TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum**

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

Eberhardt #2-24

24-17s -17w Rush,KS

Start Date: 2014.09.28 @ 02:49:00
End Date: 2014.09.28 @ 14:46:00
Job Ticket #: 60537 DST #: 1

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

Printed: 2014.10.02 @ 10:17:40

DRILL STEM TEST REPORT

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60537 **DST#: 1**

Test Start: 2014.09.28 @ 02:49:00

GENERAL INFORMATION:

Formation: **LKC "I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:00
Time Test Ended: 14:46:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 72

Interval: 3464.00 ft (KB) To 3500.00 ft (KB) (TVD)
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

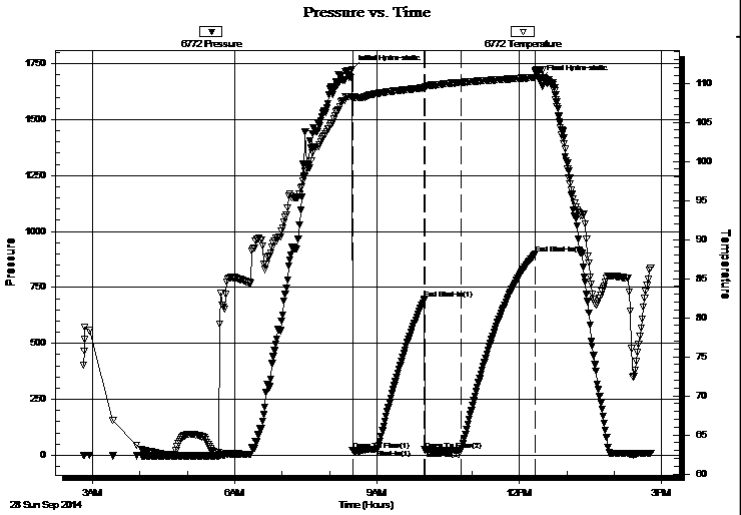
Reference Elevations: 2062.00 ft (KB)
2049.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6772 **Outside**

Press@RunDepth: 22.05 psig @ 3467.00 ft (KB)
Start Date: 2014.09.28 End Date: 2014.09.28
Start Time: 02:49:05 End Time: 14:46:00

Capacity: 8000.00 psig
Last Calib.: 2014.09.28
Time On Btm: 2014.09.28 @ 08:28:00
Time Off Btm: 2014.09.28 @ 12:26:00

TEST COMMENT: I.F. - 30 - BOB in 8 1/2 min
I.S.I. - 60 - No blow back
F.F. - 45 - BOB in 7 min
F.S.I. - 90 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.87	108.31	Initial Hydro-static
1	21.18	107.96	Open To Flow (1)
32	28.03	108.69	Shut-In(1)
92	696.95	109.41	End Shut-In(1)
93	23.98	109.37	Open To Flow (2)
138	22.05	110.09	Shut-In(2)
232	898.34	110.74	End Shut-In(2)
238	1679.79	111.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M, 100%	0.21
0.00	234' G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60537 **DST#: 1**

Test Start: 2014.09.28 @ 02:49:00

GENERAL INFORMATION:

Formation: **LKC "I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:00
Time Test Ended: 14:46:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 72

Interval: 3464.00 ft (KB) To 3500.00 ft (KB) (TVD)
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

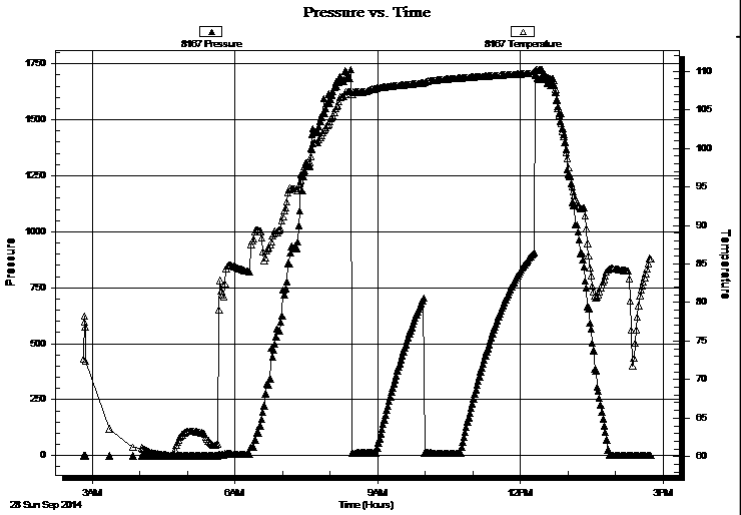
Reference Elevations: 2062.00 ft (KB)
2049.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8167 **Outside**

Press@RunDepth: psig @ 3467.00 ft (KB)
Start Date: 2014.09.28 End Date: 2014.09.28
Start Time: 02:49:05 End Time: 14:44:52

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: I.F. - 30 - BOB in 8 1/2 min
I.S.I. - 60 - No blow back
F.F. - 45 - BOB in 7 min
F.S.I. - 90 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M, 100%	0.21
0.00	234' G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60537 **DST#: 1**

Test Start: 2014.09.28 @ 02:49:00

Tool Information

Drill Pipe:	Length:	3469.00 ft	Diameter:	3.80 inches	Volume:	48.66 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:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		52000.00 lb
					Total Volume:	48.66 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		33.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3464.00 ft						Final	47000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		36.00 ft							
Tool Length:		64.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3437.00		
Shut In Tool	5.00			3442.00		
Hydraulic tool	5.00			3447.00		
Jars	5.00			3452.00		
Safety Joint	3.00			3455.00		
Packer	5.00			3460.00	28.00	Bottom Of Top Packer
Packer	4.00			3464.00		
Stubb	1.00			3465.00		
Perforations	2.00			3467.00		
Recorder	0.00	6772	Outside	3467.00		
Recorder	0.00	8167	Outside	3467.00		
Perforations	30.00			3497.00		
Bullnose	3.00			3500.00	36.00	Bottom Packers & Anchor
Total Tool Length:	**64.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60537 **DST#: 1**

Test Start: 2014.09.28 @ 02:49:00

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.17 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

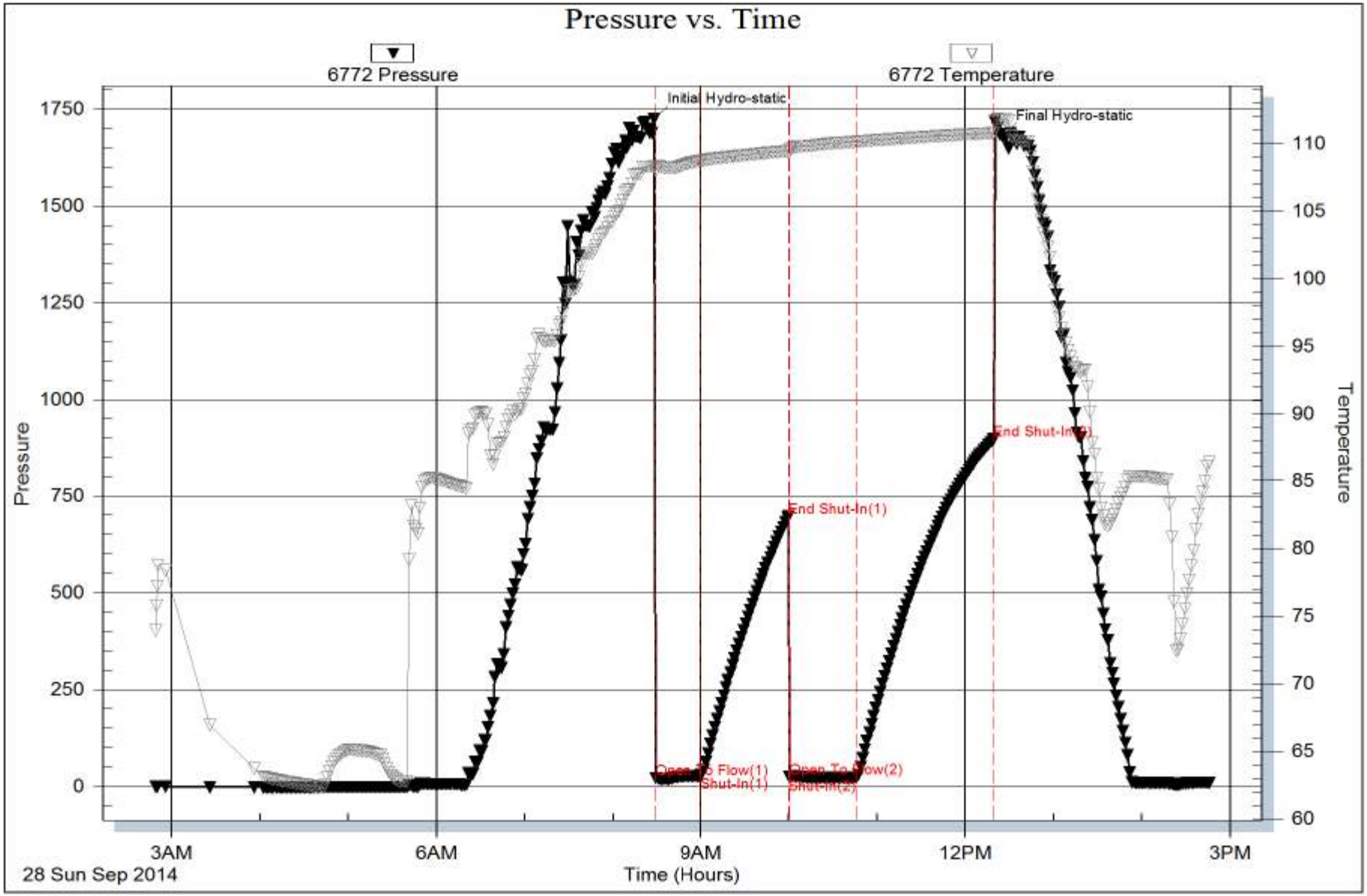
Recovery Table

Length ft	Description	Volume bbl
15.00	M, 100%	0.210
0.00	234' G.I.P.	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl

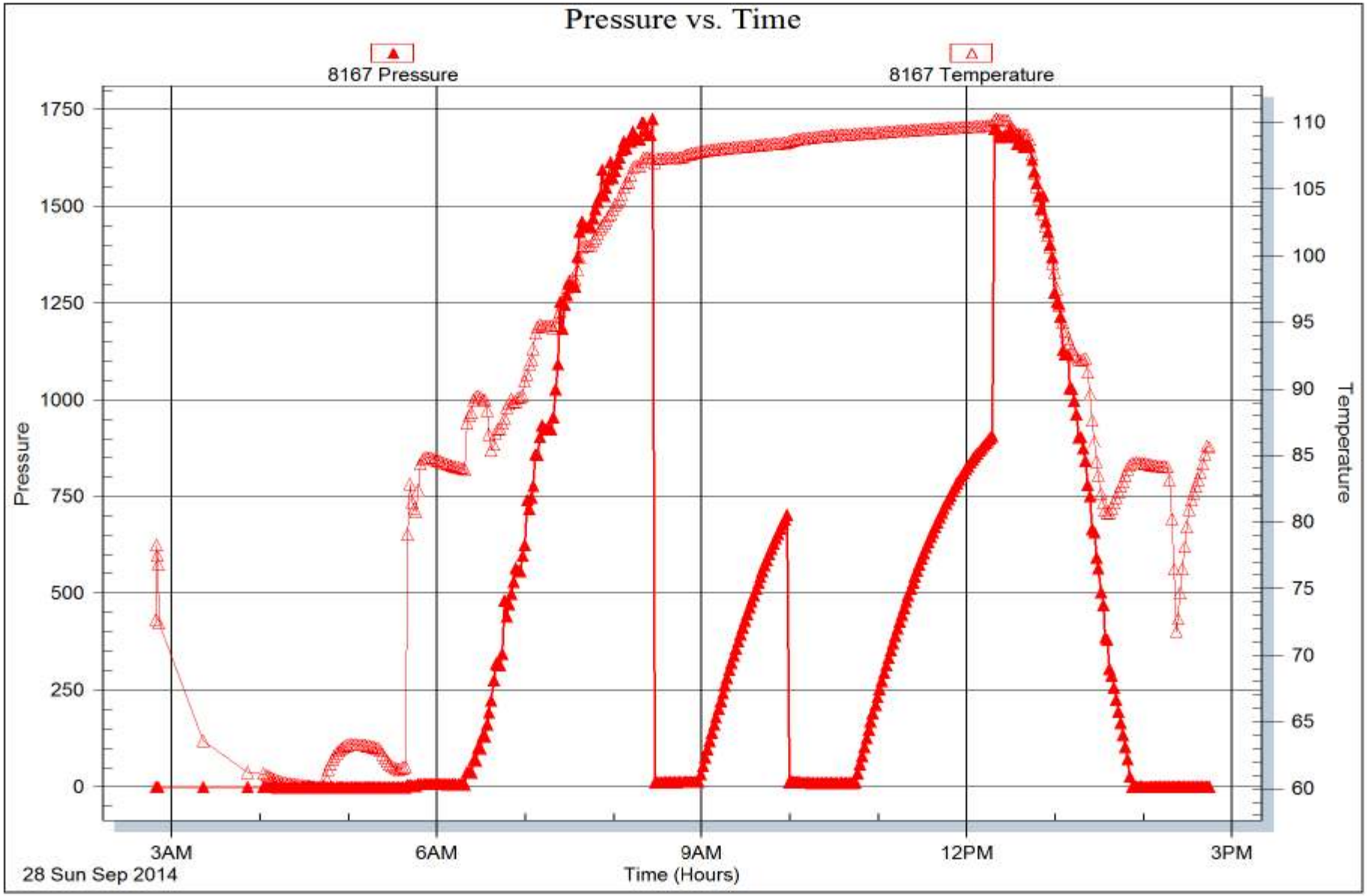
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6772 **Outside** Bear Petroleum Eberhardt #2-24 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60537 Printed: 2014.10.02 @ 10:17:41

Serial #: 8167 **Outside** Bear Petroleum Eberhardt #2-24 DST Test Number: 1



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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum**

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

Eberhardt #2-24

24-17s -17w Rush,KS

Start Date: 2014.09.29 @ 02:27:05
End Date: 2014.09.29 @ 14:33:30
Job Ticket #: 60538 DST #: 2

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

Printed: 2014.10.02 @ 10:17:01

DRILL STEM TEST REPORT

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60538 **DST#: 2**

Test Start: 2014.09.29 @ 02:27:05

GENERAL INFORMATION:

Formation: **Lower Penn. Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:39:30
Time Test Ended: 14:33:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 72

Interval: 3530.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

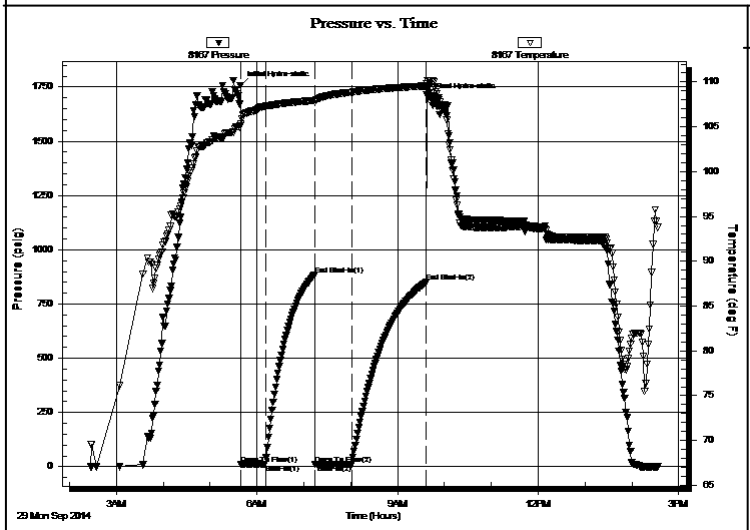
Reference Elevations: 2062.00 ft (KB)
2049.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8167 **Outside**

Press@RunDepth: 10.18 psig @ 3532.00 ft (KB)
Start Date: 2014.09.29 End Date: 2014.09.29
Start Time: 02:27:05 End Time: 14:33:30

Capacity: 8000.00 psig
Last Calib.: 2014.09.29
Time On Btm: 2014.09.29 @ 05:38:30
Time Off Btm: 2014.09.29 @ 09:38:29

TEST COMMENT: I.F. - 30 - BOB in 6 1/2 min
I.S.I. - 60 - No blow back
F.F. - 45 - BOB in 1 min
F.S.I. - 90 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.76	105.11	Initial Hydro-static
1	10.88	105.30	Open To Flow (1)
33	12.20	107.29	Shut-In(1)
96	884.57	107.93	End Shut-In(1)
96	10.82	107.75	Open To Flow (2)
143	10.18	108.85	Shut-In(2)
238	849.61	109.56	End Shut-In(2)
240	1699.42	110.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%	0.28
0.00	504 G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60538 **DST#: 2**

Test Start: 2014.09.29 @ 02:27:05

GENERAL INFORMATION:

Formation: **Lower Penn. Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:39:30
Time Test Ended: 14:33:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 72

Interval: 3530.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

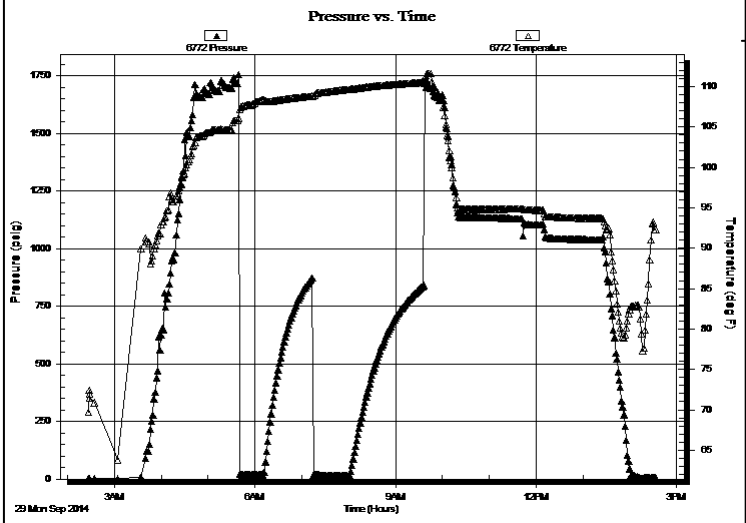
Reference Elevations: 2062.00 ft (KB)
2049.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6772 **Outside**

Press@RunDepth: psig @ 3532.00 ft (KB)
Start Date: 2014.09.29 End Date: 2014.09.29
Start Time: 02:27:05 End Time: 14:33:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: I.F. - 30 - BOB in 6 1/2 min
I.S.I. - 60 - No blow back
F.F. - 45 - BOB in 1 min
F.S.I. - 90 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%	0.28
0.00	504 G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60538 **DST#: 2**

Test Start: 2014.09.29 @ 02:27:05

Tool Information

Drill Pipe:	Length:	3513.00 ft	Diameter:	3.80 inches	Volume:	49.28 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:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	49.28 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3530.00 ft						Final	47000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		30.00 ft							
Tool Length:		58.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3503.00		
Shut In Tool	5.00			3508.00		
Hydraulic tool	5.00			3513.00		
Jars	5.00			3518.00		
Safety Joint	3.00			3521.00		
Packer	5.00			3526.00	28.00	Bottom Of Top Packer
Packer	4.00			3530.00		
Stubb	1.00			3531.00		
Perforations	1.00			3532.00		
Recorder	0.00	6772	Outside	3532.00		
Recorder	0.00	8167	Outside	3532.00		
Perforations	25.00			3557.00		
Bullnose	3.00			3560.00	30.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum

PO Box 438
Haysville KS 67060

ATTN: Rod Anderson / Dick

24-17s -17w Rush,KS

Eberhardt #2-24

Job Ticket: 60538 **DST#: 2**

Test Start: 2014.09.29 @ 02:27:05

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:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.37 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

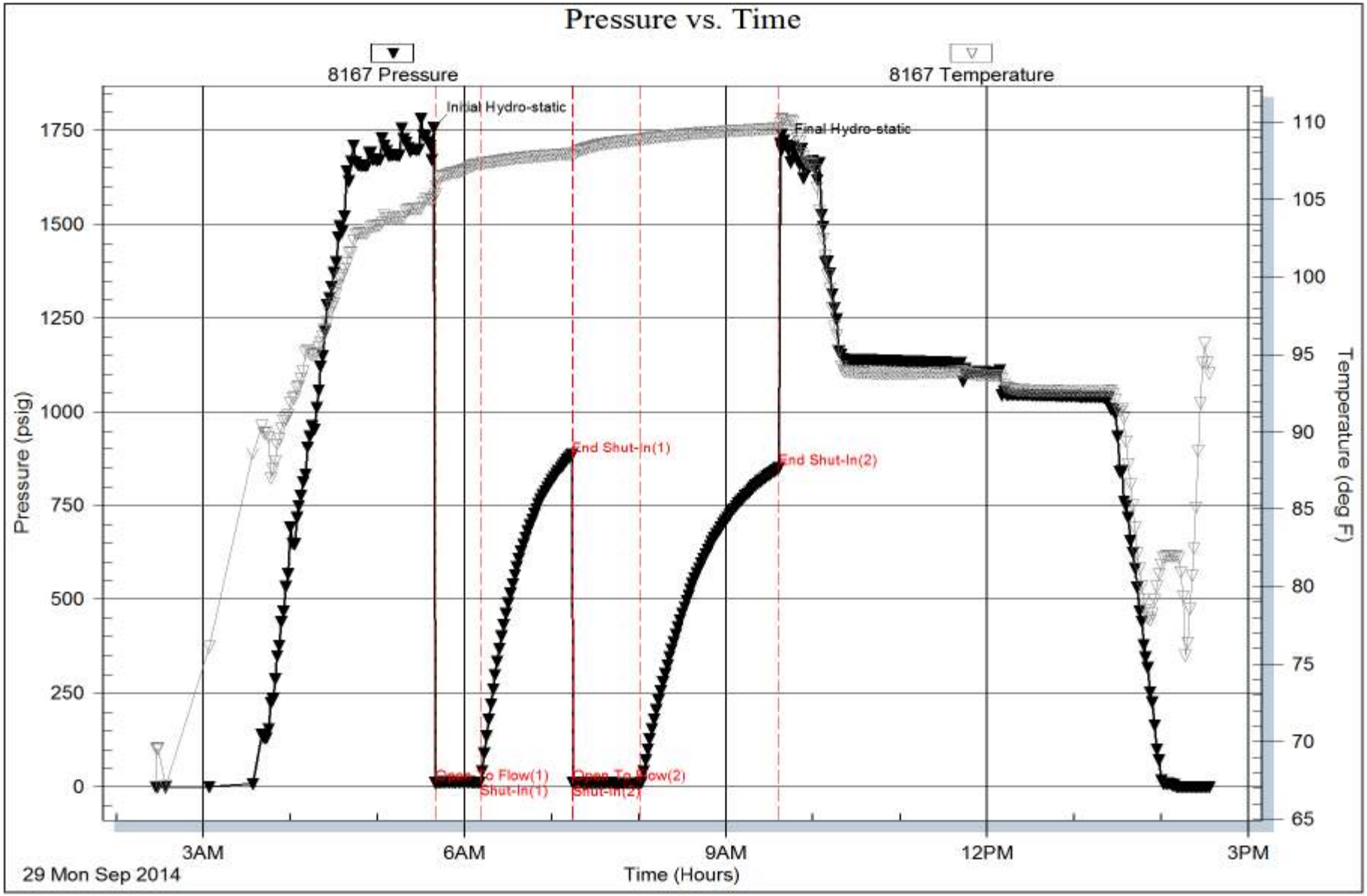
Recovery Table

Length ft	Description	Volume bbl
20.00	MUD 100%	0.281
0.00	504 G.I.P.	0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

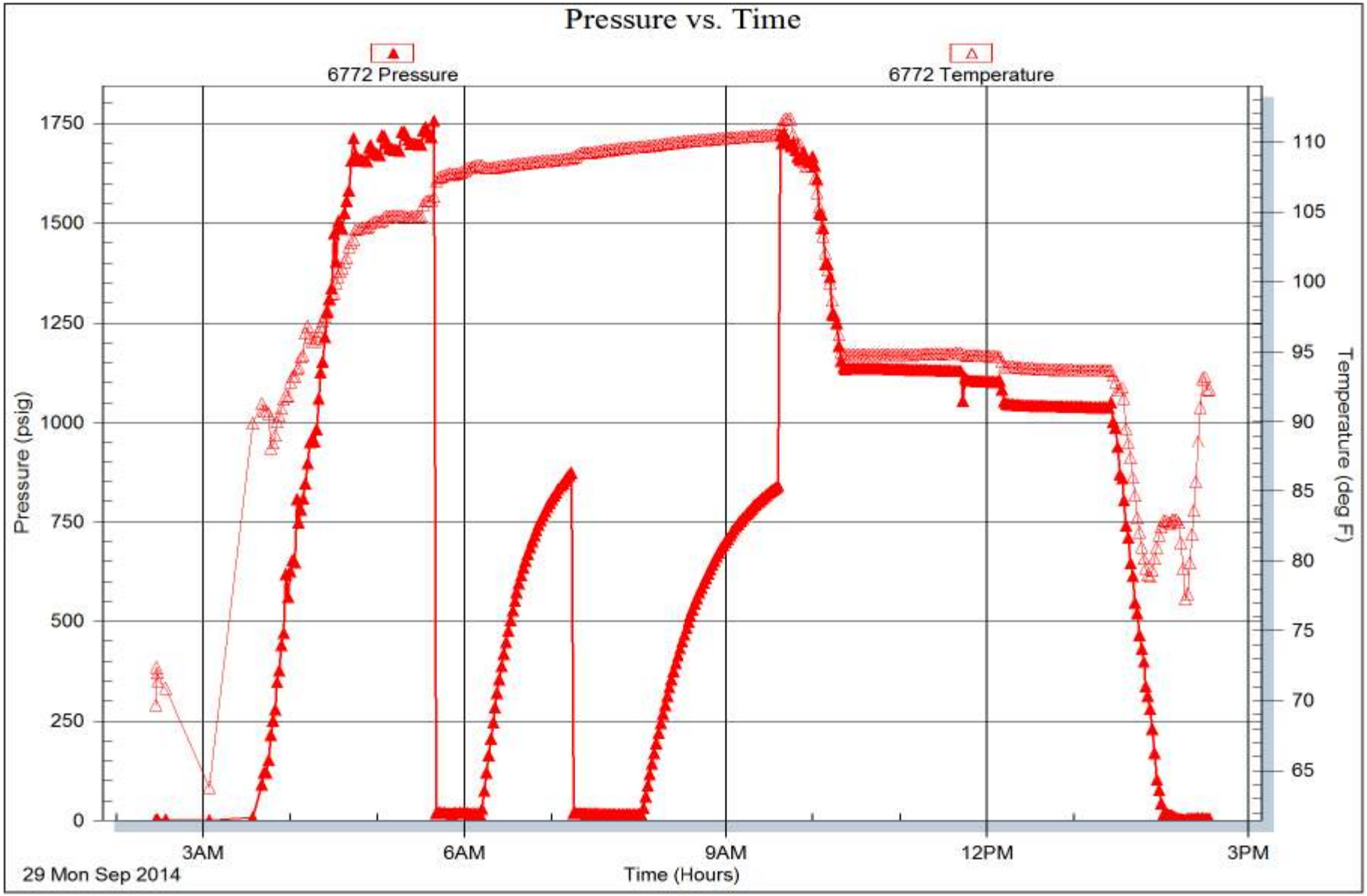
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8167 **Outside** Bear Petroleum Eberhardt #2-24 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60538 Printed: 2014.10.02 @ 10:17:02

Serial #: 6772 **Outside** Bear Petroleum Eberhardt #2-24 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60538 Printed: 2014.10.02 @ 10:17:02

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 60537

Well Name & No. Eberhardt #2-24 Test No. 1 Date 9-28-14

Company Bear Petroleum Elevation 2062 KB 2049 GL

Address P.O. Box 438 Haysville KS. 67060

Co. Rep / Geo. Dick Schremmer / Ron Anderson Rig Maverick #112

Location: Sec. 24 Twp. 17 S. Rge. 17 W. Co. Rush State KS.

Interval Tested 3464 - 3500 Zone Tested Lans. "J"

Anchor Length 36' Drill Pipe Run 3469 Mud Wt. 9.1

Top Packer Depth 3459 Drill Collars Run Vis 50

Bottom Packer Depth 3464 Wt. Pipe Run — WL 11.2

Total Depth 3500 Chlorides 4,000 ppm System LCM 1/2

Blow Description I.F-30- 1/2" INT. Blow Built to B.O.B. in (8 1/2 min.)
I.S.I-60- No B.B.
F.F- 45- 1/2" INT. Blow Built to B.O.B. in (7 min.)
F.S.I-90- No B.B

Rec 0	Feet of 234'	100 %gas	%oil	%water	%mud	
Rec 15	Feet of M	%gas	%oil	%water	100 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 15 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1724	☑ Test 1150	T-On Location 02:00:00
(B) First Initial Flow 21	☑ Jars 250	T-Started 02:49:00
(C) First Final Flow 28	☑ Safety Joint 75	T-Open 08:19:00
(D) Initial Shut-In 697	☐ Circ Sub	T-Pulled 12:04:00
(E) Second Initial Flow 24	☐ Hourly Standby	T-Out 14:46:00
(F) Second Final Flow 22	☑ Mileage 62 1R.T 96.10	Comments
(G) Final Shut-In 898	☐ Sampler	"Thank-You"
(H) Final Hydrostatic 1,680	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 60	☐ Extra Recorder	Sub Total 0
Final Flow 45	☐ Day Standby	Total 1721.10
Final Shut-In 90	☑ Accessibility 150	MP/DST Disc't
	Sub Total 1721.10	

Approved By _____ Our Representative _____

4/10

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60538

Well Name & No. Eberhardt #2-24 Test No. 2 Date 9-29-14

Company Bear Petroleum Elevation 2062 KB 2049 GL

Address P.O. Box 438 Haysville KS. 67060

Co. Rep / Geo. Dick Schremmer/Ron Anderson Rig Maverick #12

Location: Sec. 24 Twp. 17 S. Rge. 17 W. Co. Rush State KS.

Interval Tested 3530 - 3560 Zone Tested Lower Penn. Sand.

Anchor Length 30' Drill Pipe Run 3513 Mud Wt. 9.4

Top Packer Depth 3525 Drill Collars Run — Vis 52

Bottom Packer Depth 3530 Wt. Pipe Run — WL 10.4

Total Depth 3560 Chlorides 5,000 ppm System LCM 1

Blow Description I.F- 30- 1/2" INT. Blow Built to (B.O.B. in 6½ min)
I.S.I- 60- No B.B.
F.F- 45- B.O.B. 1 min.
F.S.I- 90- No B.B.

Rec 0	Feet of 504 G.I.P.	%gas	%oil	%water	%mud
Rec 20	Feet of Mud	%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 110 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1,757	☑ Test 1150	T-On Location 02:05:00
(B) First Initial Flow 11	☑ Jars 250	T-Started 02:27:00
(C) First Final Flow 12	☑ Safety Joint 75	T-Open [redacted] 05:46:00
(D) Initial Shut-In 885	☐ Circ Sub	T-Pulled 09:31:00
(E) Second Initial Flow 11	☐ Hourly Standby 3h 300	T-Out 14:33:00
(F) Second Final Flow 10	☑ Mileage 62 / R.T. 96.10	Comments
(G) Final Shut-In 850	☐ Sampler	"Thank-You"
(H) Final Hydrostatic 1,699	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 60	☐ Extra Recorder	Sub Total 0
Final Flow 45	☐ Day Standby	Total 2021.10
Final Shut-In 90	☑ Accessibility 150	MP/DST Disc't
	Sub Total 2021.10	

Approved By ____ Our Representative Bob Hamm