



DRILL STEM TEST REPORT

Prepared For: **Brugardt Oil & Leasing**

PO Box 871
Russell, KS. 67665

ATTN: Chris Brugardt

CB Beery #7

34-12s-16w Ellis,KS

Start Date: 2013.09.11 @ 06:00:00

End Date: 2013.09.11 @ 00:00:00

Job Ticket #: 54809 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.13 @ 09:44:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

34-12s-16w Ellis,KS

PO Box 871
Russell, KS. 67665

CB Beery #7

Job Ticket: 54809

DST#: 1

ATTN: Chris Brungardt

Test Start: 2013.09.11 @ 06:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 70

Interval: 3488.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 2040.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2035.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 95.54 psig @ 3490.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.11

End Date:

2013.09.11

Last Calib.:

2013.09.11

Start Time: 06:00:00

End Time:

13:04:09

Time On Btm:

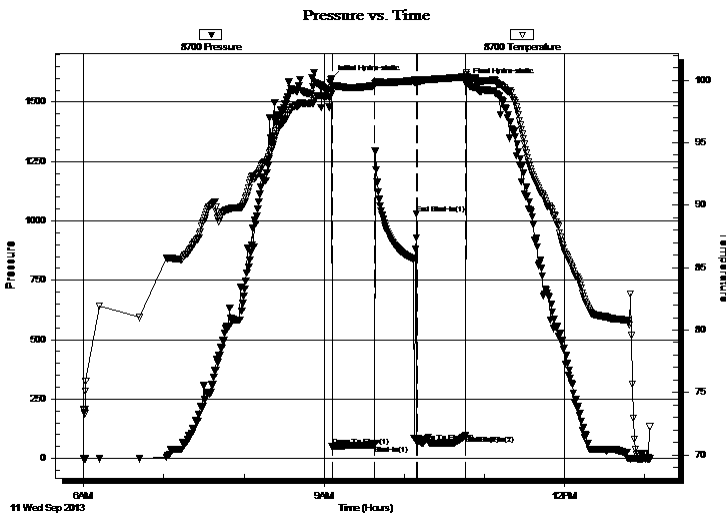
2013.09.11 @ 09:05:40

Time Off Btm:

2013.09.11 @ 10:46:39

TEST COMMENT: 45 - IFI - W.S.B. BUILT TO B.O.B. IN 20 1/2 MIN
45 - ISI - NO B.B.
45 - FF - W.S.B. BUILT TO B.O.B. IN 24 MIN.
45 - FSI - W.S.B.B. - BUILT TO 1" IN 45 MIN.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.67	99.42	Initial Hydro-static
1	49.26	99.05	Open To Flow (1)
32	55.57	99.55	Shut-In(1)
64	1030.70	100.06	End Shut-In(1)
64	66.52	99.72	Open To Flow (2)
100	95.54	100.27	Shut-In(2)
101	96.41	100.27	End Shut-In(2)
101	1582.08	100.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w / show of oil	0.18

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brugardt Oil & Leasing

34-12s-16w Ellis,KS

PO Box 871
Russell, KS. 67665

CB Beery #7

Job Ticket: 54809

DST#: 1

ATTN: Chris Brungardt

Test Start: 2013.09.11 @ 06:00:00

Tool Information

Drill Pipe:	Length: 3057.00 ft	Diameter: 3.80 inches	Volume: 42.88 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 473.00 ft	Diameter: 2.70 inches	Volume: 3.35 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	0.00 lb
			<u>Total Volume: 46.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	62.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3488.00 ft			Final	0.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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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Shut In Tool	5.00			3473.00	
Hydraulic tool	5.00			3478.00	
Packer	5.00			3483.00	20.00 Bottom Of Top Packer
Packer	5.00			3488.00	
Stubb	1.00			3489.00	
Perforations	1.00			3490.00	
Recorder	0.00	8700	Outside	3490.00	
Recorder	0.00	8360	Inside	3490.00	
Perforations	17.00			3507.00	
Bullnose	3.00			3510.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brugardt Oil & Leasing

34-12s-16w Ellis,KS

PO Box 871
Russell, KS. 67665

CB Beery #7

Job Ticket: 54809

DST#: 1

ATTN: Chris Brungardt

Test Start: 2013.09.11 @ 06:00:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud w/ show of oil	0.177

Total Length: 25.00 ft Total Volume: 0.177 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

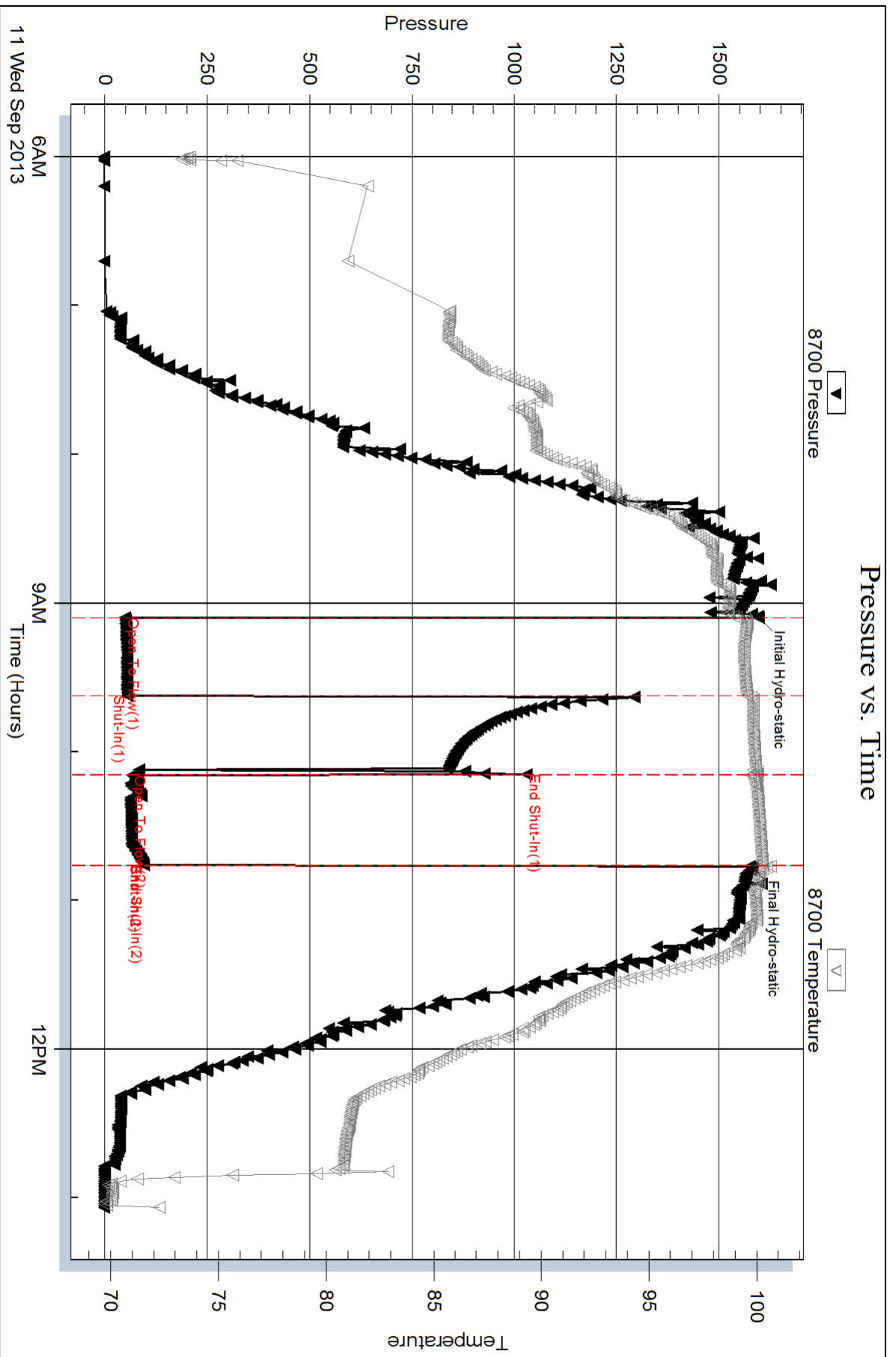
Recovery Comments:

Serial #: 8700

Outside Brugardt Oil & Leasing

CB Beery #7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54809

Printed: 2013.09.13 @ 09:44:27



DRILL STEM TEST REPORT

Prepared For: **Brugardt Oil & Leasing**

PO Box 871
Russell, KS. 67665

ATTN: Chris Brungardt

CB Beery #7

34-12s-16w Ellis,KS

Start Date: 2013.09.11 @ 06:00:05

End Date: 2013.09.11 @ 13:23:59

Job Ticket #: 54809 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.13 @ 09:43:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

34-12s-16w Ellis,KS

PO Box 871
Russell, KS. 67665

CB Beery #7

Job Ticket: 54809

DST#: 2

ATTN: Chris Brungardt

Test Start: 2013.09.11 @ 06:00:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:30

Time Test Ended: 13:23:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 70

Interval: 3488.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 2040.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2035.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 297.61 psig @ 3512.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.11

End Date:

2013.09.11

Last Calib.:

2013.09.11

Start Time: 06:00:05

End Time:

13:23:59

Time On Btm:

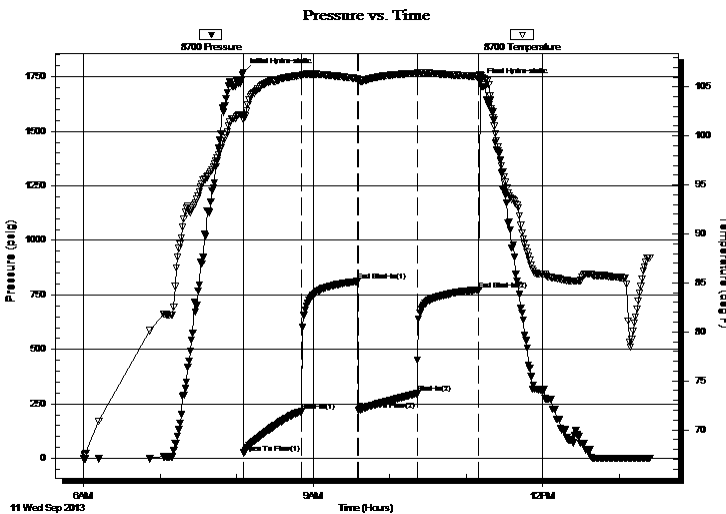
2013.09.11 @ 08:05:15

Time Off Btm:

2013.09.11 @ 11:10:45

TEST COMMENT: 45 - IF - W.S.B. BUILT TO B.O.B. IN 20 1/2 MIN.
45 - ISI - NO B.B.
45 - FF - W.S.B. BUILT TO B.O.B. IN 24 MIN.
45 - FSI - W.S.B.B. BUILT TO 1" IN 45 MIN.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.23	102.20	Initial Hydro-static
1	25.78	101.66	Open To Flow (1)
46	215.47	106.18	Shut-In(1)
90	812.37	105.85	End Shut-In(1)
91	222.31	105.68	Open To Flow (2)
137	297.61	106.38	Shut-In(2)
185	773.49	106.07	End Shut-In(2)
186	1725.46	106.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	SOCMW 15% OIL 65% WATER 20% MUC	1.78
378.00	CLEAN OIL	3.77
126.00	GIP	1.77

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brugardt Oil & Leasing

34-12s-16w Ellis,KS

PO Box 871
Russell, KS. 67665

CB Beery #7

Job Ticket: 54809

DST#: 2

ATTN: Chris Brungardt

Test Start: 2013.09.11 @ 06:00:05

Tool Information

Drill Pipe:	Length: 3037.00 ft	Diameter: 3.80 inches	Volume: 42.60 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 473.00 ft	Diameter: 2.70 inches	Volume: 3.35 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 45.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	4600.00 lb
Depth to Top Packer:	3510.00 ft			Final	46500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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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Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	20.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	1.00			3512.00	
Recorder	0.00	8700	Outside	3512.00	
Recorder	0.00	8369	Inside	3512.00	
Perforations	17.00			3529.00	
Bullnose	3.00			3532.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing

34-12s-16w Ellis,KS

PO Box 871
Russell, KS. 67665

CB Beery #7

Job Ticket: 54809

DST#: 2

ATTN: Chris Brungardt

Test Start: 2013.09.11 @ 06:00:05

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:

10000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	SOCMW 15% OIL 65%WATER 20%MUD	1.785
378.00	CLEAN OIL	3.767
126.00	GIP	1.767

Total Length: 756.00 ft

Total Volume: 7.319 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

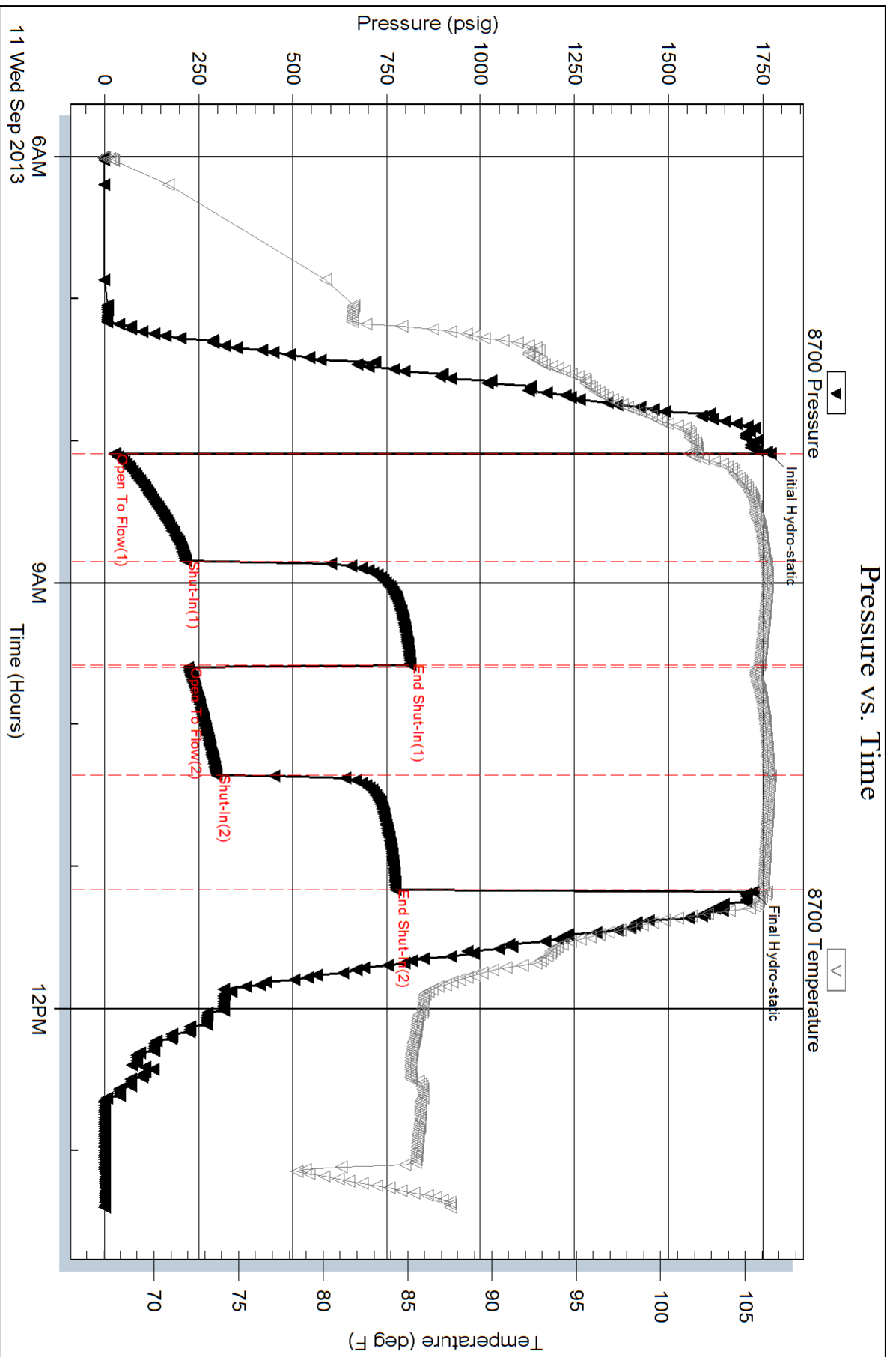
Recovery Comments:

Serial #: 8700

Outside Brugardt Oil & Leasing

CB Beery #7

DST Test Number: 2



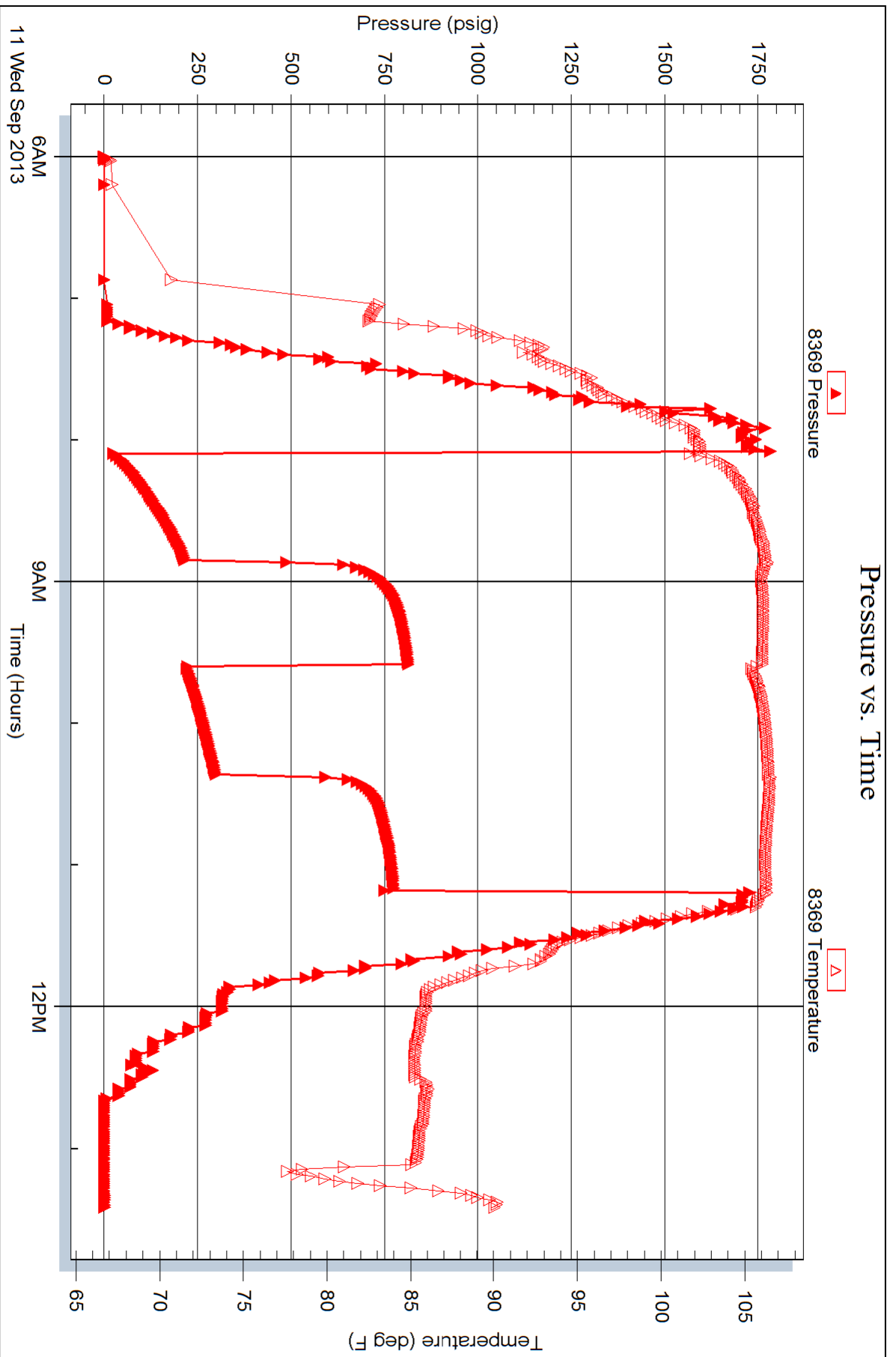
Serial #: 8369

Inside

Brugardt Oil & Leasing

CB Beery #7

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54808

Well Name & No. C.B. Beery #7 Test No. 1 Date 9-9-13
 Company Brundgart oil & Leasing company Elevation 2038 KB 2035 GL
 Address P.O. Box 4871 Russell KS. 67665
 Co. Rep / Geo. Chris Brundgart Rig sheilds
 Location: Sec. 34 Twp. 12S Rge. 16W Co. Ellis State KS.

Interval Tested 3,202-3,280 Zone Tested toronto "A-C"
 Anchor Length 78 Drill Pipe Run 2827 Mud Wt. 9.0
 Top Packer Depth 3,197 Drill Collars Run --- Vis 57
 Bottom Packer Depth 3,202 Wt. Pipe Run 472 WL 7.8
 Total Depth 3,280 Chlorides 7,200 ppm System LCM 2

Blow Description 30-I.F.-w.s.B. Built to 1/2 inch
30-I.S.I.-No B.B.
30-F.F.-Flushed tool-w.s.B. Built to 1/2 inch
5-No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>mud</u>				
	<u>w/ slight show of oil.</u>				

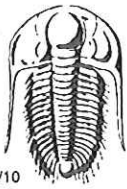
Rec Total 25 BHT _____ Gravity _____ API RW _____ @ 100 °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,597 Test 1150 T-On Location 20:15:00
 (B) First Initial Flow 49 Jars _____ T-Started 21:55:00
 (C) First Final Flow 56 Safety Joint _____ T-Open 01:02
 (D) Initial Shut-In 837 Circ Sub _____ T-Pulled 02:37
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 05:00
 (F) Second Final Flow 96 Mileage 30 mi R.T. 46.50 Comments Flushed tool on
 (G) Final Shut-In No Sampler _____ Final Flow
 (H) Final Hydrostatic 1,582 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30 Sub Total 0
 Initial Shut-In 30 Total 1196.50
 Final Flow 30 MP/DST Disc't _____
 Final Shut-In 5 Sub Total 1196.50

Approved By _____ Our Representative Robert Haney

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54809

Well Name & No. C.B. Beery #7 Test No. 2 Date 9-11-2013
 Company Brundgart oil & Leasing Company Elevation 2040 KB 2035 GL
 Address P.O. Box 871 Russell KS. 67665
 Co. Rep / Geo. Chris Brundgart Rig Sheilds
 Location: Sec. 34 Twp. T2 S Rge. 16W Co. Ellis State KS.

Interval Tested 3488-3510 Zone Tested AR Buckle
 Anchor Length 22 Drill Pipe Run 3057 Mud Wt. 9.0
 Top Packer Depth ~~3057~~ 3483 Drill Collars Run --- Vis 60
 Bottom Packer Depth ~~3057~~ 3488 Wt. Pipe Run 473 WL 8.0
 Total Depth 3510 Chlorides 8,000 ppm System LCM 2

Blow Description 45 - Initial Flow - W.S.B. Built to B.O.B. IN 20 1/2 min.
45 - Initial shut in - No. B.B.
45 - Final Flow - W.S.B. Built to B.O.B. in 24 min.
45 - Final Shut in - W.S.B. Built to Lin. in 45 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>G.I.P.</u>	<u>100</u>			
<u>378</u>	<u>Clean oil</u>	<u>100</u>			
<u>252</u>	<u>SOC MW</u>	<u>15</u>	<u>65</u>	<u>20</u>	
Rec Total <u>630 630'</u>	BHT	Gravity <u>24</u>	API RW	@ <u>96</u> °F	Chlorides <u>10,000</u> ppm

(A) Initial Hydrostatic 1770 Test 1150 T-On Location 05:30
 (B) First Initial Flow 26 Jars T-Started 06:00
 (C) First Final Flow 215 Safety Joint T-Open 08:05
 (D) Initial Shut-In 812 Circ Sub T-Pulled 11:05
 (E) Second Initial Flow 222 Hourly Standby T-Out _____
 (F) Second Final Flow 298 Mileage 30 R.T. 46.50 Comments _____
 (G) Final Shut-In 773 Sampler _____
 (H) Final Hydrostatic 1725 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45
 Sub Total 16.67
 Total 1213.17
 MP/DST Disc't _____
 Sub Total 1196.50

Approved By _____ Our Representative Bob [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.