



DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas**

211 Highland Cross Suite 250
Houston, TX 77073

ATTN: Sean Deenihan

Koehn Unit #3-10

3-20s-34w Scott,KS

Start Date: 2015.01.04 @ 01:25:33

End Date: 2015.01.04 @ 12:10:33

Job Ticket #: 61453 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.15 @ 10:13:16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61453

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 01:25:33

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:48

Time Test Ended: 12:10:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4188.00 ft (KB) To 4230.00 ft (KB) (TVD)

Total Depth: 4230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6771 Outside

Press@RunDepth: 360.22 psig @ 4189.00 ft (KB)

Start Date: 2015.01.04

End Date:

2015.01.04

Start Time: 01:25:33

End Time:

11:59:33

Capacity: 8000.00 psig

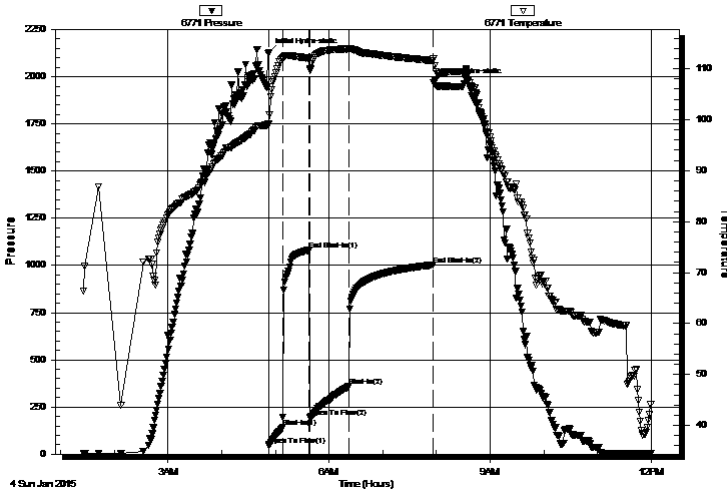
Last Calib.: 2015.01.04

Time On Btm: 2015.01.04 @ 04:52:33

Time Off Btm: 2015.01.04 @ 07:56:48

TEST COMMENT: B.O.B. in 6 min.
No return
B.O.B. in 9 min.
No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2126.84	99.24	Initial Hydro-static
1	46.56	98.96	Open To Flow (1)
16	140.57	112.08	Shut-In(1)
45	1079.59	112.04	End Shut-In(1)
46	192.81	109.71	Open To Flow (2)
90	360.22	113.89	Shut-In(2)
184	1002.68	111.52	End Shut-In(2)
185	1967.85	111.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	free oil 100%o	0.03
73.00	s w & m c o 10%w 25%m 65%o	1.02
180.00	s m & o c w 10%m 30%o 60%w	2.52
300.00	o c w 15%o 85%w	4.21
120.00	s o c w 5%o 95%w	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61453

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 01:25:33

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:48

Time Test Ended: 12:10:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4188.00 ft (KB) To 4230.00 ft (KB) (TVD)

Total Depth: 4230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4189.00 ft (KB)

Start Date: 2015.01.04

End Date:

2015.01.04

Start Time: 01:26:05

End Time:

12:00:05

Capacity: 8000.00 psig

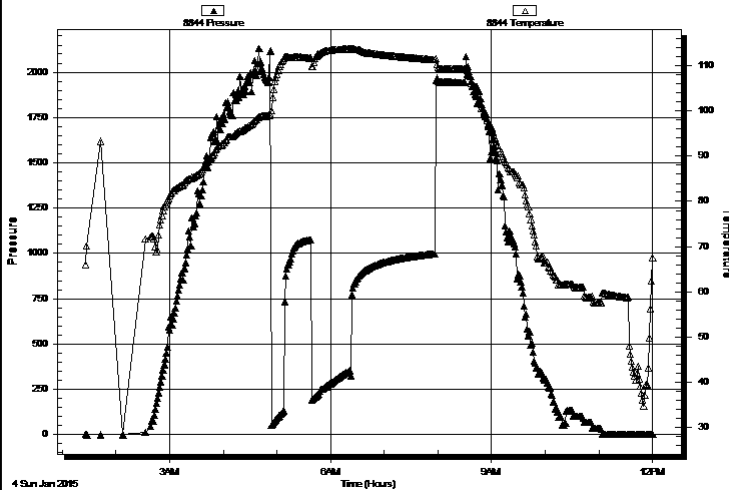
Last Calib.: 2015.01.04

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 6 min.
No return
B.O.B. in 9 min.
No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
2.00	free oil 100%o	0.03
73.00	s w & m c o 10%w 25%m 65%o	1.02
180.00	s m & o c w 10%m 30%o 60%w	2.52
300.00	o c w 15%o 85%w	4.21
120.00	s o c w 5%o 95%w	1.68

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61453

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 01:25:33

Tool Information

Drill Pipe:	Length:	4188.00 ft	Diameter:	3.80 inches	Volume:	58.75 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	58.75 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight: Initial	59000.00 lb
Depth to Top Packer:		4188.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		42.00 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
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Change Over Sub	1.00		4161.00	
Shut In Tool	5.00		4166.00	
Hydraulic tool	5.00		4171.00	
Jars	5.00		4176.00	
Safety Joint	3.00		4179.00	
Packer	5.00		4184.00	28.00 Bottom Of Top Packer
Packer	4.00		4188.00	
Stubb	1.00		4189.00	
Recorder	0.00	6771 Outside	4189.00	
Recorder	0.00	8844 Inside	4189.00	
Perforations	36.00		4225.00	
Bullnose	5.00		4230.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61453

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 01:25:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 7.13 in³

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity: 38000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	free oil 100%o	0.028
73.00	s w & m c o 10%w 25%m 65%o	1.024
180.00	s m & o c w 10%m 30%o 60%w	2.525
300.00	o c w 15%o 85%w	4.208
120.00	s o c w 5%o 95%w	1.683

Total Length: 675.00 ft Total Volume: 9.468 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .249 @ 53*f= 38,000

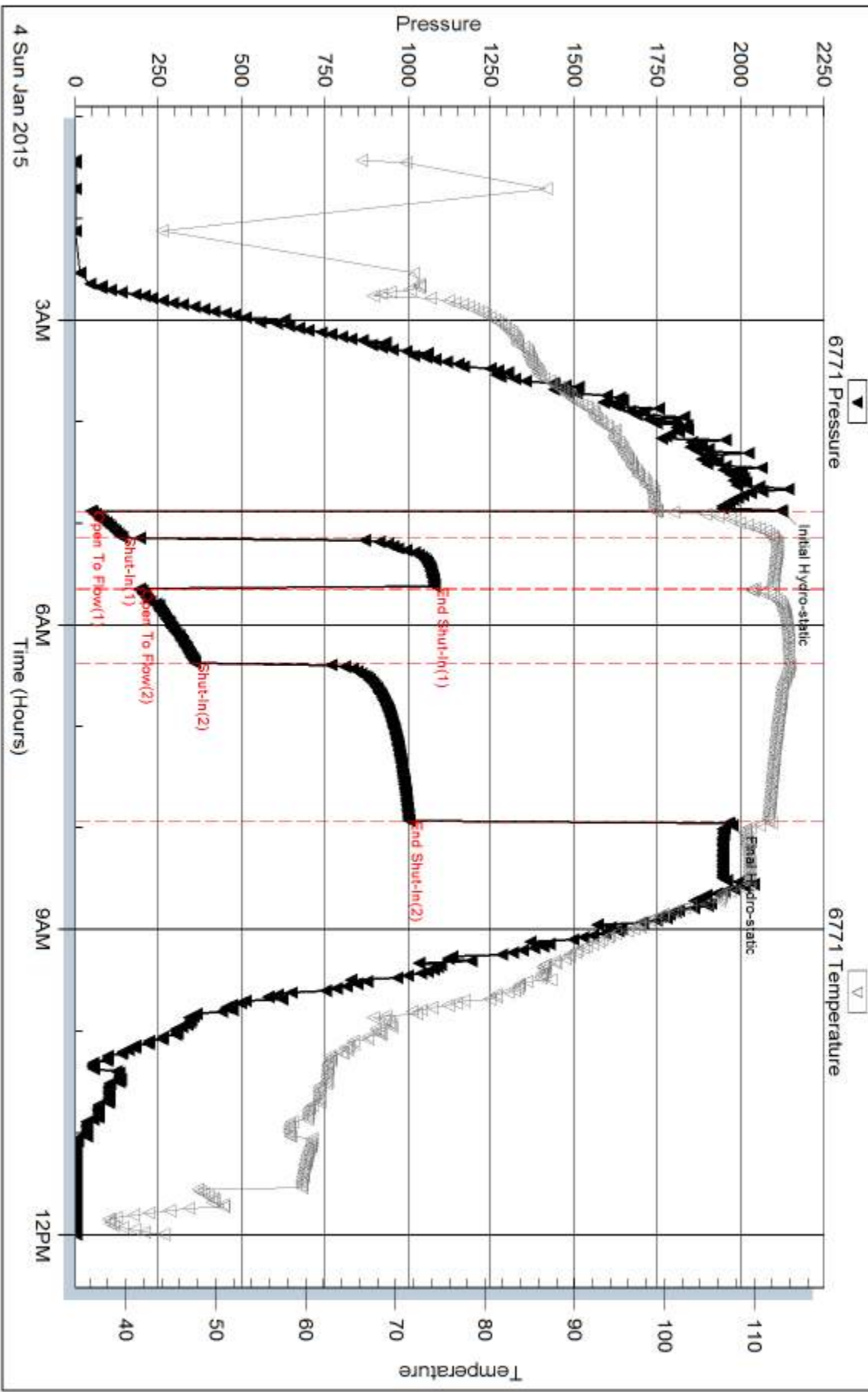
Serial #: 6771

Outside K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 1

Pressure vs. Time



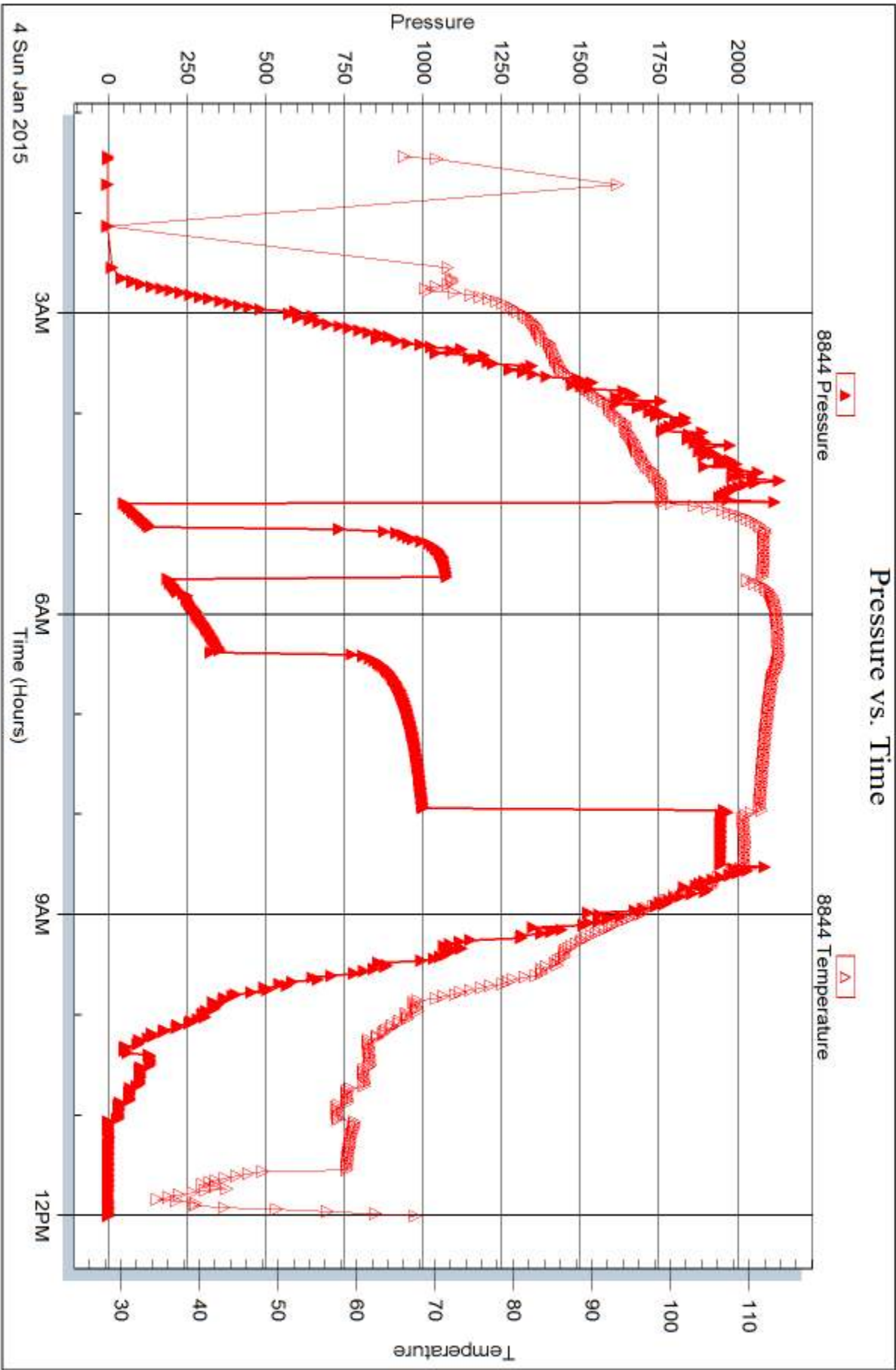
Serial #: 8844

Inside

K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas**

211 Highland Cross Suite 250
Houston, TX 77073

ATTN: Sean Deenihan

Koehn Unit #3-10

3-20s-34w Scott,KS

Start Date: 2015.01.04 @ 22:55:19

End Date: 2015.01.05 @ 08:10:49

Job Ticket #: 61454 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.15 @ 10:12:52



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61454

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 22:55:19

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:34

Time Test Ended: 08:10:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4231.00 ft (KB) To 4268.00 ft (KB) (TVD)

Total Depth: 4268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6771 Outside

Press@RunDepth: 388.73 psig @ 4232.00 ft (KB)

Start Date: 2015.01.04

End Date:

2015.01.05

Start Time: 22:55:19

End Time:

07:53:49

Capacity: 8000.00 psig

Last Calib.: 2015.01.05

Time On Btm: 2015.01.05 @ 02:00:19

Time Off Btm: 2015.01.05 @ 04:37:49

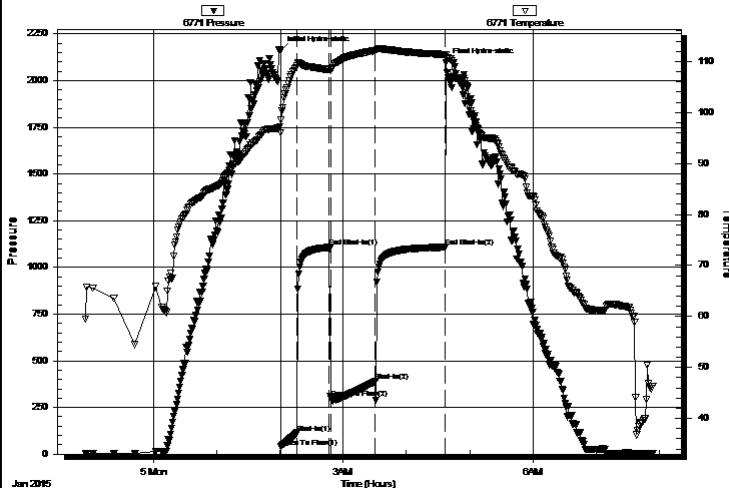
TEST COMMENT: B.O.B. in 9 1/2 min.

No return

B.O.B. in 14 min.

No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.67	97.21	Initial Hydro-static
1	39.40	95.98	Open To Flow (1)
16	113.34	109.09	Shut-In(1)
47	1107.13	108.34	End Shut-In(1)
48	299.70	108.48	Open To Flow (2)
91	388.73	112.15	Shut-In(2)
157	1107.95	111.36	End Shut-In(2)
158	2096.02	111.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	m c w 45m 55w	1.05
120.00	s m c w 15m 85w	1.68
360.00	water 100%w	5.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61454

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 22:55:19

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:34

Time Test Ended: 08:10:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4231.00 ft (KB) To 4268.00 ft (KB) (TVD)

Total Depth: 4268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4232.00 ft (KB)

Start Date: 2015.01.04

End Date:

2015.01.05

Start Time: 22:55:52

End Time:

07:54:07

Capacity: 8000.00 psig

Last Calib.: 2015.01.05

Time On Btm:

Time Off Btm:

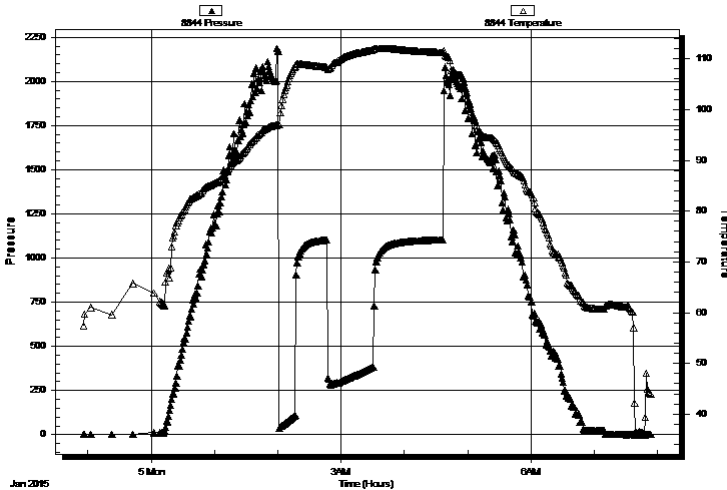
TEST COMMENT: B.O.B. in 9 1/2 min.

No return

B.O.B. in 14 min.

No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
75.00	m c w 45m 55w	1.05
120.00	s m c w 15m 85w	1.68
360.00	water 100%w	5.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61454

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 22:55:19

Tool Information

Drill Pipe:	Length:	4223.00 ft	Diameter:	3.80 inches	Volume:	59.24 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	59.24 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft						String Weight: Initial	58000.00 lb
Depth to Top Packer:	4231.00 ft						Final	61000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	37.00 ft							
Tool Length:	65.00 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4204.00	
Shut In Tool	5.00			4209.00	
Hydraulic tool	5.00			4214.00	
Jars	5.00			4219.00	
Safety Joint	3.00			4222.00	
Packer	5.00			4227.00	28.00 Bottom Of Top Packer
Packer	4.00			4231.00	
Stubb	1.00			4232.00	
Recorder	0.00	6771	Outside	4232.00	
Recorder	0.00	8844	Inside	4232.00	
Perforations	31.00			4263.00	
Bullnose	5.00			4268.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61454

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.01.04 @ 22:55:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 4.76 in³

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

26000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	m c w 45m 55w	1.052
120.00	s m c w 15m 85w	1.683
360.00	w ater 100%w	5.050

Total Length: 555.00 ft

Total Volume: 7.785 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .337 @ 52*f=26,000 chlor

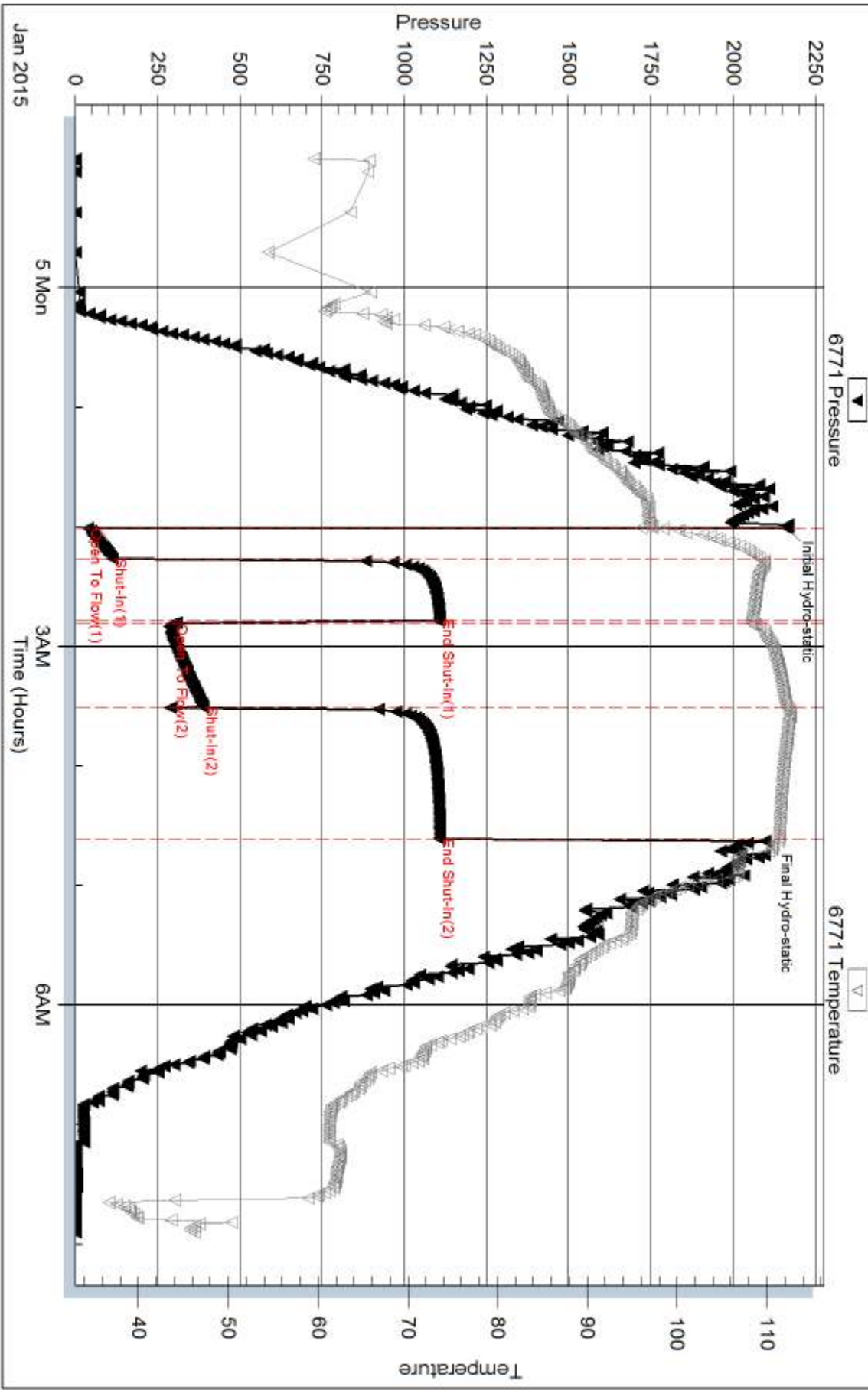
Serial #: 6771

Outside K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 2

Pressure vs. Time



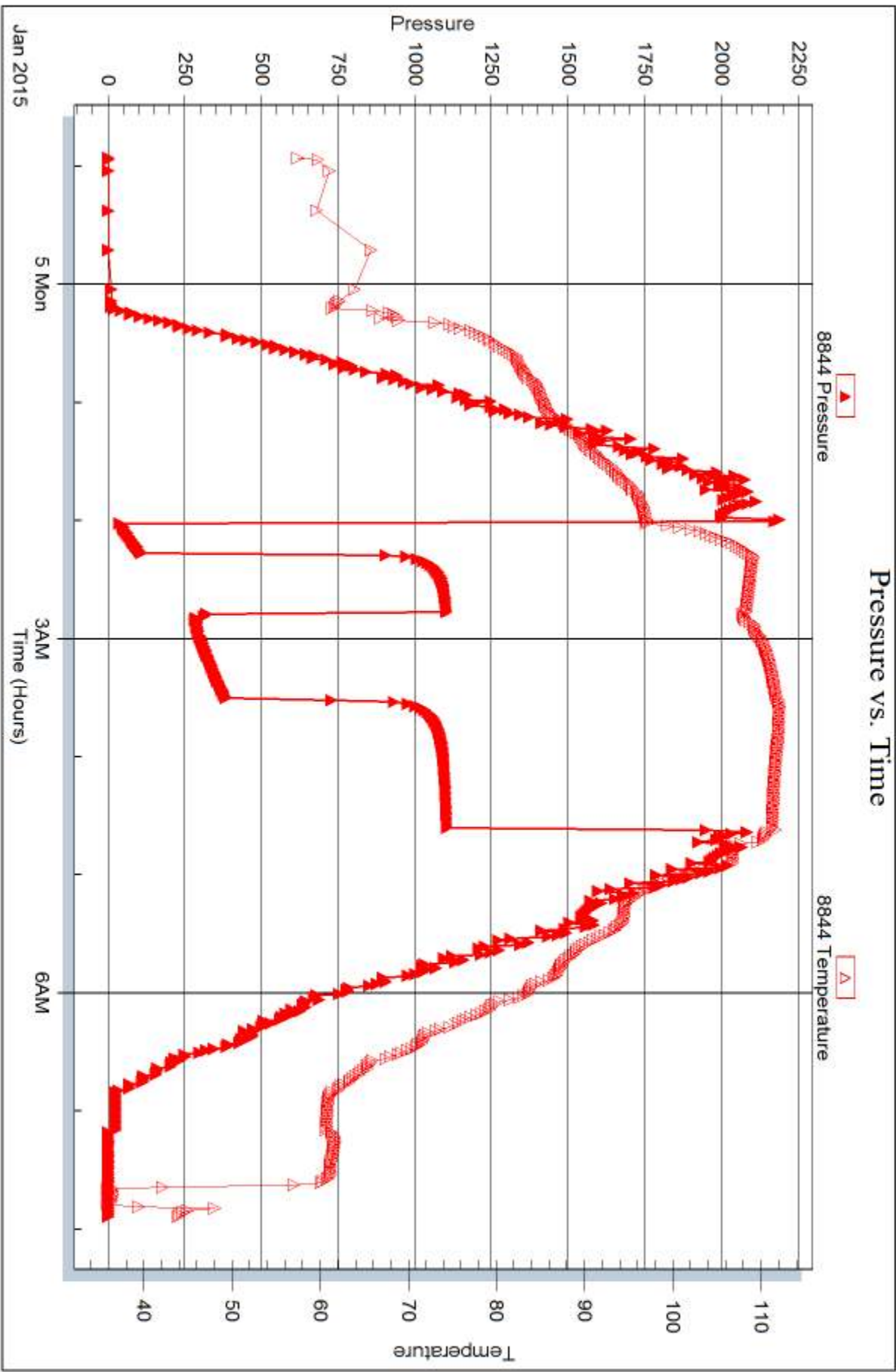
Serial #: 8844

Inside

K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas**

211 Highland Cross Suite 250
Houston, TX 77073

ATTN: Sean Deenihan

Koehn Unit #3-10

3-20s-34w Scott,KS

Start Date: 2015.01.05 @ 21:21:09

End Date: 2015.01.06 @ 05:20:09

Job Ticket #: 61455 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.15 @ 10:12:29



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61455

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.01.05 @ 21:21:09

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:44:54

Time Test Ended: 05:20:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4274.00 ft (KB) To 4318.00 ft (KB) (TVD)

Total Depth: 4318.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6771 Outside

Press@RunDepth: 1033.52 psig @ 4275.00 ft (KB)

Start Date: 2015.01.05

End Date:

2015.01.06

Start Time: 21:21:09

End Time:

04:48:09

Capacity: 8000.00 psig

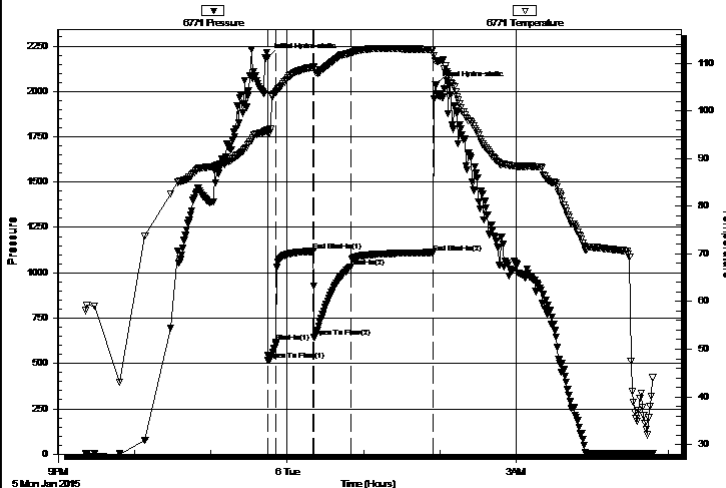
Last Calib.: 2015.01.06

Time On Btm: 2015.01.05 @ 23:44:24

Time Off Btm: 2015.01.06 @ 01:56:39

TEST COMMENT: B.O.B. @ open
No return
B.O.B in 1 min.
No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.45	96.09	Initial Hydro-static
1	519.50	95.42	Open To Flow (1)
7	618.34	103.93	Shut-In (1)
36	1118.57	109.16	End Shut-In (1)
37	643.69	108.99	Open To Flow (2)
66	1033.52	112.21	Shut-In (2)
131	1111.46	112.91	End Shut-In (2)
133	2034.76	110.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	m c w 40m 60w	1.26
60.00	s m c w 10m 90w	0.84
1860.00	water reversed out 100w	26.09
120.00	water under circ sub 100w	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61455

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.01.05 @ 21:21:09

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:44:54

Time Test Ended: 05:20:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4274.00 ft (KB) To 4318.00 ft (KB) (TVD)

Total Depth: 4318.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4275.00 ft (KB)

Start Date: 2015.01.05

End Date:

2015.01.06

Start Time: 21:20:48

End Time:

04:47:33

Capacity: 8000.00 psig

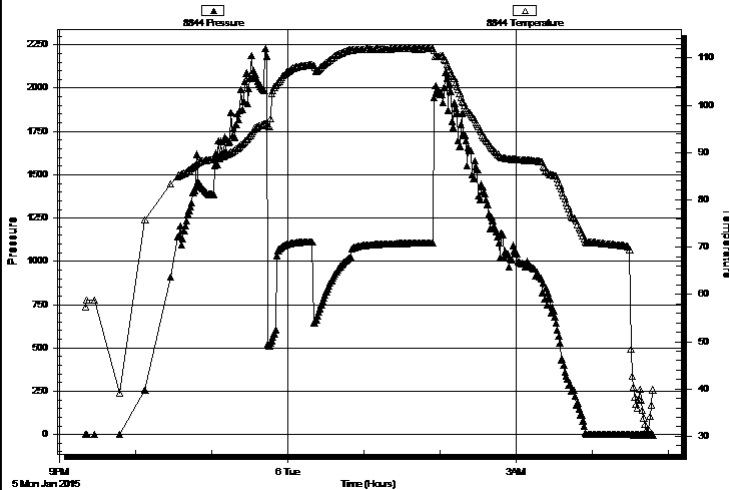
Last Calib.: 2015.01.06

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. @ open
No return
B.O.B in 1 min.
No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
90.00	m c w 40m 60w	1.26
60.00	s m c w 10m 90w	0.84
1860.00	water reversed out 100w	26.09
120.00	water under circ sub 100w	1.68

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61455

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.01.05 @ 21:21:09

Tool Information

Drill Pipe:	Length:	4260.00 ft	Diameter:	3.80 inches	Volume:	59.76 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	59.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft						String Weight: Initial	56000.00 lb
Depth to Top Packer:	4274.00 ft						Final	68000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	44.00 ft							
Tool Length:	64.00 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			4255.00	
Shut In Tool	5.00			4260.00	
Hydraulic tool	5.00			4265.00	
Packer	5.00			4270.00	20.00 Bottom Of Top Packer
Packer	4.00			4274.00	
Stubb	1.00			4275.00	
Recorder	0.00	6771	Outside	4275.00	
Recorder	0.00	8844	Inside	4275.00	
Perforations	38.00			4313.00	
Bullnose	5.00			4318.00	44.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61455

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.01.05 @ 21:21:09

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 4.77 in³

Resistivity: 0.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

29000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	m c w 40m 60w	1.262
60.00	s m c w 10m 90w	0.842
1860.00	w ater reversed out 100w	26.091
120.00	w ater under circ sub 100w	1.683

Total Length: 2130.00 ft

Total Volume: 29.878 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .204 @ 74*f= 29,000

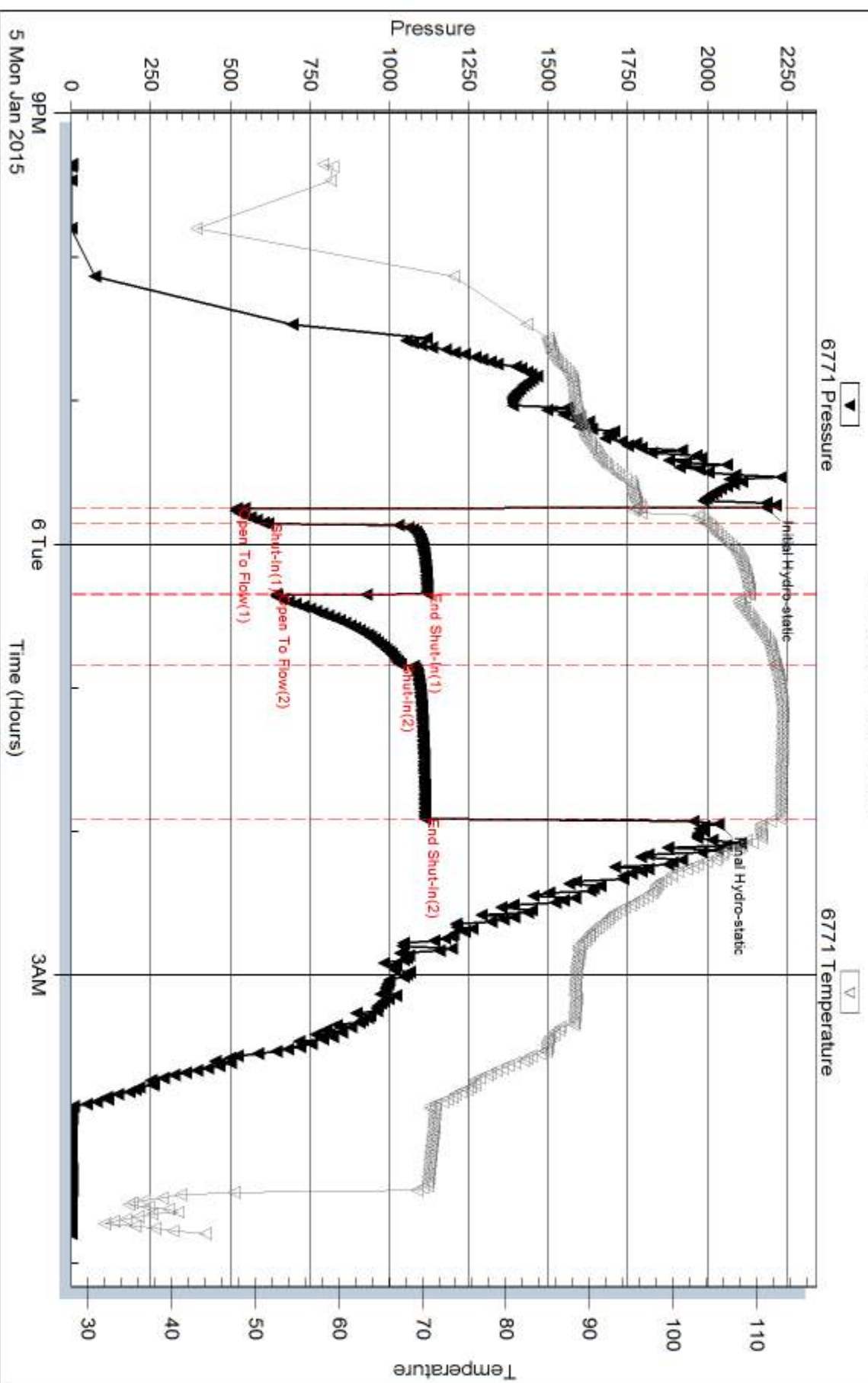
Serial #: 6771

Outside K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 3

Pressure vs. Time



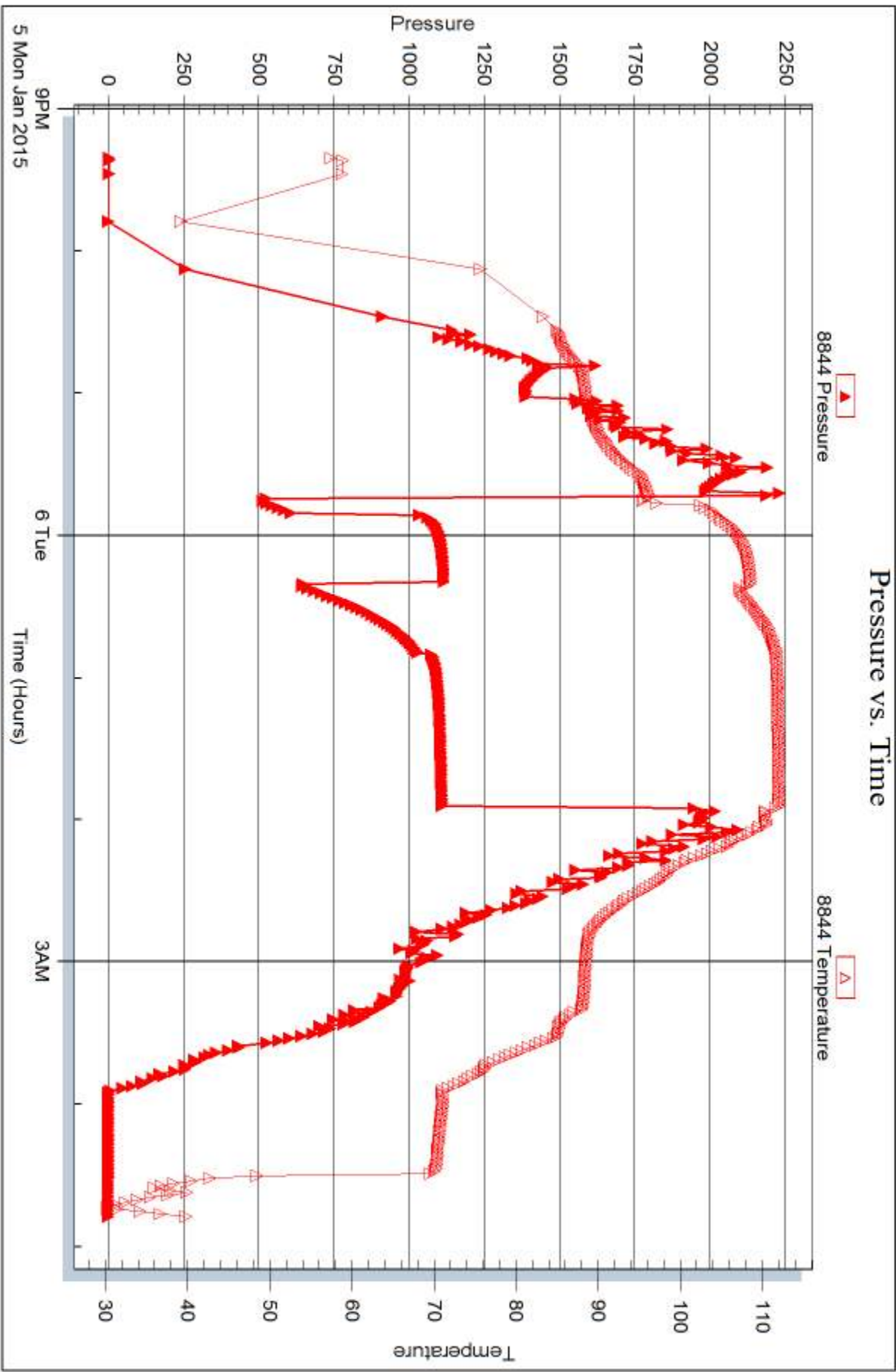
Serial #: 8844

Inside

K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas**

211 Highland Cross Suite 250
Houston, TX 77073

ATTN: Sean Deenihan

Koehn Unit #3-10

3-20s-34w Scott,KS

Start Date: 2015.01.07 @ 08:45:51

End Date: 2015.01.07 @ 16:45:51

Job Ticket #: 61456 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.15 @ 10:12:06

K3 Oil & Gas
3-20s-34w Scott,KS
Koehn Unit #3-10
DST # 4
Marmaton
2015.01.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61456

DST#: 4

ATTN: Sean Deenihan

Test Start: 2015.01.07 @ 08:45:51

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:51:21

Time Test Ended: 16:45:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4463.00 ft (KB) To 4508.00 ft (KB) (TVD)

Reference Elevations: 3038.00 ft (KB)

Total Depth: 4508.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 6771 Outside

Press@RunDepth: 220.75 psig @ 4464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.07

End Date:

2015.01.07

Last Calib.: 2015.01.07

Start Time: 08:45:51

End Time:

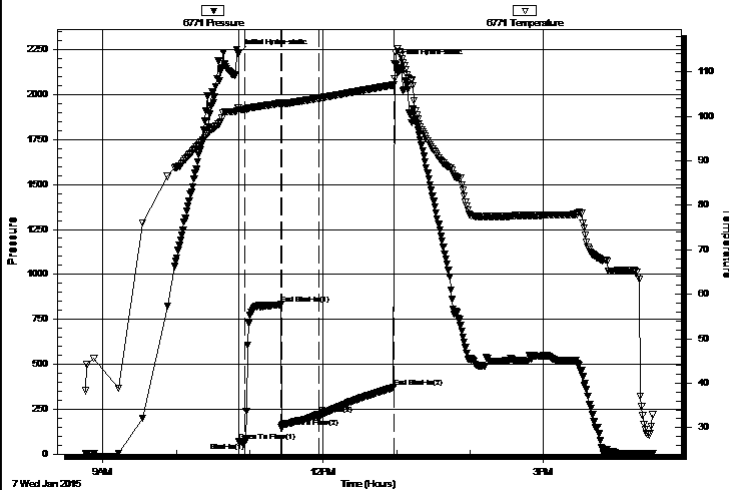
16:29:51

Time On Btm: 2015.01.07 @ 10:50:51

Time Off Btm: 2015.01.07 @ 12:58:21

TEST COMMENT: B.O.B. in 2 1/2 min.
Return to B.O.B. in 9 min.
B.O.B. @ open
Return to B.O.B. in 9 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.87	101.97	Initial Hydro-static
1	70.01	101.45	Open To Flow (1)
6	63.83	101.54	Shut-In(1)
35	832.59	102.97	End Shut-In(1)
35	147.26	102.79	Open To Flow (2)
66	220.75	104.08	Shut-In(2)
127	371.14	107.05	End Shut-In(2)
128	2173.10	108.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	c g o 20g 80o	0.42
840.00	c g o 25%g 75%o reversed out	11.78
120.00	g m c o 25g 30m 45o under circ sub	1.68
0.00	2790' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61456

DST#: 4

ATTN: Sean Deenihan

Test Start: 2015.01.07 @ 08:45:51

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:51:21

Time Test Ended: 16:45:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4463.00 ft (KB) To 4508.00 ft (KB) (TVD)

Total Depth: 4508.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4464.00 ft (KB)

Start Date: 2015.01.07

End Date:

2015.01.07

Start Time: 08:45:57

End Time:

16:29:42

Capacity: 8000.00 psig

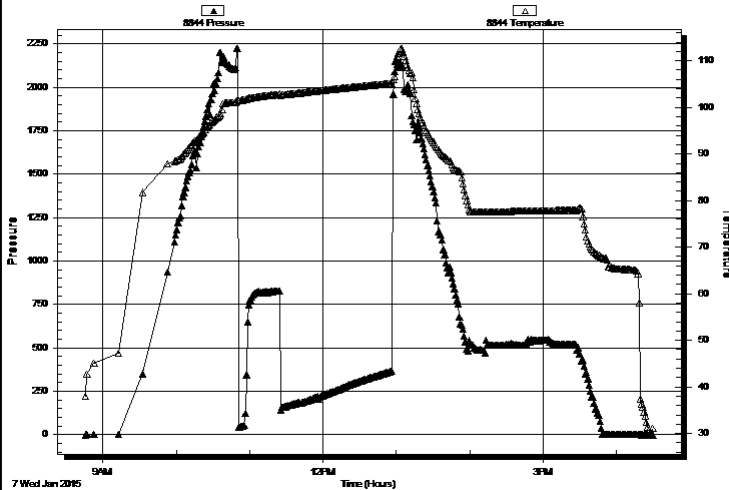
Last Calib.: 2015.01.07

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 2 1/2 min.
Return to B.O.B. in 9 min.
B.O.B. @ open
Return to B.O.B. in 9 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
30.00	c g o 20g 80o	0.42
840.00	c g o 25%g 75%o reversed out	11.78
120.00	g m c o 25g 30m 45o under circ sub	1.68
0.00	2790' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61456

DST#: 4

ATTN: Sean Deenihan

Test Start: 2015.01.07 @ 08:45:51

Tool Information

Drill Pipe:	Length:	4448.00 ft	Diameter:	3.80 inches	Volume:	62.39 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	62.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight: Initial	60000.00 lb
Depth to Top Packer:		4463.00 ft					Final	63000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		45.00 ft						
Tool Length:		65.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		4444.00	
Shut In Tool	5.00		4449.00	
Hydraulic tool	5.00		4454.00	
Packer	5.00		4459.00	20.00 Bottom Of Top Packer
Packer	4.00		4463.00	
Stubb	1.00		4464.00	
Recorder	0.00	6771 Outside	4464.00	
Recorder	0.00	8844 Inside	4464.00	
Perforations	6.00		4470.00	
Change Over Sub	1.00		4471.00	
Drill Pipe	31.00		4502.00	
Change Over Sub	1.00		4503.00	
Bullnose	5.00		4508.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61456

DST#: 4

ATTN: Sean Deenihan

Test Start: 2015.01.07 @ 08:45:51

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.93 in³

Resistivity: 0.00 ohm.m

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

31 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	c g o 20g 80o	0.421
840.00	c g o 25%g 75%o reversed out	11.783
120.00	g m c o 25g 30m 45o under circ sub	1.683
0.00	2790' gas in pipe	0.000

Total Length: 990.00 ft

Total Volume: 13.887 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

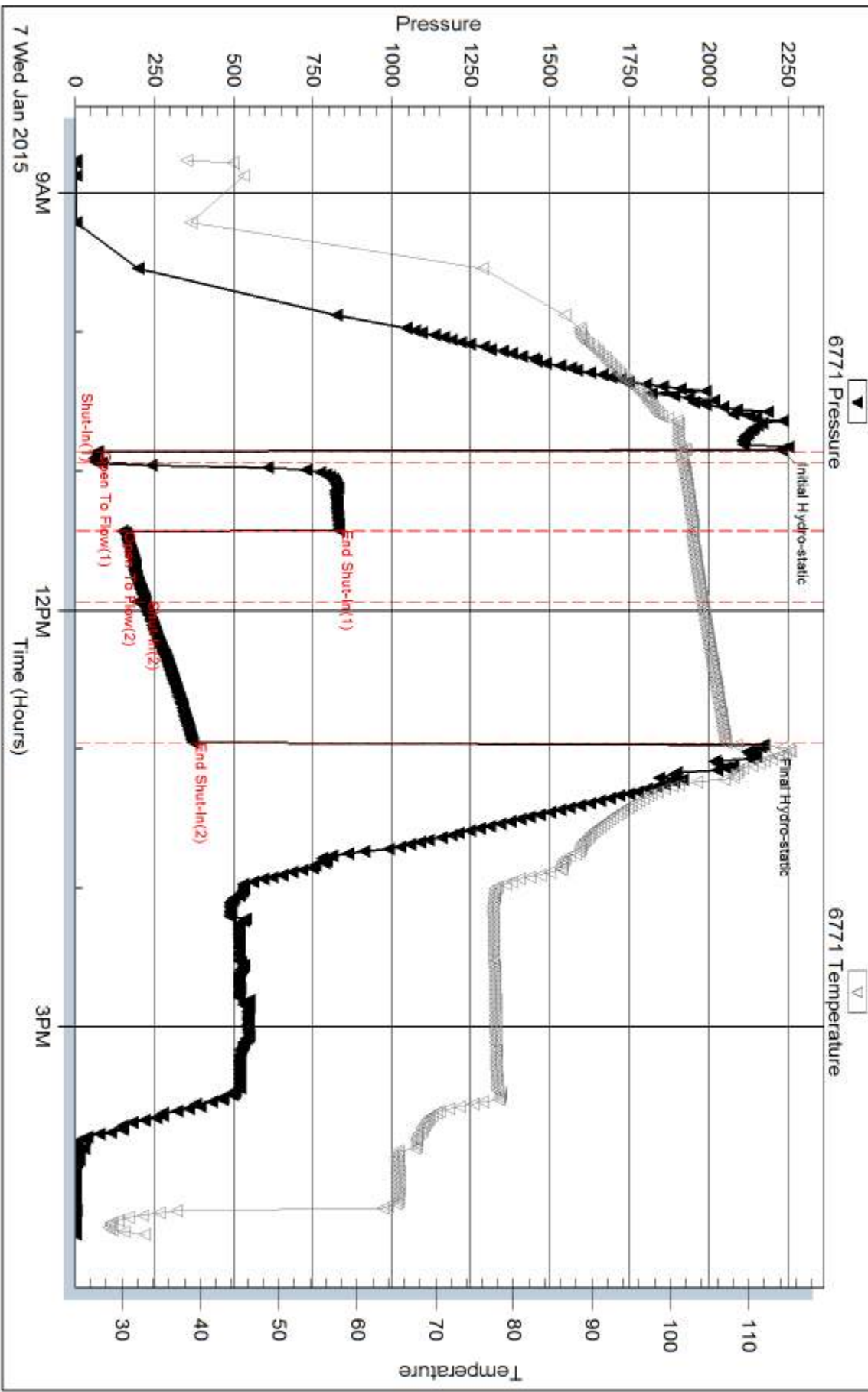
Serial #: 6771

Outside K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 4

Pressure vs. Time



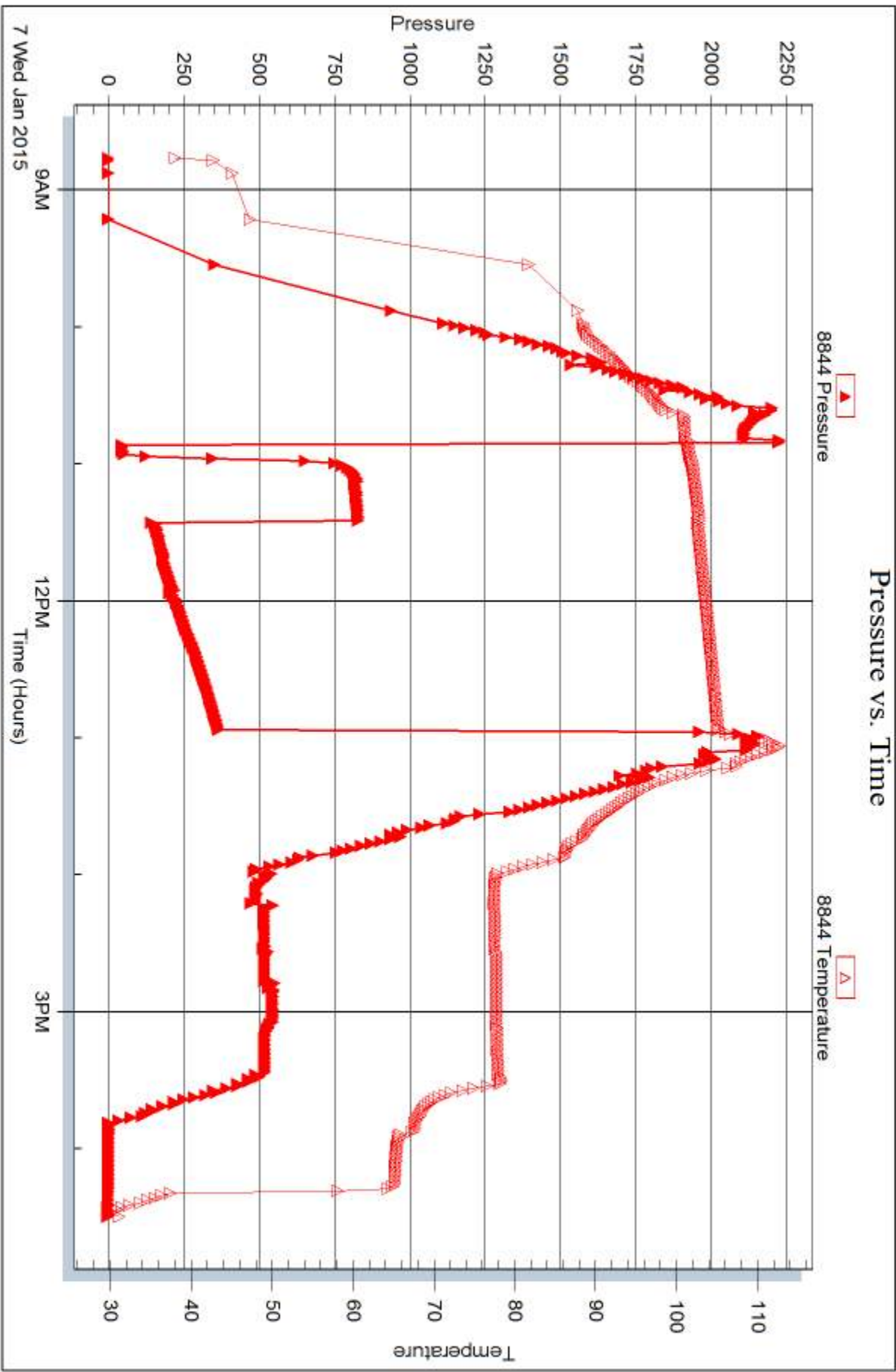
Serial #: 8844

Inside

K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas**

211 Highland Cross Suite 250
Houston, TX 77073

ATTN: Sean Deenihan

Koehn Unit #3-10

3-20s-34w Scott,KS

Start Date: 2015.01.08 @ 05:06:09

End Date: 2015.01.08 @ 12:35:54

Job Ticket #: 61457 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.15 @ 10:11:42



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61457

DST#: 5

ATTN: Sean Deenihan

Test Start: 2015.01.08 @ 05:06:09

GENERAL INFORMATION:

Formation: **Pawnee - Myrick Stat**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:18:24

Time Test Ended: 12:35:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4520.00 ft (KB) To 4558.00 ft (KB) (TVD)

Reference Elevations: 3038.00 ft (KB)

Total Depth: 4558.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 6771 Outside

Press@RunDepth: 34.42 psig @ 4521.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.08

End Date:

2015.01.08

Last Calib.: 2015.01.08

Start Time: 05:06:09

End Time:

12:18:54

Time On Btm: 2015.01.08 @ 08:17:54

Time Off Btm: 2015.01.08 @ 10:10:39

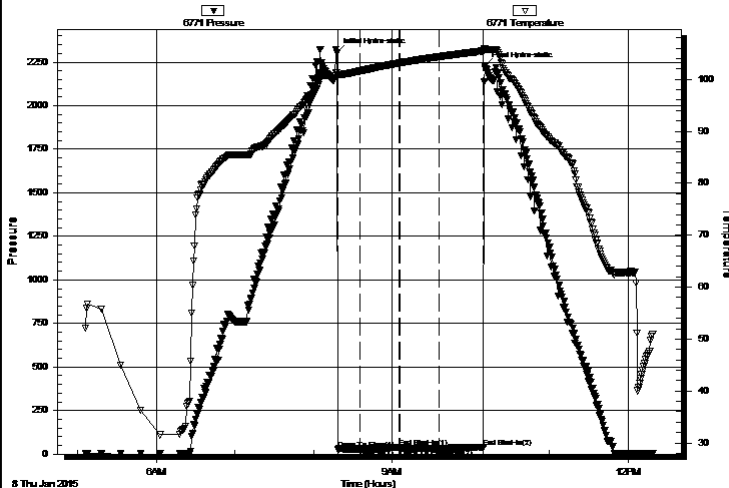
TEST COMMENT: 1/2" blow died back to a weak surface blow

No return

No blow

No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.77	101.32	Initial Hydro-static
1	29.01	100.58	Open To Flow (1)
18	30.56	101.61	Shut-In(1)
48	38.94	103.14	End Shut-In(1)
48	32.33	103.15	Open To Flow (2)
78	34.42	104.37	Shut-In(2)
112	40.29	105.48	End Shut-In(2)
113	2227.24	105.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



K3 Oil & Gas

211 Highland Cross Suite 250
Houston, TX 77073

Job Ticket: 61457

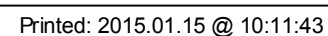
DST#: 5

Test Start: 2015.01.08 @ 05:06:09

ATTN: Sean Deenihan

KB to GR/CF: 12.00 ft

No return





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61457

DST#: 5

ATTN: Sean Deenihan

Test Start: 2015.01.08 @ 05:06:09

Tool Information

Drill Pipe:	Length:	4513.00 ft	Diameter:	3.80 inches	Volume:	63.31 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	75000.00 lb
					Total Volume:	63.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		13.00 ft					String Weight: Initial	60000.00 lb
Depth to Top Packer:		4520.00 ft					Final	60000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		38.00 ft						
Tool Length:		58.00 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			4501.00	
Shut In Tool	5.00			4506.00	
Hydraulic tool	5.00			4511.00	
Packer	5.00			4516.00	20.00 Bottom Of Top Packer
Packer	4.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	6771	Outside	4521.00	
Recorder	0.00	8844	Inside	4521.00	
Perforations	32.00			4553.00	
Bullnose	5.00			4558.00	38.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61457

DST#: 5

ATTN: Sean Deenihan

Test Start: 2015.01.08 @ 05:06:09

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.96 in³

Resistivity: 0.00 ohm.m

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

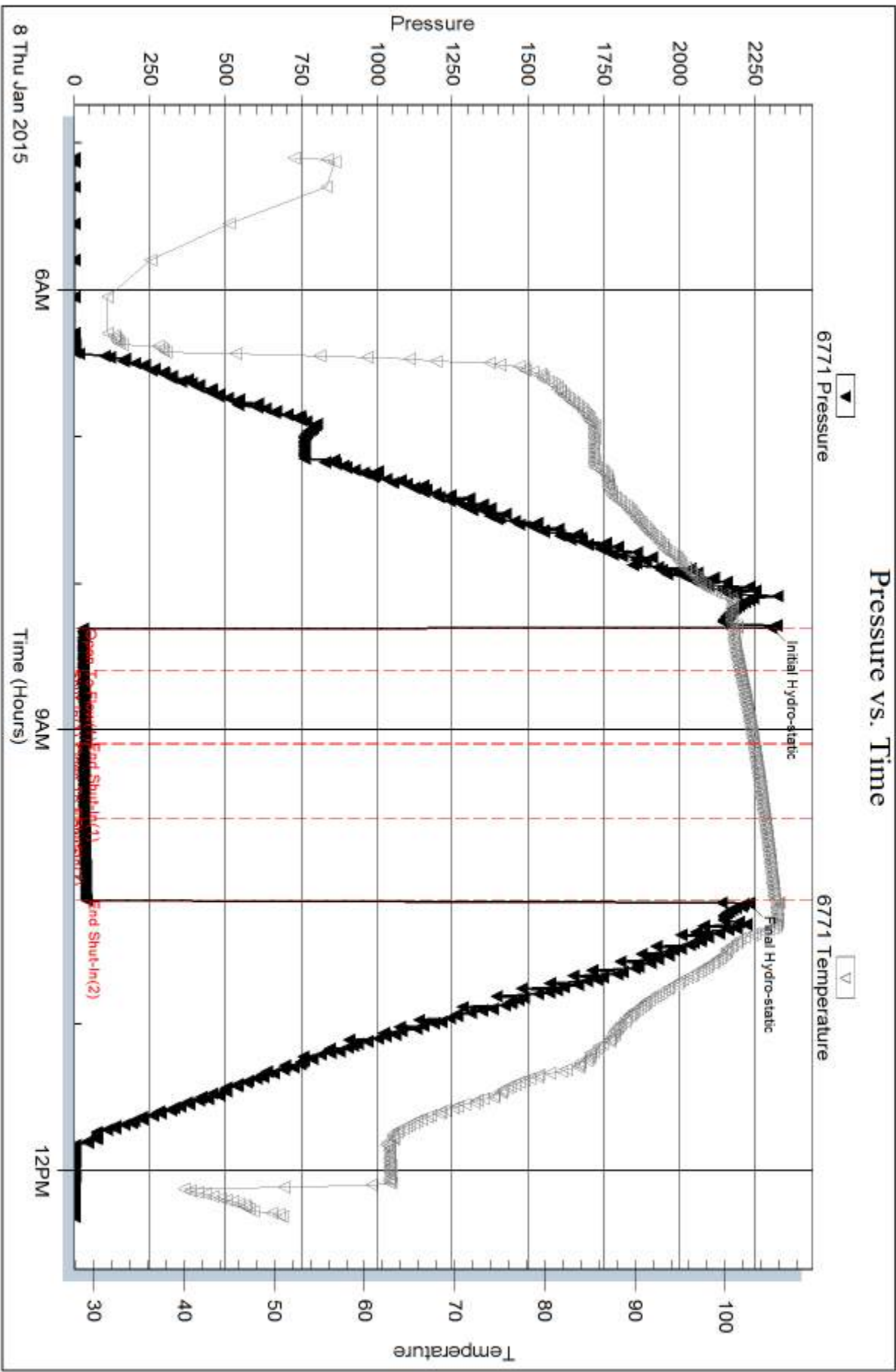
Recovery Comments:

Serial #: 6771

Outside K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 5



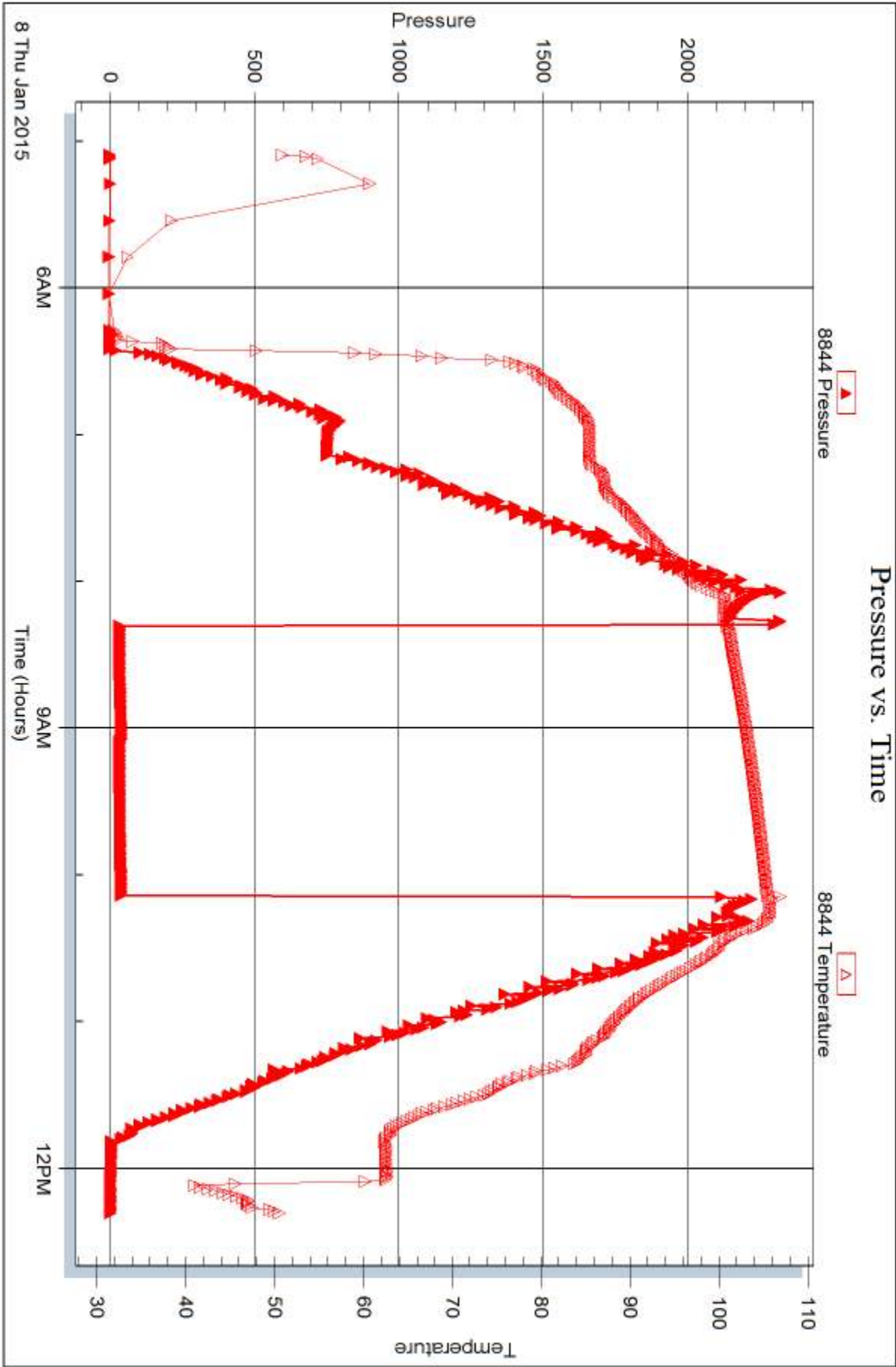
Serial #: 8844

Inside

K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas**

211 Highland Cross Suite 250
Houston, TX 77073

ATTN: Sean Deenihan

Koehn Unit #3-10

3-20s-34w Scott,KS

Start Date: 2015.01.09 @ 05:26:09

End Date: 2015.01.09 @ 14:45:54

Job Ticket #: 61458 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.15 @ 10:10:55



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61458

DST#: 6

ATTN: Sean Deenihan

Test Start: 2015.01.09 @ 05:26:09

GENERAL INFORMATION:

Formation: **Cherokee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:04:39

Time Test Ended: 14:45:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4602.00 ft (KB) To 4656.00 ft (KB) (TVD)

Total Depth: 4656.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3038.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6771 Outside

Press@RunDepth: 31.47 psig @ 4603.00 ft (KB)

Start Date: 2015.01.09

End Date:

2015.01.09

Start Time: 05:26:09

End Time:

14:31:54

Capacity: 8000.00 psig

Last Calib.: 2015.01.09

Time On Btm: 2015.01.09 @ 10:04:09

Time Off Btm: 2015.01.09 @ 11:53:54

TEST COMMENT: 3/4" blow died back to a surface blow

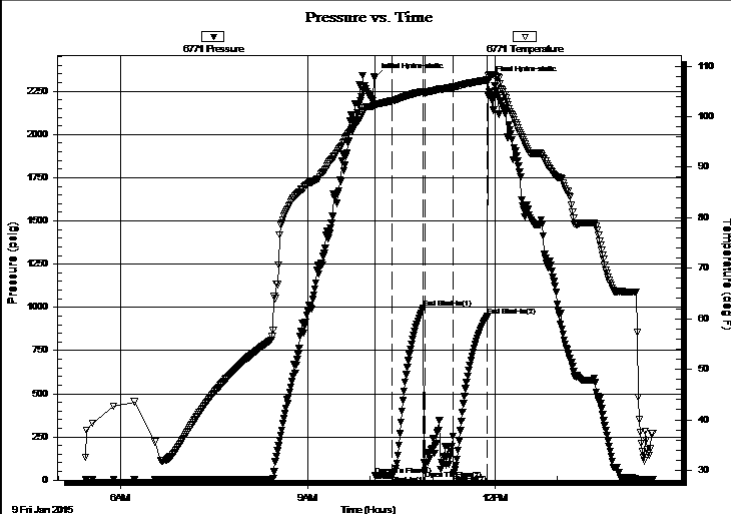
No return

No blow

No return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2331.04	102.41	Initial Hydro-static
1	26.80	102.24	Open To Flow (1)
17	27.06	103.11	Shut-In(1)
47	997.27	104.99	End Shut-In(1)
49	56.80	104.74	Open To Flow (2)
76	31.47	105.82	Shut-In(2)
109	949.46	107.26	End Shut-In(2)
110	2310.23	108.11	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
25.00	Heavy thick mud 100%m	0.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



K3 Oil & Gas

211 Highland Cross Suite 250
Houston, TX 77073

Job Ticket: 61458

DST#: 6

Test Start: 2015.01.09 @ 05:26:09

ATTN: Sean Deenihan

Formation: **Cherokee - Johnson**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 10:04:39

Tester: Shane McBride

Time Test Ended: 14:45:54

Unit No: 55

Interval: 4602.00 ft (KB) To 4656.00 ft (KB) (TVD)

Reference Elevations: 3038.00 ft (KB)

Total Depth: 4656.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8844 **Inside**

Press@RunDepth: psig @ 4603.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.09

End Date:

2015.01.09

Last Calib.:

2015.01.09

Start Time: 05:26:09

End Time:

14:31:54

Time On Btm:

Time Off Btm:

TEST COMMENT: 3/4" blow died back to a surface blow

No return

No blow

No return



Recovery

Gas Rates

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61458

DST#: 6

ATTN: Sean Deenihan

Test Start: 2015.01.09 @ 05:26:09

Tool Information

Drill Pipe:	Length:	4607.00 ft	Diameter:	3.80 inches	Volume:	64.62 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	64.62 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	61000.00 lb
Depth to Top Packer:		4602.00 ft					Final	61000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		54.00 ft						
Tool Length:		74.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4583.00	
Shut In Tool	5.00			4588.00	
Hydraulic tool	5.00			4593.00	
Packer	5.00			4598.00	20.00 Bottom Of Top Packer
Packer	4.00			4602.00	
Stubb	1.00			4603.00	
Recorder	0.00	6771	Outside	4603.00	
Recorder	0.00	8844	Inside	4603.00	
Perforations	14.00			4617.00	
Change Over Sub	1.00			4618.00	
Drill Pipe	32.00			4650.00	
Change Over Sub	1.00			4651.00	
Bullnose	5.00			4656.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

3-20s-34w Scott,KS

211 Highland Cross Suite 250
Houston, TX 77073

Koehn Unit #3-10

Job Ticket: 61458

DST#: 6

ATTN: Sean Deenihan

Test Start: 2015.01.09 @ 05:26:09

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.98 in³

Resistivity: 0.00 ohm.m

Salinity: 12000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Heavy thick mud 100%m	0.351

Total Length: 25.00 ft

Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

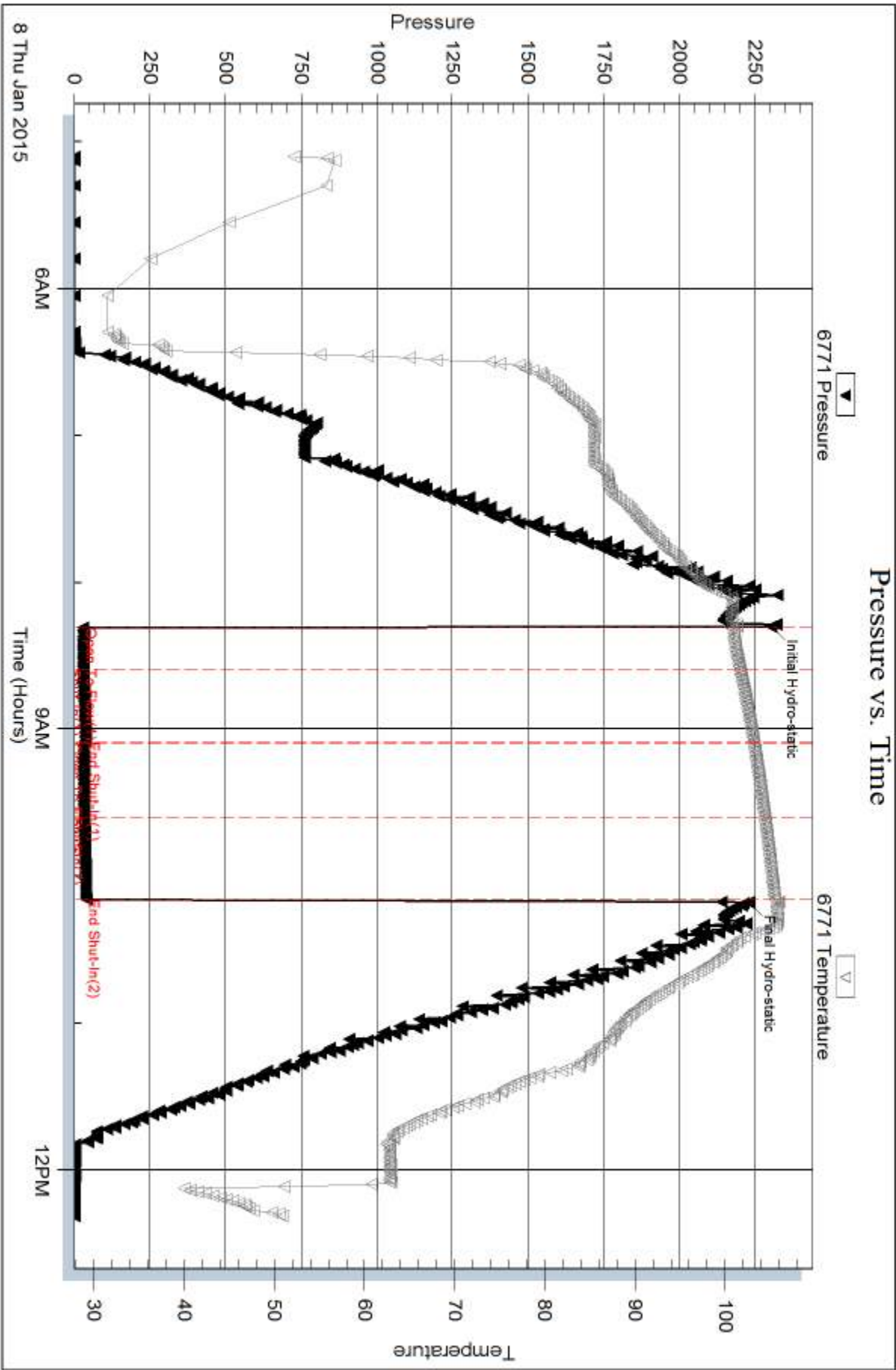
Recovery Comments:

Serial #: 6771

Outside K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 6



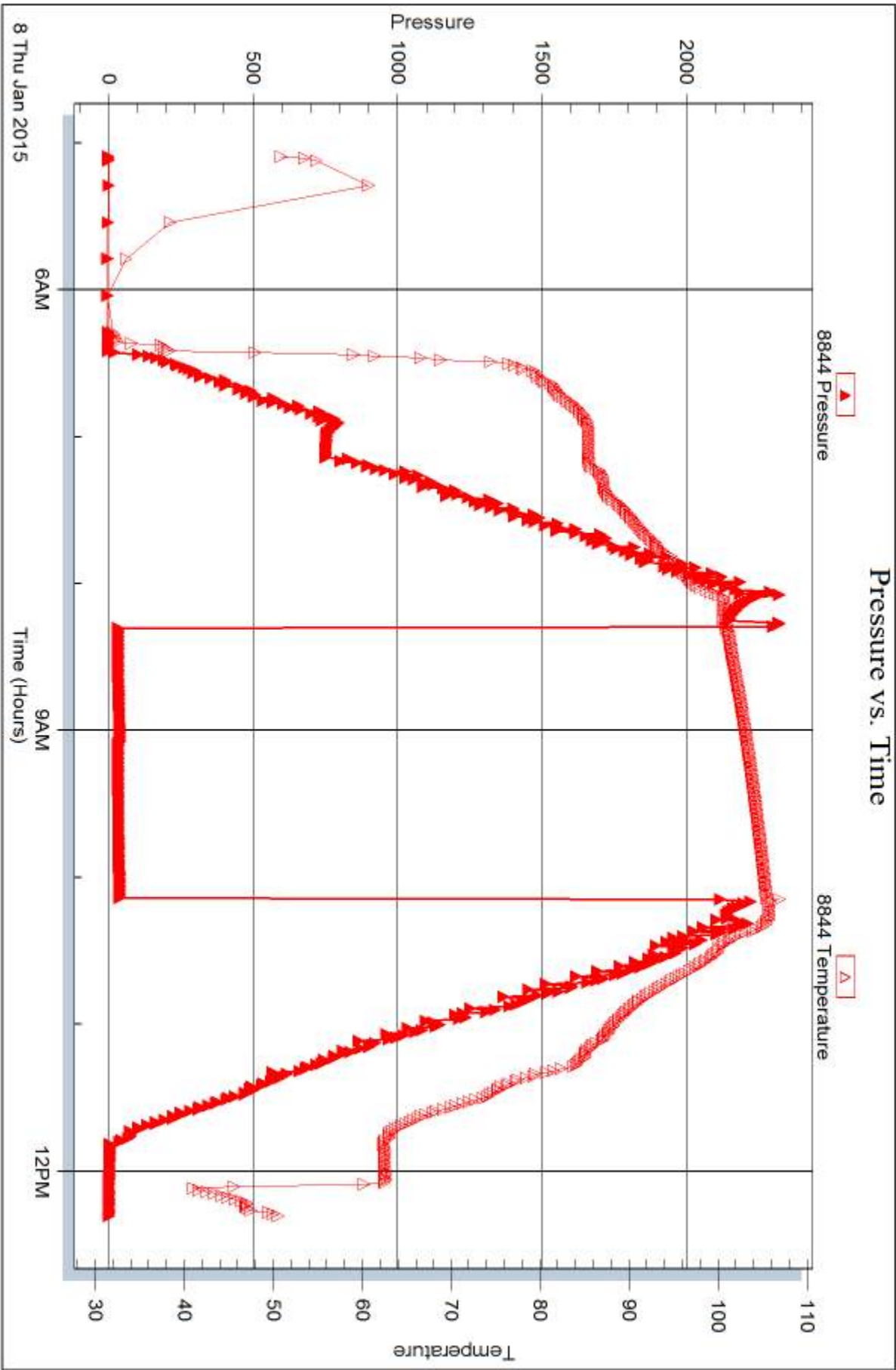
Serial #: 8844

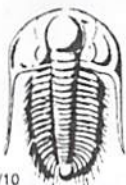
Inside

K3 Oil & Gas

Koehn Unit #3-10

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61453

Well Name & No. Koehn Unit #3-10 Test No. #1 Date 1/2/15
 Company K3 Oil & Gas Elevation 3038' KB 3020' GL
 Address 211 Highland Cross Suite 250 Houston TX 77023
 Co. Rep / Geo. Rusty Rig Duke #1
 Location: Sec. 3 Twp. 20 Rge. 34 Co. Scott State KS

Interval Tested 4188 4230 Zone Tested H
 Anchor Length 42 Drill Pipe Run 4188 Mud Wt. 9.3
 Top Packer Depth 4183 Drill Collars Run — Vis 47
 Bottom Packer Depth 4188 Wt. Pipe Run — WL 7.2
 Total Depth 4230 Chlorides 5000 ppm System LCM #1 1/2

Blow Description B.O.B. in 6 min.
No return
B.O.B. in 9 min
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Free Oil</u>	<u>100</u>			
<u>73</u>	<u>SW 3 mco</u>	<u>65</u>	<u>10</u>	<u>25</u>	
<u>180</u>	<u>SW 30 CW</u>	<u>30</u>	<u>60</u>	<u>10</u>	
<u>300</u>	<u>OCW</u>	<u>13</u>	<u>85</u>		
<u>120</u>	<u>50 CW</u>	<u>5</u>	<u>95</u>		

Rec Total 675' BHT 113° Gravity — API RW .249 @ 53° F Chlorides 38,000 ppm

Test	Value	Test	Value
(A) Initial Hydrostatic	<u>2126</u>	T-On Location	<u>23:35</u>
(B) First Initial Flow	<u>44</u>	T-Started	<u>01:25</u>
(C) First Final Flow	<u>140</u>	T-Open	<u>04:51</u>
(D) Initial Shut-In	<u>1079</u>	T-Pulled	<u>07:51</u>
(E) Second Initial Flow	<u>192</u>	T-Out	<u>12:10</u>
(F) Second Final Flow	<u>360</u>	Comments	
(G) Final Shut-In	<u>1002</u>		
(H) Final Hydrostatic	<u>1967</u>		

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 90

Sub Total 1765

Approved By Rusty Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61454

Well Name & No. Koch Unit #3-10 Test No. #2 Date 1/5/15
 Company K3 Oil & Gas Elevation 3038 KB 3026 GL
 Address 211 Highland Cross, Suite 250, Houston, TX 77073
 Co. Rep / Geo. Rusty Rig Duke #1
 Location: Sec. 3 Twp. 20 Rge. 34 Co. Scott State Ks

Interval Tested 4231 4268 Zone Tested J
 Anchor Length 37 Drill Pipe Run 4223 Mud Wt. 9.3
 Top Packer Depth 4226 Drill Collars Run — Vis 68
 Bottom Packer Depth 4231 Wt. Pipe Run — WL 4.8
 Total Depth 4268 Chlorides 6000 ppm System LCM #1

Blow Description B.O.B. in 9 1/2 min
No return
B.O.B. in 14 min
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>mcw</u>		<u>55</u>	<u>45</u>	
<u>120</u>	<u>smcw</u>		<u>85</u>	<u>15</u>	
<u>360</u>	<u>water</u>		<u>100</u>		

Rec Total 555 BHT 112 Gravity — API RW .337 @ 52°F Chlorides 26,000 ppm
 (A) Initial Hydrostatic 2161 ☒ Test 1150 T-On Location 22:35
 (B) First Initial Flow 39 ☒ Jars 250 T-Started 22:55
 (C) First Final Flow 113 ☒ Safety Joint 75 T-Open 01:58
 (D) Initial Shut-In 1107 ☒ Circ Sub N/C T-Pulled 04:28
 (E) Second Initial Flow 299 ☐ Hourly Standby — T-Out 08:10
 (F) Second Final Flow 388 ☒ Mileage 40 40 Comments —
 (G) Final Shut-In 1107 ☐ Sampler —
 (H) Final Hydrostatic 2096 ☐ Straddle —

Initial Open 15 ☒ Shale Packer 250 ☐ Ruined Shale Packer —
 Initial Shut-In 30 ☐ Extra Packer — ☐ Ruined Packer —
 Final Flow 45 ☐ Extra Recorder — ☐ Extra Copies 0
 Final Shut-In 60 ☐ Day Standby — Sub Total 1765
☐ Accessibility — Total 1765
 Sub Total 1765 MP/DST Disc't —

Approved By Rusty

Our Representative [Signature]

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61455**

Well Name & No. Koch Unit #3-10 Test No. #3 Date 1/6/15
Company K3 Oil & Gas Elevation 3038 KB 3026 GL
Address 211 Highland Cross SW 250 Houston TX 77073
Co. Rep / Geol. John Decker / Rusty Rig Duke #1
Location: Sec. 3 Twp. 20 Rge. 34 Co. Scott State KS

Interval Tested 4274 4318 Zone Tested R
Anchor Length 44 Drill Pipe Run 4260 Mud Wt. 9.3
Top Packer Depth 4269 Drill Collars Run — Vis 68
Bottom Packer Depth 4274 Wt. Pipe Run — WL 4.8
Total Depth 4318 Chlorides 8000 ppm System LCM #1

Blow Description B.O.B. @ open
No return
B.O.B. in 1 m.w
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>m.c.w</u>		<u>60</u>	<u>40</u>	
<u>60</u>	<u>5 m.c.w</u>		<u>80</u>	<u>10</u>	
<u>1860</u>	<u>Water (Reversed out)</u>		<u>100</u>		
<u>120'</u>	<u>(under Circ Sub) Water</u>		<u>100</u>		

Rec Total 2130' BHT 112° Gravity — API RW .20° @ 74° F Chlorides 27000 ppm
(A) Initial Hydrostatic 2185 ☒ Test 1150 T-On Location 20:00
(B) First Initial Flow 519 ☐ Jars T-Started 21:20
(C) First Final Flow 618 ☐ Safety Joint T-Open 23:41
(D) Initial Shut-In 1118 ☒ Circ Sup 50 T-Pulled 01:46
(E) Second Initial Flow 643 ☐ Hourly Standby T-Out 05:20
(F) Second Final Flow 1033 ☒ Mileage 40 RT 40
(G) Final Shut-In 1111 ☐ Sampler
(H) Final Hydrostatic 2034 ☐ Straddle

Initial Open 5
Initial Shut-In 30
Final Flow 30
Final Shut-In 60

☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1490

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1490

Approved By Rusty

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61456

Well Name & No. Roach Unit #3-10 Test No. #4 Date 1/7/15
 Company K3 O.I. & Gas Elevation 3038 KB 3024 GL
 Address 211 Highland Cross, Suite 250 Houston, TX 77073
 Co. Rep / Geo Pat Deenihan / Rusty Rig Duke #1
 Location: Sec. 5 Twp. 20 Rge. 34 Co. Scott State Ks

Interval Tested 1463 4508 Zone Tested Marmaton
 Anchor Length 45 Drill Pipe Run 4448 Mud Wt. 9.1
 Top Packer Depth 4458 Drill Collars Run — Vis —
 Bottom Packer Depth 4463 Wt. Pipe Run — WL 8.0
 Total Depth 4508 Chlorides 11,000 ppm System LCM 1 1/2
 Blow Description B.O.B. in 2 1/2 min
Restart to B.O.B. in 9 min.
B.O.B. @ open

Rec	Feet of	%gas	%oil	%water	%mud
30	Cgo	20	80		
840	Cgo	25	75		
120	gmcu (under Circ Sub)	25	45		30
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 990' BHT 115° Gravity 31 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic	<u>2229</u>	☒ Test	<u>1150</u>	T-On Location	<u>08:00</u>
(B) First Initial Flow	<u>70</u>	☐ Jars		T-Started	<u>08:45</u>
(C) First Final Flow	<u>63</u>	☐ Safety Joint		T-Open	<u>10:50</u>
(D) Initial Shut-In	<u>832</u>	☒ Circ Sub	<u>450°</u> 50	T-Pulled	<u>12:55</u>
(E) Second Initial Flow	<u>147</u>	☐ Hourly Standby		T-Out	<u>16:45</u>
(F) Second Final Flow	<u>220</u>	☒ Mileage	<u>40.25</u> 40	Comments	
(G) Final Shut-In	<u>371</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2173</u>	☐ Straddle			

Initial Open 5
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In LeO

☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

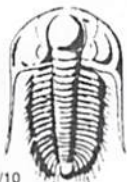
Sub Total 1490

MP/DST Disc't —

Total 1490

Approved By _____ Our Representative [Signature]

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61457**

Well Name & No. Keehn Unit # 3-10 Test No. #5 Date 1/8/15
 Company K3 Oil & Gas Elevation 3038 KB 3026 GL
 Address 211 Highland Cross, Suite 250 Houston, TX 77013
 Co. Rep / Geo. Pete Deenihan / Rusty Rig Duke #1
 Location: Sec. 3 Twp. 20 Rge. 34 Co. Scott State Ks

Interval Tested 4520 4558 Zone Tested Pawnee, Myrick Station
 Anchor Length 38 Drill Pipe Run 4513' Mud Wt. 9.1
 Top Packer Depth 4515 Drill Collars Run — Vis 55
 Bottom Packer Depth 4520 Wt. Pipe Run — WL 8.0
 Total Depth 4558 Chlorides 11,000 ppm System LCM #1 1/2

Blow Description 1/2" blow died back to a weak surface blow
No return

No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 106° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2302</u>	☒ Test <u>1150</u>	T-On Location <u>04:35</u>
(B) First Initial Flow <u>29</u>	☐ Jars	T-Started <u>05:05</u>
(C) First Final Flow <u>30</u>	☐ Safety Joint	T-Open <u>08:20</u>
(D) Initial Shut-In <u>38</u>	☒ Circ Sub <u>n/c</u>	T-Pulled <u>10:05</u>
(E) Second Initial Flow <u>32</u>	☐ Hourly Standby	T-Out <u>12:35</u>
(F) Second Final Flow <u>34</u>	☒ Mileage <u>40 RT 40</u>	Comments
(G) Final Shut-In <u>40</u>	☐ Sampler	
(H) Final Hydrostatic <u>2227</u>	☐ Straddle	

Initial Open <u>15</u>	☒ Shale Packer <u>250</u>	☐ Ruined Shale Packer
Initial Shut-In <u>30</u>	☐ Extra Packer	☐ Ruined Packer
Final Flow <u>30</u>	☐ Extra Recorder	☐ Extra Copies
Final Shut-In <u>30</u>	☐ Day Standby	Sub Total <u>0</u>
	☐ Accessibility	Total <u>1440</u>
	Sub Total <u>1440</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61458

Well Name & No. Loehn Unit #3-10 Test No. #6 Date 1/9/15
 Company H3 OIL & GAS Elevation 3038 KB 3026 GL
 Address 211 Highland Cross, Suite 250 Houston, TX 77073
 Co. Rep / Geol Pat Deenihan / Rusty Rig Dub #1
 Location: Sec. 3 Twp. 20 Rge. 34 Co. Scott State KS

Interval Tested 4602 4656 Zone Tested Cherokee, Johnson
 Anchor Length 54 Drill Pipe Run 4607 Mud Wt. 9.2
 Top Packer Depth 4597 Drill Collars Run — Vis 60
 Bottom Packer Depth 4602 Wt. Pipe Run — WL 8.0
 Total Depth 4654 Chlorides 12,000 ppm System LCM #1 1/2
 Blow Description 3/4" blow died back to a surface blow
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
25'	(Heavy Thick Mud)			100%	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25' BHT 108° Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 2331 ☒ Test 1150 T-On Location 05:20
 (B) First Initial Flow 24 ☐ Jars — T-Started 05:25
 (C) First Final Flow 27 ☐ Safety Joint — T-Open 10:05
 (D) Initial Shut-In 997 ☒ Circ Sub N/C T-Pulled 11:50
 (E) Second Initial Flow 54 ☐ Hourly Standby — T-Out 14:45
 (F) Second Final Flow 31 ☒ Mileage 40 40 +40 Comments Released @
 (G) Final Shut-In 949 ☐ Sampler — 23:00 on 1/10/14
 (H) Final Hydrostatic 2310 ☐ Straddle — Loaded tools

☐ Ruined Shale Packer —
☐ Ruined Packer —
☐ Extra Copies 0
 Initial Open 15 ☒ Shale Packer 250 Sub Total 0
☐ Extra Packer — Total 1480
☐ Extra Recorder — MP/DST Disc't —
☐ Day Standby — Sub Total 1480
☐ Accessibility —

Approved By — Our Representative [Signature]

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