

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC.**

113 W Main
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Sides/Anna Unit #1-3

Start Date: 2011.04.11 @ 19:27:00

End Date: 2011.04.12 @ 03:03:00

Job Ticket #: 041986 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC.

113 W Main
Logan, KS 67646

ATTN: Richard Bell

Sides/Anna Unit #1-3

3-4s-21w Norton, KS

Job Ticket: 041986

DST#: 1

Test Start: 2011.04.11 @ 19:27:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:18:00

Time Test Ended: 03:03:00

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 46

Interval: **3449.00 ft (KB) To 3472.00 ft (KB) (TVD)**

Total Depth: 3472.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2225.00 ft (KB)

2216.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8366

Inside

Press@RunDepth: 133.44 psig @ 3450.00 ft (KB)

Start Date: 2011.04.11

End Date:

2011.04.12

Start Time: 19:27:05

End Time:

03:02:59

Capacity:

8000.00 psig

Last Calib.:

2011.04.12

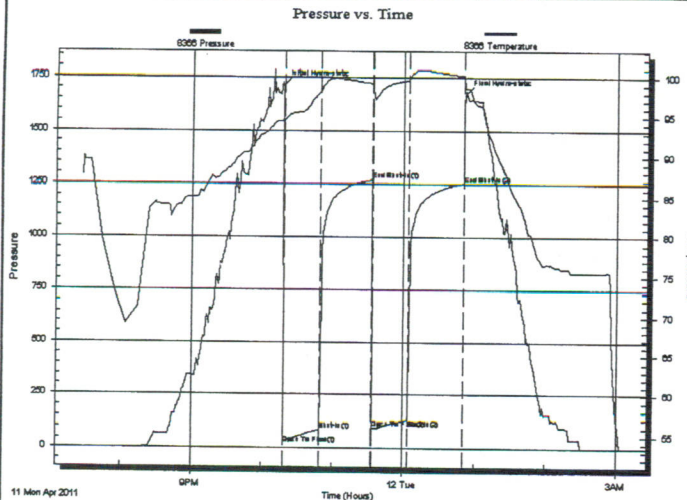
Time On Btm:

2011.04.11 @ 22:17:30

Time Off Btm:

2011.04.12 @ 00:52:00

TEST COMMENT: IF:BOB in 7 1/2 Min.
IS: Return built to 2"
FF: BOB in 6 3/4 Min
FS: Return built to 7"



PRESSURE SUMMARY

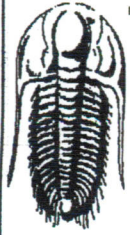
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.70	94.96	Initial Hydro-static
1	19.90	94.51	Open To Flow (1)
31	86.68	98.14	Shut-In(1)
76	1267.92	99.24	End Shut-In(1)
77	95.34	98.59	Open To Flow (2)
106	133.44	99.61	Shut-In(2)
153	1250.84	100.15	End Shut-In(2)
155	1675.41	98.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	GMCO 20M 30G 50o	0.60
101.00	Clean Gassy Oil 25G 75o	1.42
0.00	682' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041986

DST#: 1

ATTN: Richard Bell

Test Start: 2011.04.11 @ 19:27:00

Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.80 inches	Volume: 46.64 bbl	Tool Weight: 2000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 47.23 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3449.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3434.00	
Hydraulic tool	5.00			3439.00	
Packer	5.00			3444.00	20.00 Bottom Of Top Packer
Packer	5.00			3449.00	
Stubb	1.00			3450.00	
Recorder	0.00	8366	Inside	3450.00	
Recorder	0.00	8320	Outside	3450.00	
Perforations	19.00			3469.00	
Bullnose	3.00			3472.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041986 DST#: 1

ATTN: Richard Bell

Test Start: 2011.04.11 @ 19:27:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 6.38 in³
Resistivity: 0.00 ohm.m
Salinity: 1800.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

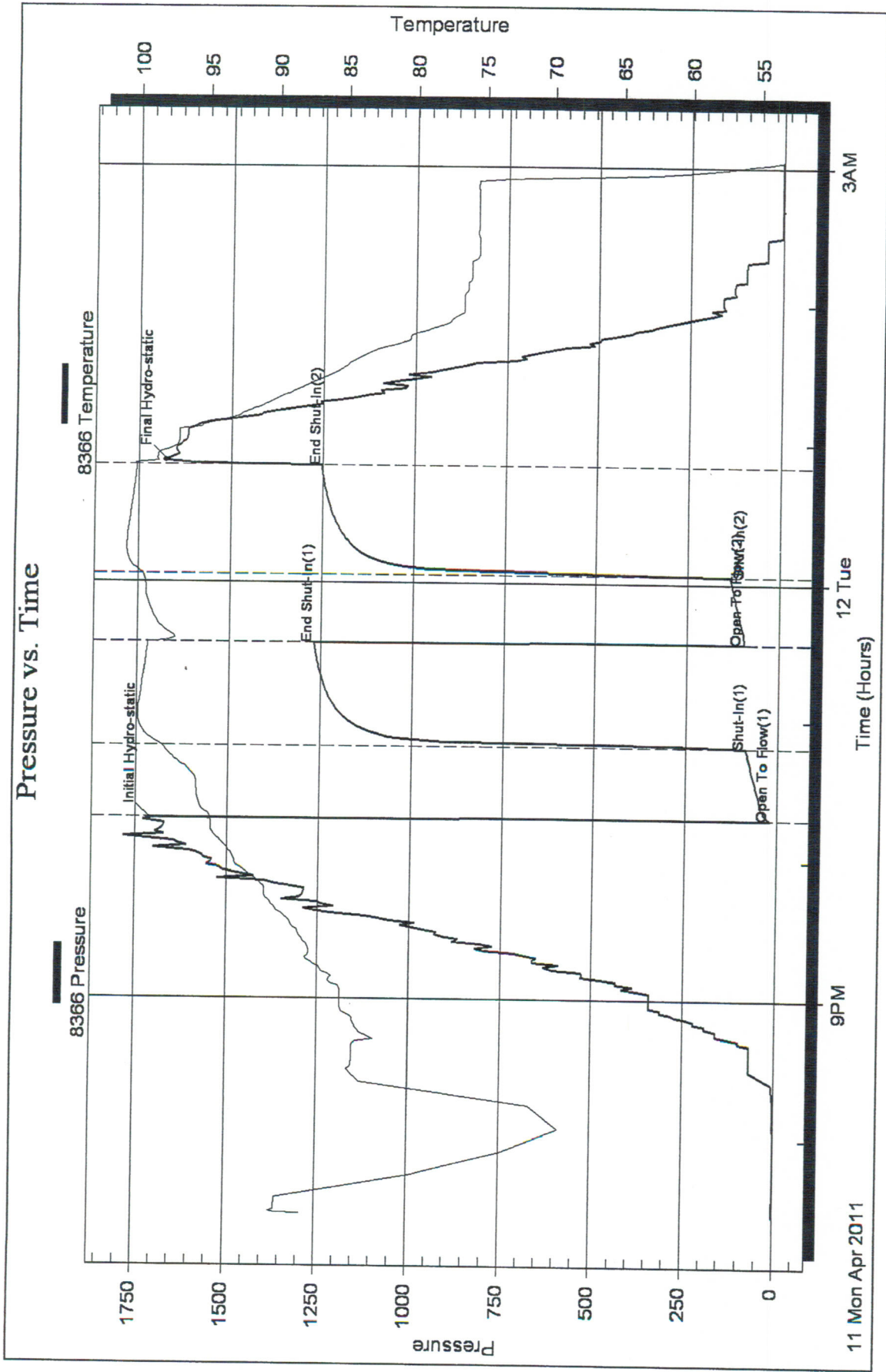
Length ft	Description	Volume bbl
121.00	GMCO 20M 30G 50o	0.604
101.00	Clean Gassy Oil 25G 75o	1.417
0.00	682' GIP	0.000

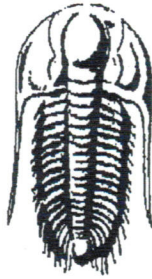
Total Length: 222.00 ft Total Volume: 2.021 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Oil API 38 @ 40 Degrees= 40





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DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC.**

113 W Main
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Sides/Anna Unit #1-3

Start Date: 2011.04.12 @ 09:14:00

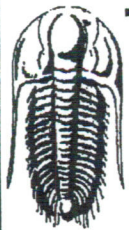
End Date: 2011.04.12 @ 14:45:30

Job Ticket #: 041987 DST #: 2

Trilobite Testing, Inc

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DRILL STEM TEST REPORT

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041987 DST#: 2

ATTN: Richard Bell

Test Start: 2011.04.12 @ 09:14:00

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 10:35:00
 Time Test Ended: 14:45:30

Test Type: **Conventional Bottom Hole**
 Tester: **Kevin Mack**
 Unit No: **46**

Interval: **3477.00 ft (KB) To 3502.00 ft (KB) (TVD)**
 Total Depth: **3502.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2225.00 ft (KB)**
2216.00 ft (CF)
 KB to GRV/CF: **9.00 ft**

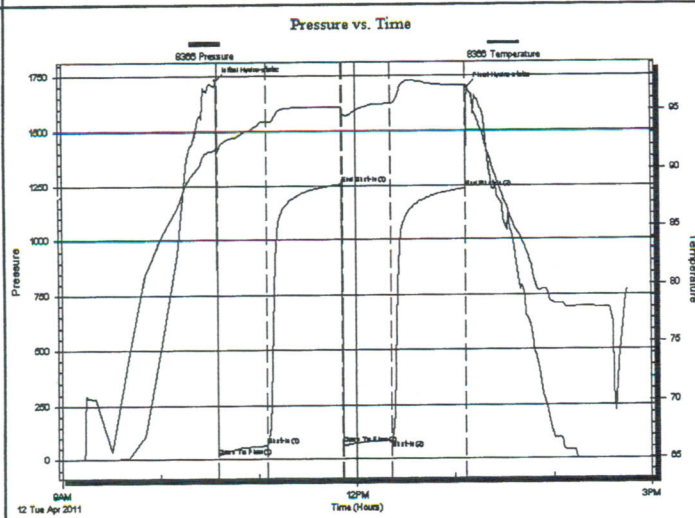
Serial #: 8366

Inside

Press@RunDepth: **88.85 psig @ 3478.00 ft (KB)**
 Start Date: **2011.04.12** End Date: **2011.04.12**
 Start Time: **09:14:05** End Time: **14:45:29**

Capacity: **8000.00 psig**
 Last Calib.: **2011.04.12**
 Time On Btm: **2011.04.12 @ 10:34:30**
 Time Off Btm: **2011.04.12 @ 13:08:00**

TEST COMMENT: IF: BOB in 19 min.
 IS: Surface return started @ 3 min. Did not build or die
 FF: BOB in 11 min.
 FS: Surface return started @ 1 1/2 min. Built to 1"



PRESSURE SUMMARY

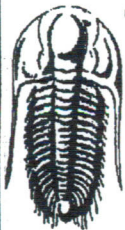
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.86	91.86	Initial Hydro-static
1	16.28	91.43	Open To Flow (1)
31	64.54	93.89	Shut-In(1)
77	1255.38	95.19	End Shut-In(1)
77	68.58	94.72	Open To Flow (2)
107	88.85	95.53	Shut-In(2)
152	1234.95	97.11	End Shut-In(2)
154	1696.87	96.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 30G 50o 20M	0.30
60.00	GMCO 50G 40o 10M	0.30
62.00	GMCO 20G 70o 10M	0.87
31.00	MCO 75o 25M	0.43

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041987

DST#: 2

ATTN: Richard Bell

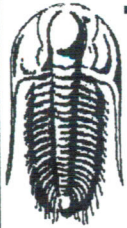
Test Start: 2011.04.12 @ 09:14:00

Tool Information

Drill Pipe:	Length: 3354.00 ft	Diameter: 3.80 inches	Volume: 47.05 bbl	Tool Weight: 2000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3477.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3462.00	
Hydraulic tool	5.00			3467.00	
Packer	5.00			3472.00	20.00 Bottom Of Top Packer
Packer	5.00			3477.00	
Stubb	1.00			3478.00	
Recorder	0.00	8366	Inside	3478.00	
Recorder	0.00	8320	Outside	3478.00	
Perforations	21.00			3499.00	
Bullnose	3.00			3502.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041987 **DST#: 2**

ATTN: Richard Bell

Test Start: 2011.04.12 @ 09:14:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GMCO 30G 50o 20M	0.295
60.00	GMCO 50G 40o 10M	0.295
62.00	GMCO 20G 70o 10M	0.870
31.00	MCO 75o 25M	0.435

Total Length: 213.00 ft Total Volume: 1.895 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

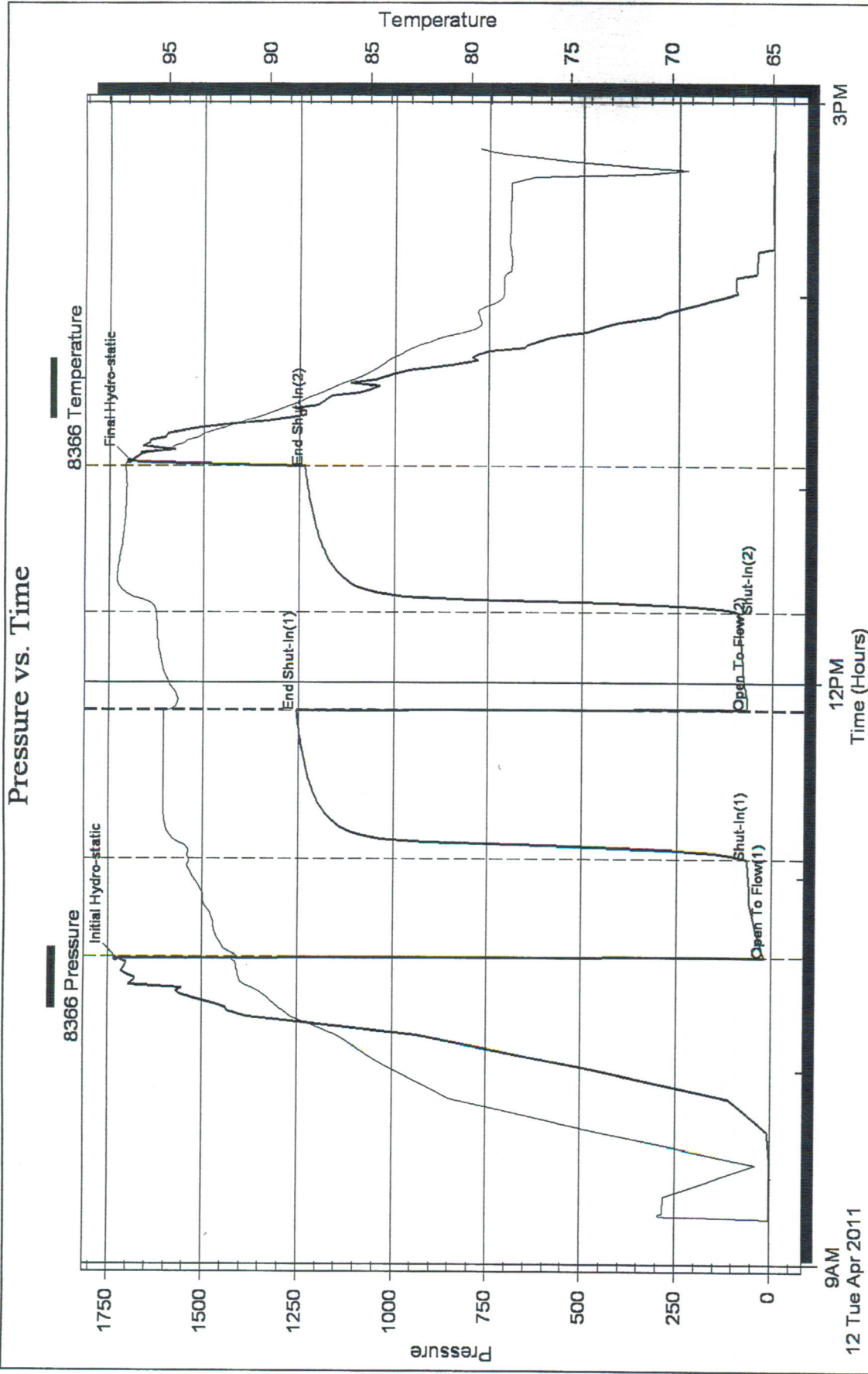
Serial #:

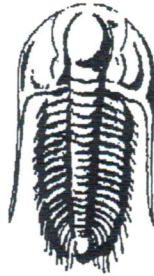
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Prepared For: **Baird Oil Company, LLC.**

113 W Main
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Sides/Anna Unit #1-3

Start Date: 2011.04.12 @ 21:35:09

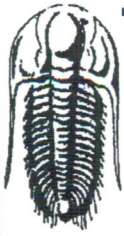
End Date: 2011.04.14 @ 21:12:04

Job Ticket #: 041988 DST #: 3

Trilobite Testing, Inc

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC.

113 W Main
Logan, KS 67646

ATTN: Richard Bell

Sides/Anna Unit #1-3

3-4s-21w Norton, KS

Job Ticket: 041988

DST#: 3

Test Start: 2011.04.12 @ 21:35:09

GENERAL INFORMATION:

Formation: LKC "D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:43:04

Time Test Ended: 21:12:04

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 46

Interval: 3497.00 ft (KB) To 3515.00 ft (KB) (TVD)

Total Depth: 3535.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2225.00 ft (KB)

2216.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8366

Inside

Press@RunDepth: 822.36 psig @ 3498.00 ft (KB)

Start Date: 2011.04.12

End Date:

2011.04.14

Capacity: 8000.00 psig

Last Calib.: 2011.04.14

Start Time: 21:35:09

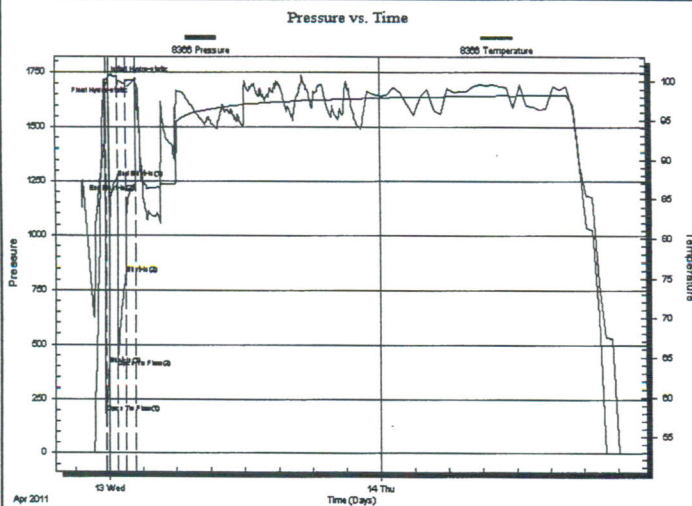
End Time:

21:12:04

Time On Btm: 2011.04.12 @ 23:40:34

Time Off Btm: 2011.04.13 @ 02:21:34

TEST COMMENT: IF: BOB in 45 seconds
IS: BOB in 19 minutes
FF: BOB in 90 seconds
FS: BOB in 43 minutes



PRESSURE SUMMARY

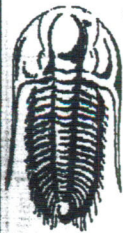
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.78	92.00	Initial Hydro-static
3	185.29	91.55	Open To Flow (1)
19	403.17	99.93	Shut-In(1)
65	1266.42	100.56	End Shut-In(1)
66	429.63	99.71	Open To Flow (2)
110	822.36	99.61	Shut-In(2)
160	1235.97	99.95	End Shut-In(2)
161	1717.92	99.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2400.00	oil	32.57

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041988 DST#: 3

ATTN: Richard Bell

Test Start: 2011.04.12 @ 21:35:09

Tool Information

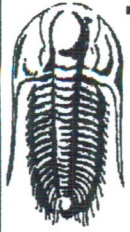
Drill Pipe:	Length: 3387.00 ft	Diameter: 3.80 inches	Volume: 47.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 48.10 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3497.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Elevators came open after reversing fluid, lost tool down hole. recovered tool but anchor broke leaving 8' in hole

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3482.00	
Hydraulic tool	5.00			3487.00	
Packer	5.00			3492.00	20.00 Bottom Of Top Packer
Packer	5.00			3497.00	
Stubb	1.00			3498.00	
Recorder	0.00	8366	Inside	3498.00	
Recorder	0.00	8320	Outside	3498.00	
Perforations	14.00			3512.00	
Bullnose	3.00			3515.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC:

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 041988 DST#: 3

ATTN: Richard Bell

Test Start: 2011.04.12 @ 21:35:09

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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2400.00	oil	32.573

Total Length: 2400.00 ft Total Volume: 32.573 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: reversed into water truck

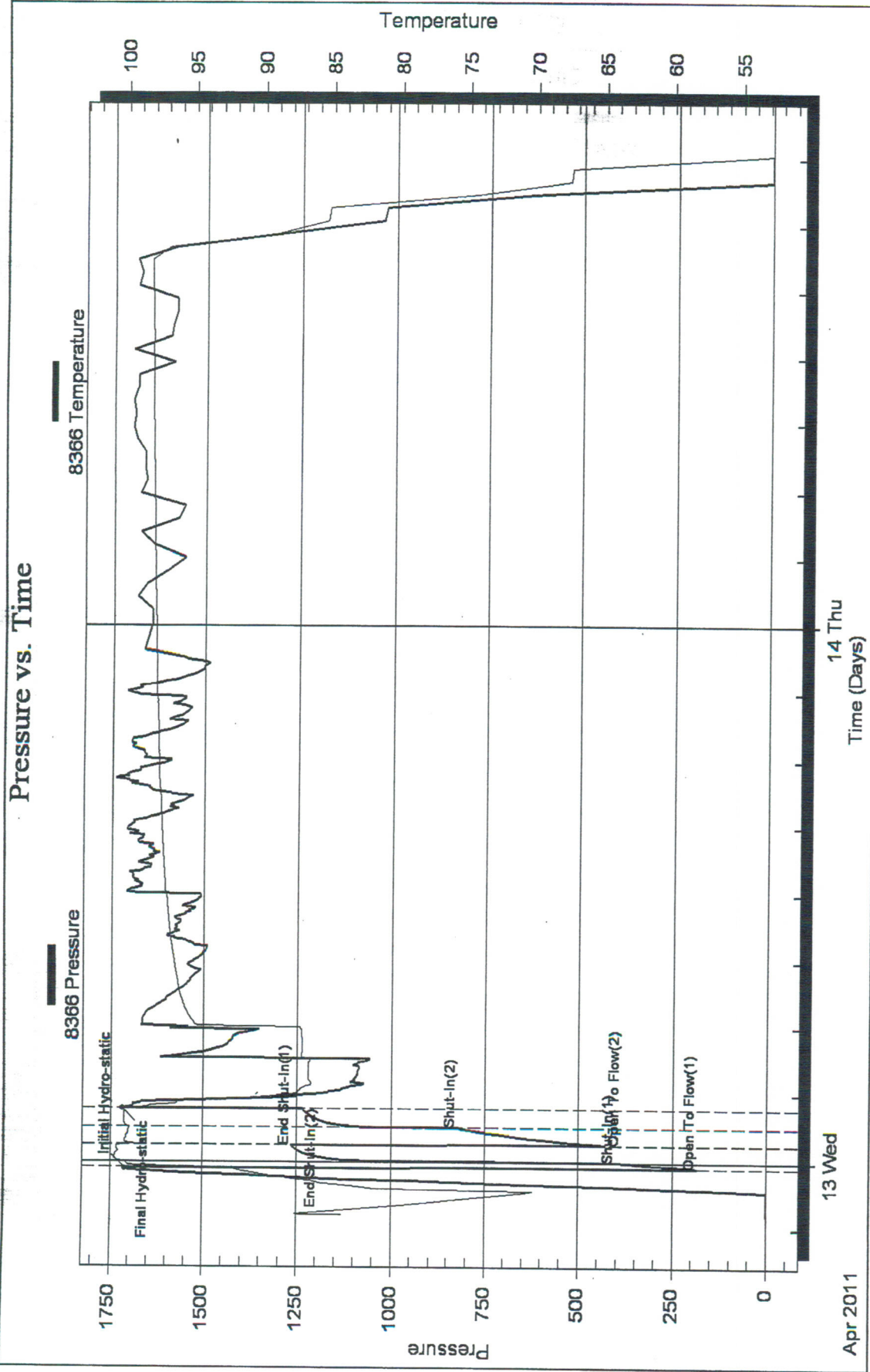
Serial #: 8366

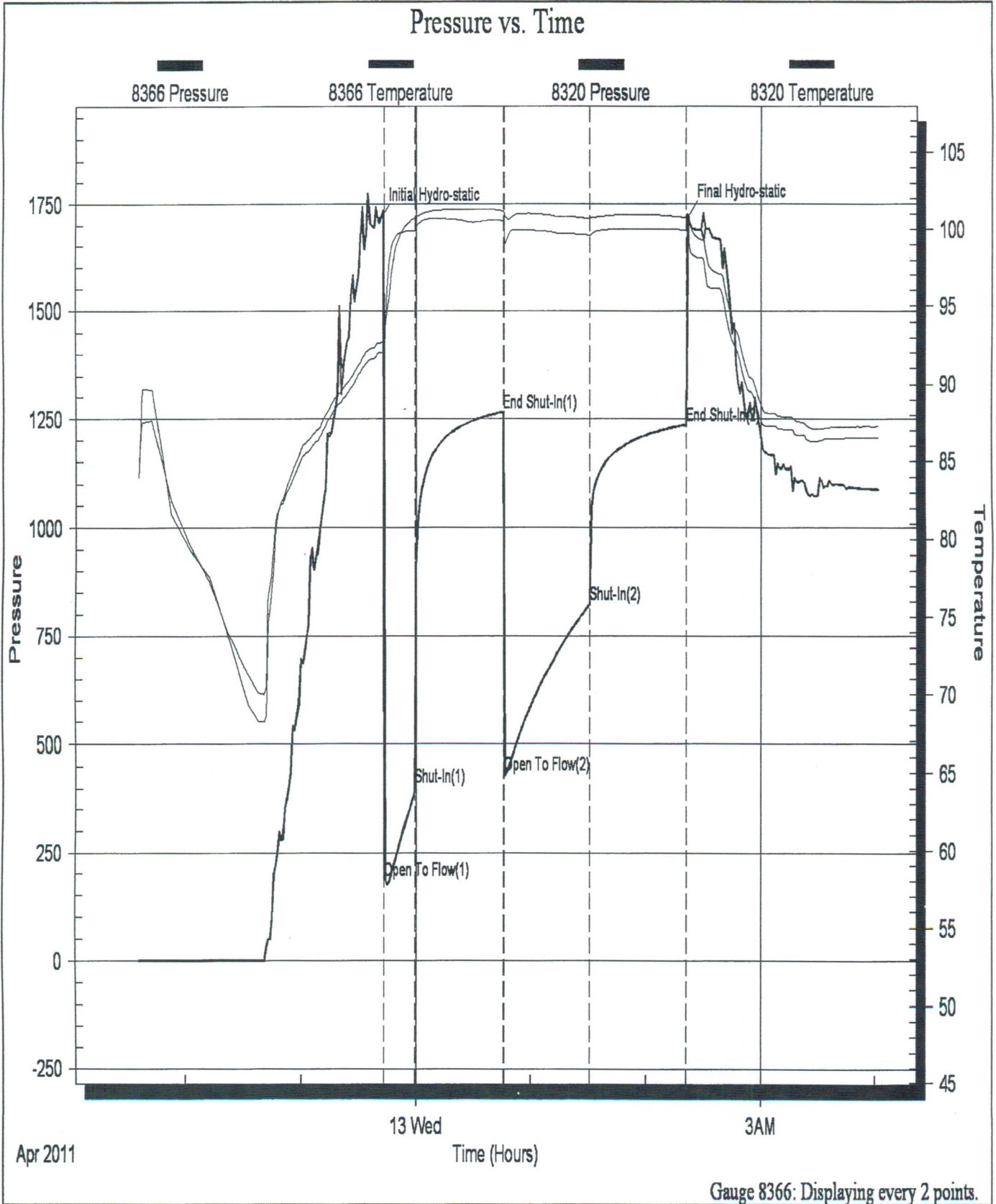
Inside Baird Oil Company, LLC.

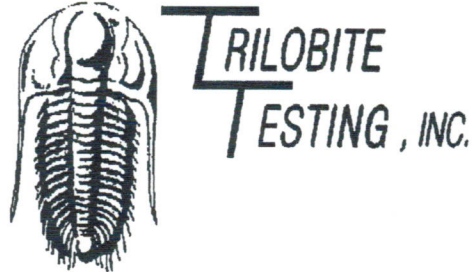
3-4s-21w Norton, KS

DST Test Number: 3

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC.**

113 W Main
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Sides/Anna Unit #1-3

Start Date: 2011.04.16 @ 13:07:25

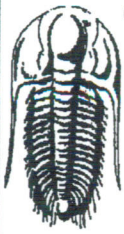
End Date: 2011.04.16 @ 19:04:55

Job Ticket #: 42579 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Baird Oil Company, LLC.

113 W Main
Logan, KS 67646

ATTN: Richard Bell

Sides/Anna Unit #1-3

3-4s-21w Norton, KS

Job Ticket: 42579

DST#: 4

Test Start: 2011.04.16 @ 13:07:25

GENERAL INFORMATION:

Formation: LKC "F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:48:55

Time Test Ended: 19:04:55

Test Type: Conventional Bottom Hole

Tester: Cody Bloedorn

Unit No: 38

Interval: 3511.00 ft (KB) To 3535.00 ft (KB) (TVD)

Total Depth: 3535.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2225.00 ft (KB)

2216.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8520 Outside

Press@RunDepth: 174.34 psig @ 3512.00 ft (KB)

Start Date: 2011.04.16

End Date:

2011.04.16

Capacity: 8000.00 psig

Last Calib.: 2011.04.16

Start Time: 13:07:26

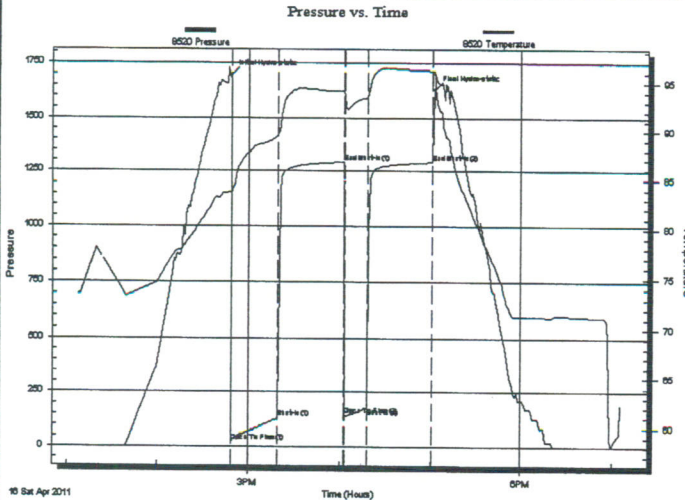
End Time:

19:04:55

Time On Btm: 2011.04.16 @ 14:48:25

Time Off Btm: 2011.04.16 @ 17:02:25

TEST COMMENT: IF- B.O.B.- 7 Min
ISL- 8"- 45 Min.
FF- B.O.B.- 30 Sec.
FSL- blew 2"- 45 Min.



PRESSURE SUMMARY

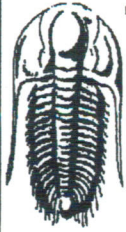
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.78	83.78	Initial Hydro-static
1	24.54	83.73	Open To Flow (1)
31	130.62	89.57	Shut-In(1)
74	1291.82	94.18	End Shut-In(1)
75	142.35	93.73	Open To Flow (2)
90	174.34	93.44	Shut-In(2)
133	1290.57	96.15	End Shut-In(2)
134	1631.85	95.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	GO 80%O, 20%G	4.96
15.00	GOCM 60%M, 20%G, 20%O	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

Job Ticket: 42579

DST#: 4

ATTN: Richard Bell

Test Start: 2011.04.16 @ 13:07:25

Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 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: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 48.06 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3511.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			3484.00	
Shut In Tool	5.00			3489.00	
Hydraulic tool	5.00			3494.00	
Jars	5.00			3499.00	
Safety Joint	3.00			3502.00	
Packer	5.00			3507.00	28.00 Bottom Of Top Packer
Packer	4.00			3511.00	
Stubb	1.00			3512.00	
Recorder	0.00	8354	Inside	3512.00	
Recorder	0.00	8520	Outside	3512.00	
Perforations	20.00			3532.00	
Bullnose	3.00			3535.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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3-4s-21w Norton, KS

Job Ticket: 42579

DST#: 4

ATTN: Richard Bell

Test Start: 2011.04.16 @ 13:07:25

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: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Lcss: in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	GO 80%O, 20%G	4.958
15.00	GOCM 60%M, 20%G, 20%O	0.210

Total Length: 449.00 ft Total Volume: 5.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

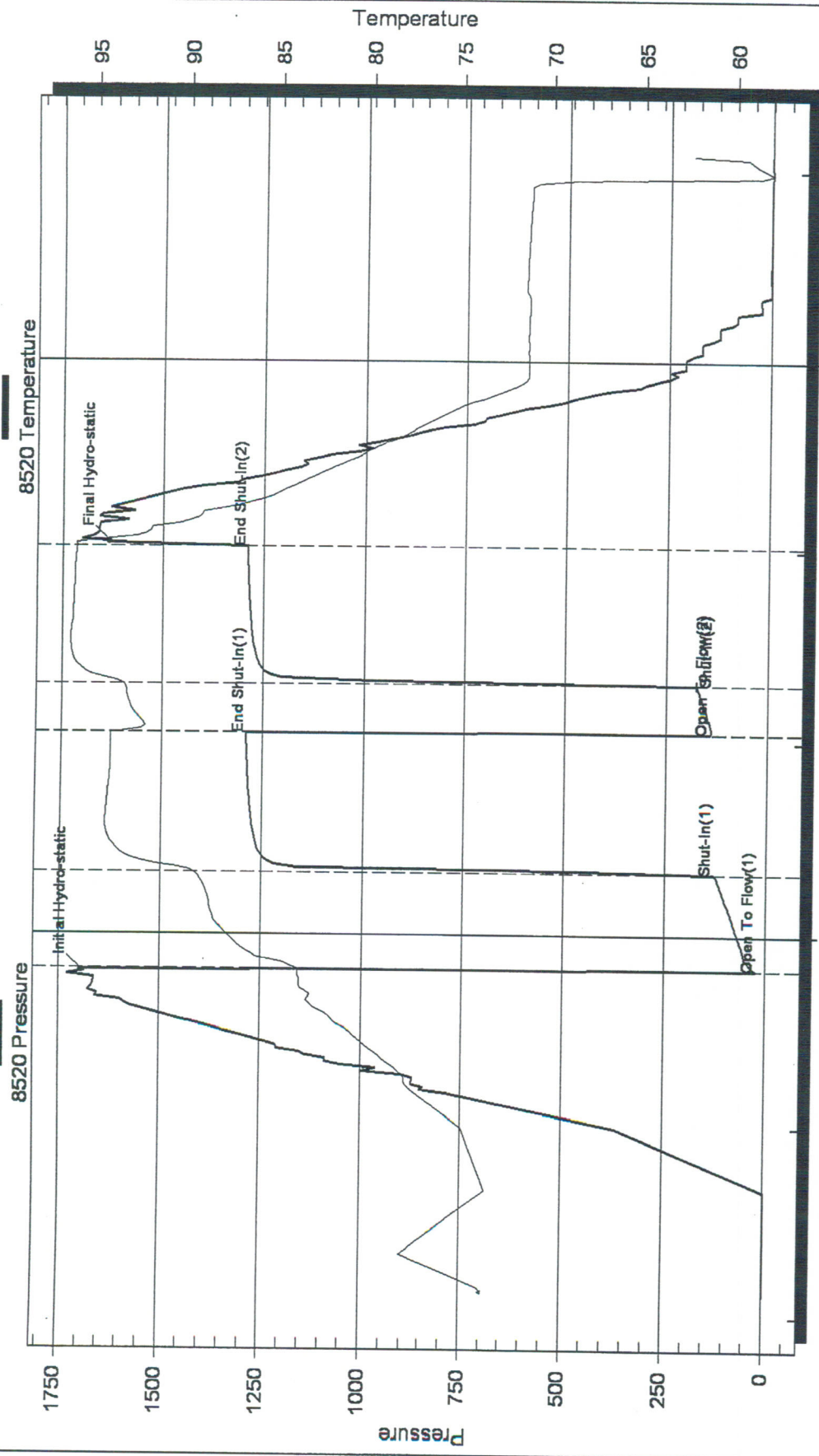
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

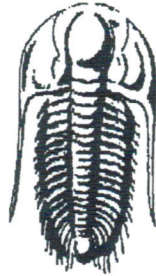


16 Sat Apr 2011

3PM

6PM

Time (Hours)



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC.**

113 W Main
Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

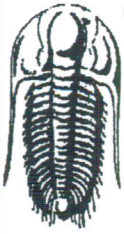
Sides/Anna Unit #1-3

Start Date: 2011.04.17 @ 00:36:25

End Date: 2011.04.17 @ 07:54:25

Job Ticket #: 42580 DST #: 5

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Company, LLC.

Sides/Anna Unit #1-3

113 W Main
Logan, KS 67646

3-4s-21w Norton, KS

ATTN: Richard Bell

Job Ticket: 42580

DST#: 5

Test Start: 2011.04.17 @ 00:36:25

GENERAL INFORMATION:

Formation: **LKC "G"**

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

Time Tool Opened: **03:21:25**

Time Test Ended: **07:54:25**

Test Type: **Conventional Bottom Hole**

Tester: **Cody Bloedorn**

Unit No: **38**

Interval: **3535.00 ft (KB) To 3550.00 ft (KB) (TVD)**

Total Depth: **3550.00 ft (KB) (TVD)**

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

Reference Elevations: **2225.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 8520

Outside

Press@RunDepth: **104.72 psig @ 3537.00 ft (KB)**

Start Date: **2011.04.17**

End Date:

2011.04.17

Start Time: **00:36:26**

End Time:

07:54:25

Capacity: **8000.00 psig**

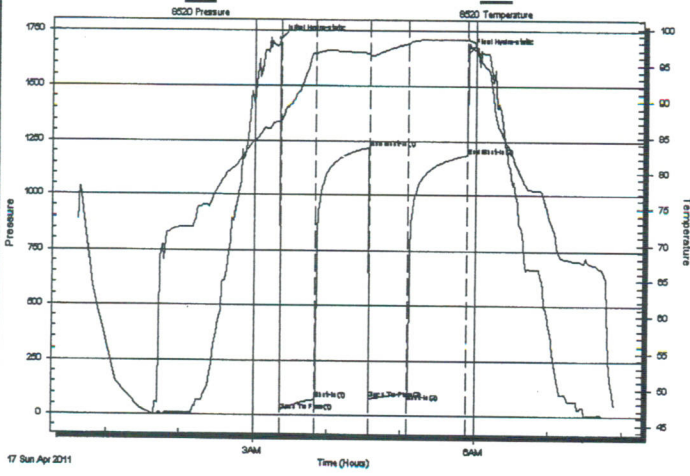
Last Calib.: **2011.04.17**

Time On Btm: **2011.04.17 @ 03:20:55**

Time Off Btm: **2011.04.17 @ 05:53:55**

TEST COMMENT: IF-6 1/2" - 30 Min
ISI- Surface Blow
FF- 5" - 30 Min.
FSI- Surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.74	87.21	Initial Hydro-static
1	19.29	87.09	Open To Flow (1)
30	72.03	96.49	Shut-In(1)
73	1220.24	96.60	End Shut-In(1)
74	77.10	96.37	Open To Flow (2)
105	104.72	97.90	Shut-In(2)
153	1185.82	98.46	End Shut-In(2)
153	1651.50	98.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MCO 60%M, 30%W, 10%O	1.48
30.00	Free oil	0.42

Gas Rates

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



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Job Ticket: 42580

DST#: 5

ATTN: Richard Bell

Test Start: 2011.04.17 @ 00:36:25

Tool Information

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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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 48.54 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3535.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 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			3508.00	
Shut In Tool	5.00			3513.00	
Hydraulic tool	5.00			3518.00	
Jars	5.00			3523.00	
Safety Joint	3.00			3526.00	
Packer	5.00			3531.00	28.00 Bottom Of Top Packer
Packer	4.00			3535.00	
Stubb	1.00			3536.00	
Perforations	1.00			3537.00	
Recorder	0.00	8354	Inside	3537.00	
Recorder	0.00	8520	Outside	3537.00	
Perforations	10.00			3547.00	
Bullnose	3.00			3550.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



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Job Ticket: 42580 DST#: 5

ATTN: Richard Bell

Test Start: 2011.04.17 @ 00:36:25

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 22 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MCO 60%M, 30%W, 10%O	1.480
30.00	Free oil	0.421

Total Length: 216.00 ft Total Volume: 1.901 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

