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15-189-22367



**TRILOBITE
TESTING, INC**

RELEASED

APR 04 2002

FROM CONFIDENTIAL

KCC

DRILL STEM TEST REPORT

APR 04 2002

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Prepared For: **Oxy USA**

P.O. Box 2528
Liberal, KS

ATTN: Oxy USA

34-31-39 Stevens KS

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MLP- Close C-1

Start Date: 2001.02.13 @ 06:50:00

End Date: 2001.02.13 @ 13:45:00

Job Ticket #: 13668

DST #: 1

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Oxy USA

MLP- Close C-1

34-31-39 Stevens KS

DST #: 1

morrow

2001.02.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Oxy USA

P.O. Box 2528
Liberal, KS

ATTN: Oxy USA

MLP- Close C-1

34-31-39 Stevens KS

Job Ticket: 13668

DST#: 1

Test Start: 2001.02.13 @ 06:50:00

GENERAL INFORMATION:

Formation: **morrow**

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

Time Tool Opened: 09:45:00

Time Test Ended: 13:45:00

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **15**

Interval: **5497.00 ft (KB) To 5511.00 ft (KB) (TVD)**

Total Depth: **5511.00 ft (KB)**

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

Reference Elevations: **3240.00 ft (KB)**

3230.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **2346** Inside

Press@RunDepth: **psig @ 5498.00 ft (KB)**

Start Date: **2001.02.13**

End Date:

2001.02.13

Capacity: **7000.00 psig**

Last Calib.: **2001.02.12**

Start Time: **06:53:48**

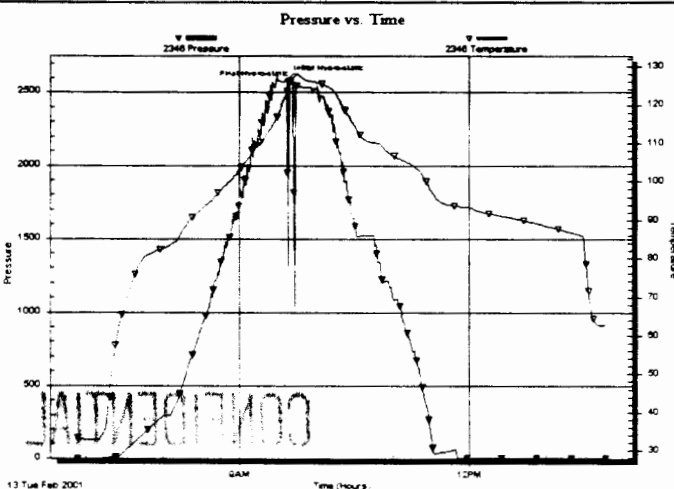
End Time:

13:46:42

Time On Btm: **2001.02.13 @ 09:36:43**

Time Off Btm: **2001.02.13 @ 09:43:43**

TEST COMMENT: **Packer failure @ open
pull tool reset anchor**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
163	2586.76	123.09	Initial Hydro-static
170	2549.61	128.10	Final Hydro-static

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Recovery

Length (ft)	Description	Volume (bbl)
715.00	drill mud	4.46

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Oxy USA

MLP- Close C-1

P.O. Box 2528
Liberal, KS

34-31-39 Stevens KS

Job Ticket: 13668

DST#: 1

ATTN: Oxy USA

Test Start: 2001.02.13 @ 06:50:00

Tool Information

Drill Pipe:	Length: 4883.00 ft	Diameter: 3.80 inches	Volume: 68.50 bbl	Tool Weight: 1500.00 lb
Drill Collar:	Length: 611.00 ft	Diameter: 2.25 inches	Volume: 3.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 135000.0 lb
Drill Pipe Above KB:	27.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5492.00 ft			String Weight: Initial 105000.0 lb
Depth to Bottom Packer:	ft			Final 110000.0 lb
Interval between Packers:	ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5468.00	
S.I. Tool	5.00			5473.00	
Sampler	3.00			5476.00	
HMV	5.00			5481.00	
Jars	5.00			5486.00	
Safety Joint	2.00			5488.00	
Packer	4.00			5492.00	25.00 Bottom Of Top Packer
Packer	5.00			5497.00	
Stubb	1.00			5498.00	
Recorder	0.00	2346	Inside	5498.00	
Anchor	8.00	24174		5506.00	
Recorder	0.00	11058	Outside	5506.00	
Bullnose	5.00			5511.00	19.00 Bottom Packers & Anchor

Total Tool Length: 44.00

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Ref. No: 13668

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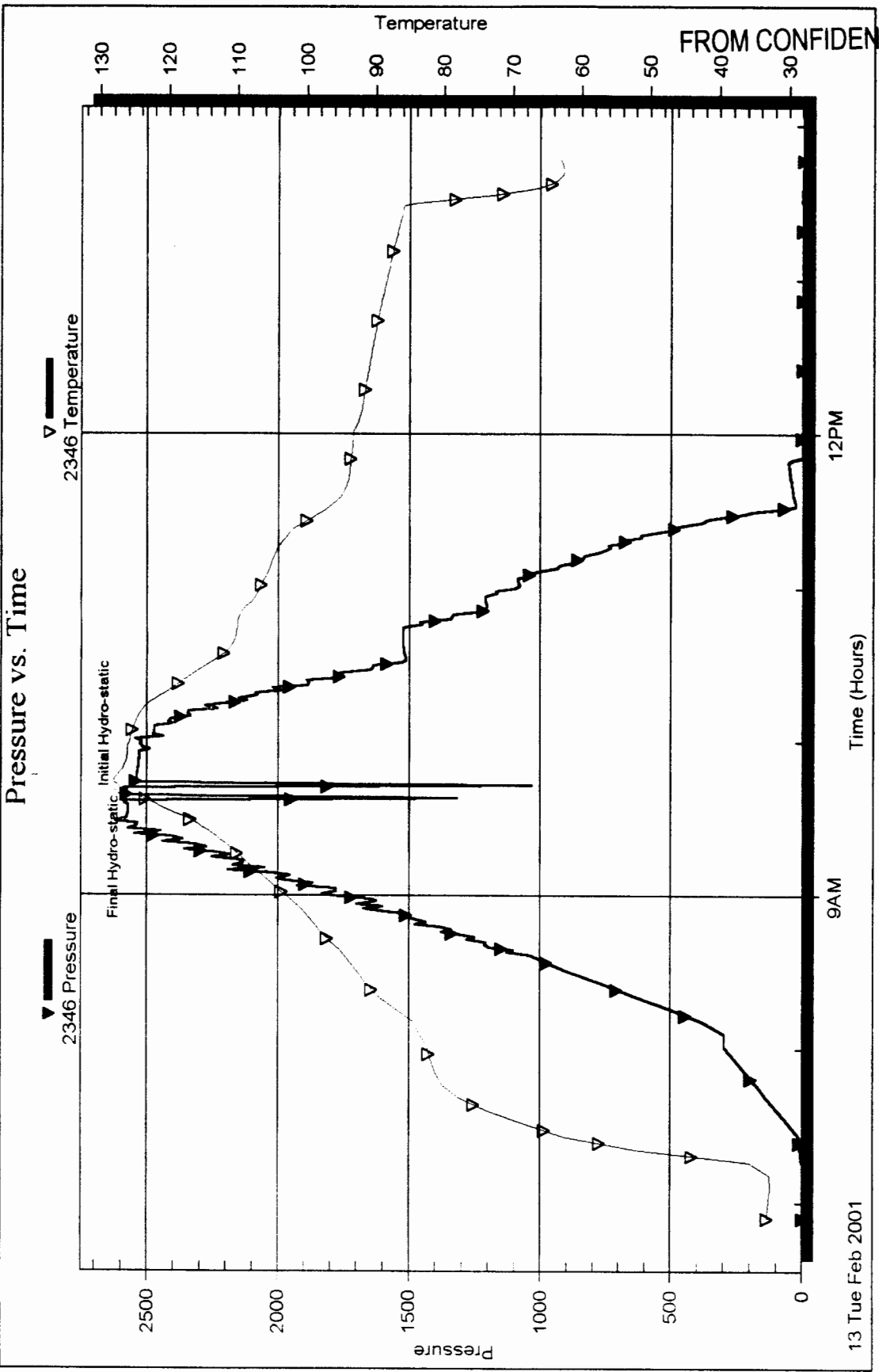
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Tribbitt Testing, Inc

34-31-39 Stevens KS

Inside Oxy USA

Serial #: 2346





**TRILOBITE
TESTING, INC**

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DRILL STEM TEST REPORT

Prepared For: **Oxy USA**

P.O. Box 2528
Liberal, KS

ATTN: Oxy USA

34-31-39 Stevens KS

MLP- Close C-1

Start Date:

End Date:

Job Ticket #:

DST #: 2

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Oxy USA
P.O. Box 2528
Liberal, KS
ATTN: Oxy USA

MLP- Close C-1
34-31-39 Stevens KS
Job Ticket: DST#: 2
Test Start:

GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:

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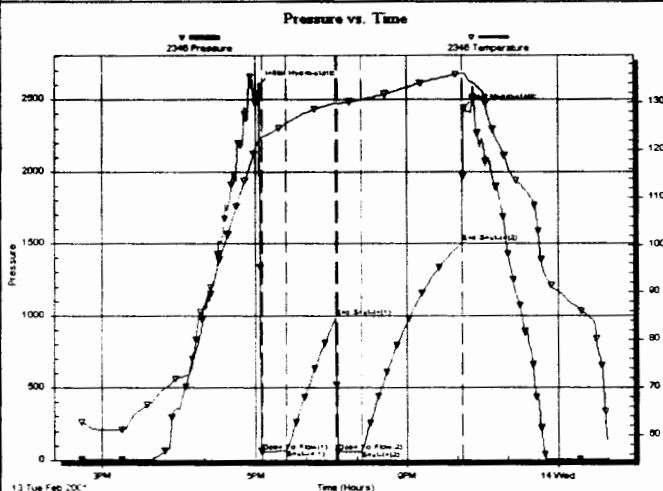
Test Type:
Tester:
Unit No:
Reference Elevations: 3240.00 ft (KB)
3230.00 ft (CF)
KB to GR/CF: 10.00 ft

Interval: ft (KB) To ft (KB) (TVD)
Total Depth: ft (KB)
Hole Diameter: 7.88 inches Hole Condition:

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Serial #: 2346 Inside
Press@RunDepth: 59.02 psig @ 5384.00 ft (KB)
Start Date: 2001.02.13 End Date: 2001.02.14
Start Time: 14:35:45 End Time: 00:59:40
Capacity: 7000.00 psig
Last Calib.: 2001.02.12
Time On Btm: 2001.02.13 @ 18:04:40
Time Off Btm: 2001.02.13 @ 22:06:40

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
209	2602.14	122.19	Initial Hydro-static
212	52.17	122.71	Open To Flow (1)
241	63.59	125.55	Shut-In(1)
299	985.02	129.88	End Shut-In(1)
301	54.68	129.91	Open To Flow (2)
330	59.02	130.60	Shut-In(2)
450	1504.53	136.04	End Shut-In(2)
451	2432.63	136.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	drilling mud	0.15
	791' gas in pipe very weak	

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Oxy USA

MLP- Close C-1

P.O. Box 2528
Liberal, KS

34-31-39 Stevens KS

Job Ticket:

DST#: 2

ATTN: Oxy USA

Test Start:

Tool Information

Drill Pipe:	Length: 4757.00 ft	Diameter: 3.80 inches	Volume: 66.73 bbl	Tool Weight: 3000.00 lb
Drill Collar:	Length: 611.00 ft	Diameter: 2.25 inches	Volume: 3.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 135000.0 lb
Drill Pipe Above KB:	15.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5378.00 ft			String Weight: Initial 105000.0 lb
Depth to Bottom Packer:	ft			Final 105000.0 lb
Interval between Packers:	ft			
Tool Length:	163.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5354.00		
S.I. Tool	5.00			5359.00		
Sampler	3.00			5362.00		
HMV	5.00			5367.00		
Jars	5.00			5372.00		
Safety Joint	2.00			5374.00		
Packer	4.00			5378.00	25.00	Bottom Of Top Packer
Packer	5.00			5383.00		
Stubb	1.00			5384.00		
Recorder	0.00	2346	Inside	5384.00		
Anchor	31.00	24174		5415.00		
C.O. Sub	1.00			5416.00		
Extension Sub	94.00			5510.00		
C.O. Sub	1.00			5511.00		
Recorder	0.00	11058	Outside	5511.00		
Bullnose	5.00			5516.00	138.00	Bottom Packers & Anchor
Total Tool Length:		163.00				

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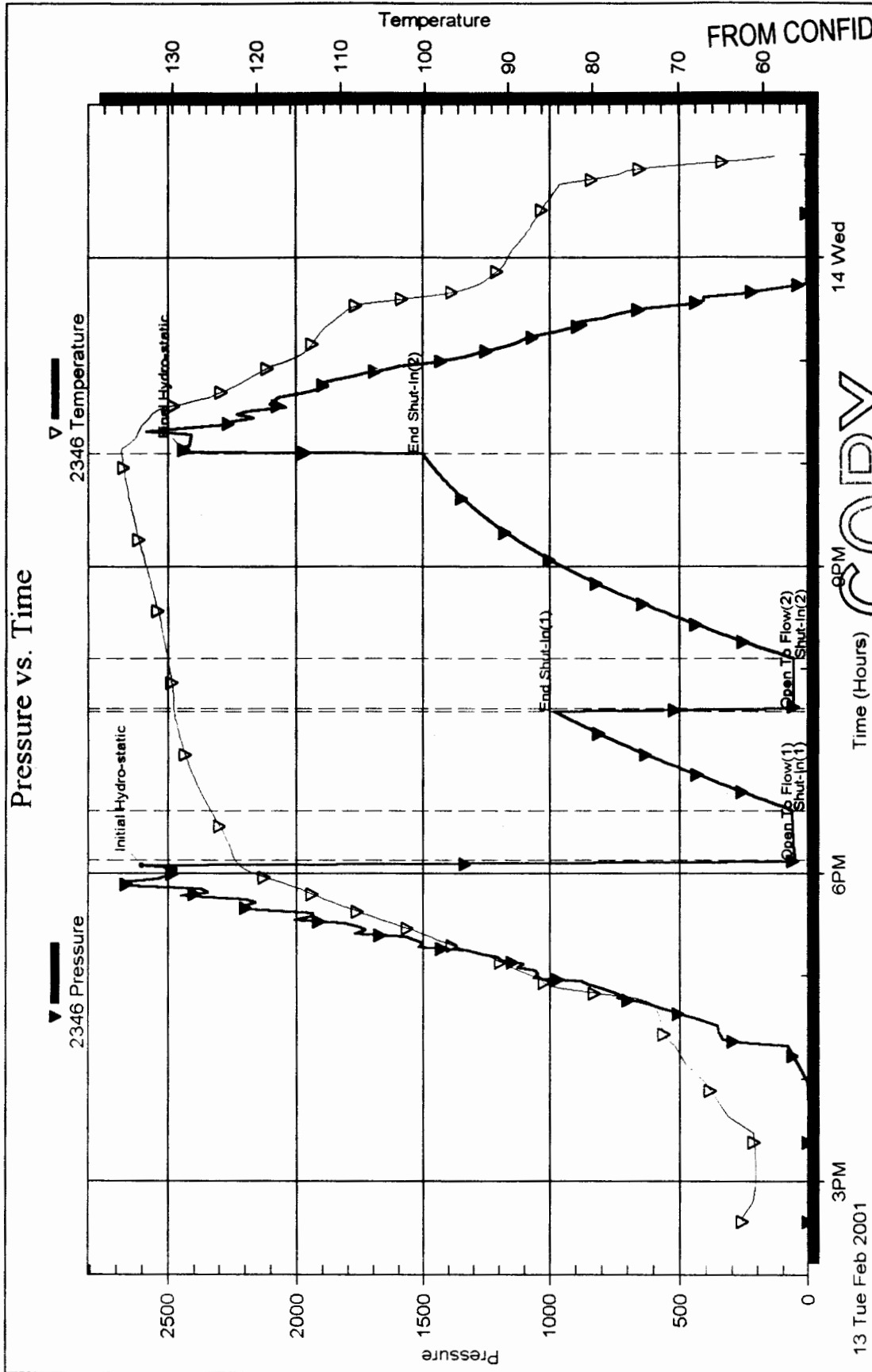
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Serial #: 2346



gpm
Time (Hours)
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