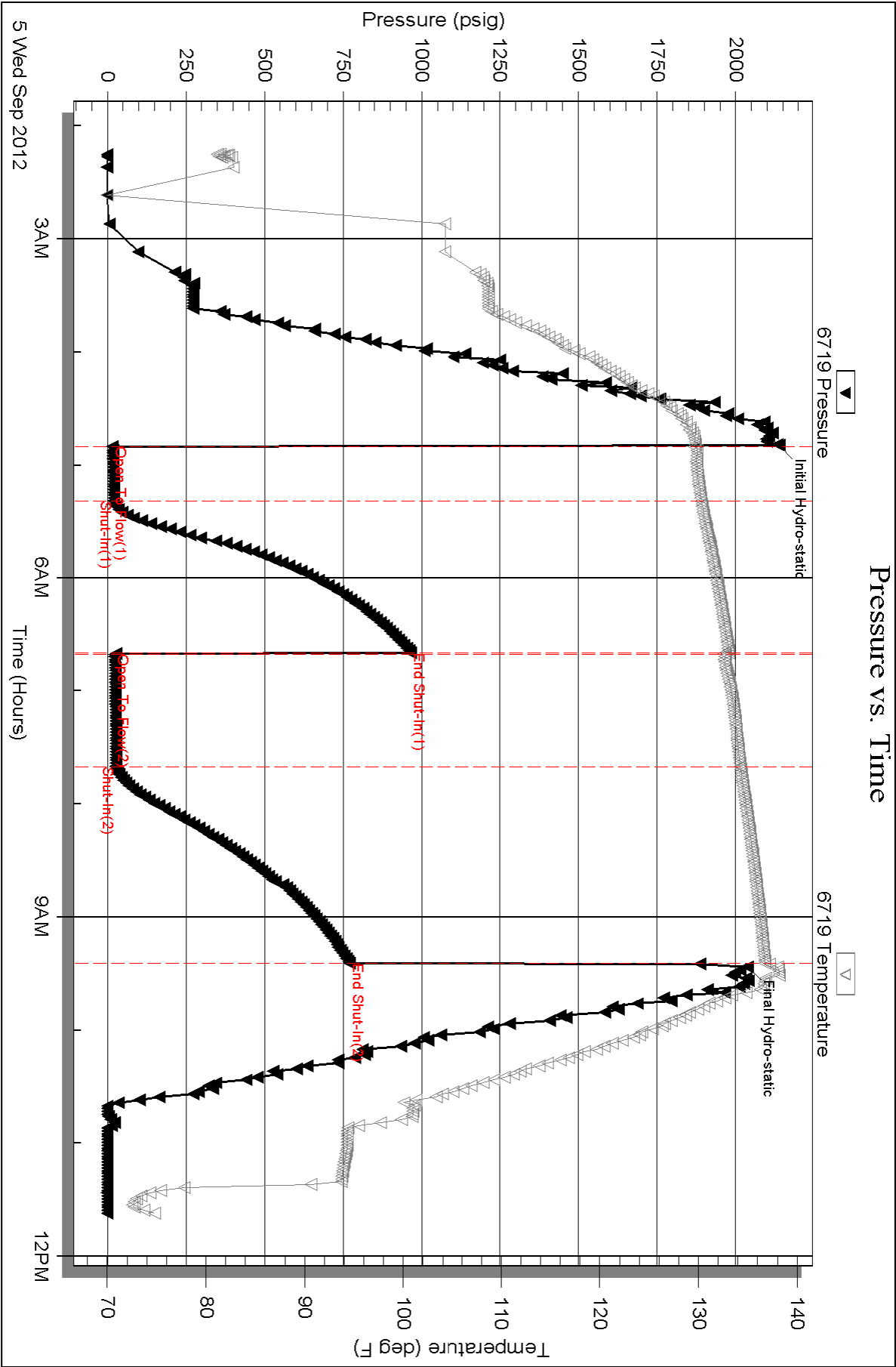
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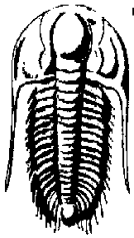
Inside

Berexco LLC.

Mears A #1-9

DST Test Number: 5





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DRILL STEM TEST REPORT

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 48136

DST#: 6

ATTN: Bryan Bynog

Test Start: 2012.09.06 @ 10:55:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:14:30

Time Test Ended: 22:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: #57

Interval: 4460.00 ft (KB) To 4500.00 ft (KB) (TVD)

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)

3129.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719 Inside

Press@RunDepth: 353.56 psig @ 4461.00 ft (KB)

Start Date: 2012.09.06

End Date:

2012.09.06

Start Time: 10:55:05

End Time:

22:10:00

Capacity: 8000.00 psig

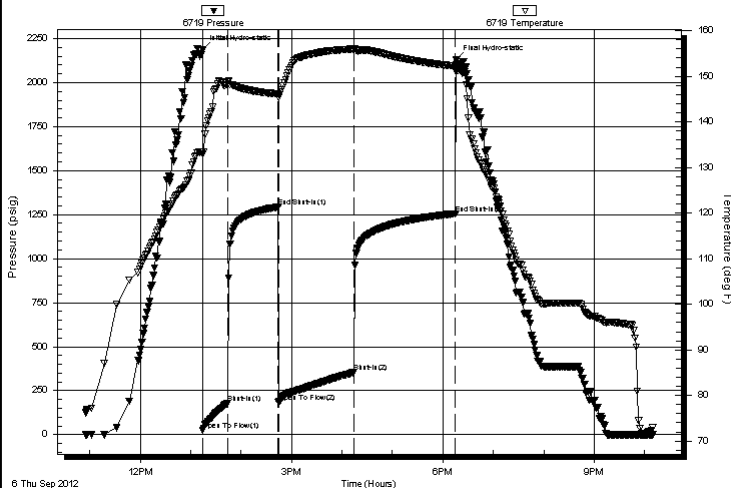
Last Calib.: 2012.09.06

Time On Btm: 2012.09.06 @ 13:14:00

Time Off Btm: 2012.09.06 @ 18:16:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 12 min.
60 - IS: Bled off, Blow back built to 2"
90 - FF: Blow built to BOB in 15 1/2 min.
120 - FS: Bled off, Blow back built to BOB at 14 1/2 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.61	133.46	Initial Hydro-static
1	25.41	133.02	Open To Flow (1)
31	181.26	148.90	Shut-In(1)
90	1293.54	146.15	End Shut-In(1)
91	185.41	145.38	Open To Flow (2)
180	353.56	156.00	Shut-In(2)
301	1256.22	152.24	End Shut-In(2)
302	2128.75	151.66	Final Hydro-static

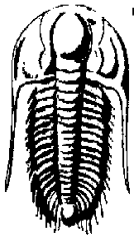
Recovery

Length (ft)	Description	Volume (bbl)
119.00	SOMCW 88%w, 10%m, 2%o	0.59
674.00	Rev. Out Samples at 3 min. intervals	5.60
0.00	12, 15, 18 min. OCWM 46%m, 46%w, 8%o	0.00
0.00	9 min. WOM 44%m, 31%o, 25%w	0.00
0.00	3, 6 min. CGO 89%o, 10%g, 1%m	0.00
55.00	CGO 85%o, 17%g, 1%m	0.77

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

9-15S-37W Cheyenne Ks.

2020 N. Bramblewood
Wichita, Ks. 67206

Mears A #1-9

Job Ticket: 48136

DST#: 6

ATTN: Bryan Bynog

Test Start: 2012.09.06 @ 10:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

35.6 deg API

Water Salinity:

41000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	SOMCW 88%w , 10%m, 2%o	0.585
674.00	Rev. Out Samples at 3 min. intervals	5.601
0.00	12, 15, 18 min. OCWM 46%m, 46%w , 8%o	0.000
0.00	9 min. WOM 44%m, 31%o, 25%w	0.000
0.00	3, 6 min. CGO 89%o, 10%g, 1%m	0.000
55.00	CGO 85%o, 17%g, 1%m	0.772
0.00	GIP = 1000'	0.000

Total Length: 848.00 ft Total Volume: 6.958 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 37.6 api @ 80 deg F Corrected Gravity = 35.6 api

RW = .164 ohms @ 80 deg F Chlorides = 41,000 ppm

Serial #: 6719

Inside

Berexco LLC.

Mears A #1-9

DST Test Number: 6

