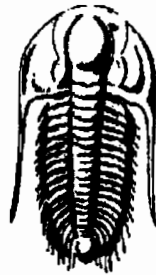


15-203-20147

21-20s-35w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita KS 67201

ATTN: Ted McHenry/Max Lovel

21 20s35w Wichita KS

Brack #1

Start Date: 2009.10.26 @ 17:30:59

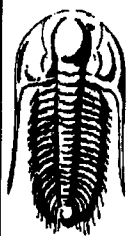
End Date: 2009.10.27 @ 04:00:59

Job Ticket #: 35388 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35388

DST#: 1

ATTN: Ted McHenry/Max Lovelva KS 67201

Test Start: 2009.10.26 @ 17:30:59

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:30:29

Time Test Ended: 04:00:59

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 37

Interval: **4520.00 ft (KB) To 4552.00 ft (KB) (TVD)**

Total Depth: 4552.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3166.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8351**

Inside

Press@RunDepth: 622.19 psig @ 4547.00 ft (KB)

Start Date: 2009.10.26

End Date:

2009.10.27

Capacity: 8000.00 psig

Last Calib.: 2007.10.27

Start Time: 17:31:00

End Time:

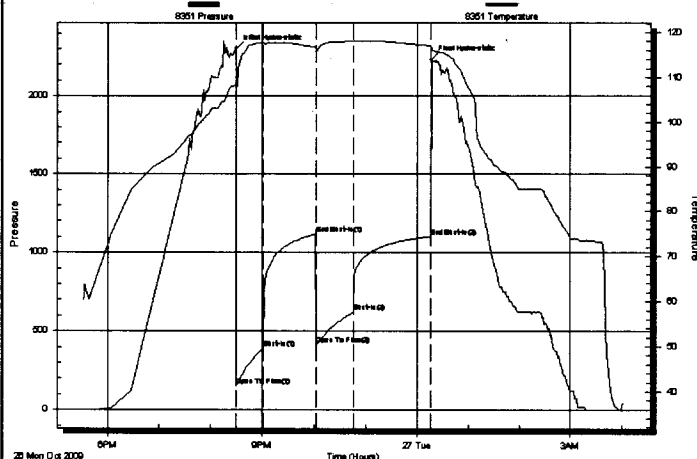
04:00:59

Time On Btm: 2009.10.26 @ 20:30:14

Time Off Btm: 2009.10.27 @ 00:16:59

TEST COMMENT: IF- 1" blow building to B.O.B. in 2 minutes
IS- surface blow building to 9"
FF- 1" blow building to B.O.B. in 4 minutes
FSI-

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.99	108.11	Initial Hydro-static
1	155.08	107.57	Open To Flow (1)
31	392.23	117.70	Shut-In (1)
92	1114.00	116.76	End Shut-In (1)
93	417.29	116.06	Open To Flow (2)
136	622.19	117.97	Shut-In (2)
226	1101.77	117.01	End Shut-In (2)
227	2231.53	116.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	muddy water 90% water 10% mud	5.44
645.00	clean gassy oil 20% gas 80% oil	9.05
65.00	heavy oil cut mud 25% oil 75% mud	0.91

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35388

DST#: 1

ATTN: Ted McHenry/Max Lovelita KS 67201

Test Start: 2009.10.26 @ 17:30:59

Tool Information

Drill Pipe:	Length: 4262.00 ft	Diameter: 3.80 inches	Volume: 59.78 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	3.50 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4520.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	59.50 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			4493.50	
Shut In Tool	5.00			4498.50	
Hydraulic tool	5.00			4503.50	
Jars	5.00			4508.50	
Safety Joint	2.50			4511.00	
Packer	5.00			4516.00	27.50 Bottom Of Top Packer
Packer	4.00			4520.00	
Stubb	1.00			4521.00	
Perforations	26.00			4547.00	
Recorder	0.00	8359	Inside	4547.00	
Recorder	0.00	8351	Inside	4547.00	
Bullnose	5.00			4552.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35388

DST#: 1

ATTN: Ted McHenry/Max Lovelita KS 67201

Test Start: 2009.10.26 @ 17:30:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	muddy water 90% water 10% mud	5.443
645.00	clean gassy oil 20% gas 80% oil	9.048
65.00	heavy oil cut mud 25% oil 75% mud	0.912

Total Length: 1250.00 ft Total Volume: 15.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .16@64

DST Test Number: 1

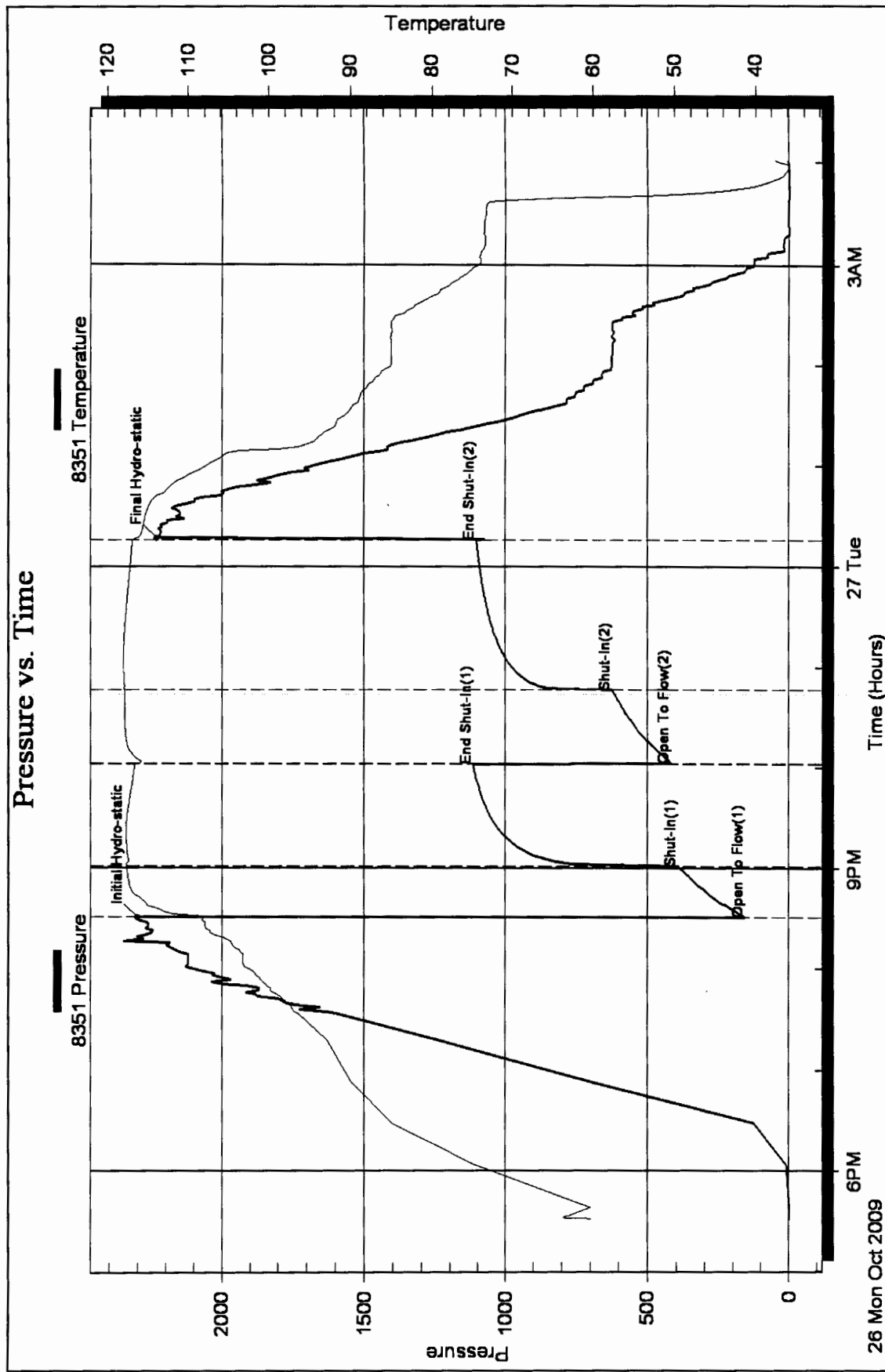
21 20s35w Wichita KS

Raymond Oil Company

Inside

Serial #: 8351

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita KS 67201

ATTN: Ted McHenry/Max Lovel

21 20s35w Wichita KS

Brack #1

Start Date: 2009.10.28 @ 02:14:15

End Date: 2009.10.28 @ 12:20:30

Job Ticket #: 35340 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company

P.O. Box 48788
Wichita KS 67201

ATTN: Ted McHenry/Max Lovetta KS 67201

Brack #1

21 20s35w Wichita KS

Job Ticket: 35340

DST#: 2

Test Start: 2009.10.28 @ 02:14:15

GENERAL INFORMATION:

Formation: **Ft Scott-Myrick St**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:26:15

Time Test Ended: 12:20:30

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4632.00 ft (KB) To 4682.00 ft (KB) (TVD)**

Total Depth: **4682.00 ft (KB) (TVD)**

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

Reference Elevations: **3177.00 ft (KB)**

3166.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **8351**

Inside

Press@RunDepth: **200.54 psig @ 4644.00 ft (KB)**

Start Date: **2009.10.28**

End Date:

2009.10.28

Capacity: **8000.00 psig**

Last Calib.: **2009.10.28**

Start Time: **02:14:16**

End Time:

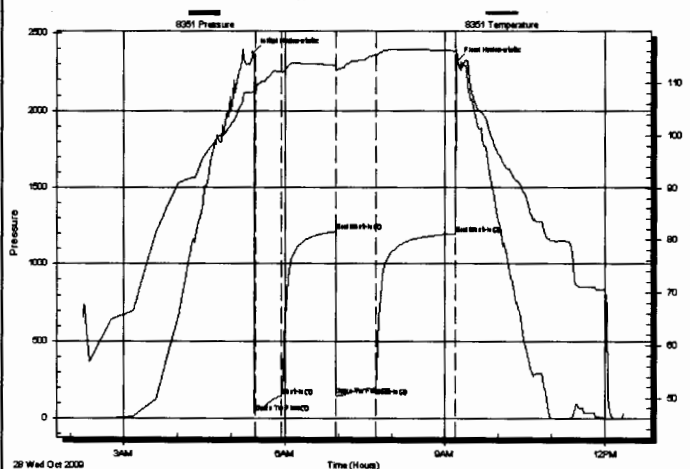
12:20:30

Time On Btm: **2009.10.28 @ 05:24:30**

Time Off Btm: **2009.10.28 @ 09:13:45**

TEST COMMENT: IF- B.O.B. @ 8 1/2 minutes
IS- 3/4" return died at 21 minutes
FF- B.O.B. @ 8 1/2 min.
FS- 7" return received to 2 "

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2377.12	108.33	Initial Hydro-static
2	40.80	107.73	Open To Flow (1)
32	146.13	112.12	Shut-In(1)
92	1212.31	113.40	End Shut-In(1)
93	149.37	112.72	Open To Flow (2)
138	200.54	115.34	Shut-In(2)
228	1198.44	116.13	End Shut-In(2)
230	2322.93	115.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
234.00	GWMO-40G 5W 15M 400	1.15
124.00	GWOM-50G 5W 200 25M	1.74
30.00	GOM 10G 250 65M	0.42
0.00	154 FEET GIP	0.00
0.00	RW .385 @ 50 degrees F = 28000 chlo	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

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35340

DST#: 2

ATTN: Ted McHenry/Max Lovelita KS 67201

Test Start: 2009.10.28 @ 02:14:15

Tool Information

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 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: 20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 82000.00 lb
		Total Volume:	62.52 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4632.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.50 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			4605.50	
Shut In Tool	5.00			4610.50	
Hydraulic tool	5.00			4615.50	
Jars	5.00			4620.50	
Safety Joint	2.50			4623.00	
Packer	5.00			4628.00	27.50 Bottom Of Top Packer
Packer	4.00			4632.00	
Stubb	1.00			4633.00	
Perforations	10.00			4643.00	
Perforations	1.00			4644.00	
Recorder	0.00	8359	Inside	4644.00	
Recorder	0.00	8351	Inside	4644.00	
Change Over Sub	1.00			4645.00	
Drill Pipe	31.00			4676.00	
Change Over Sub	1.00			4677.00	
Bullnose	5.00			4682.00	50.00 Bottom Packers & Anchor
Total Tool Length:	77.50				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35340

DST#: 2

ATTN: Ted McHenry/Max Lovelita KS 67201

Test Start: 2009.10.28 @ 02:14:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
234.00	GWMO-40G 5W 15M 40O	1.151
124.00	GWOM-50G 5W 20O 25M	1.739
30.00	GOM 10G 25O 65M	0.421
0.00	154 FEET GIP	0.000
0.00	RW .385 @ 50 degrees F = 28000 chlo	0.000

Total Length: 388.00 ft

Total Volume: 3.311 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API:28 @ 50 Degrees F = 29

Serial #: 8351

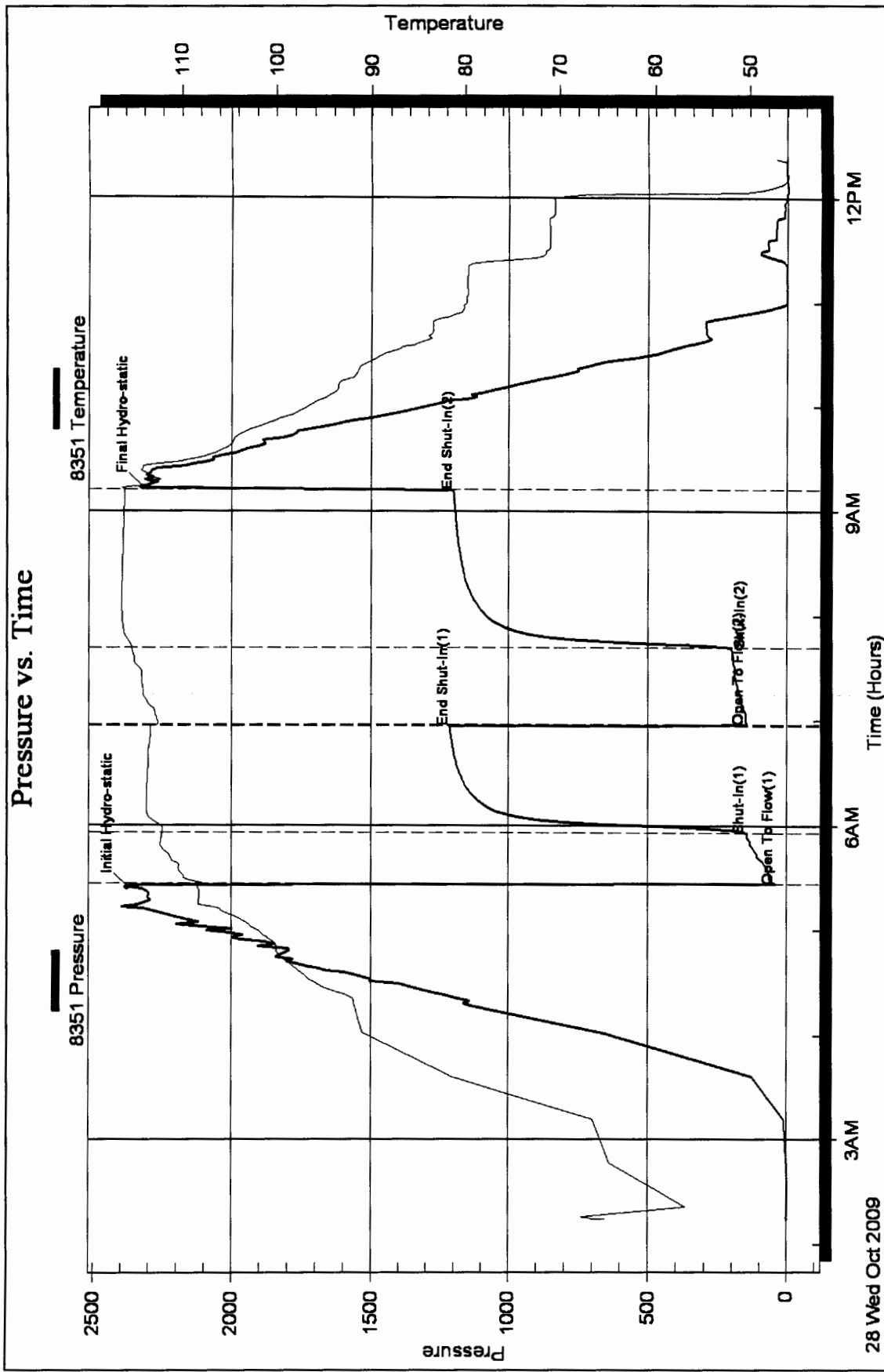
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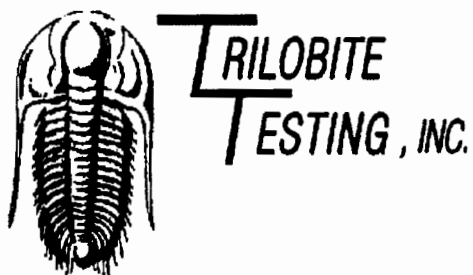
Raymond Oil Company

21 20s35w Wichita KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita KS 67201

ATTN: Ted McHenry/Max Lovel

21 20s35w Wichita KS

Brack #1

Start Date: 2009.10.29 @ 18:47:00

End Date: 2009.10.30 @ 04:37:00

Job Ticket #: 35341 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company

P.O. Box 48788
Wichita KS 67201

ATTN: Ted McHenry/Max Lovelita KS 67201

Brack #1

21 20s35w Wichita KS

Job Ticket: 35341

DST#: 3

Test Start: 2009.10.29 @ 18:47:00

GENERAL INFORMATION:

Formation: **Atoka**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 21:46:40

Time Test Ended: 04:37:00

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4779.00 ft (KB) To 4820.00 ft (KB) (TVD)**

Total Depth: **4820.00 ft (KB) (TVD)**

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

Reference Elevations: **3177.00 ft (KB)**

3166.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **8359**

Inside

Press@RunDepth: **30.26 psig @ 4783.00 ft (KB)**

Start Date: **2009.10.29**

End Date:

2009.10.30

Start Time: **18:47:01**

End Time:

04:37:00

Capacity: **8000.00 psig**

Last Calib.: **2009.10.30**

Time On Btrr: **2009.10.29 @ 21:44:30**

Time Off Btrr: **2009.10.30 @ 01:37:00**

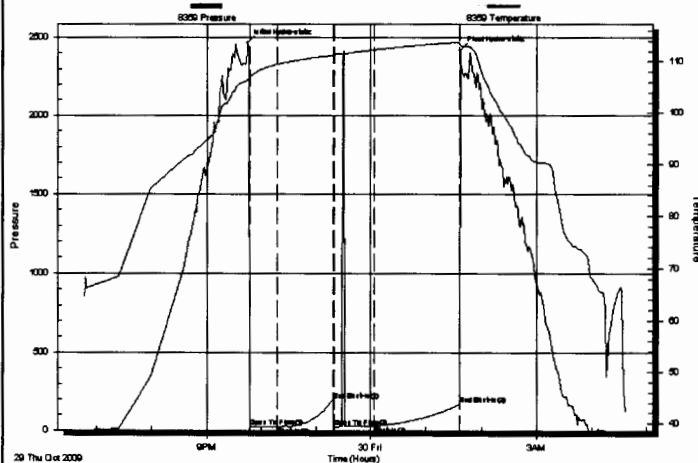
TEST COMMENT: IF: 1/2" blow died @27 min.

ISI: No return

FF: No blow, flush tool, no blow

FSI: No return

Pressure vs. Time



PRESSURE SUMMARY

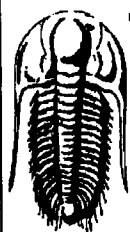
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2464.13	106.54	Initial Hydro-static
3	23.16	106.19	Open To Flow (1)
34	23.79	109.53	Shut-In(1)
95	196.97	111.23	End Shut-In(1)
95	24.84	111.40	Open To Flow (2)
140	30.26	112.35	Shut-In(2)
232	166.77	113.82	End Shut-In(2)
233	2417.95	113.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M 100% M	0.01
0.00	no 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

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35341

DST#: 3

ATTN: Ted McHenry/Max Lovelita KS 67201

Test Start: 2009.10.29 @ 18:47:00

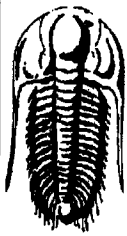
Tool Information

Drill Pipe:	Length: 4483.00 ft	Diameter: 3.80 inches	Volume: 62.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 291.00 ft	Diameter: 2.25 inches	Volume: 1.43 bbl	Weight to Pull Loose: 94000.00 lb
		Total Volume: 64.31 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.50 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4779.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.50 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			4752.50	
Shut In Tool	5.00			4757.50	
Hydraulic tool	5.00			4762.50	
Jars	5.00			4767.50	
Safety Joint	2.50			4770.00	
Packer	5.00			4775.00	27.50 Bottom Of Top Packer
Packer	4.00			4779.00	
Stubb	1.00			4780.00	
Perforations	2.00			4782.00	
Change Over Sub	1.00			4783.00	
Recorder	0.00	8359	Inside	4783.00	
Recorder	0.00	8351	Inside	4783.00	
Drill Pipe	31.00			4814.00	
Bullnose	5.00			4819.00	
Change Over Sub	1.00			4820.00	41.00 Bottom Packers & Anchor

Total Tool Length: 68.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Brack #1

P.O. Box 48788
Wichita KS 67201

21 20s35w Wichita KS

Job Ticket: 35341

DST#: 3

ATTN: Ted McHenry/Max Lovelita KS 67201

Test Start: 2009.10.29 @ 18:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M 100% M	0.015
0.00	no GIP	0.000

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

