

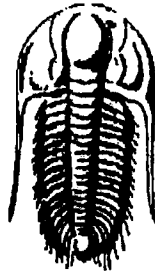
15-065-23712

30-9s-24w

CONFIDENTIAL

MAR 08 2012

KCC



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

30-9-24 Graham KS

Bakel 30-1

Start Date: 2011.01.29 @ 14:20:04

End Date: 2011.01.29 @ 23:09:34

Job Ticket #: 41909 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
MAR 09 2011
KCC WICHITA

H&C Oil Operating Inc.

Bakel 30-1

30-9-24 Graham KS

DST # 1

KC "D,C"

2011.01.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41909

DST#: 1

ATTN: Marc Downing

Test Start: 2011.01.29 @ 14:20:04

GENERAL INFORMATION:

Formation: **KC "D,C"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 17:13:04
 Time Test Ended: 23:09:34

Test Type: **Conventional Bottom Hole**
 Tester: **Brett Dickinson**
 Unit No: **47**

Interval: **3917.00 ft (KB) To 3955.00 ft (KB) (TVD)**
 Total Depth: **3955.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2574.00 ft (KB)**
2569.00 ft (CF)
 KB to GR/CF: **5.00 ft**

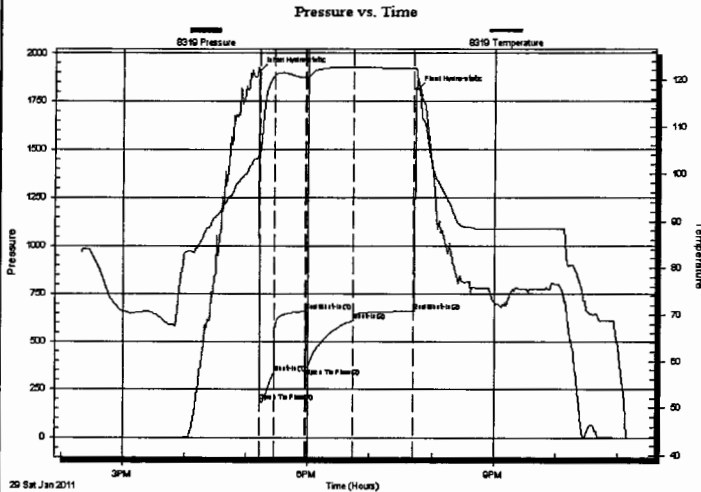
Serial #: 8319

Inside

Press@RunDepth: **611.66 psig @ 3937.00 ft (KB)**
 Start Date: **2011.01.29** End Date: **2011.01.29**
 Start Time: **14:20:09** End Time: **23:09:34**

Capacity: **8000.00 psig**
 Last Calib.: **2011.01.29**
 Time On Btm: **2011.01.29 @ 17:12:04**
 Time Off Btm: **2011.01.29 @ 19:44:04**

TEST COMMENT: IF-BOB in 30sec
 IS-BOB in 2min
 FF-BOB in 45sec
 FS-BOB in 2.5min



PRESSURE SUMMARY

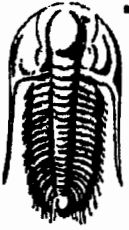
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.37	104.12	Initial Hydro-static
1	186.54	104.06	Open To Flow (1)
15	338.64	120.94	Shut-In(1)
45	660.25	120.50	End Shut-In(1)
46	361.34	120.33	Open To Flow (2)
92	611.66	122.67	Shut-In(2)
150	660.71	122.48	End Shut-In(2)
152	1812.56	122.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1705.00	GO 20%G 80%O	23.92
0.00	GTS 2250 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41909

DST#: 1

ATTN: Marc Downing

Test Start: 2011.01.29 @ 14:20:04

Tool Information

Drill Pipe:	Length: 3903.00 ft	Diameter: 3.80 inches	Volume: 54.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3917.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

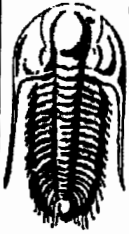
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00			3908.00	
Packer	4.00			3912.00	20.00 Bottom Of Top Packer
Packer	5.00			3917.00	
Stubb	1.00			3918.00	
Perforations	19.00			3937.00	
Recorder	0.00	8319	Inside	3937.00	
Recorder	0.00	6719	Outside	3937.00	
Perforations	15.00			3952.00	
Bullnose	3.00			3955.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00

CONFIDENTIAL

MAR 08 2012

KCC



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41909 DST#: 1

ATTN: Marc Downing

Test Start: 2011.01.29 @ 14:20:04

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 71.00 sec/qt
Water Loss: 7.96 in³
Resistivity: ohm.m
Salinity: 1500.00 ppm
Filter Cake: inches

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

Oil API: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1705.00	GO 20%G 80%O	23.917
0.00	GTS 2250 GIP	0.000

Total Length: 1705.00 ft Total Volume: 23.917 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

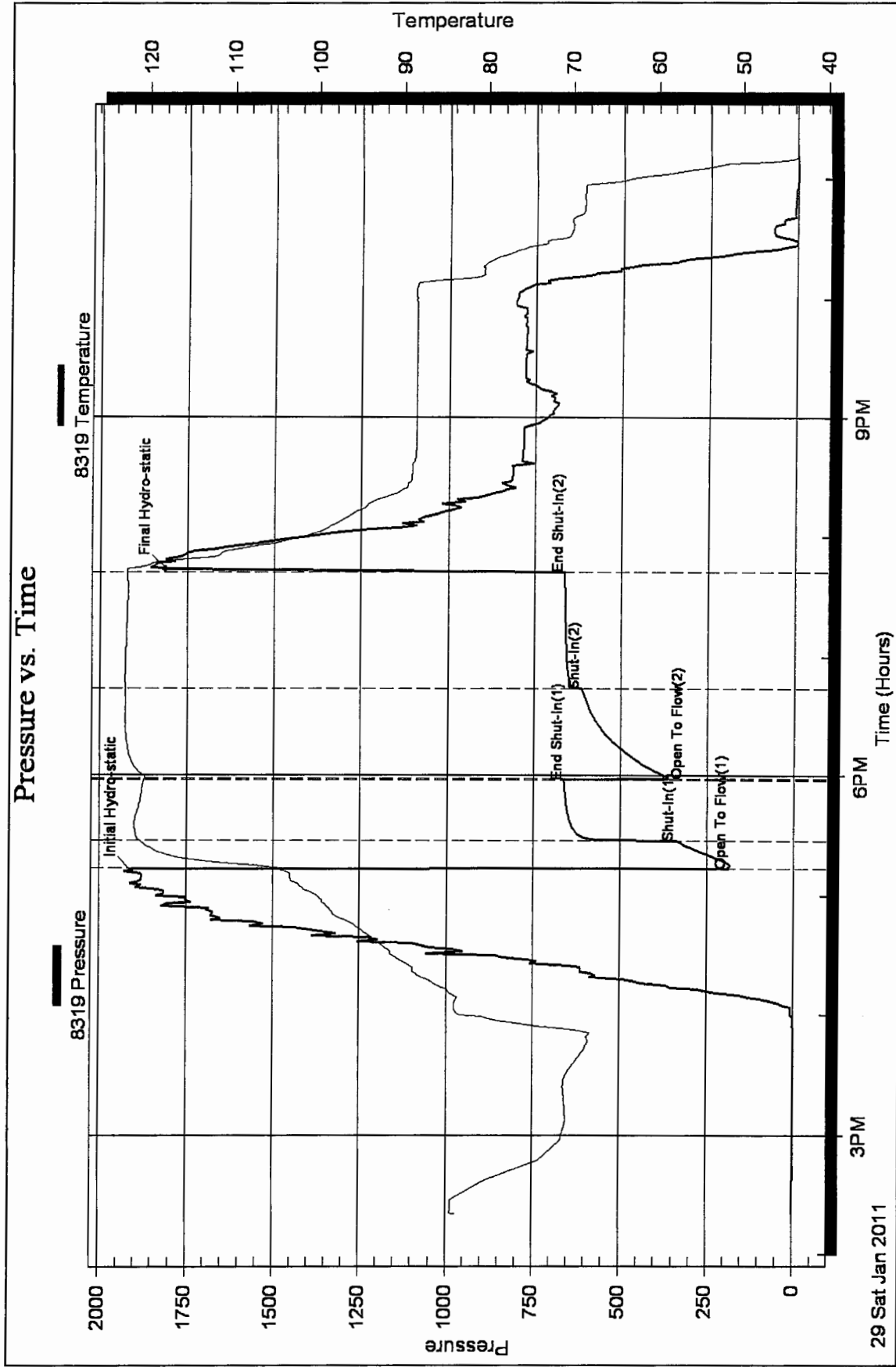
Serial #: 8319

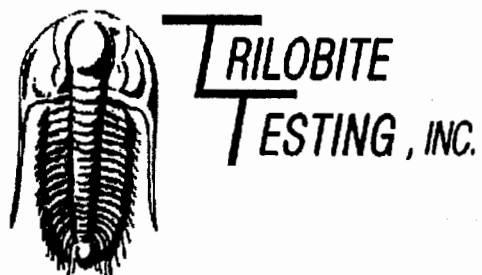
Inside

H&C Oil Operating Inc.

30-9-24 Graham KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

30-9-24 Graham KS

Bakel 30-1

Start Date: 2011.01.30 @ 06:33:30

End Date: 2011.01.30 @ 14:15:30

Job Ticket #: 41910 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

H&C Oil Operating Inc.

Bakel 30-1

30-9-24 Graham KS

DST # 2

KC "E,F"

2011.01.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Bakel 30-1

30-9-24 Graham KS

Job Ticket: 41910

DST#: 2

Test Start: 2011.01.30 @ 06:33:30

GENERAL INFORMATION:

Formation: **KC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:11:30

Time Test Ended: 14:15:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: **3960.00 ft (KB) To 3990.00 ft (KB) (TVD)**

Total Depth: **3990.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2574.00 ft (KB)**

2569.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8319

Inside

Press@RunDepth: **133.68 psig @ 3972.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.01.30**

End Date:

2011.01.30

Last Calib.: **2011.01.30**

Start Time: **06:33:35**

End Time:

14:15:29

Time On Btm: **2011.01.30 @ 09:10:00**

Time Off Btm: **2011.01.30 @ 12:16:00**

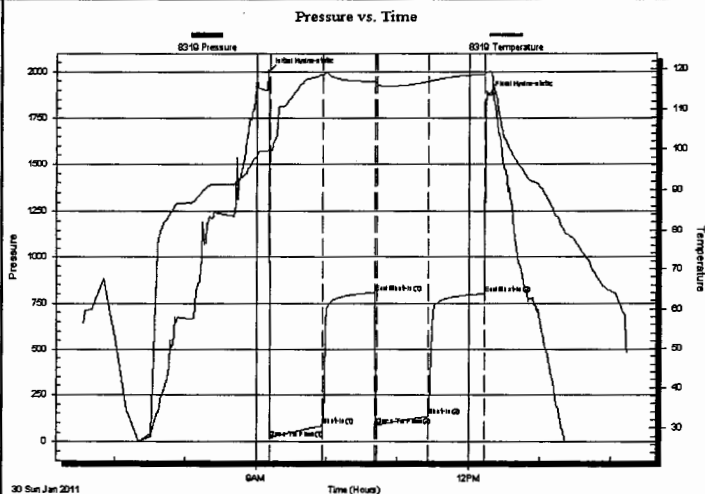
TEST COMMENT:

IF-BOB in 38min

ISI-Weak surface blow died in 38min

FF-8.5in blow

FST-Weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.77	99.77	Initial Hydro-static
2	16.52	99.92	Open To Flow (1)
46	82.30	118.53	Shut-In(1)
92	806.60	116.85	End Shut-In(1)
93	85.35	116.46	Open To Flow (2)
137	133.68	116.97	Shut-In(2)
184	800.41	118.74	End Shut-In(2)
186	1875.36	119.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SGO 10%G 90%O	0.21
60.00	Oilspotted MCW 60%W 40%M	0.84
180.00	Oilspotted MCW 85%W 15%M	2.52
0.00	240ft GP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41910

DST#: 2

ATTN: Marc Downing

Test Start: 2011.01.30 @ 06:33:30

Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	49000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	46000.00 lb
Drill Pipe Above KB:	26.00 ft			Final	49000.00 lb
Depth to Top Packer:	3960.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 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
Change Over Sub	1.00			3941.00	
Shut In Tool	5.00			3946.00	
Hydraulic tool	5.00			3951.00	
Packer	4.00			3955.00	20.00 Bottom Of Top Packer
Packer	5.00			3960.00	
Stubb	1.00			3961.00	
Perforations	11.00			3972.00	
Recorder	0.00	8319	Inside	3972.00	
Recorder	0.00	6719	Outside	3972.00	
Perforations	15.00			3987.00	
Bullnose	3.00			3990.00	30.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41910

DST#: 2

ATTN: Marc Dow ning

Test Start: 2011.01.30 @ 06:33:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

135000 ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SGO 10%G 90%O	0.210
60.00	Oilspotted MCW 60%W 40%M	0.842
180.00	Oilspotted MCW 85%W 15%M	2.525
0.00	240ft GIP	0.000

Total Length:

255.00 ft

Total Volume:

3.577 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

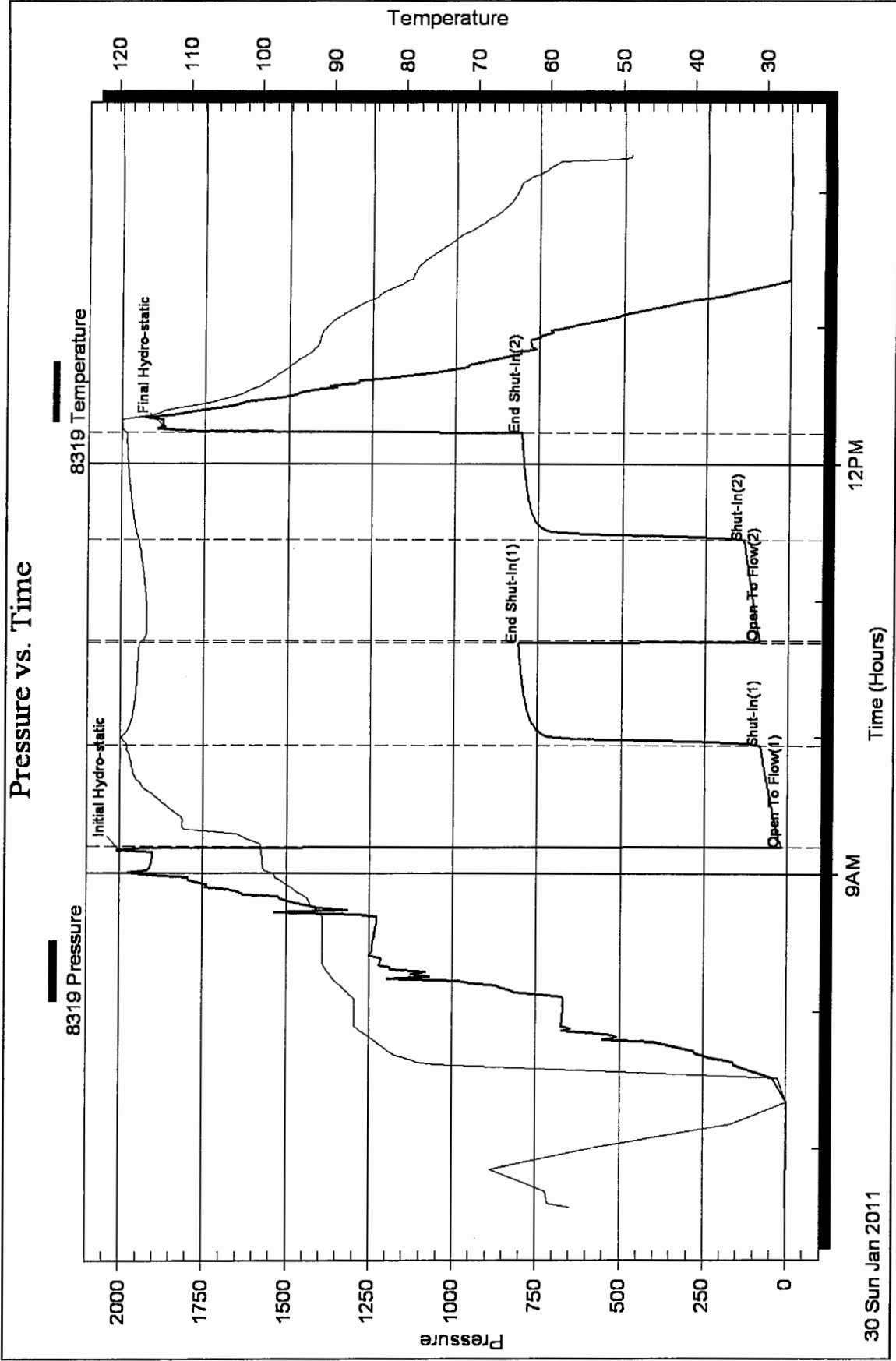
Serial #:

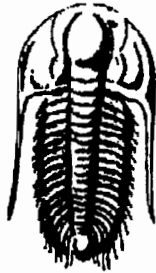
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .10 @ 45F = 135000 ppm

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

30-9-24 Graham KS

Bakel 30-1

Start Date: 2011.01.30 @ 22:55:17

End Date: 2011.01.31 @ 05:31:47

Job Ticket #: 41911 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

H&C Oil Operating Inc.

Bakel 30-1

30-9-24 Graham KS

DST # 3

KC "H"

2011.01.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

ATTN: Marc Downing

Job Ticket: 41911

DST#: 3

Test Start: 2011.01.30 @ 22:55:17

GENERAL INFORMATION:

Formation: **KC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:47

Time Test Ended: 05:31:47

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: **4015.00 ft (KB) To 4048.00 ft (KB) (TVD)**

Total Depth: **4048.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2574.00 ft (KB)**

2569.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8319

Inside

Press@RunDepth: **59.69 psig @ 4030.00 ft (KB)**

Start Date: **2011.01.30**

End Date: **2011.01.31**

Start Time: **22:55:22**

End Time: **05:31:46**

Capacity: **8000.00 psig**

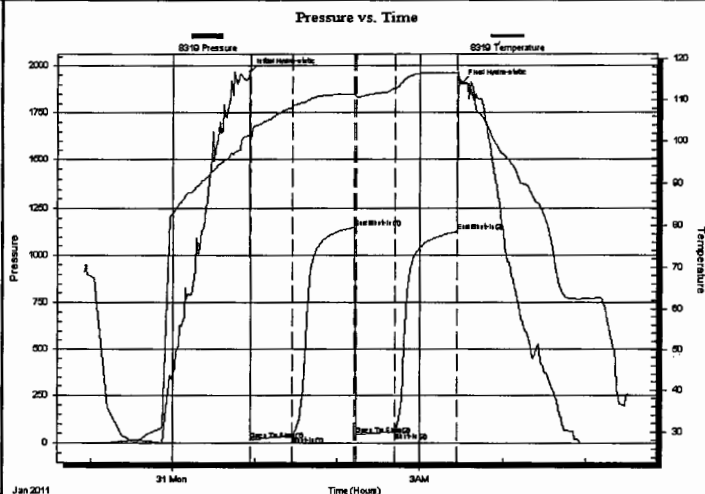
Last Calib.: **2011.01.31**

Time On Btm: **2011.01.31 @ 00:55:47**

Time Off Btm: **2011.01.31 @ 03:28:47**

TEST COMMENT:

IF-BOB in 5min
ISI-Weak surface blow died in 17min
FF-BOB in 1min
FSI-Weak surface blw



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.76	101.45	Initial Hydro-static
1	15.95	100.49	Open To Flow (1)
32	38.59	108.37	Shut-In(1)
77	1150.90	111.49	End Shut-In(1)
78	41.29	111.04	Open To Flow (2)
107	59.69	112.86	Shut-In(2)
151	1127.44	116.47	End Shut-In(2)
153	1906.09	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGMCO 10%G 50%O 40%M	0.84
70.00	SGMCO 10%G 60%O 30%M	0.98
0.00	170ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41911

DST#: 3

ATTN: Marc Dow ning

Test Start: 2011.01.30 @ 22:55:17

Tool Information

Drill Pipe:	Length: 4023.00 ft	Diameter: 3.80 inches	Volume: 56.43 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	28.00 ft			Final	50000.00 lb
Depth to Top Packer:	4015.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3996.00	
Shut In Tool	5.00			4001.00	
Hydraulic tool	5.00			4006.00	
Packer	4.00			4010.00	20.00 Bottom Of Top Packer
Packer	5.00			4015.00	
Stubb	1.00			4016.00	
Perforations	14.00			4030.00	
Recorder	0.00	8319	Inside	4030.00	
Recorder	0.00	6719	Outside	4030.00	
Perforations	15.00			4045.00	
Bullnose	3.00			4048.00	33.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41911

DST#: 3

ATTN: Marc Dow ning

Test Start: 2011.01.30 @ 22:55:17

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: 71.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SGMCO 10%G 50%O 40%M	0.842
70.00	SGMCO 10%G 60%O 30%M	0.982
0.00	170ft GIP	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

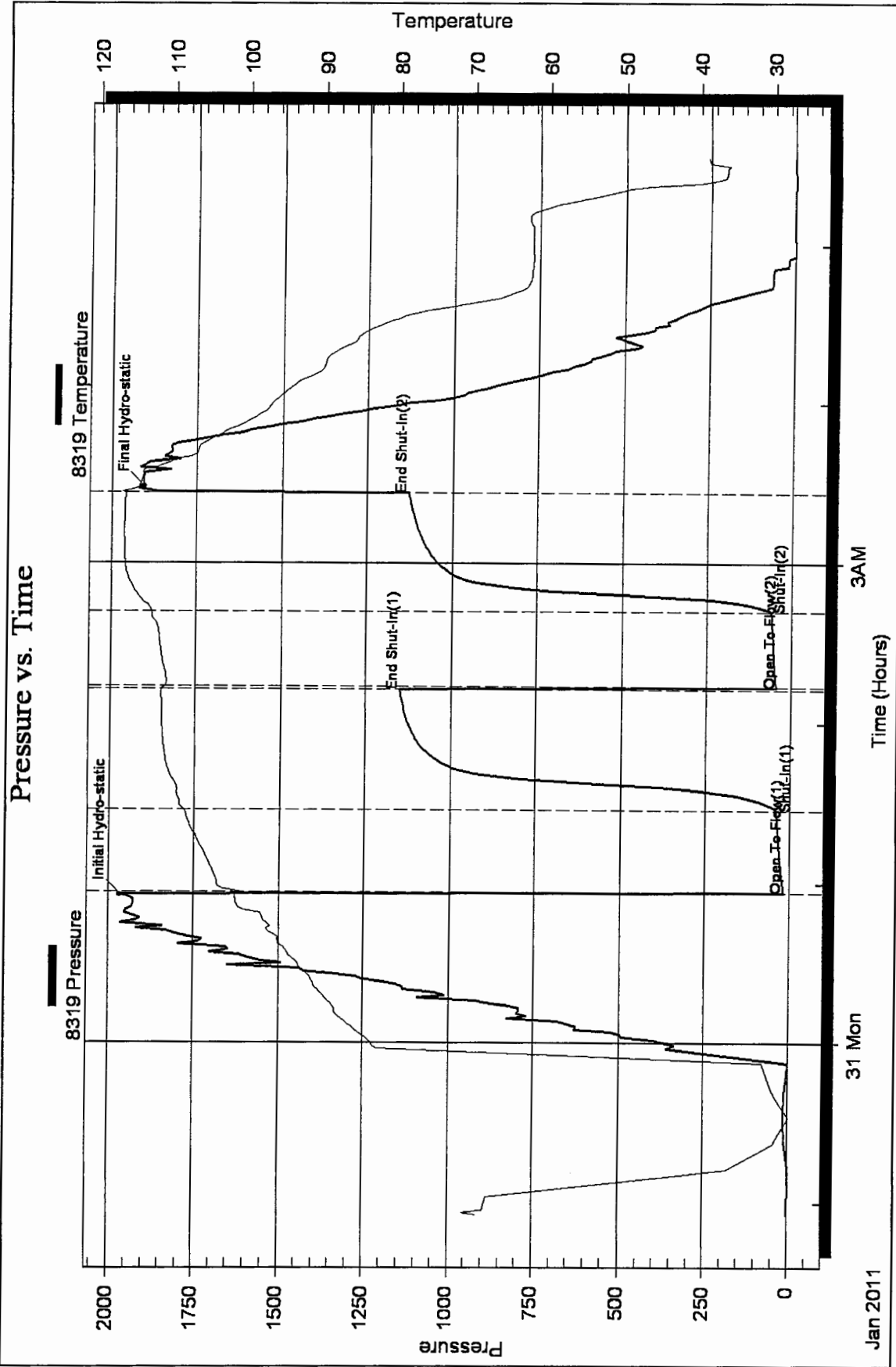
Inside

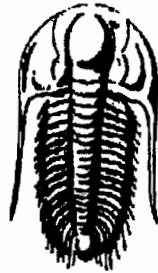
H&C Oil Operating Inc.

30-9-24 Graham KS

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

30-9-24 Graham KS

Bakel 30-1

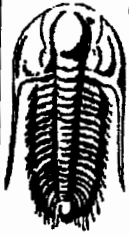
Start Date: 2011.01.31 @ 12:59:08

End Date: 2011.01.31 @ 21:39:38

Job Ticket #: 41912 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
MAR 09 2011
KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41912

DST#: 4

ATTN: Marc Downing

Test Start: 2011.01.31 @ 12:59:08

GENERAL INFORMATION:

Formation: **KC"i,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:09:08

Time Test Ended: 21:39:38

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: **4048.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Total Depth: 4090.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2574.00 ft (KB)

2569.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 106.05 psig @ 4053.00 ft (KB)

Start Date: 2011.01.31

End Date:

2011.01.31

Start Time: 12:59:13

End Time:

21:39:38

Capacity: 8000.00 psig

Last Calib.: 2011.01.31

Time On Btm: 2011.01.31 @ 16:07:38

Time Off Btm: 2011.01.31 @ 18:43:38

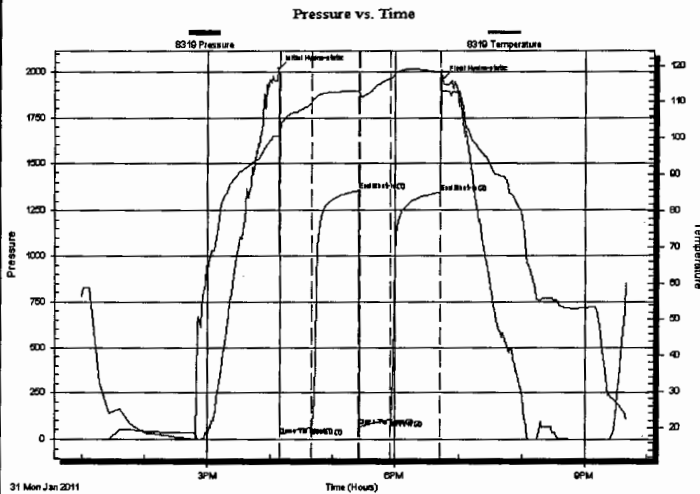
TEST COMMENT:

IF-BOB in 4min

ISI-Weak surface blow died in 27min

FF-BOB in 4min

FSI-2.5in blow



PRESSURE SUMMARY

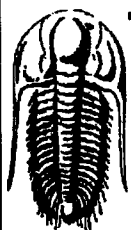
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2016.85	100.67	Initial Hydro-static
2	21.94	99.18	Open To Flow (1)
32	63.10	109.90	Shut-In(1)
77	1354.53	113.01	End Shut-In(1)
78	69.27	112.09	Open To Flow (2)
108	106.05	116.59	Shut-In(2)
154	1345.74	118.26	End Shut-In(2)
156	1959.85	113.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GO 30%G 70%O	0.42
218.00	GMCO 25%G 55%O 20%M	3.06
0.00	120ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41912

DST#: 4

ATTN: Marc Downing

Test Start: 2011.01.31 @ 12:59:08

Tool Information

Drill Pipe:	Length: 4056.00 ft	Diameter: 3.80 inches	Volume: 56.90 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4048.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4029.00	
Shut In Tool	5.00			4034.00	
Hydraulic tool	5.00			4039.00	
Packer	4.00			4043.00	20.00 Bottom Of Top Packer
Packer	5.00			4048.00	
Stubb	1.00			4049.00	
Perforations	4.00			4053.00	
Recorder	0.00	8319	Inside	4053.00	
Recorder	0.00	6719	Outside	4053.00	
Change Over Sub	1.00			4054.00	
Blank Spacing	30.00			4084.00	
Change Over Sub	1.00			4085.00	
Perforations	2.00			4087.00	
Bullnose	3.00			4090.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Bakel 30-1

PO Box 86
Plainville KS 67663

30-9-24 Graham KS

Job Ticket: 41912 DST#: 4

ATTN: Marc Dow ning

Test Start: 2011.01.31 @ 12:59:08

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.95 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GO 30%G 70%O	0.421
218.00	GMCO 25%G 55%O 20%M	3.058
0.00	120ft GIP	0.000

Total Length: 248.00 ft Total Volume: 3.479 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8319

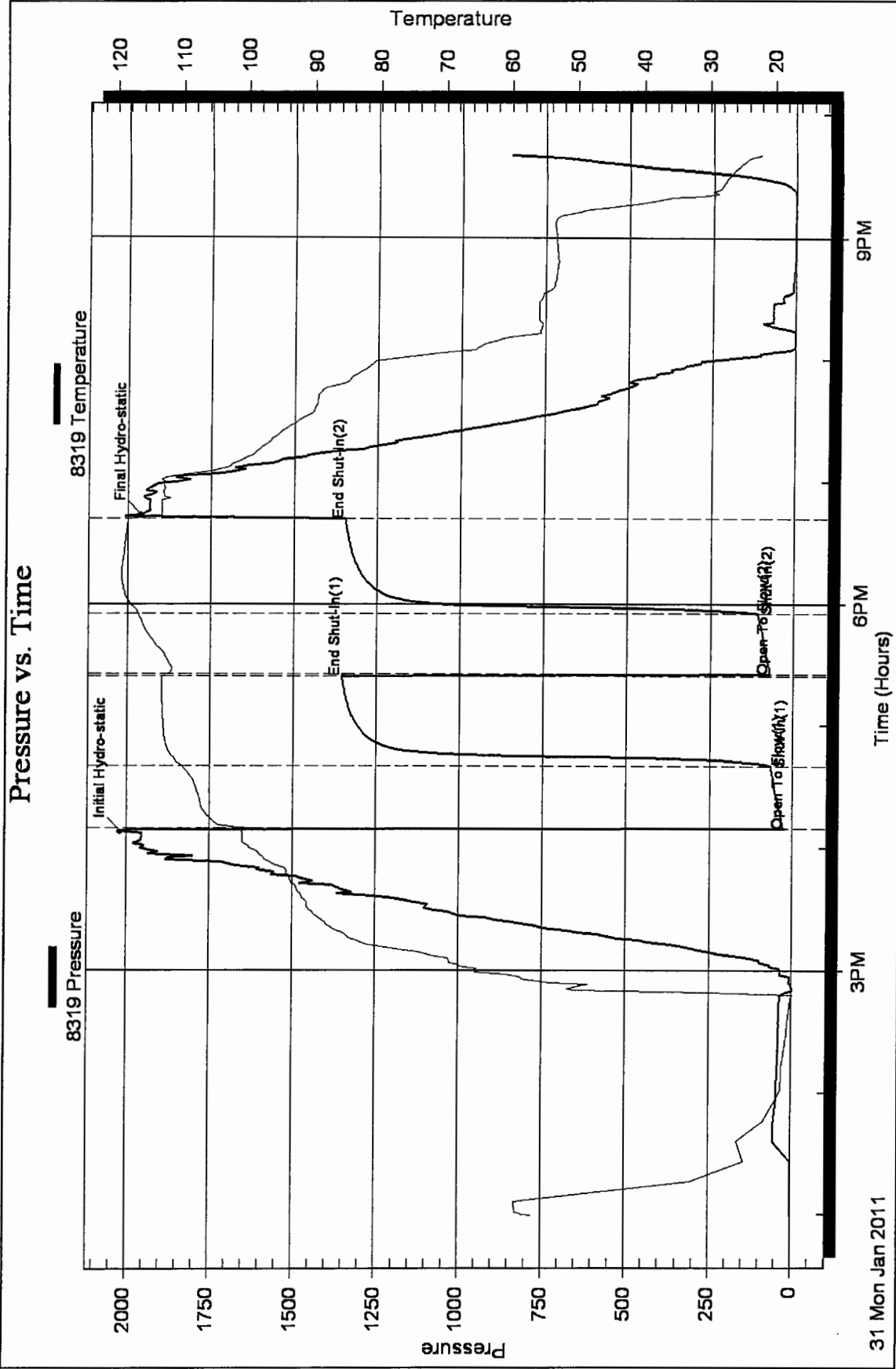
Inside

H&C Oil Operating Inc.

30-9-24 Graham KS

DST Test Number: 4

Pressure vs. Time



31 Mon Jan 2011

3PM

6PM

9PM

Time (Hours)