



DRILL STEM TEST REPORT

Prepared For: **Key Production Co. I**

427 S. Boston Ste #515
Tulsa, OK 74103

ATTN: Marin Harvey

14-31S-40W Morton KS

Beachner #3-14

Start Date: 2001.01.07 @ 19:18:00

End Date: 2001.01.08 @ 06:30:00

Job Ticket #: 13327 DST #: 1

Trilobite Testing Inc.

Box 362 Hays KS 67601

785.625.4778 trilobite@eaglecom.net

Key Production Co. I

Beachner #3-14

14-31S-40W Morton KS

DST #: 1

Morrow

2001.01.07



DRILL STEM TEST REPORT

Key Production Co. I

Beachner #3-14

427 S.Boston Ste #515
Tulsa, OK 74103

14-31S-40W Morton KS

ATTN: Marvin Harvey

Job Ticket: 13327

DST#: 1

Test Start: 2001.01.07 @ 19:18:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:38:08

Time Test Ended: 06:30:00

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 12

Interval: **5365.00 ft (KB) To 5407.00 ft (KB) (TVD)**

Reference Elevations: 3283.00 ft (KB)

Total Depth: 5407.00 ft (KB)

3272.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 3246 Inside

Press@RunDepth: 763.44 psig @ 5370.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.01.07

End Date: 2001.01.08

Last Calib.: 2001.01.07

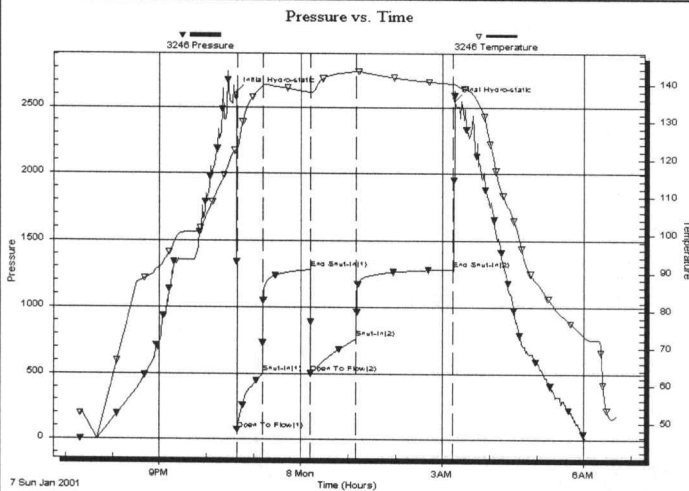
Start Time: 19:18:10

End Time: 06:43:08

Time On Btm: 2001.01.07 @ 22:37:53

Time Off Btm: 2001.01.08 @ 03:15:23

TEST COMMENT: IF; Fair to stong blow off bttm in 4 mins.
IF; Fair to strong blow off btm in 4 mins. ISI; Weak 1/4" blow died in 30 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
200	2610.01	122.98	Initial Hydro-static
200	65.31	123.01	Open To Flow (1)
233	494.32	139.65	Shut-In(1)
293	1279.96	138.02	End Shut-In(1)
294	498.32	138.01	Open To Flow (2)
352	763.44	143.56	Shut-In(2)
475	1284.75	140.32	End Shut-In(2)
478	2547.59	140.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1370.00	Water	13.02
120.00	Muddy water 70% water 30% mud	1.68

Gas Rates

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

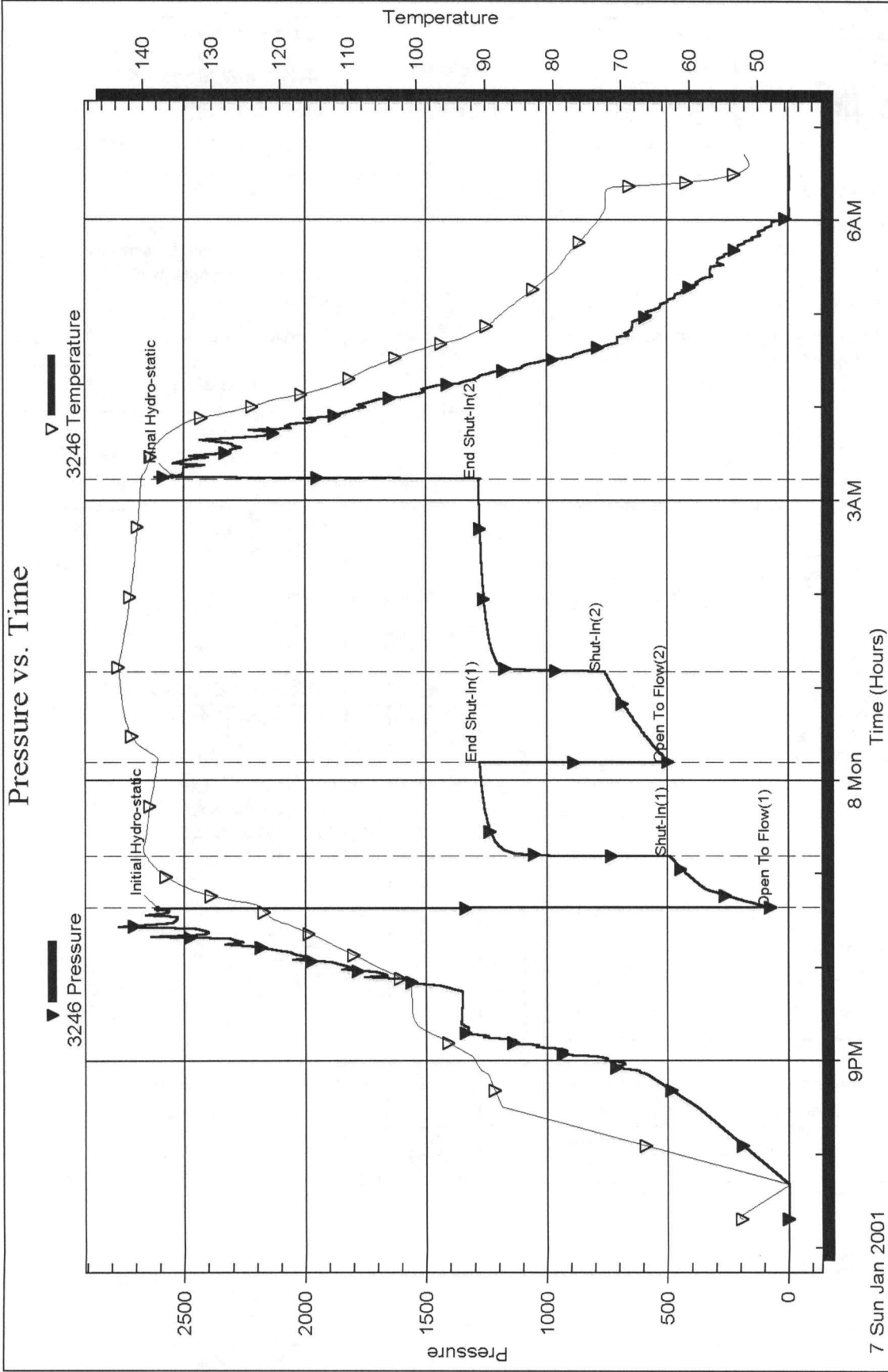
Serial #: 3246

Inside

Key Production Co. I

14-31S-40W Morton KS

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Key Production Co. I**

427 S. Boston Ste #515
Tulsa, OK 74103

ATTN: Marvin Harvey

14-31S-40W Morton KS

Beachner #3-14

Start Date: 2001.01.10 @ 12:00:00

End Date: 2001.01.10 @ 06:08:00

Job Ticket #: 12271 DST #: 2

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Key Production Co. I

Beachner #3-14

14-31S-40W Morton KS

DST #: 2

ST. Louis

2001.01.10



DRILL STEM TEST REPORT

Key Production Co. I
 427 S.Boston Ste #515
 Tulsa, OK 74103
 ATTN: Marvin Harvey

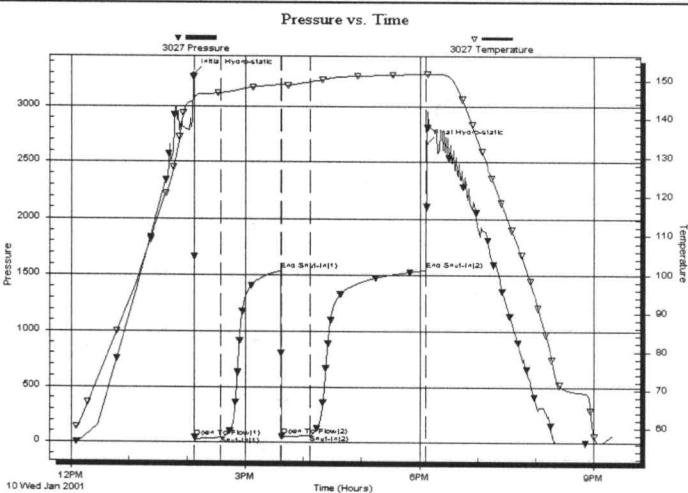
Beachner #3-14
14-31S-40W Morton KS
 Job Ticket: 12271 **DST#: 2**
 Test Start: 2001.01.10 @ 12:00:00

GENERAL INFORMATION:

Formation: **ST. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:07:19
 Time Test Ended: 06:08:00
 Interval: **5974.00 ft (KB) To 6015.00 ft (KB) (TVD)**
 Total Depth: 6080.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle
 Tester: Mike Colantonio
 Unit No: 20
 Reference Elevations: 3283.00 ft (KB)
 3272.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 3027 Inside
 Press@RunDepth: 59.69 psig @ 5981.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.01.10 End Date: 2001.01.10 Last Calib.: 2001.01.10
 Start Time: 12:04:51 End Time: 21:19:19 Time On Btm: 2001.01.10 @ 14:07:04
 Time Off Btm: 2001.01.10 @ 18:07:19

TEST COMMENT: Sampler data 4000ml Mud 1200PSI 4000ml Total 1st opening w eak blow built to 1" died off to .5" blow
 2nd opening no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
123	3291.32	145.38	Initial Hydro-static
123	34.27	145.60	Open To Flow (1)
150	40.86	146.86	Shut-In(1)
212	1543.42	149.03	End Shut-In(1)
213	54.50	149.06	Open To Flow (2)
242	59.69	149.71	Shut-In(2)
362	1547.75	151.77	End Shut-In(2)
363	2664.37	151.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% Drig Mud film oil	0.32

Gas Rates

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

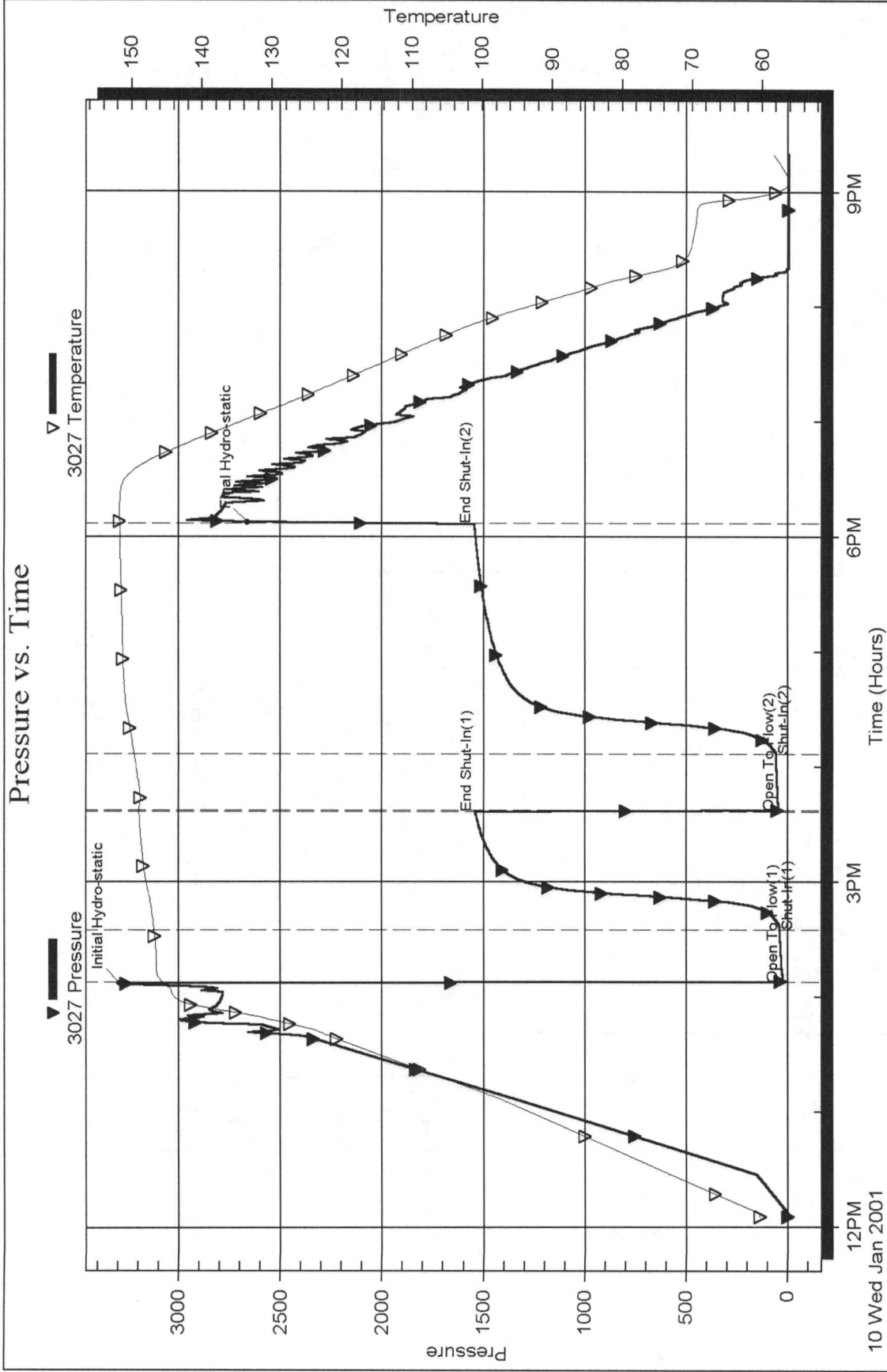
Serial #: 3027

Inside

Key Production Co. I

14-31S-40W Morton KS

Pressure vs. Time



12PM
10 Wed Jan 2001