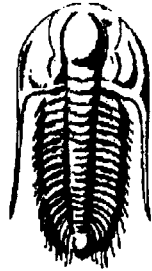


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TRILOBITE
TESTING, INC.

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DRILL STEM TEST REPORT

Prepared For: ~~Raydon Exploration Inc~~ ORIGINAL

9400 N Broadway Ste 400 Oklahoma City OK

CONFIDENTIAL KCC

NOV 15 2002

ATTN: Ed Greives

Release

CONFIDENTIAL

24-34-31 Seward KS
15 2003

From Keating #R1-24

~~Confidential~~ 2002.10.20 @ 00:01:05

End Date: 2002.10.20 @ 09:12:20

Job Ticket #: 14512 DST #: 1

Raydon Exploration Inc

Keating #R1-24

24-34-31 Seward KS

DST # 1

Marmaton

2002.10.20

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raydon Exploration Inc
9400 N Broadway Ste 400 Oklahoma City OK 73102
ATTN: Ed Greives

Keating #R1-24
24-34-31 Seward KS
Job Ticket: 14512 DST#: 1
Test Start: 2002.10.20 @ 00:01:05

GENERAL INFORMATION:

Formation: Marmaton
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:35:05
Time Test Ended: 09:12:20

KCC

NOV 15 2002

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Test Type: Conventional Bottom Hole
Tester: Blake Wallace
Unit No: 20

Interval: 4989.00 ft (KB) To 5016.00 ft (KB) (TVD)
Total Depth: 5016.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2464.00 ft (KB)
2452.00 ft (CF)
KB to GR/CF: 12.00 ft

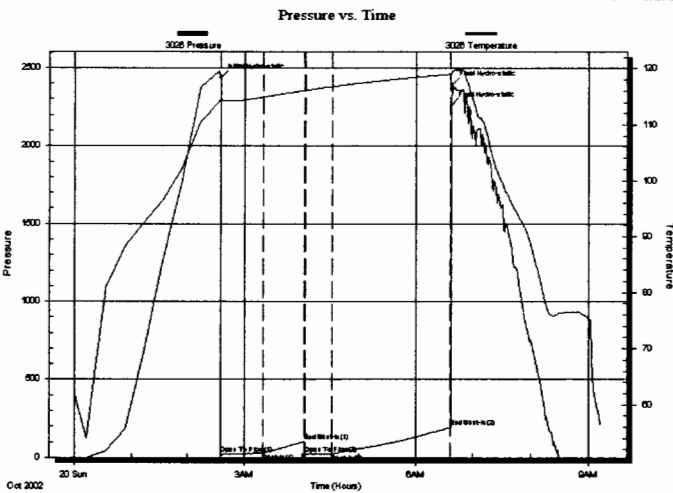
Serial #: 3026

Inside

Press@RunDepth: 23.48 psig @ 1991.00 ft (KB)
Start Date: 2002.10.20
Start Time: 00:01:07

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btrn: 2002.10.20 @ 02:34:35
Time Off Btrn: 2002.10.20 @ 06:37:35

TEST COMMENT: F-weak surface blow died off after 25 min
IS-no blow back
FF-weak surface blow died off after 10 min
FS-no blow back



PRESSURE SUMMARY

Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), Annotation. Contains data points for initial hydro-static, open to flow, shut-in, and final hydro-static events.

Recovery

Table with 3 columns: Length (ft), Description, Volume (bbl). Shows 20.00 ft of 100% mud recovery with a volume of 0.10 bbl.

Gas Rates

Table with 4 columns: Choke (inches), Pressure (psig), Gas Rate (Mcf/d). Header row with no data entries.

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc
9400 N Broadway Ste 400 Oklahoma City OK 73102
ATTN: Ed Greives

Keating #R1-24
24-34-31 Seward KS
Job Ticket: 14512 **DST#: 1**
Test Start: 2002.10.20 @ 00:01:05

Tool Information

Drill Pipe:	Length: 4668.00 ft	Diameter: 3.80 inches	Volume: 65.48 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: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 66.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4989.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4963.00	
S.I. Tool	5.00			4968.00	
HMV	5.00			4973.00	
Jars	5.00			4978.00	
Safety Joint	2.00			4980.00	
Packer	5.00			4985.00	27.00 Bottom Of Top Packer
Packer	4.00			4989.00	
Stubb	1.00			4990.00	
Perforations	1.00			4991.00	
Recorder	0.00	3026	Inside	4991.00	
Perforations	23.00			5014.00	
Recorder	0.00	13637	Outside	5014.00	
Bullnose	2.00			5016.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc

Keating #R1-24

9400 N Broadway Ste 400 Oklahoma City OK 73102

24-34-31 Seward KS

Job Ticket: 14512

DST#: 1

ATTN: Ed Greives

Test Start: 2002.10.20 @ 00:01:05

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:	5500 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= 1.920 @ 40 deg chlorides = 5500

Serial #: 3026

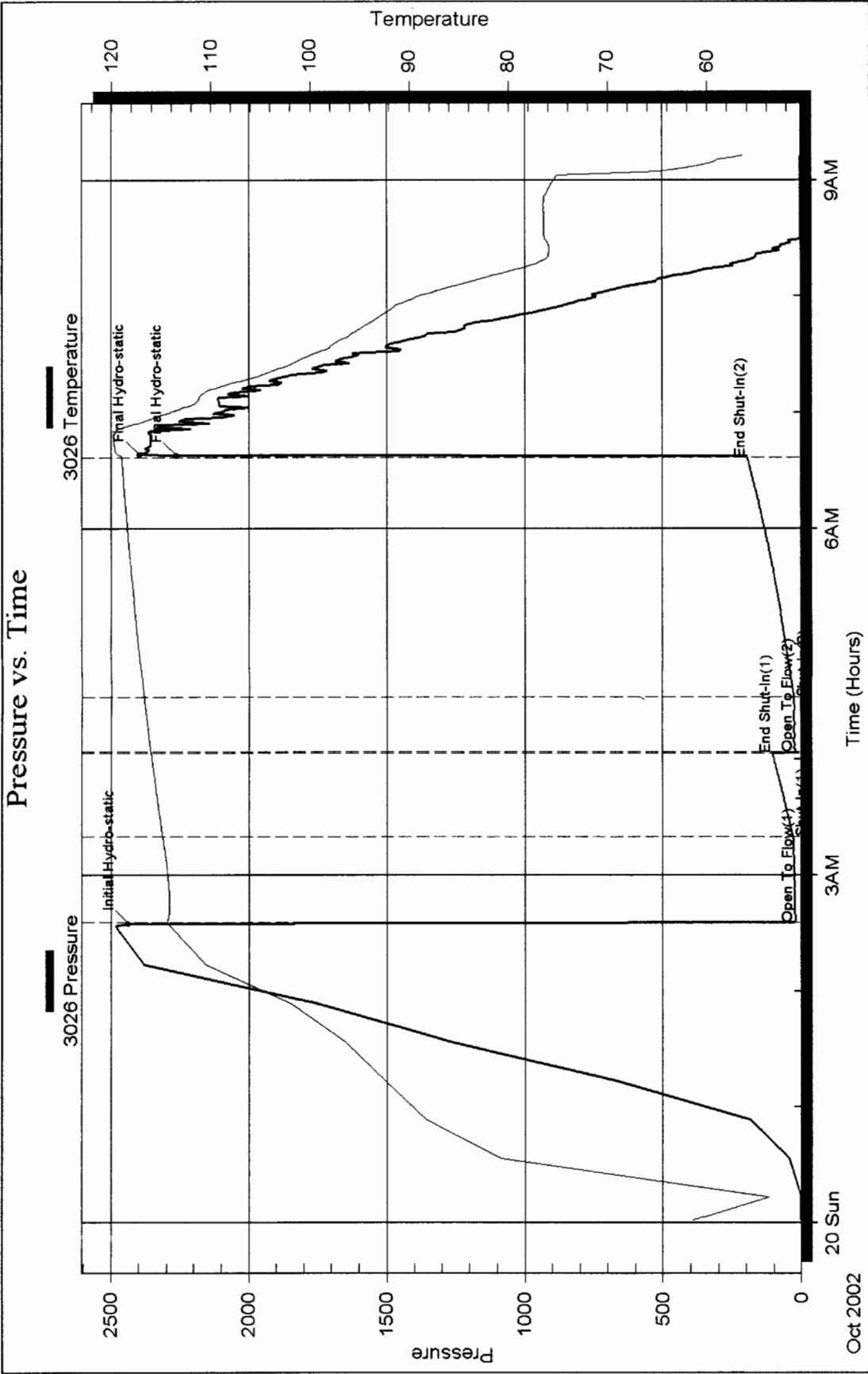
Inside

Raydon Exploration Inc

24-34-31 Seward KS

DST Test Number: 1

Pressure vs. Time

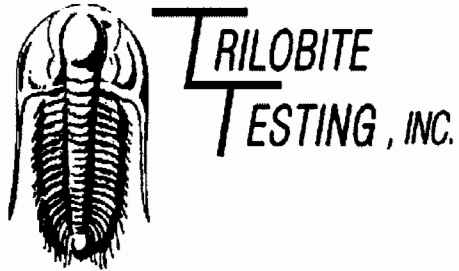


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Trilobite Testing, Inc

Ref. No: 14512

Printed: 2002.10.29 @ 10:15:17 Page 5



DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

9400 N Broadway Ste 400 Oklahoma City OK
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ATTN: Ed Greives

24-34-31 Seward KS

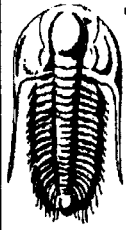
Keating #R1-24

Start Date: 2002.10.22 @ 21:26:32

End Date: 2002.10.23 @ 07:57:02

Job Ticket #: 16338 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raydon Exploration Inc

Keating #R1-24

9400 N Broadway Ste 400 Oklahoma City OK
73102

24-34-31 Seward KS

Job Ticket: 16338

DST#: 2

ATTN: Ed Greives

Test Start: 2002.10.22 @ 21:26:32

GENERAL INFORMATION:

Formation: **Chester Lime**

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

Time Tool Opened: 00:35:32

Time Test Ended: 07:57:02

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **5610.00 ft (KB) To 5725.00 ft (KB) (TVD)**

Reference Elevations: **2464.00 ft (KB)**

Total Depth: **5725.00 ft (KB) (TVD)**

2452.00 ft (CF)

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

KB to GR/CF: **12.00 ft**

Serial #: 3302 **Inside**

Press@RunDepth: **28.58 psig @ 5611.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.10.22** End Date: **2002.10.23**

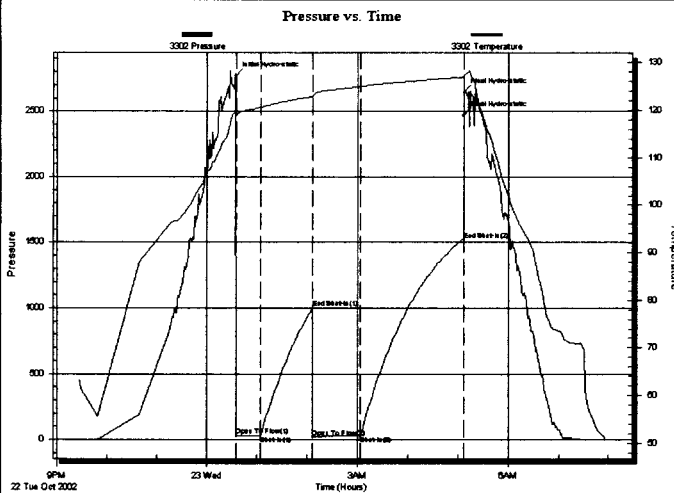
Last Calib.: **2002.10.23**

Start Time: **21:26:34** End Time: **07:57:02**

Time On Btm: **2002.10.23 @ 00:34:32**

Time Off Btm: **2002.10.23 @ 05:06:47**

TEST COMMENT: F:Fair blow b.o.b in 20 mins.
IS:Bled down n for 5 mins.no blow back.
FF:Strong blow b.o.b in 45 sec.
FS:Bled down n for 10 mins.no blow back.



PRESSURE SUMMARY

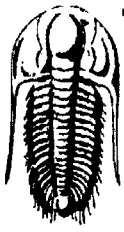
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2767.83	119.27	Initial Hydro-static
1	27.64	118.91	Open To Flow (1)
31	31.71	120.64	Shut-In(1)
92	997.46	122.88	End Shut-In(1)
93	17.01	123.07	Open To Flow (2)
149	28.58	125.00	Shut-In(2)
272	1515.77	126.99	End Shut-In(2)
273	2471.22	127.18	Final Hydro-static
273	2644.78	127.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	01 - Gas	14.05
30.00	Gas cut mud	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc

Keating #R1-24

9400 N Broadway Ste 400 Oklahoma City OK
73102

24-34-31 Seward KS

Job Ticket: 16338

DST#: 2

ATTN: Ed Greives

Test Start: 2002.10.22 @ 21:26:32

Tool Information

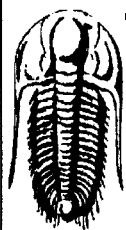
Drill Pipe:	Length: 5286.00 ft	Diameter: 3.80 inches	Volume: 74.15 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 75.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5610.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	143.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5583.00	
S.I. Tool	5.00			5588.00	
HMV	5.00			5593.00	
Jars	5.00			5598.00	
Safety Joint	2.00			5600.00	
Packer	5.00			5605.00	28.00 Bottom Of Top Packer
Packer	5.00			5610.00	
Stubb	1.00			5611.00	
Recorder	0.00	3302	Inside	5611.00	
Anchor	20.00			5631.00	
Recorder	0.00	10991	Outside	5631.00	
Blank Spacing	92.00			5723.00	
Bullnose	2.00			5725.00	115.00 Bottom Packers & Anchor

Total Tool Length: 143.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc

Keating #R1-24

9400 N Broadway Ste 400 Oklahoma City OK
73102

24-34-31 Seward KS

Job Ticket: 16338

DST#: 2

ATTN: Ed Greives

Test Start: 2002.10.22 @ 21:26:32

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:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 3.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1200.00	01 - Gas	14.054
30.00	Gas cut mud	0.421

Total Length: 1230.00 ft

Total Volume: 14.475 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3302

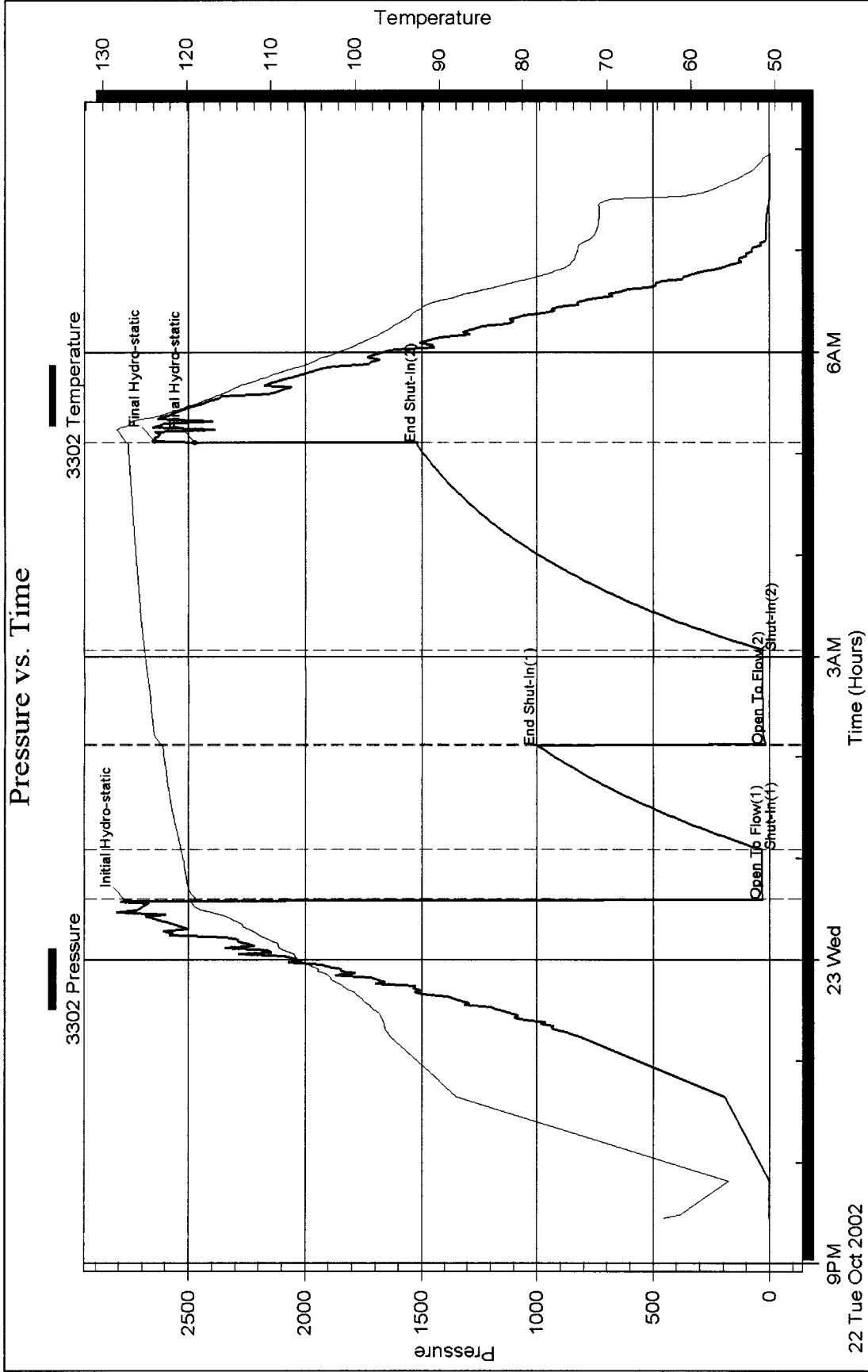
Inside

Raydon Exploration Inc

24-34-31 Seward KS

DST Test Number: 2

Pressure vs. Time

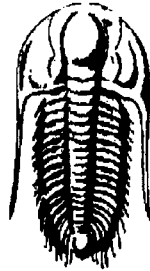


NOV 19 2002
10:00 AM CST

Trilobite Testing, Inc

Ref. No: 16338

Printed: 2002.10.29 @ 10:15:40 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

9400 N Broadway Ste 400 Oklahoma City OK
73102

ATTN: Ed Greives

24-34-31 Seward KS

Keating #R1-24

Start Date: 2002.10.24 @ 02:50:23

End Date: 2002.10.24 @ 13:33:38

Job Ticket #: 16339 DST #: 3

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

Raydon Exploration Inc

Keating #R1-24

24-34-31 Seward KS

DST # 3

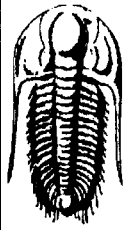
Lower Chester sandst

2002.10.24



NOV 19 2002

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raydon Exploration Inc
 9400 N Broadway Ste 400 Oklahoma City OK
 73102
 ATTN: Ed Greives

Keating #R1-24
24-34-31 Seward KS
 Job Ticket: 16339 **DST#: 3**
 Test Start: 2002.10.24 @ 02:50:23

GENERAL INFORMATION:

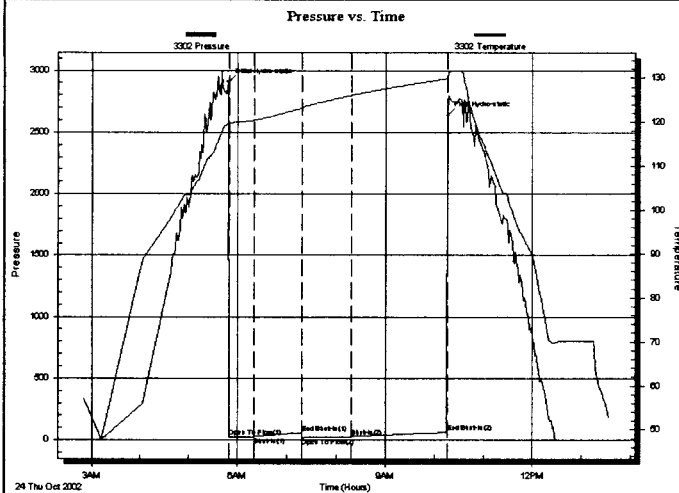
Formation: **Lower Chester sandst**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:49:08
 Time Test Ended: 13:33:38
 Interval: **5843.00 ft (KB) To 5821.00 ft (KB) (TVD)**
 Total Depth: 5843.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Darren L. Amerine
 Unit No: 19
 Reference Elevations: 2464.00 ft (KB)
 2452.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 3302

Inside

Press@RunDepth: 27.92 psig @ 5844.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.10.24 End Date: 2002.10.24 Last Calib.: 2002.10.24
 Start Time: 02:50:25 End Time: 13:33:38 Time On Btm: 2002.10.24 @ 05:48:08
 Time Off Btm: 2002.10.24 @ 10:16:23

TEST COMMENT: IF:Weak surface blow built to 5-1/2" in H2O bucket.
 IS:Bled down n for 5 mins.no blow back.
 FF:Weak surface blow.
 FS:No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2904.13	119.60	Initial Hydro-static
1	22.86	119.67	Open To Flow (1)
32	27.52	120.44	Shut-In(1)
90	59.89	123.17	End Shut-In(1)
91	17.99	123.23	Open To Flow (2)
151	27.92	126.10	Shut-In(2)
268	63.37	129.84	End Shut-In(2)
269	2637.27	130.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Gas cut mud	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc
9400 N Broadway Ste 400 Oklahoma City OK
73102
ATTN: Ed Greives

Keating #R1-24
24-34-31 Seward KS
Job Ticket: 16339 **DST#: 3**
Test Start: 2002.10.24 @ 02:50:23

Tool Information

Drill Pipe:	Length: 5526.04 ft	Diameter: 3.80 inches	Volume: 77.52 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: 20000.00 lb
Drill Collar:	Length: 304.96 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 79.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5843.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

NOV 19 2002

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

C.O. Sub	1.00			5816.00	
S.I. Tool	5.00			5821.00	
HMV	5.00			5826.00	
Jars	5.00			5831.00	
Safety Joint	2.00			5833.00	
Packer	5.00			5838.00	28.00 Bottom Of Top Packer
Packer	5.00			5843.00	
Stubb	1.00			5844.00	
Recorder	0.00	3302	Inside	5844.00	
Anchor	19.00			5863.00	
Recorder	0.00	10991	Outside	5863.00	
Bullhose	2.00			5865.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc

Keating #R1-24

9400 N Broadway Ste 400 Oklahoma City OK
73102

24-34-31 Seward KS

Job Ticket: 16339

DST#: 3

ATTN: Ed Greives

Test Start: 2002.10.24 @ 02:50:23

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 3.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Gas cut mud	0.098

Total Length: -999979.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3302

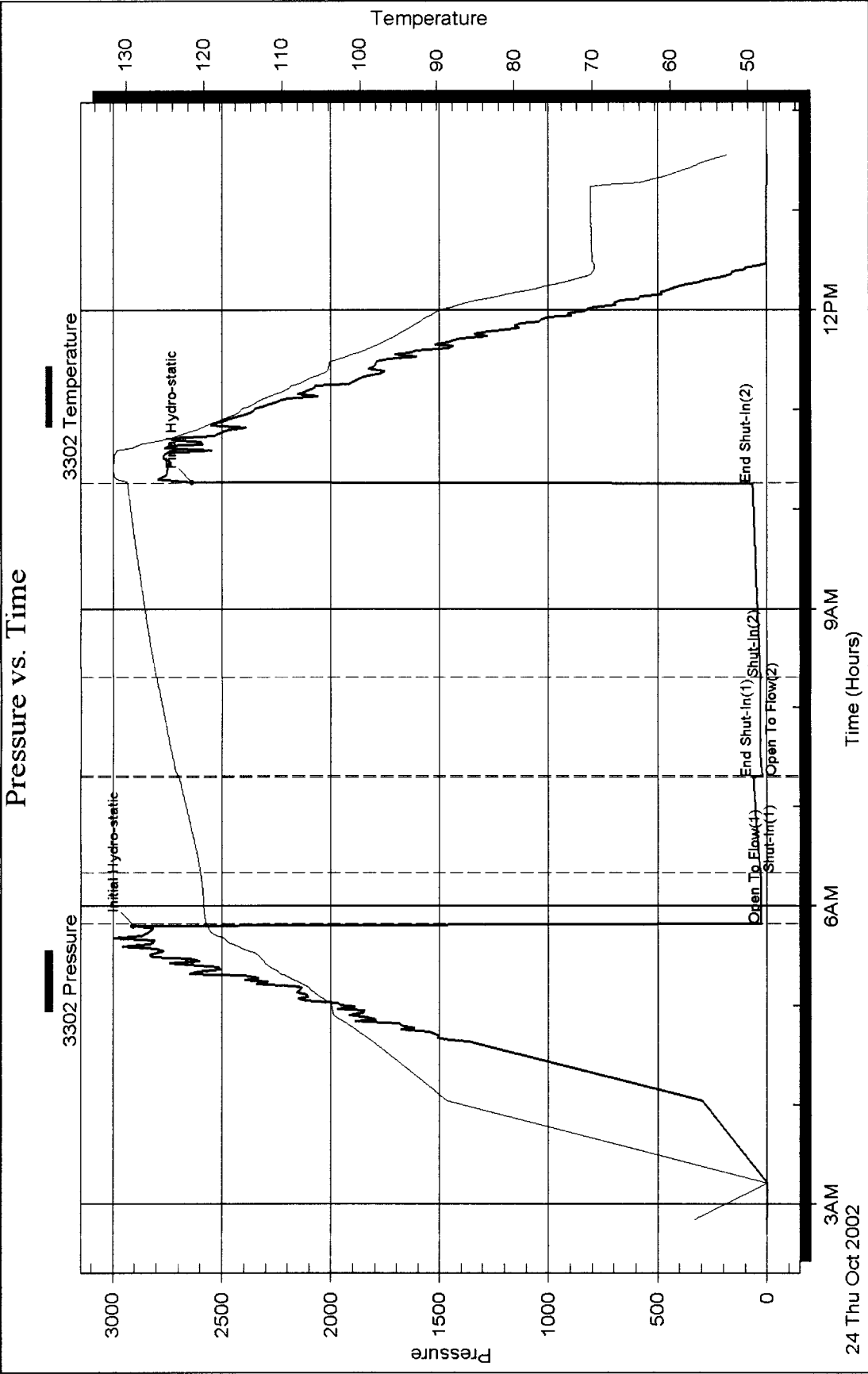
Inside

Raydon Exploration Inc

24-34-31 Sew ard KS

DST Test Number: 3

Pressure vs. Time



NOV 1 5 2002
 10:16:02