



DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Barber Co.33-33S-15W

Z-Bar "2-33"

Start Date: 2001.09.05 @ 03:28:11

End Date: 2001.09.05 @ 10:21:26

Job Ticket #: 14926 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14926

DST#: 1

Test Start: 2001.09.05 @ 03:28:11

GENERAL INFORMATION:

Formation: **Drum**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:24:11

Time Test Ended: 10:21:26

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **4376.00 ft (KB) To 4408.00 ft (KB) (TVD)**

Total Depth: 4408.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1696.00 ft (KB)

1685.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3289

Inside

Press@RunDepth: 164.47 psig @ 4382.00 ft (KB)

Start Date: 2001.09.05 End Date: 2001.09.05

Start Time: 03:28:16 End Time: 10:21:25

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2001.09.05 @ 05:22:41

Time Off Btm: 2001.09.05 @ 07:55:40

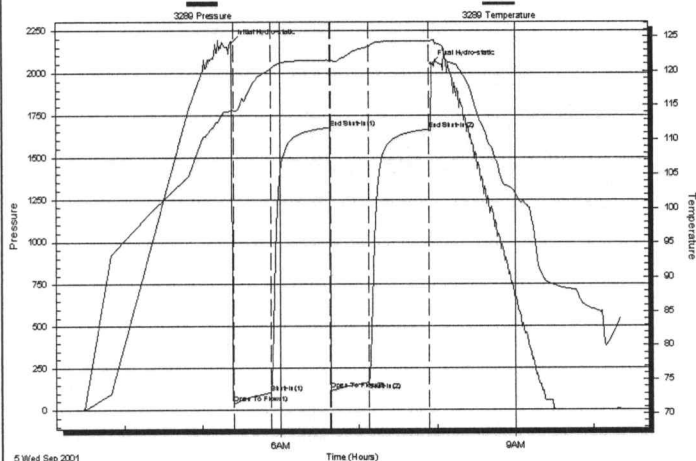
TEST COMMENT: IF: Strong OBB in 15 sec. Decreased slightly.

IS: Surface blow-back.

FF: Strong OBB in 3 min. Decreased slightly.

FS: No blow-back.

Pressure vs. Time



5 Wed Sep 2001

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.51	114.23	Initial Hydro-static
2	39.26	114.25	Open To Flow (1)
30	105.03	120.33	Shut-In(1)
75	1676.46	121.55	End Shut-In(1)
76	117.48	121.62	Open To Flow (2)
106	164.47	123.58	Shut-In(2)
152	1665.79	124.32	End Shut-In(2)
153	2052.92	124.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	Gassy Wtr 3%G 97%W	1.78
60.00	Sli O&G c Wtry M 7%G 2%O 9%W 82%N0.84	
0.00	430 ft. GIP	0.00
0.00	RW 0.067 at 84 F. 98,000 PPM.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14926

DST#: 1

Test Start: 2001.09.05 @ 03:28:11

Tool Information

Drill Pipe:	Length: 4201.00 ft	Diameter: 3.80 inches	Volume: 58.93 bbl	Tool Weight:	1800.00 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: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	16000.00 lb
			Total Volume: 59.83 bbl	Tool Chased	ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4376.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4355.00	
S.I. Tool	5.00			4360.00	
HMV	5.00			4365.00	
Safety Joint	2.00			4367.00	
Packer	4.00			4371.00	22.00 Bottom Of Top Packer
Packer	5.00			4376.00	
Stubb	1.00			4377.00	
Perforations	5.00			4382.00	
Recorder	0.00	3289	Inside	4382.00	
Perforations	24.00			4406.00	
Recorder	0.00	10242	Inside	4406.00	
Bullnose	2.00			4408.00	32.00 Bottom Packers & Anchor

Total Tool Length: 54.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

Z-Bar "2-33"

950 Tyler Rd
Wichita Ks. 67212

Barber Co.33-33S-15W

Job Ticket: 14926

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2001.09.05 @ 03:28:11

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:

98000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	Gassy Wtr 3%G 97%W	1.779
60.00	Sli O&G c Wtry M 7%G 2%O 9%W 82%M	0.842
0.00	430 ft. GIP	0.000
0.00	RW 0.067 at 84 F. 98,000 PPM.	0.000

Total Length: 305.00 ft

Total Volume: 2.621 bbl

Num Fluid Samples: 0

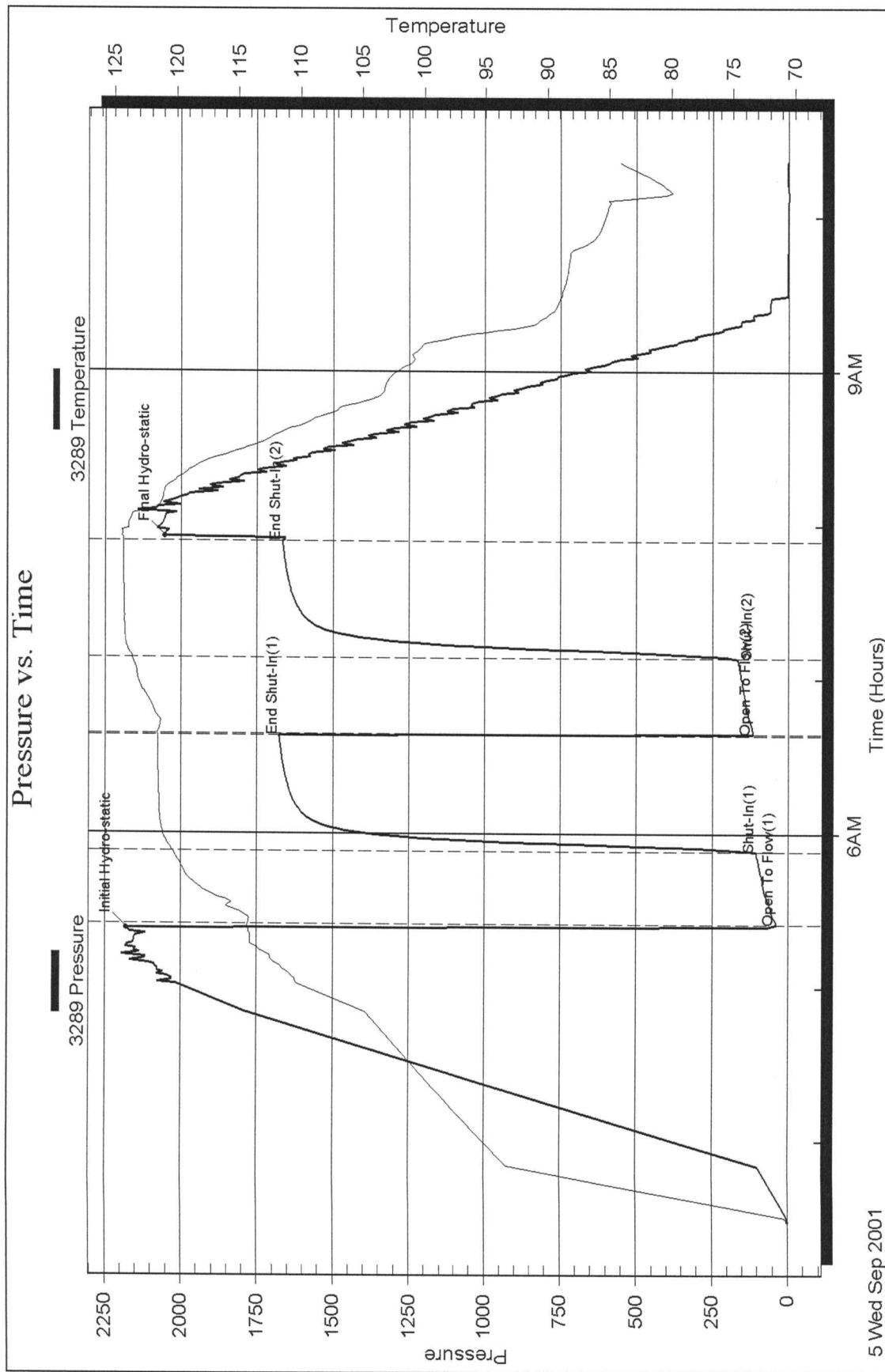
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Barber Co.33-33S-15W

Z-Bar "2-33"

Start Date: 2001.09.06 @ 02:15:10

End Date: 2001.09.06 @ 10:34:40

Job Ticket #: 14927 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14927

DST#: 2

Test Start: 2001.09.06 @ 02:15:10

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:20:25

Time Test Ended: 10:34:40

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **4492.00 ft (KB) To 4516.00 ft (KB) (TVD)**

Total Depth: 4516.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1696.00 ft (KB)

1685.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3289

Inside

Press@RunDepth: 246.44 psig @ 4498.00 ft (KB)

Start Date: 2001.09.06

End Date:

2001.09.06

Start Time: 02:15:15

End Time:

10:34:39

Capacity: 7000.00 psig

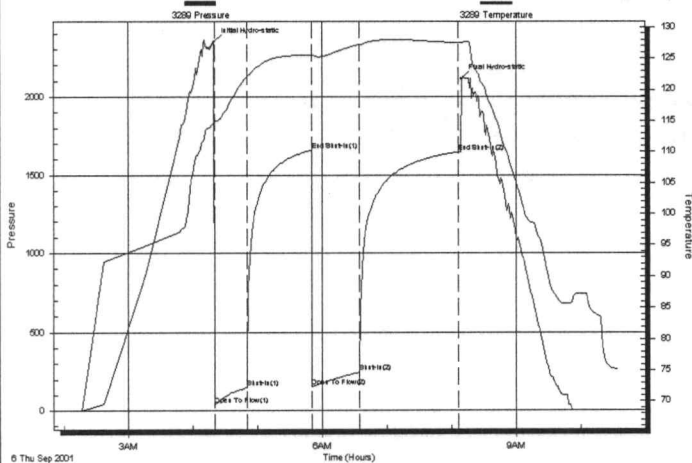
Last Calib.: 1899.12.30

Time On Btm: 2001.09.06 @ 04:19:55

Time Off Btm: 2001.09.06 @ 08:09:24

TEST COMMENT: IF: Weak 1/4" built to strong OBB in 19 min.
IS: No blow-back.
FF: Surface blow built to strong OBB in 30 min.
FS: No blow-back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.34	113.81	
6	2348.76	114.50	Initial Hydro-static
7	37.64	114.52	Open To Flow (1)
36	148.37	122.08	Shut-In(1)
96	1659.00	125.43	End Shut-In(1)
97	154.33	125.54	Open To Flow (2)
141	246.44	127.19	Shut-In(2)
233	1647.48	127.46	End Shut-In(2)
236	2115.48	127.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Gassy Wtr 3%G 97%W	4.23
20.00	Mud cut Wtr 18%M 82%W	0.28
0.00	RW 0.070 at 74 F. 112,000 PPM.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14927

DST#: 2

Test Start: 2001.09.06 @ 02:15:10

Tool Information

Drill Pipe:	Length: 4294.00 ft	Diameter: 3.80 inches	Volume: 60.23 bbl	Tool Weight:	1800.00 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: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	5000.00 lb
			Total Volume: 61.13 bbl	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4492.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4471.00	
S.I. Tool	5.00			4476.00	
HMV	5.00			4481.00	
Safety Joint	2.00			4483.00	
Packer	4.00			4487.00	22.00 Bottom Of Top Packer
Packer	5.00			4492.00	
Stubb	1.00			4493.00	
Perforations	5.00			4498.00	
Recorder	0.00	3289	Inside	4498.00	
Perforations	16.00			4514.00	
Recorder	0.00	10242	Inside	4514.00	
Bullnose	2.00			4516.00	24.00 Bottom Packers & Anchor

Total Tool Length: 46.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

Z-Bar "2-33"

950 Tyler Rd
Wichita Ks. 67212

Barber Co.33-33S-15W

Job Ticket: 14927

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2001.09.06 @ 02:15:10

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: 112000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Gassy Wtr 3%G 97%W	4.234
20.00	Mud cut Wtr 18%M 82%W	0.281
0.00	RW 0.070 at 74 F. 112,000 PPM.	0.000

Total Length: 440.00 ft

Total Volume: 4.515 bbl

Num Fluid Samples: 0

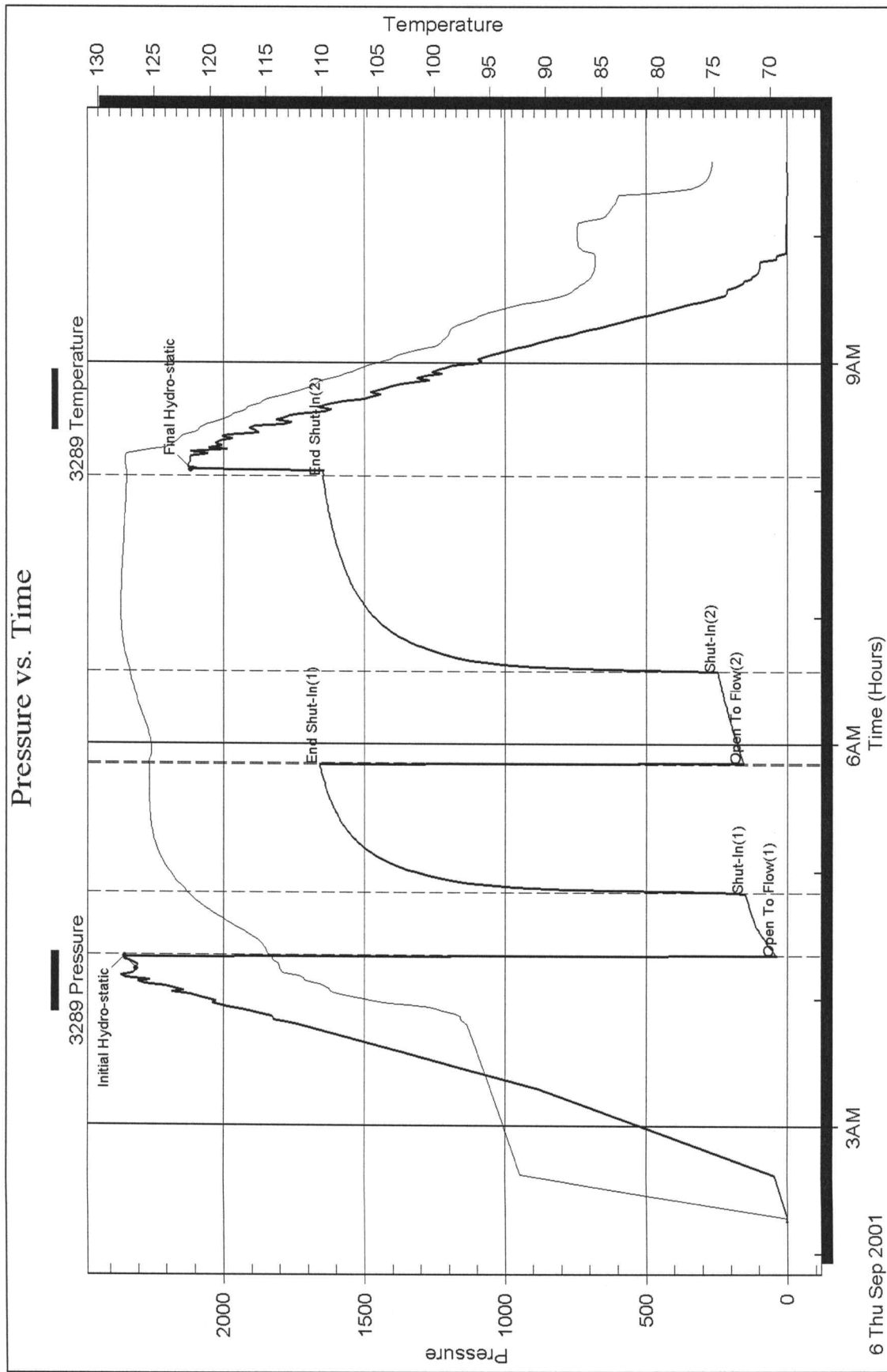
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Barber Co.33-33S-15W

Z-Bar "2-33"

Start Date: 2001.09.07 @ 08:40:04

End Date: 2001.09.07 @ 17:01:34

Job Ticket #: 14928 DST #: 3

Trilobite Testing, Inc
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DRILL STEM TEST REPORT

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14928

DST#: 3

Test Start: 2001.09.07 @ 08:40:04

GENERAL INFORMATION:

Formation: **Fort Scott +**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:19:34

Time Test Ended: 17:01:34

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **4648.00 ft (KB) To 4738.00 ft (KB) (TVD)**

Total Depth: 4738.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1696.00 ft (KB)

1685.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3289

Inside

Press@RunDepth: 74.22 psig @ 4654.00 ft (KB)

Start Date: 2001.09.07

End Date:

2001.09.07

Start Time: 08:40:09

End Time:

17:01:33

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2001.09.07 @ 10:19:04

Time Off Btm: 2001.09.07 @ 14:21:03

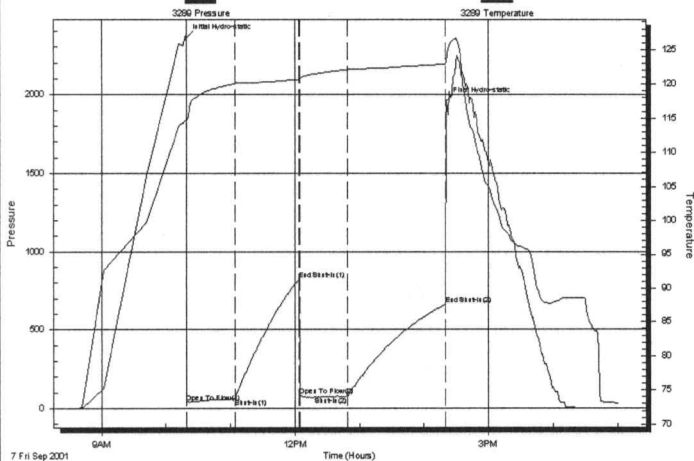
TEST COMMENT: IF: Weak 1/2" built to strong OBB in 4 min. Decreased slightly.

IS: No blow -back.

FF: Strong OBB immed. Decreased slightly

FS: Surface blow back. GTS during

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.97	114.62	Initial Hydro-static
1	39.12	114.68	Open To Flow (1)
45	59.38	120.07	Shut-In(1)
105	823.74	120.67	End Shut-In(1)
106	83.04	120.80	Open To Flow (2)
150	74.22	122.09	Shut-In(2)
242	664.03	122.86	End Shut-In(2)
242	1962.37	123.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&GcM 6%G 9%O 85%M	0.30
65.00	SlIocM 4%O 96%M	0.32
0.00	4506 ft. GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14928

DST#: 3

Test Start: 2001.09.07 @ 08:40:04

Tool Information

Drill Pipe:	Length: 4449.00 ft	Diameter: 3.80 inches	Volume: 62.41 bbl	Tool Weight: 2800.00 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: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 63.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4648.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4627.00	
S.I. Tool	5.00			4632.00	
HMV	5.00			4637.00	
Safety Joint	2.00			4639.00	
Packer	4.00			4643.00	22.00 Bottom Of Top Packer
Packer	5.00			4648.00	
Stubb	1.00			4649.00	
Perforations	5.00			4654.00	
Recorder	0.00	3289	Inside	4654.00	
Perforations	18.00			4672.00	
C.O. Sub	1.00			4673.00	
Blank Spacing	62.00			4735.00	
Recorder	0.00	10242	Inside	4735.00	
C.O. Sub	1.00			4736.00	
Bullnose	2.00			4738.00	90.00 Bottom Packers & Anchor

Total Tool Length: 112.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

Z-Bar "2-33"

950 Tyler Rd
Wichita Ks. 67212

Barber Co.33-33S-15W

Job Ticket: 14928

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2001.09.07 @ 08:40:04

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O&GcM 6%G 9%O 85%M	0.295
65.00	SlIcM 4%O 96%M	0.320
0.00	4506 ft. GIP	0.000

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

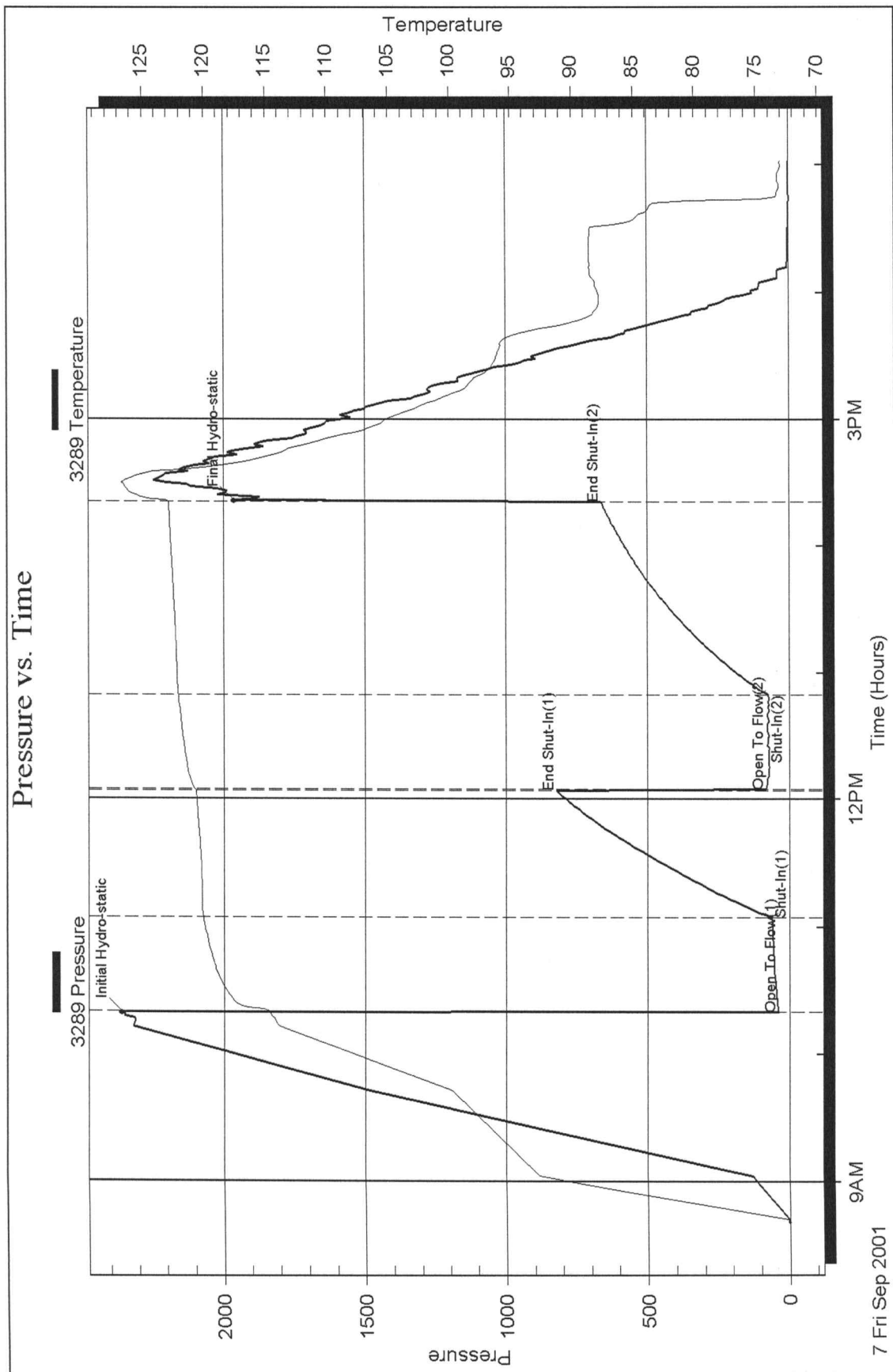
Serial #: 0

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Barber Co.33-33S-15W

Z-Bar "2-33"

Start Date: 2001.09.09 @ 21:00:06

End Date: 2001.09.10 @ 06:32:51

Job Ticket #: 14930 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
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DRILL STEM TEST REPORT

Hummon Corp.

950 Tyler Rd
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Z-Bar "2-33"

Barber Co.33-33S-15W

Job Ticket: 14930

DST#: 4

Test Start: 2001.09.09 @ 21:00:06

GENERAL INFORMATION:

Formation: **viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:19:21

Time Test Ended: 06:32:51

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: 5066.00 ft (KB) To 5094.00 ft (KB) (TVD)

Total Depth: 5094.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1696.00 ft (KB)

1685.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3289

Inside

Press@RunDepth: 115.30 psig @ 5072.00 ft (KB)

Start Date: 2001.09.09

End Date:

2001.09.10

Start Time: 21:00:11

End Time:

06:32:51

Capacity: 7000.00 psig

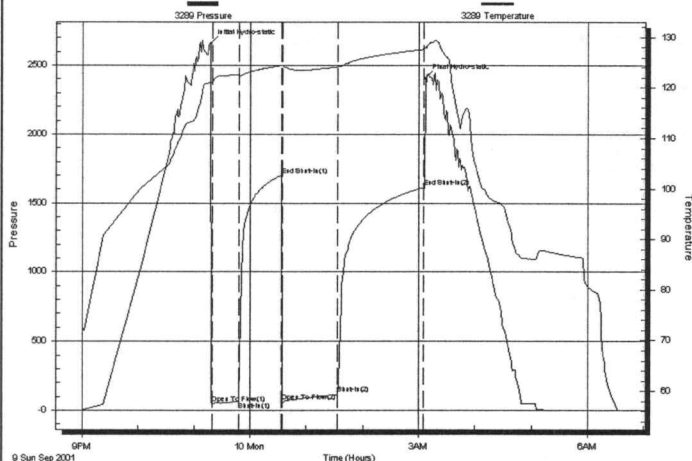
Last Calib.: 1899.12.30

Time On Btm: 2001.09.09 @ 23:17:51

Time Off Btm: 2001.09.10 @ 03:06:35

TEST COMMENT: IF: Strong O.B.B in 30 sec. G.T.S. 15 mins. see flow chart IS: No blow back
FF: See flow chart "Gas burned." FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2660.48	121.03	Initial Hydro-static
2	50.83	120.86	Open To Flow (1)
30	65.37	122.47	Shut-In(1)
76	1702.64	124.42	End Shut-In(1)
77	63.13	124.53	Open To Flow (2)
136	115.30	124.18	Shut-In(2)
228	1615.38	127.62	End Shut-In(2)
229	2407.14	127.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Sli Mc Gassy Oil 13%G 84%O 3%M	0.15
150.00	Sli M,HvyGcO 28%G 67%O 5%M	0.74
100.00	Gassy McO 5%G 75%O 30%M	1.38
0.00	4789 ft. GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	2.80	27.29
Last Gas Rate	0.25	7.00	33.95
Max. Gas Rate	0.25	8.20	35.85



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corp.

Z-Bar "2-33"

950 Tyler Rd
Wichita Ks. 67212

Barber Co.33-33S-15W

Job Ticket: 14930

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2001.09.09 @ 21:00:06

Tool Information

Drill Pipe:	Length: 4887.00 ft	Diameter: 3.80 inches	Volume: 68.55 bbl	Tool Weight: 1800.00 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: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 5000.00 lb
		Total Volume:	69.45 bbl	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5066.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5045.00	
S.I. Tool	5.00			5050.00	
HMV	5.00			5055.00	
Safety Joint	2.00			5057.00	
Packer	4.00			5061.00	22.00 Bottom Of Top Packer
Packer	5.00			5066.00	
Stubb	1.00			5067.00	
Perforations	5.00			5072.00	
Recorder	0.00	3289	Inside	5072.00	
Perforations	20.00			5092.00	
Recorder	0.00	10242	Inside	5092.00	
Bullnose	2.00			5094.00	28.00 Bottom Packers & Anchor

Total Tool Length: 50.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

Z-Bar "2-33"

950 Tyler Rd
Wichita Ks. 67212

Barber Co.33-33S-15W

Job Ticket: 14930

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2001.09.09 @ 21:00:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Sli Mc Gassy Oil 13%G 84%O 3%M	0.148
150.00	Sli M,HvyGcO 28%G 67%O 5%M	0.738
100.00	Gassy McO 5%G 75%O 30%M	1.385
0.00	4789 ft. GIP	0.000

Total Length: 280.00 ft

Total Volume: 2.271 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 1

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Hummon Corp.

Z-Bar "2-33"

950 Tyler Rd
Wichita Ks. 67212

Barber Co.33-33S-15W

Job Ticket: 14930

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2001.09.09 @ 21:00:06

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	20	0.25	2.80	27.29
1	20	0.25	2.80	27.29
1	30	0.25	5.80	32.05
2	10	0.25	7.50	34.74
2	20	0.25	8.20	35.85
2	30	0.25	8.20	35.85
2	40	0.25	7.50	34.74
2	50	0.25	7.00	33.95

Pressure vs. Time

