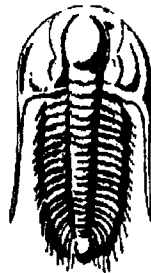


15-039-21006

19-55-29w
RECEIVED
KANSAS CORPORATION COMMISSION

OCT 30 2007

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

19 5 29 Decatur KS

Green-O'Brien #1-19

Start Date: 2007.07.05 @ 20:22:39

End Date: 2007.07.06 @ 05:15:39

Job Ticket #: 27801 DST #: 1

CONFIDENTIAL
OCT 30 2007
KCC

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Green-O'Brien #1-19

19 5 29 Decatur KS

DST # 1

Topeka

2007.07.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green-O'Brien #1-19

19 5 29 Decatur KS

Job Ticket: 27801

DST#: 1

Test Start: 2007.07.05 @ 20:22:39

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No **0** ft stock: ft (KB)

Time Tool Opened: 22:55:19

Time Test Ended: 05:18:39

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3723.00 ft (KB) To 3775.00 ft (KB) (TVD)**

Total Depth: 3775.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2839.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 1191.84 psig @ 3724.00 ft (KB)

Start Date: 2007.07.05

End Date:

2007.07.06

Capacity: 7000.00 psig

Last Calib.: 2007.07.06

Start Time: 20:22:41

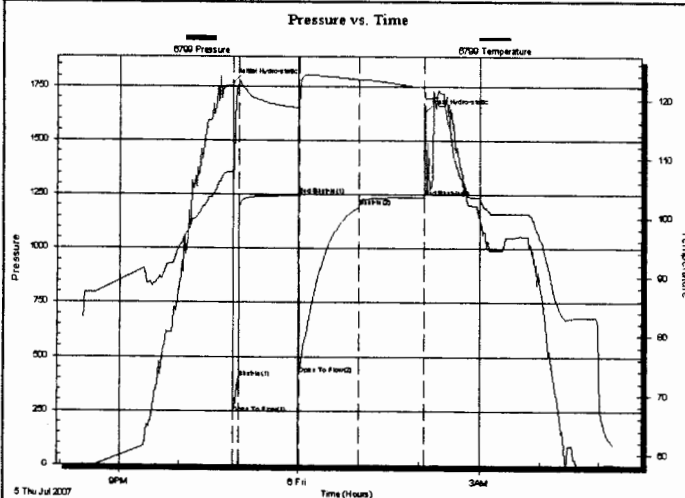
End Time:

05:15:39

Time On Btm: 2007.07.05 @ 22:55:09

Time Off Btm: 2007.07.06 @ 02:05:09

TEST COMMENT: IF Strong blow BOB 55 seconds.
ISI Bled off blow back built to 1.5 " in bucket
FF Strong blow BOB 1 minute.
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.10	107.76	Initial Hydro-static
1	233.59	107.01	Open To Flow (1)
5	401.17	122.45	Shut-In(1)
65	1245.07	118.64	End Shut-In(1)
66	420.15	118.61	Open To Flow (2)
125	1191.84	123.36	Shut-In(2)
190	1238.78	122.12	End Shut-In(2)
191	1631.35	122.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2270.00	Salt Water 100%W	30.16
185.00	WM 35%W 65%M	2.60
90.00	SWCM w/slight Oil trace >1%O 5%W 95%W	1.26
0.00	RW= .18 OHMS @ 67 deg F = 44000 ppm CHL	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

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green-O'Brien #1-19

19 5 29 Decatur KS

Job Ticket: 27801

DST#: 1

Test Start: 2007.07.05 @ 20:22:39

Tool Information

Drill Pipe:	Length: 3547.00 ft	Diameter: 3.80 inches	Volume: 49.76 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	95000.00 lb
			Total Volume: 50.67 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3723.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3708.00	
Hydraulic tool	5.00			3713.00	
Packer	5.00			3718.00	20.00 Bottom Of Top Packer
Packer	5.00			3723.00	
Stubb	1.00			3724.00	
Recorder	0.00	6799	Inside	3724.00	
Perforations	15.00			3739.00	
Blank Spacing	33.00			3772.00	
Recorder	0.00	10270	Outside	3772.00	
Bullnose	3.00			3775.00	52.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Green-O'Brien #1-19

250 N Water Ste 300
Wichita KS 67202

19 5 29 Decatur KS

Job Ticket: 27801

DST#: 1

ATTN: Rocky Milford

Test Start: 2007.07.05 @ 20:22:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 700.00 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
2270.00	Salt Water 100%W	30.157
185.00	WM 35%W 65%M	2.595
90.00	SWCM w/ slight Oil trace >1%O 5%W 95%M	1.262
0.00	RW= 18 OHMS@67degF=44000ppmCHL	0.000

Total Length: 2545.00 ft

Total Volume: 34.014 bbl

Num Fluid Samples: 0

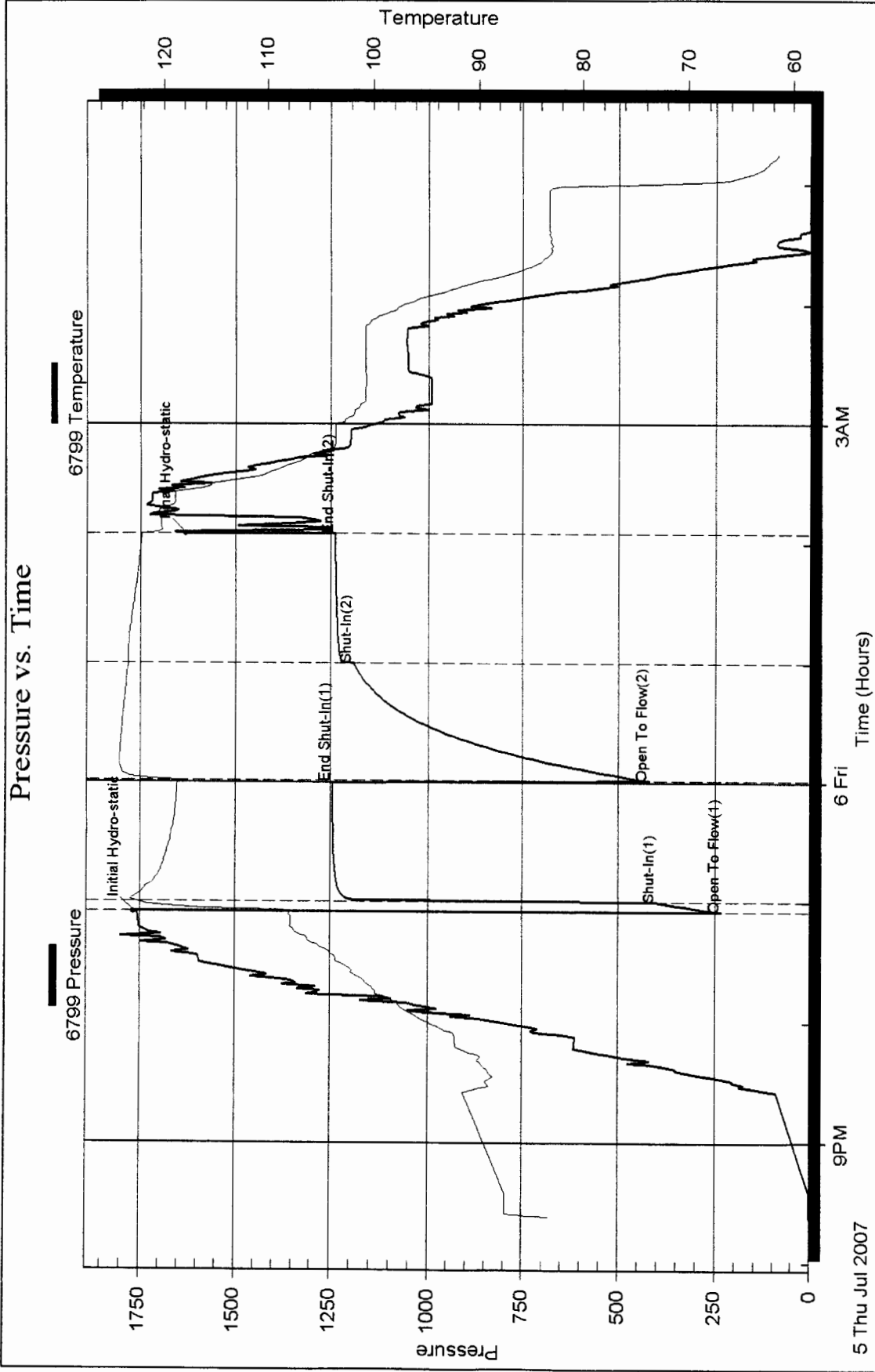
Num Gas Bombs: 0

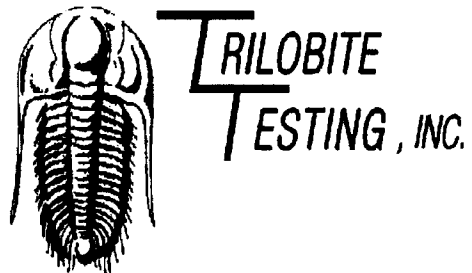
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

19 5 29 Decatur KS

Green-O'Brien #1-19

Start Date: 2007.07.06 @ 17:37:23

End Date: 2007.07.07 @ 02:41:33

Job Ticket #: 27802 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

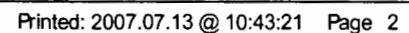


Test Start: 2007.07.06 @ 17:37:23

KB to GR/CF: 5.00 ft

Time Off Btm: 2007.07.06 @ 23:26:33

FSI Bled off 6 minutes blow back @ BOB after 61 minutes.





TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Green-O'Brien #1-19

250 N Water Ste 300
Wichita KS 67202

19 5 29 Decatur KS

Job Ticket: 27802

DST#: 2

ATTN: Rocky Milford

Test Start: 2007.07.06 @ 17:37:23

Tool Information

Drill Pipe:	Length: 3670.00 ft	Diameter: 3.80 inches	Volume: 51.48 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: lb
		Total Volume: 52.39 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3855.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3840.00	
Hydraulic tool	5.00			3845.00	
Packer	5.00			3850.00	20.00 Bottom Of Top Packer
Packer	5.00			3855.00	
Stubb	1.00			3856.00	
Recorder	0.00	6799	Inside	3856.00	
Perforations	24.00			3880.00	
Recorder	0.00	10270		3880.00	
Blank Spacing	63.00			3943.00	
Bullnose	3.00			3946.00	91.00 Bottom Packers & Anchor
Total Tool Length:	111.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Green-O'Brien #1-19

250 N Water Ste 300
Wichita KS 67202

19 5 29 Decatur KS

Job Ticket: 27802

DST#: 2

ATTN: Rocky Milford

Test Start: 2007.07.06 @ 17:37:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 7900.00 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
120.00	OSMCW 3%o 12%m 85%w	0.590
60.00	OWCM 20%o 30%w 50%m	0.295
275.00	GCOM 15%g 30%o 55%m	3.812
590.00	Gassy Clean Oil 30%G 70%O	8.276
80.00	HGCMCO 20%G 30%M 50%O	1.122
0.00	Gravity = 24 API corrected	0.000
0.00	RV=,17 OHMS@73degF=42000ppmCHL	0.000

Total Length: 1125.00 ft

Total Volume: 14.095 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

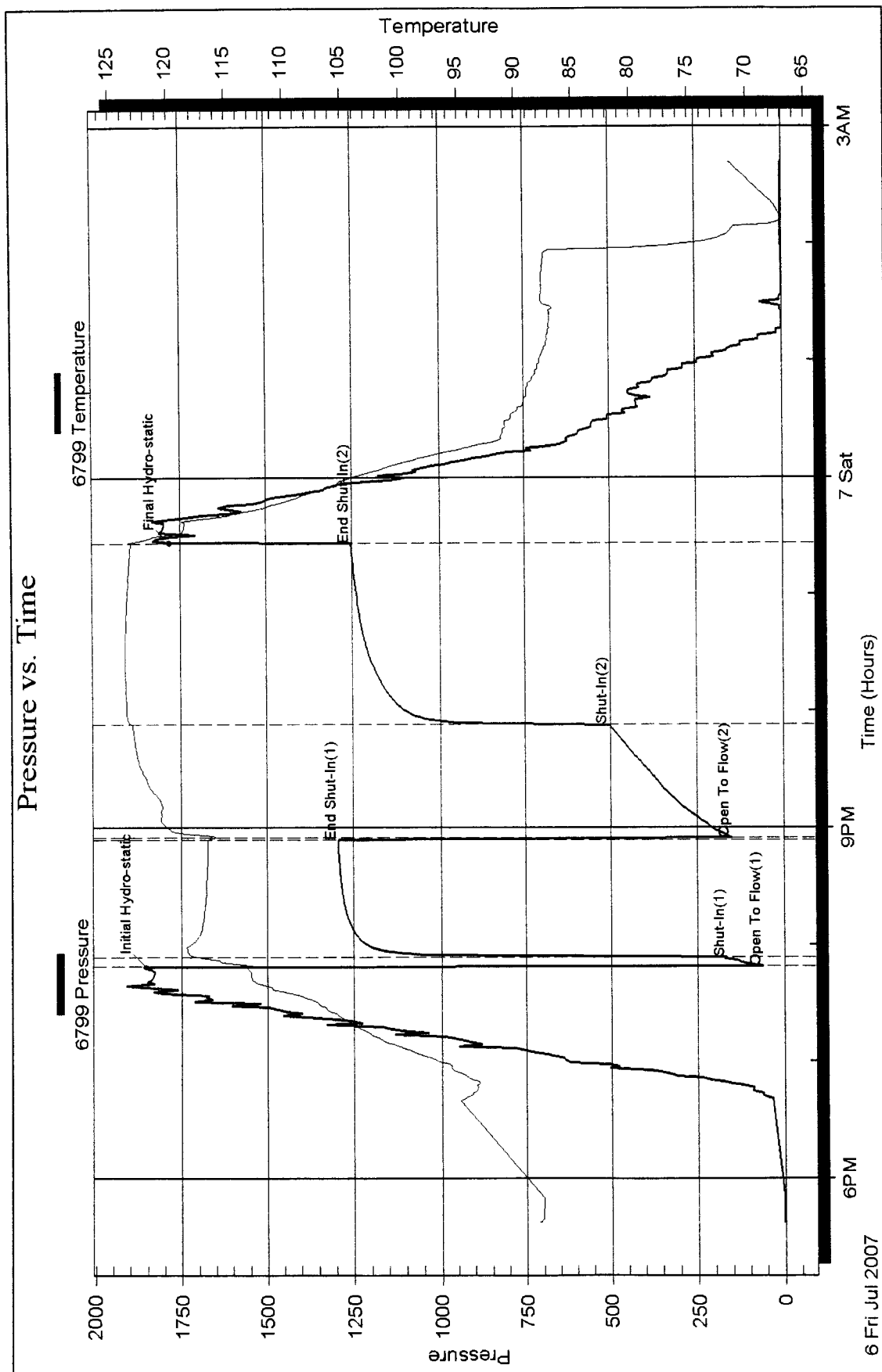
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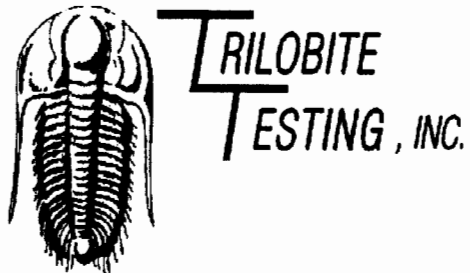
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

19 5 29 Decatur KS

Green-O'Brien #1-19

Start Date: 2007.07.07 @ 12:22:57

End Date: 2007.07.07 @ 22:24:37

Job Ticket #: 27803 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILLOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green-O'Brien #1-19

19 5 29 Decatur KS

Job Ticket: 27803

DST#: 3

Test Start: 2007.07.07 @ 12:22:57

GENERAL INFORMATION:

Formation: **L, KC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:47

Time Test Ended: 22:24:37

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3945.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Total Depth: 3995.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2839.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 1090.77 psig @ 3946.00 ft (KB)

Start Date: 2007.07.07

End Date:

2007.07.07

Capacity: 7000.00 psig

Last Calib.: 2007.07.07

Start Time: 12:22:59

End Time:

22:24:37

Time On Btm: 2007.07.07 @ 15:15:37

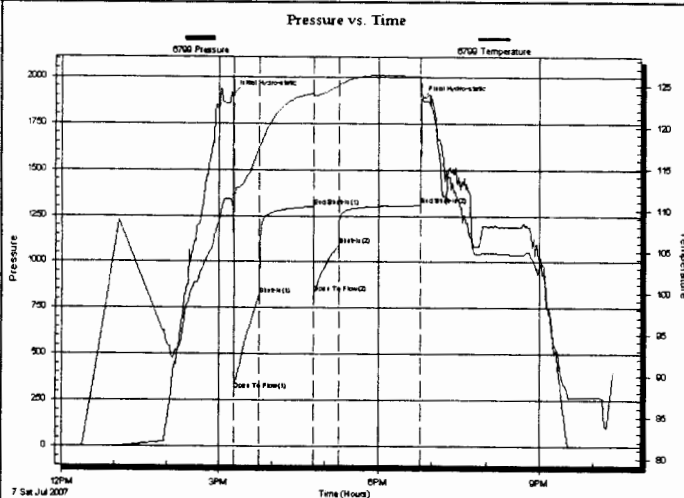
Time Off Btm: 2007.07.07 @ 18:48:17

TEST COMMENT: IF BOB immediately bled off @ 14 min, BOB from 4 " blow in 30 sec. (Tool slid and took on mud after opening)

ISI Bled off for 6 min blow back @ BOB after 4 min.

FF Strong blow BOB 55 seconds.

FSI B



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.20	110.48	Initial Hydro-static
2	301.37	111.44	Open To Flow (1)
31	822.23	117.53	Shut-In (1)
91	1299.56	124.03	End Shut-In (1)
92	829.63	123.78	Open To Flow (2)
120	1090.77	125.01	Shut-In (2)
212	1308.27	126.09	End Shut-In (2)
213	1878.14	124.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOC&M 10%g 45%o 45%m	0.61
125.00	G&MCO 15%g 18%m 67%o	1.21
2230.00	Gassy Clean Oil 20%G 80%O (reversed)	31.28
510.00	Gassy Clean Oil 25%G 75%O	7.15
0.00	Gas to surface	0.00
0.00	Gravity=35 API corrected	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

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green-O'Brien #1-19

19 5 29 Decatur KS

Job Ticket: 27803

DST#: 3

Test Start: 2007.07.07 @ 12:22:57

Tool Information

Drill Pipe:	Length: 3762.00 ft	Diameter: 3.80 inches	Volume: 52.77 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	53.68 bbl	Tool Chased 12.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3945.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Packer	5.00			3940.00	20.00 Bottom Of Top Packer
Packer	5.00			3945.00	
Stubb	1.00			3946.00	
Recorder	0.00	6799	Inside	3946.00	
Perforations	12.00			3958.00	
Blank Spacing	34.00			3992.00	
Recorder	0.00	10270	Outside	3992.00	
Bullnose	3.00			3995.00	50.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Green-O'Brien #1-19

250 N Water Ste 300
Wichita KS 67202

19 5 29 Decatur KS

Job Ticket: 27803

DST#: 3

ATTN: Rocky Milford

Test Start: 2007.07.07 @ 12:22:57

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GCO&M 10%g 45%o 45%m	0.615
125.00	G&MCO 15%g 18%m 67%o	1.207
2230.00	Gassy Clean Oil 20%G 80%O (reversed out)	31.281
510.00	Gassy Clean Oil 25%G 75%O	7.154
0.00	Gas to surface	0.000
0.00	Gravity=35 API corrected	0.000

Total Length: 2990.00 ft

Total Volume: 40.257 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

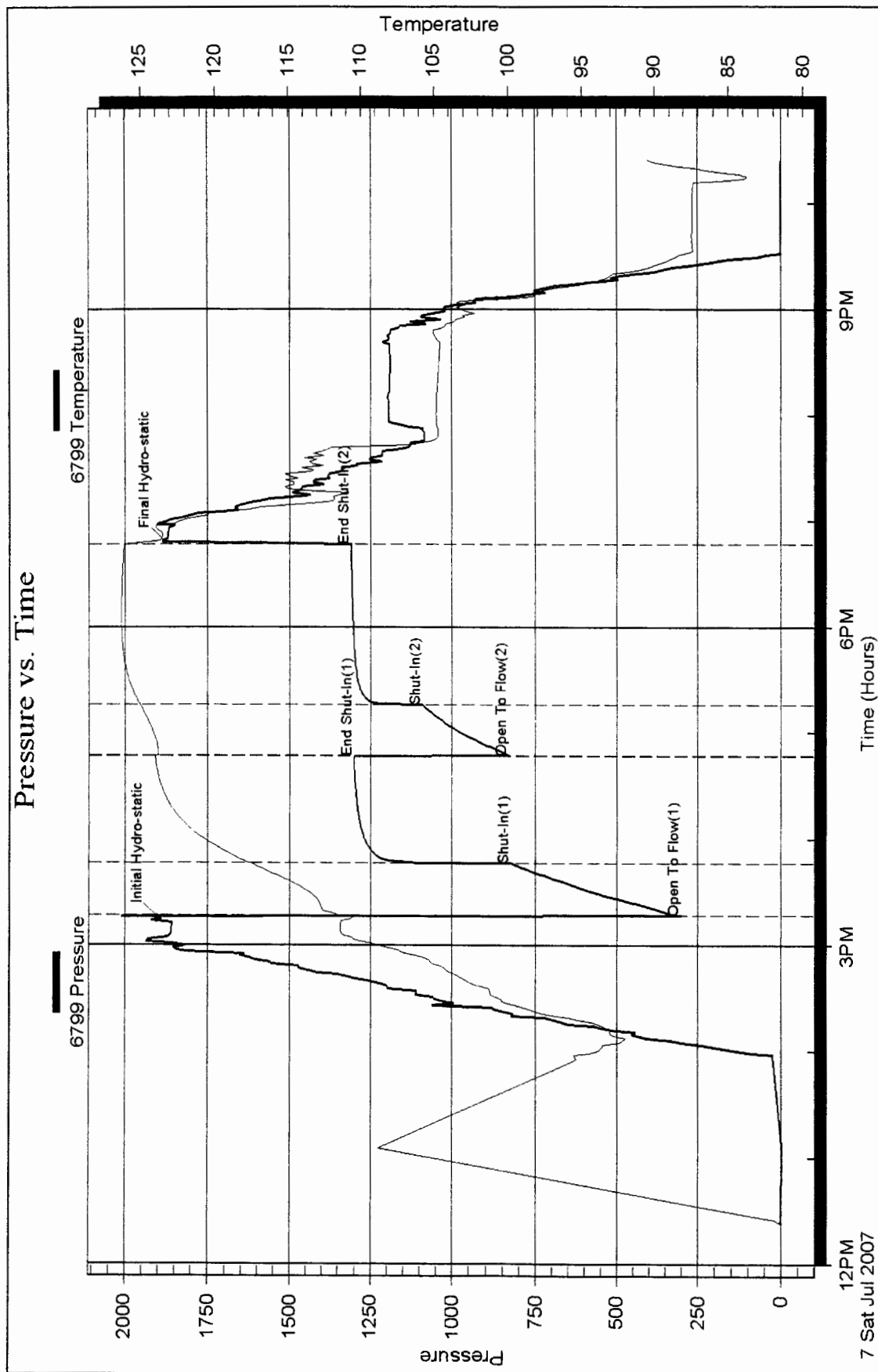
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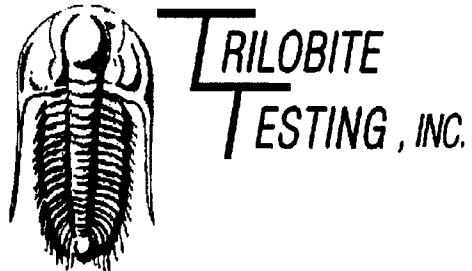
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

19 5 29 Decatur KS

Green-O'Brien #1-19

Start Date: 2007.07.08 @ 18:27:20

End Date: 2007.07.09 @ 03:05:20

Job Ticket #: 27804 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green-O'Brien #1-19

19 5 29 Decatur KS

Job Ticket: 27804

DST#: 4

Test Start: 2007.07.08 @ 18:27:20

GENERAL INFORMATION:

Formation: **L, KC "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:20:40

Time Test Ended: 03:05:20

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3996.00 ft (KB) To 4110.00 ft (KB) (TVD)**

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2839.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 244.61 psig @ 3997.00 ft (KB)

Start Date: 2007.07.08

End Date:

2007.07.09

Capacity: 7000.00 psig

Last Calib.: 2007.07.09

Start Time: 18:27:22

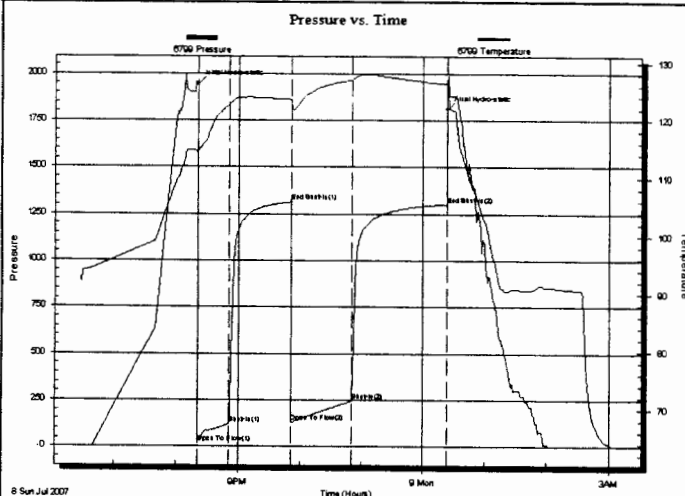
End Time:

03:05:20

Time On Btm: 2007.07.08 @ 20:20:20

Time Off Btm: 2007.07.09 @ 00:23:40

TEST COMMENT: IF Fairly strong blow BOB 10.5 minutes.
ISI Bled off for 2 minutes blow back building to 11.5 " in bucket.
FF Fairly strong blow BOB 9 minutes.
FSI Bled off for 2 minutes blow back built to BOB in 55



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.06	114.66	Initial Hydro-static
1	19.34	113.97	Open To Flow(1)
31	122.15	122.83	Shut-In(1)
91	1314.41	123.67	End Shut-In(1)
91	131.40	123.11	Open To Flow(2)
151	244.61	127.03	Shut-In(2)
244	1302.47	126.34	End Shut-In(2)
244	1809.36	126.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	HGCMO 33%G 27%M 40%O	0.98
450.00	Clean Oil 100%O	6.31
0.00	990 ' GIP	0.00
0.00	Gravity = 30.5 API corrected	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

Murfin Drilling Company

Green-O'Brien #1-19

250 N Water Ste 300
Wichita KS 67202

19 5 29 Decatur KS

Job Ticket: 27804

DST#: 4

ATTN: Rocky Milford

Test Start: 2007.07.08 @ 18:27:20

Tool Information

Drill Pipe:	Length: 3825.00 ft	Diameter: 3.80 inches	Volume: 53.65 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:	25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	110000.0 lb
		Total Volume:	54.56 bbl	Tool Chased	2.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3996.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	114.00 ft				
Tool Length:	134.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3981.00	
Hydraulic tool	5.00			3986.00	
Packer	5.00			3991.00	20.00 Bottom Of Top Packer
Packer	5.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	6799	Inside	3997.00	
Perforations	15.00			4012.00	
Blank Spacing	95.00			4107.00	
Recorder	0.00	10270	Outside	4107.00	
Bullnose	3.00			4110.00	114.00 Bottom Packers & Anchor
Total Tool Length:	134.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Green-O'Brien #1-19

250 N Water Ste 300
Wichita KS 67202

19 5 29 Decatur KS

Job Ticket: 27804

DST#: 4

ATTN: Rocky Milford

Test Start: 2007.07.08 @ 18:27:20

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	HGCMO 33%G 27%M 40%O	0.980
450.00	Clean Oil 100%O	6.312
0.00	990' GIP	0.000
0.00	Gravity = 30.5 API corrected	0.000

Total Length: 640.00 ft

Total Volume: 7.292 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

