



DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass DR
Coppell TX 75019

ATTN: Scott Alberg

Werth Farms #1-12

12-10S-26W Sheridan KS

Start Date: 2014.07.25 @ 20:42:00

End Date: 2014.07.26 @ 03:43:00

Job Ticket #: 58280 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.29 @ 09:04:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58280

DST#: 1

ATTN: Scott Alberg

Test Start: 2014.07.25 @ 20:42:00

GENERAL INFORMATION:

Formation: **Toronto - LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:29:10

Time Test Ended: 03:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

Interval: 3804.00 ft (KB) To 3854.00 ft (KB) (TVD)

Reference Elevations: 2594.00 ft (KB)

Total Depth: 3854.00 ft (KB) (TVD)

2589.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 135.68 psig @ 3805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.25

End Date:

2014.07.26

Last Calib.:

2014.07.26

Start Time: 20:42:01

End Time:

03:43:00

Time On Btm:

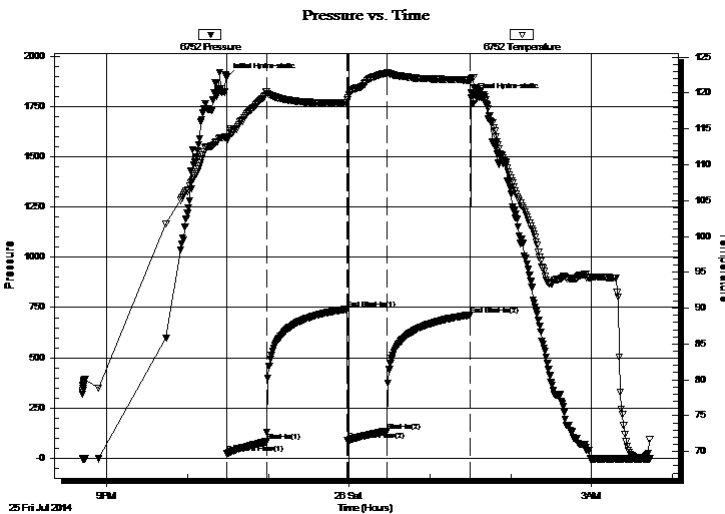
2014.07.25 @ 22:28:40

Time Off Btm:

2014.07.26 @ 01:30:20

TEST COMMENT: 30 IF - 1" blow built to BoB @ 18 mins
60 ISI - No return
30 FF - Surface blow started @ 1 min built to 9"
60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.46	113.85	Initial Hydro-static
1	22.33	113.58	Open To Flow (1)
30	83.47	120.21	Shut-In(1)
90	741.83	118.67	End Shut-In(1)
90	87.45	119.07	Open To Flow (2)
120	135.68	122.81	Shut-In(2)
182	713.69	121.80	End Shut-In(2)
182	1795.88	121.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW - 50%M - 50%W	0.88
63.00	MCW - 5%M - 95%W	0.88
63.00	MCW - 20%M - 80%W	0.88
65.00	MCW - 50%M - 50%W	0.91
5.00	OMCW - 5%o - 40%M - 55%W	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58280

DST#: 1

ATTN: Scott Alberg

Test Start: 2014.07.25 @ 20:42:00

Tool Information

Drill Pipe:	Length: 3797.00 ft	Diameter: 3.80 inches	Volume: 53.26 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3804.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			3778.00	
Shut In Tool	5.00			3783.00	
Hydraulic tool	5.00			3788.00	
Jars	5.00			3793.00	
Safety Joint	2.00			3795.00	
Packer	5.00			3800.00	27.00 Bottom Of Top Packer
Packer	4.00			3804.00	
Stubb	1.00			3805.00	
Recorder	0.00	6752	Inside	3805.00	
Recorder	0.00	8322	Outside	3805.00	
Perforations	23.00			3828.00	
Change Over Sub	1.00			3829.00	
Drill Pipe	31.00			3860.00	
Change Over Sub	1.00			3861.00	
Bullnose	3.00			3864.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58280

DST#: 1

ATTN: Scott Alberg

Test Start: 2014.07.25 @ 20:42:00

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:

55000 ppm

Viscosity: 39.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	MCW - 50%M - 50%W	0.884
63.00	MCW - 5%M - 95%W	0.884
63.00	MCW - 20%M - 80%W	0.884
65.00	MCW - 50%M - 50%W	0.912
5.00	OMCW - 5%o - 40%M - 55%W	0.070

Total Length: 259.00 ft Total Volume: 3.634 bbl

Num Fluid Samples: 0

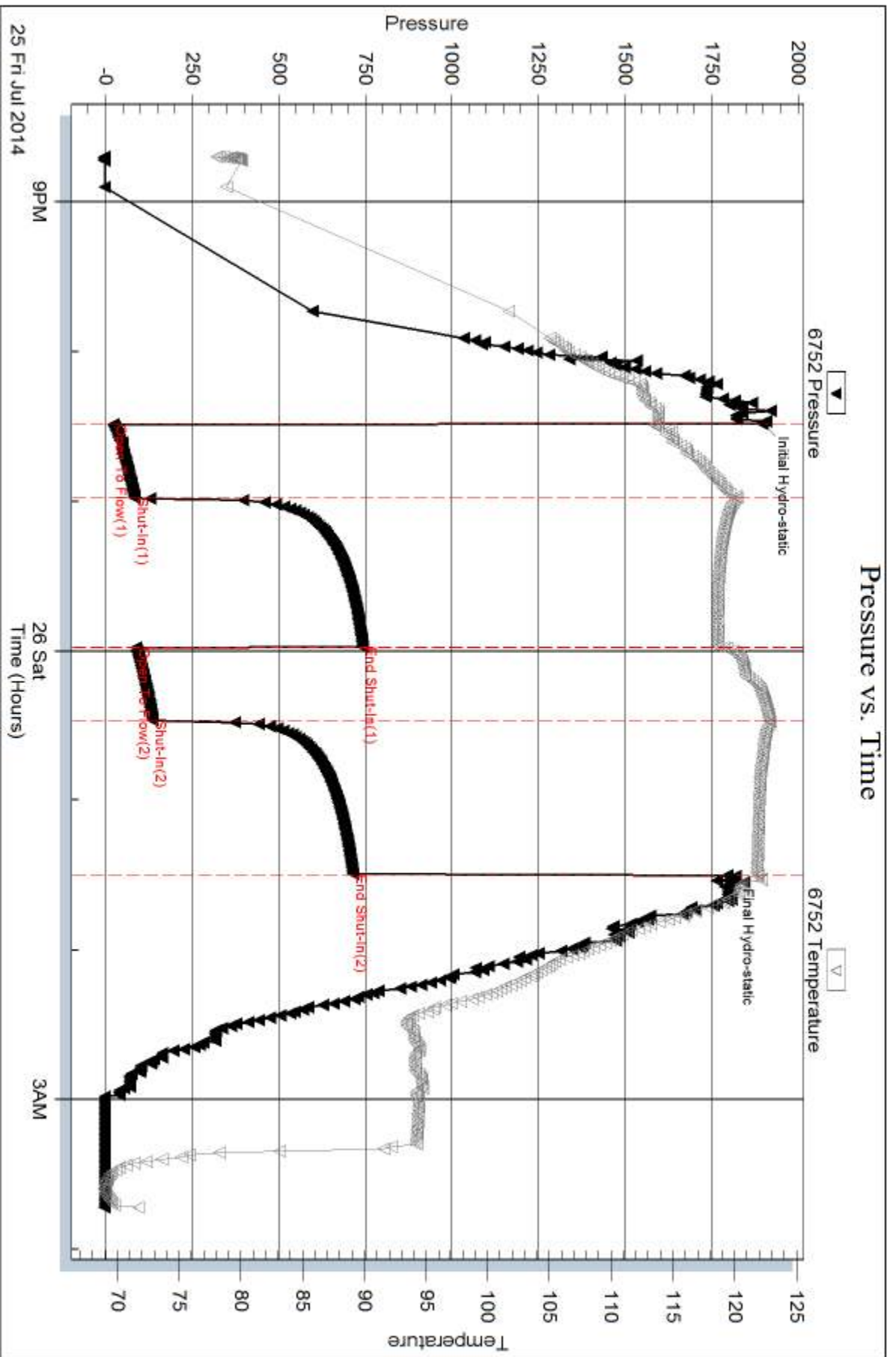
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .145 @ 73 DEG F

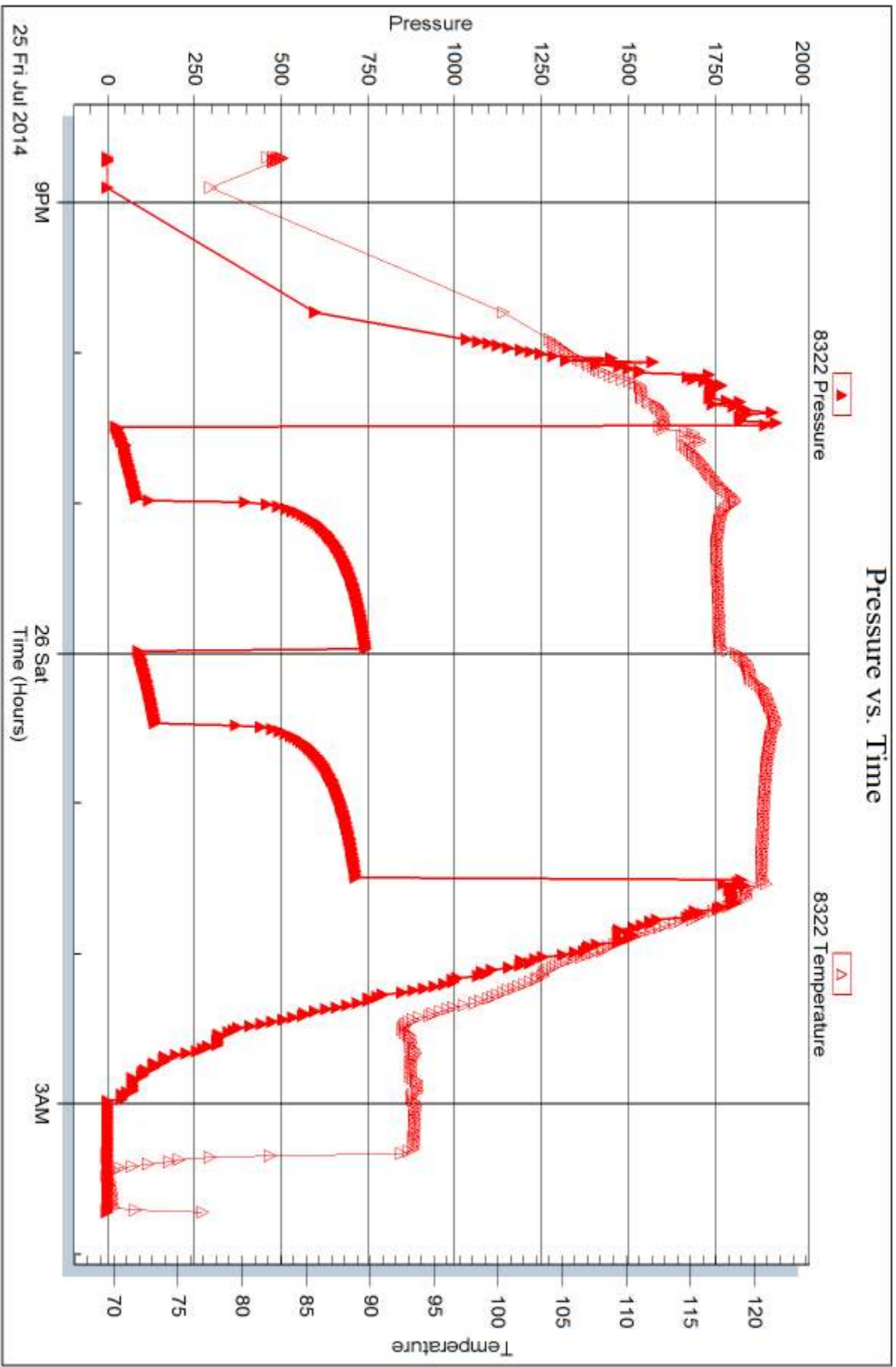


Serial #: 8322

Outside Bemly Exploration LLC

Werth Farms #1-12

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58280

Printed: 2014.07.29 @ 09:04:40



DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass DR
Coppell TX 75019

ATTN: Scott Alberg

Werth Farms #1-12

12-10S-26W Sheridan KS

Start Date: 2014.07.26 @ 15:58:00

End Date: 2014.07.26 @ 23:19:39

Job Ticket #: 58281 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.29 @ 09:04:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58281

DST#: 2

ATTN: Scott Alberg

Test Start: 2014.07.26 @ 15:58:00

GENERAL INFORMATION:

Formation: **LKC " B - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:07:20

Time Test Ended: 23:19:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3856.00 ft (KB) To 3892.00 ft (KB) (TVD)

Reference Elevations: 2594.00 ft (KB)

Total Depth: 3892.00 ft (KB) (TVD)

2589.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: 535.18 psig @ 3857.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.26

End Date:

2014.07.26

Last Calib.:

2014.07.26

Start Time: 15:58:01

End Time:

23:19:40

Time On Btm:

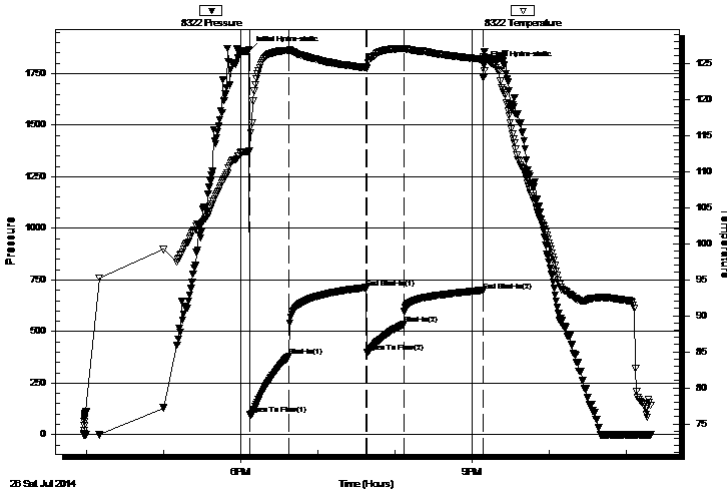
2014.07.26 @ 18:06:50

Time Off Btm:

2014.07.26 @ 21:09:09

TEST COMMENT: 30 IF - 1" blow built to BoB @ 2 mins
60 ISI - No return
30 FF - Surface blow built to BoB @ 6 mins
60 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1863.58	112.89	Initial Hydro-static
1	98.33	112.82	Open To Flow (1)
31	379.97	126.79	Shut-In(1)
91	712.71	124.36	End Shut-In(1)
92	398.27	124.24	Open To Flow (2)
121	535.18	127.04	Shut-In(2)
183	697.06	125.53	End Shut-In(2)
183	1791.17	125.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW - 40%M - 60 %W	0.88
1018.00	MCW - 10%M - 90%W	14.28
302.00	OMCW - 3%o - 30%M - 67%W	4.24

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58281

DST#: 2

ATTN: Scott Alberg

Test Start: 2014.07.26 @ 15:58:00

Tool Information

Drill Pipe:	Length: 3859.00 ft	Diameter: 3.80 inches	Volume: 54.13 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3856.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			3830.00	
Shut In Tool	5.00			3835.00	
Hydraulic tool	5.00			3840.00	
Jars	5.00			3845.00	
Safety Joint	2.00			3847.00	
Packer	5.00			3852.00	27.00 Bottom Of Top Packer
Packer	4.00			3856.00	
Stubb	1.00			3857.00	
Recorder	0.00	6752	Inside	3857.00	
Recorder	0.00	8322	Outside	3857.00	
Perforations	32.00			3889.00	
Bullnose	3.00			3892.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58281

DST#: 2

ATTN: Scott Alberg

Test Start: 2014.07.26 @ 15:58:00

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:

41000 ppm

Viscosity: 33.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	MCW - 40%M - 60 %W	0.884
1018.00	MCW - 10%M - 90%W	14.280
302.00	OMCW - 3%o - 30%M - 67%W	4.236

Total Length: 1383.00 ft Total Volume: 19.400 bbl

Num Fluid Samples: 0

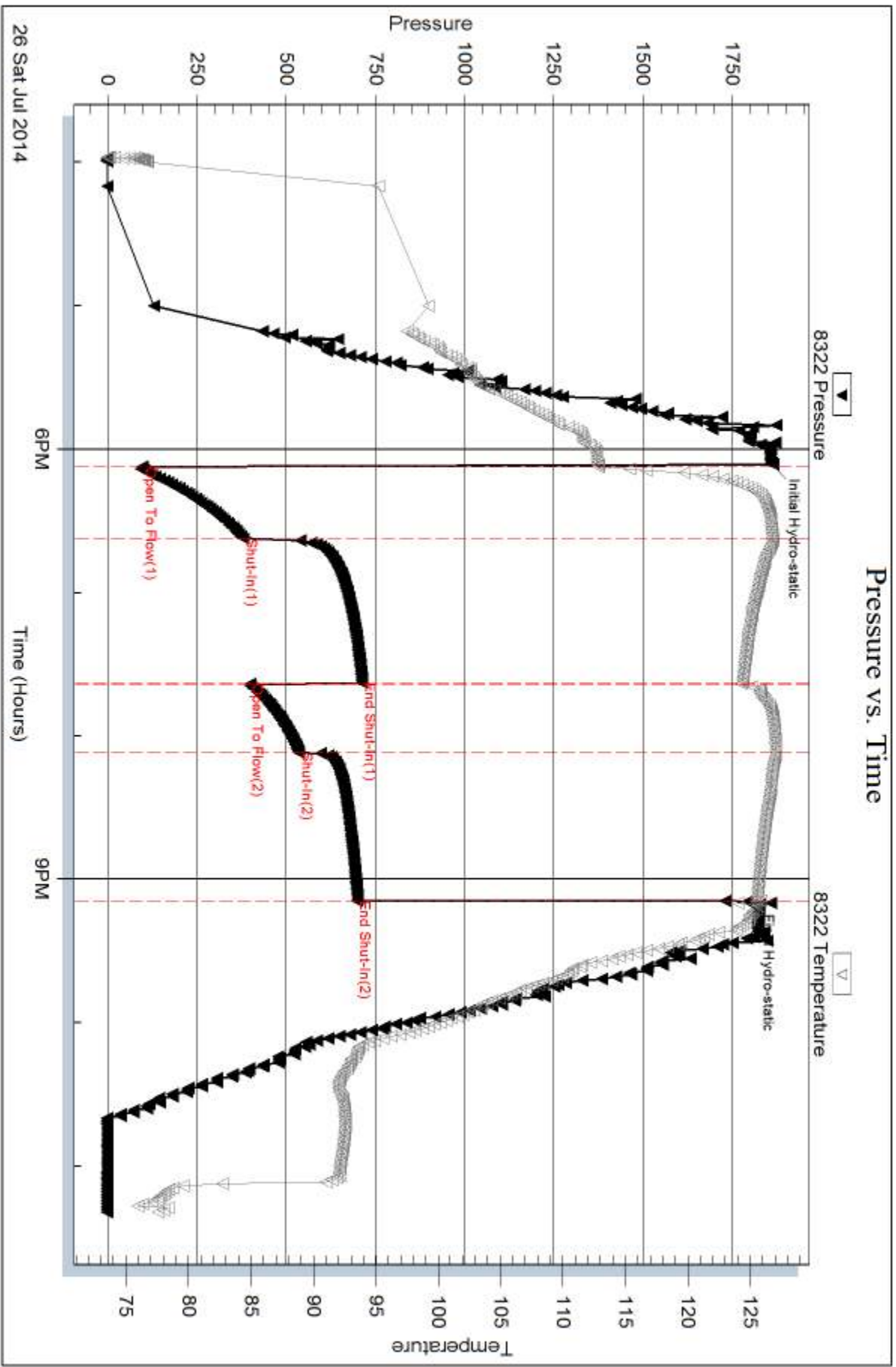
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .164 @ 78 DEG F



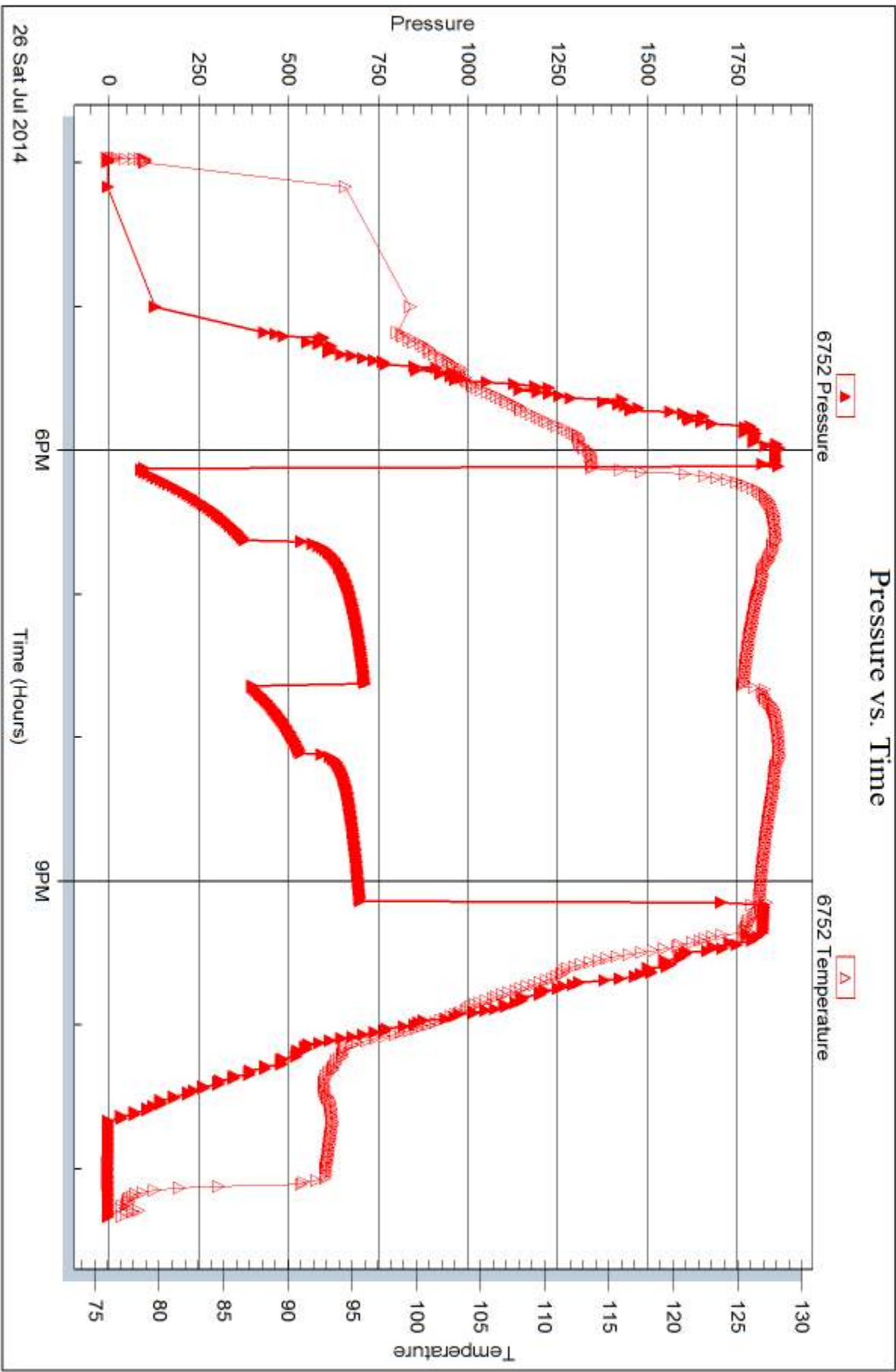
Serial #: 6752

Inside

Bernity Exploration LLC

Werth Farms #1-12

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass DR
Coppell TX 75019

ATTN: Scott Alberg

Werth Farms #1-12

12-10S-26W Sheridan KS

Start Date: 2014.07.27 @ 13:25:00

End Date: 2014.07.27 @ 20:35:39

Job Ticket #: 58282 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.29 @ 09:01:55

Eternity Exploration LLC

12-10S-26W Sheridan KS

Werth Farms #1-12

DST # 3

LKC " H "

2014.07.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58282

DST#: 3

ATTN: Scott Alberg

Test Start: 2014.07.27 @ 13:25:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:30

Time Test Ended: 20:35:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3964.00 ft (KB) To 3993.00 ft (KB) (TVD)

Reference Elevations: 2594.00 ft (KB)

Total Depth: 3993.00 ft (KB) (TVD)

2589.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 102.07 psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.27 End Date: 2014.07.27

Last Calib.: 2014.07.27

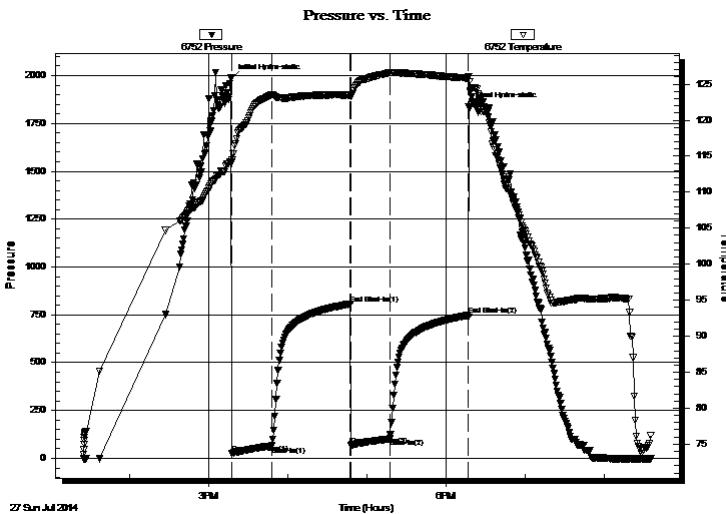
Start Time: 13:25:01 End Time: 20:35:40

Time On Btm: 2014.07.27 @ 15:17:00

Time Off Btm: 2014.07.27 @ 18:17:09

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 12 mins
60 ISI - Surface blow started @ 1 min built to 1/4"
30 FF - Surface blow built to BoB @ 16 mins
60 FSI - Surface blow started @ 1 min built to 2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.08	114.17	Initial Hydro-static
1	24.60	114.10	Open To Flow (1)
31	65.07	123.59	Shut-In(1)
91	806.54	123.50	End Shut-In(1)
91	69.94	123.27	Open To Flow (2)
121	102.07	126.60	Shut-In(2)
180	747.46	125.83	End Shut-In(2)
181	1837.36	126.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OMCW - 2%o - 20%M - 78%W	0.88
106.00	OMCW - 5%o - 40%M - 55%W	1.49
20.00	GO - 5%G 95%o	0.28
0.00	315' GIP	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

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58282

DST#: 3

ATTN: Scott Alberg

Test Start: 2014.07.27 @ 13:25:00

Tool Information

Drill Pipe:	Length: 3953.00 ft	Diameter: 3.80 inches	Volume: 55.45 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 55.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3964.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.00 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			3938.00	
Shut In Tool	5.00			3943.00	
Hydraulic tool	5.00			3948.00	
Jars	5.00			3953.00	
Safety Joint	2.00			3955.00	
Packer	5.00			3960.00	27.00 Bottom Of Top Packer
Packer	4.00			3964.00	
Stubb	1.00			3965.00	
Recorder	0.00	6752	Inside	3965.00	
Recorder	0.00	8322	Outside	3965.00	
Perforations	25.00			3990.00	
Bullnose	3.00			3993.00	29.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58282

DST#: 3

ATTN: Scott Alberg

Test Start: 2014.07.27 @ 13:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

3600 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	OMCW - 2%o - 20%M - 78%W	0.884
106.00	OMCW - 5%o - 40%M - 55%W	1.487
20.00	GO - 5%G 95%o	0.281
0.00	315' GIP	0.000

Total Length: 189.00 ft Total Volume: 2.652 bbl

Num Fluid Samples: 0

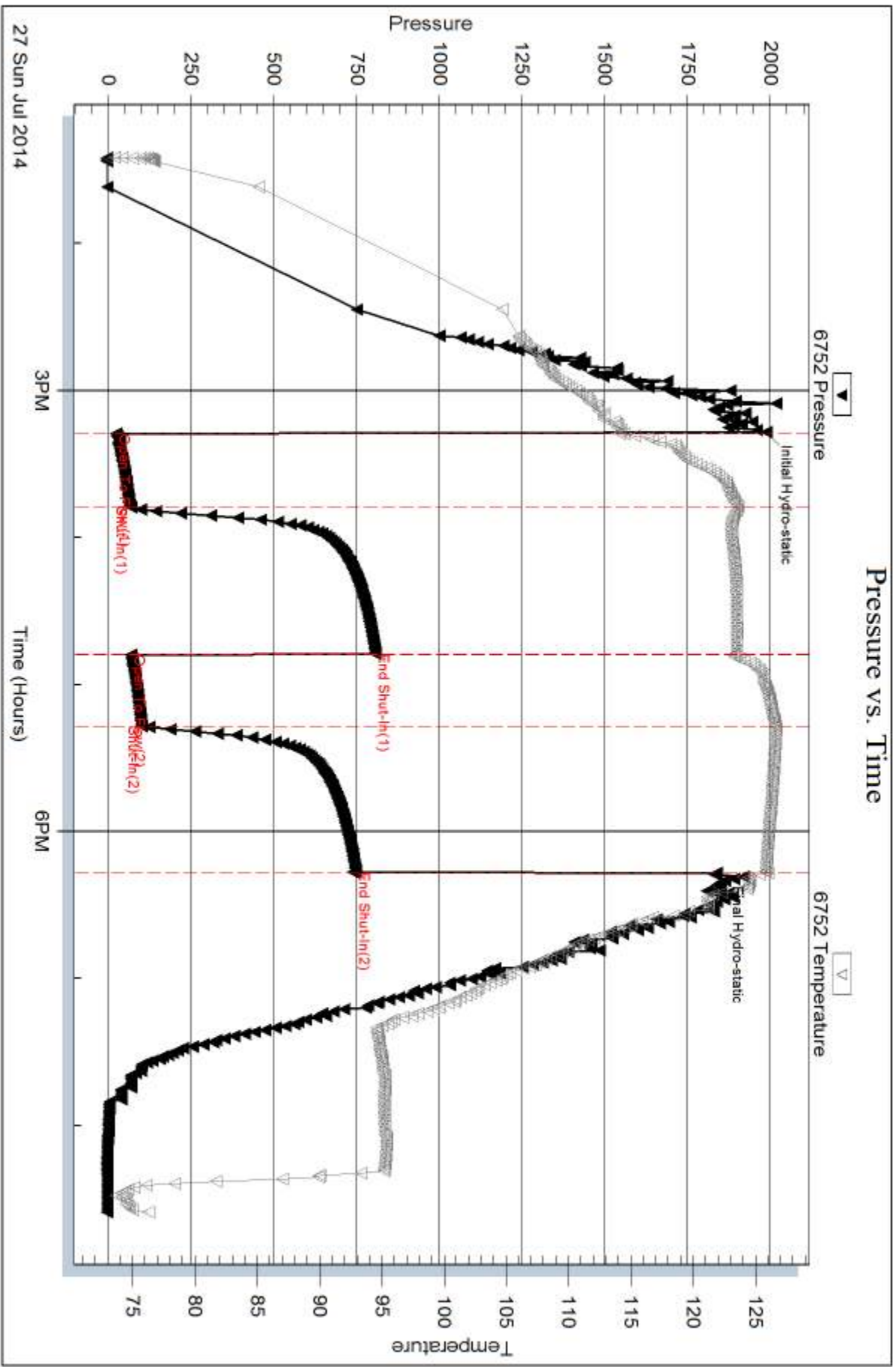
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 42 @ 80 DEG F = 40 COR 60 DEG F
RW = 1.52 @ 83 DEG F

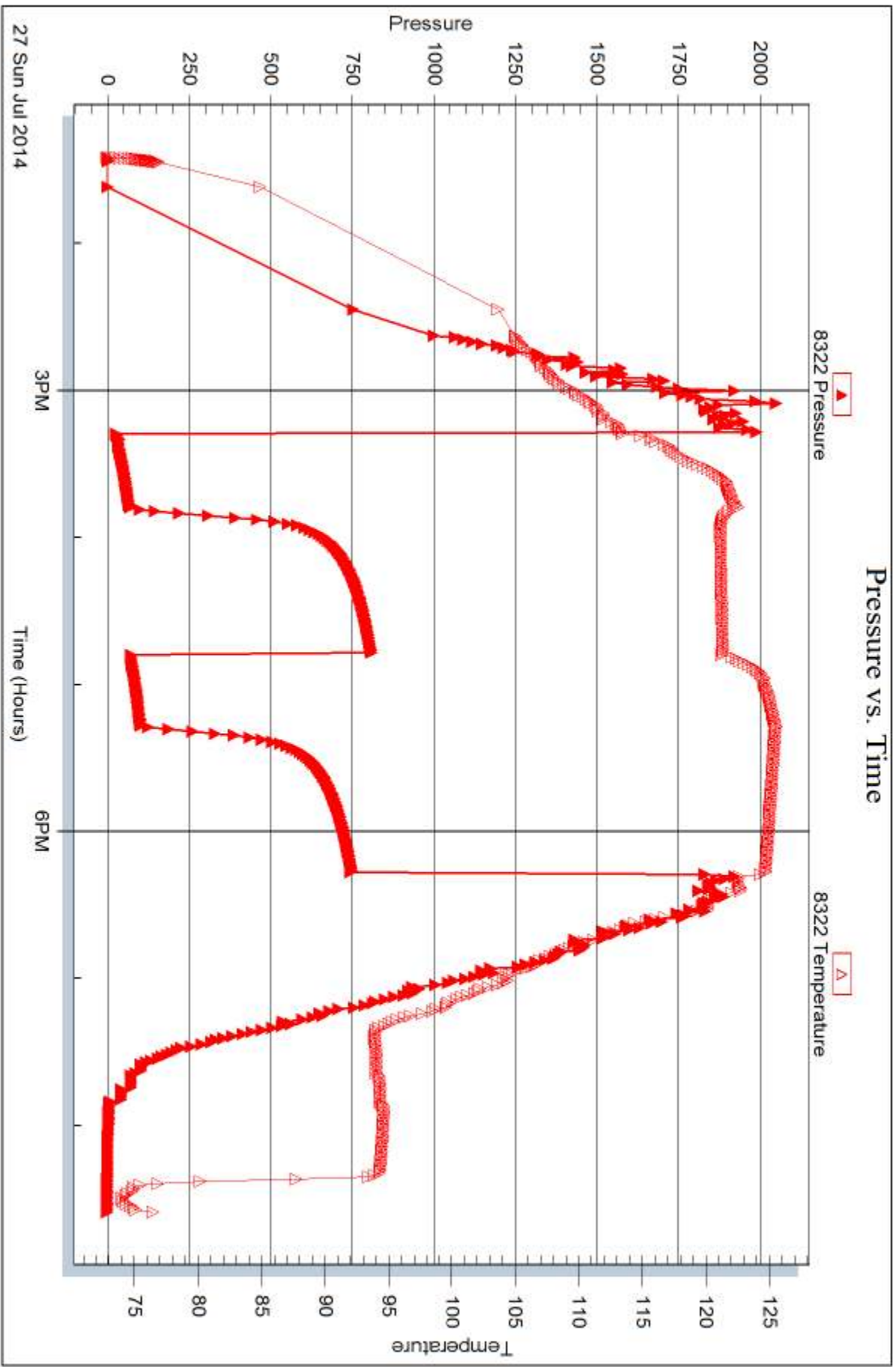


Serial #: 8322

Outside Bernly Exploration LLC

Werth Farms #1-12

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58282

Printed: 2014.07.29 @ 09:01:57



DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass DR
Coppell TX 75019

ATTN: Scott Alberg

Werth Farms #1-12

12-10S-26W Sheridan KS

Start Date: 2014.07.28 @ 07:51:00

End Date: 2014.07.28 @ 13:58:50

Job Ticket #: 58283 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.29 @ 08:59:59

Eternity Exploration LLC

12-10S-26W Sheridan KS

Werth Farms #1-12

DST # 4

LKC "I - K"

2014.07.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58283

DST#: 4

ATTN: Scott Alberg

Test Start: 2014.07.28 @ 07:51:00

GENERAL INFORMATION:

Formation: **LKC "I - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:45:20

Time Test Ended: 13:58:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3996.00 ft (KB) To 4056.00 ft (KB) (TVD)

Reference Elevations: 2594.00 ft (KB)

Total Depth: 4056.00 ft (KB) (TVD)

2589.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 19.86 psig @ 3997.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.28 End Date: 2014.07.28

Last Calib.: 2014.07.28

Start Time: 07:51:01 End Time: 13:58:50

Time On Btm: 2014.07.28 @ 09:45:00

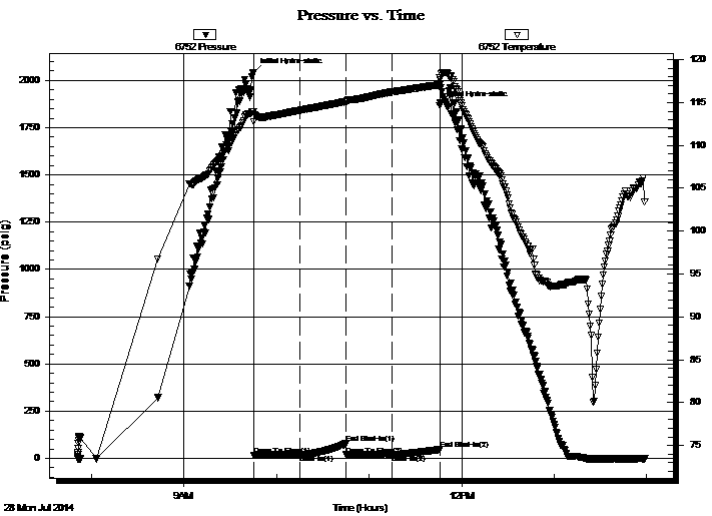
Time Off Btm: 2014.07.28 @ 11:45:50

TEST COMMENT: 30 IF - Surface blow built to 1"

30 ISI - No return

30 FF - No blow

30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.44	113.93	Initial Hydro-static
1	15.68	112.75	Open To Flow (1)
30	18.96	114.08	Shut-In(1)
60	77.46	115.11	End Shut-In(1)
61	17.94	115.08	Open To Flow (2)
90	19.86	116.23	Shut-In(2)
121	46.57	117.07	End Shut-In(2)
121	1866.95	117.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/oil spots 100%M	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58283

DST#: 4

ATTN: Scott Alberg

Test Start: 2014.07.28 @ 07:51:00

Tool Information

Drill Pipe:	Length: 3987.00 ft	Diameter: 3.80 inches	Volume: 55.93 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 55.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3996.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			3970.00	
Shut In Tool	5.00			3975.00	
Hydraulic tool	5.00			3980.00	
Jars	5.00			3985.00	
Safety Joint	2.00			3987.00	
Packer	5.00			3992.00	27.00 Bottom Of Top Packer
Packer	4.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	6752	Inside	3997.00	
Recorder	0.00	8322	Outside	3997.00	
Perforations	23.00			4020.00	
Change Over Sub	1.00			4021.00	
Drill Pipe	31.00			4052.00	
Change Over Sub	1.00			4053.00	
Bullnose	3.00			4056.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

12-10S-26W Sheridan KS

338 Spyglass DR
Coppell TX 75019

Werth Farms #1-12

Job Ticket: 58283

DST#: 4

ATTN: Scott Alberg

Test Start: 2014.07.28 @ 07:51:00

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: 68.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	Mud w /oil spots 100%M	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbf

Num Fluid Samples: 0

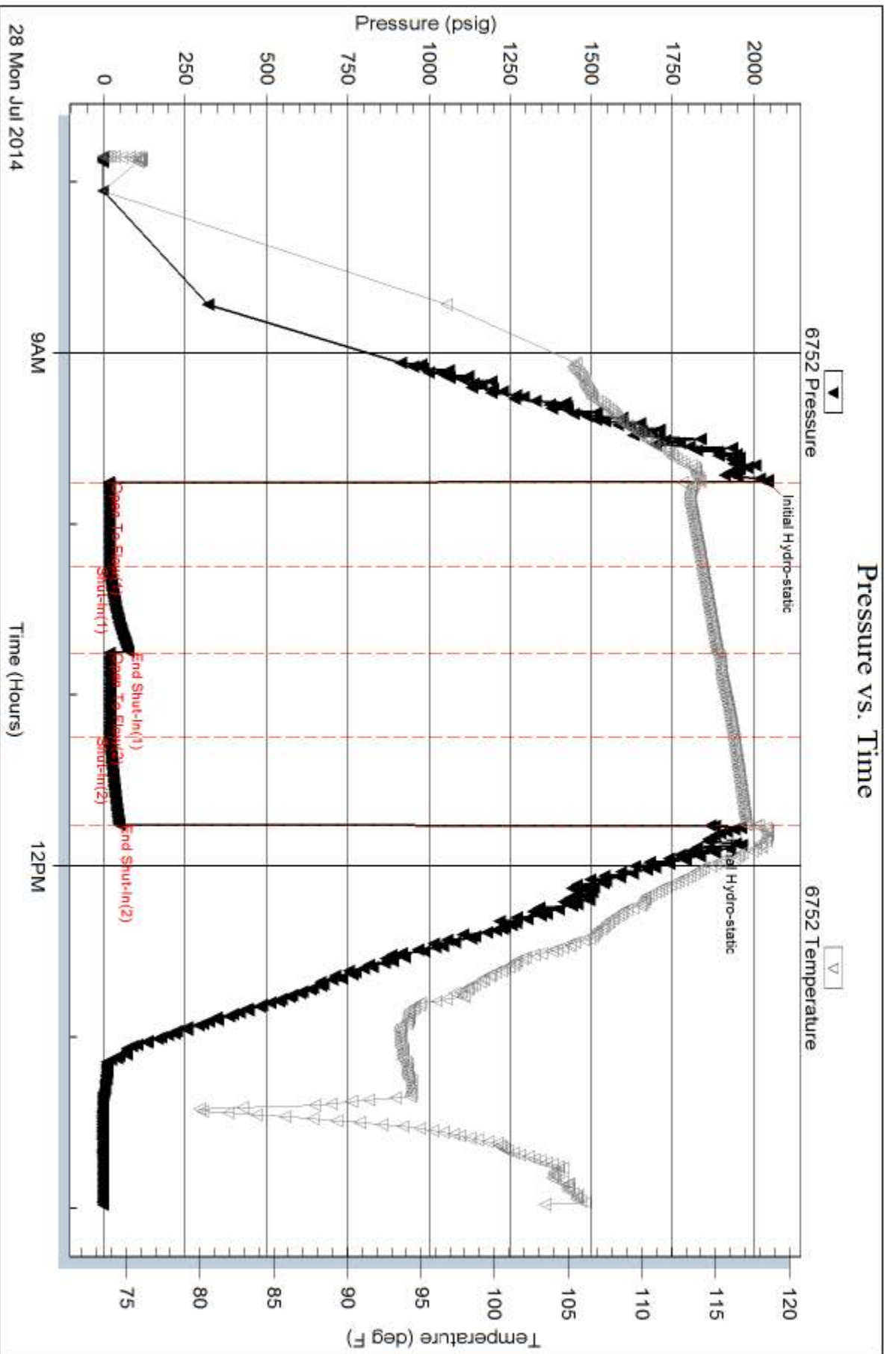
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

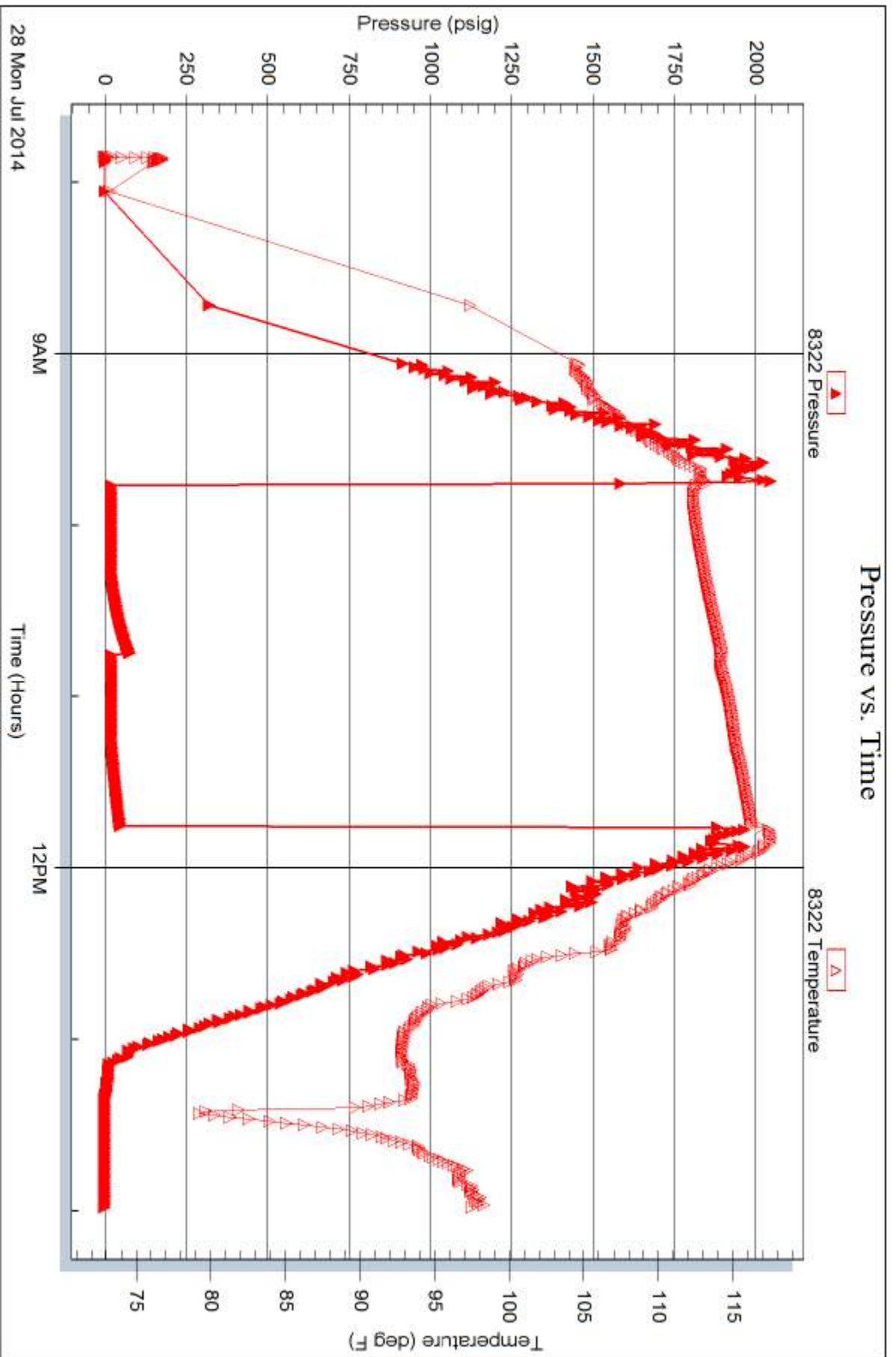


Serial #: 8322

Outside Eernity Exploration LLC

Werth Farms #1-12

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 58283

Printed: 2014.07.29 @ 09:00:01



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58280**

4/10

Well Name & No. Werth Farms #1-12 Test No. 1 Date 7/25/14
 Company Eternity Exploration LLC Elevation 2594 KB 25809 GL
 Address 338 Spyglass DR Loppell Tx 75019
 Co. Rep / Geo. Scott Alberg Rig White Knight
 Location: Sec. 12 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3804 - ~~3854~~ Zone Tested Toronto - LKC "A"
 Anchor Length 50' Drill Pipe Run 3797' Mud Wt. 8.8
 Top Packer Depth 3799 Drill Collars Run 0' Vis 39
 Bottom Packer Depth 3804 Wt. Pipe Run 0' WL 12.0
 Total Depth 3854 Chlorides 1.5 ppm System LCM 1000
 Blow Description IF - 1" built to Bob @ 18 mins
ISI - No return
FF - Surface blow @ 1 min ~~built~~ built to 9"
FSI - No return

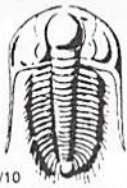
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OMCW</u>	<u>5</u>	<u>55</u>	<u>40</u>	
<u>63'</u>	<u>MCW</u>		<u>50</u>	<u>50</u>	
<u>63'</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>63'</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>63'</u>	<u>MCW</u>		<u>50</u>	<u>50</u>	

Rec Total 259' BHT 122° Gravity — API RW .145 @ 73° F Chlorides 55,000 ppm
 (A) Initial Hydrostatic 1896 Test 1150 T-On Location 19:45
 (B) First Initial Flow 22 Jars 250 T-Started 20:42
 (C) First Final Flow 83 Safety Joint 75 T-Open 22:29
 (D) Initial Shut-In 742 Circ Sub NC T-Pulled 01:29
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 03:43
 (F) Second Final Flow 136 Mileage 134 RT 207.70 Comments _____
 (G) Final Shut-In 714 Sampler _____
 (H) Final Hydrostatic 1796 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Day Standby _____
 Accessibility _____
 Sub Total 1682.70
 Total 1682.70
 MP/DST Disc't _____

Approved By _____ Our Representative [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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58281

4/10

Well Name & No. Werth Farms #1-12 Test No. 2 Date 7/26/14
 Company Eternity Exploration LLC Elevation 2594 KB 2589 GL
 Address 338 Spyglass DR Coppell Tx 75019
 Co. Rep / Geo. Scott Alberg Rig White Knight
 Location: Sec. 12 Twp. 105 Rge. 26 W Co. Sheridan State KS

Interval Tested 3856-3892 Zone Tested LKC "B-C"
 Anchor Length 96' Drill Pipe Run 3859' Mud Wt. 9.1
 Top Packer Depth 3891 Drill Collars Run 0' Vis 33
 Bottom Packer Depth 3856 Wt. Pipe Run 0' WL 12.0
 Total Depth 3892 Chlorides 1000 ppm System LCM 1.5
 Blow Description IF-1" blow built to BoB @ 2 mins
ISI - No return
FF - Surface blow built to BoB @ 6 mins
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>302</u>	<u>OMCW</u>	<u>3</u>	<u>67</u>	<u>30</u>	<u></u>
<u>1018</u>	<u>MCW</u>	<u></u>	<u>90</u>	<u>10</u>	<u></u>
<u>63</u>	<u>MCW</u>	<u></u>	<u>60</u>	<u>40</u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

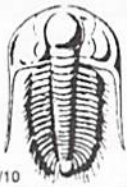
Rec Total 1383' BHT 126° Gravity — API RW .64 @ 78° F Chlorides 41,000 ppm

(A) Initial Hydrostatic <u>1804'</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>15:30</u>
(B) First Initial Flow <u>98</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>15:58</u>
(C) First Final Flow <u>380</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:07</u>
(D) Initial Shut-In <u>713</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>21:07</u>
(E) Second Initial Flow <u>398</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:19</u>
(F) Second Final Flow <u>535</u>	<input checked="" type="checkbox"/> Mileage <u>134 RT 207.70</u>	Comments
(G) Final Shut-In <u>697</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1791</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1682.70</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1682.70</u>	

Approved By _____

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58282

Well Name & No. Werth Farms # 1-12 Test No. 3 Date 7/27/14
 Company Eternity Exploration LLC Elevation 2594 KB 2589 GL
 Address 338 Spanglers DR Coppell Tx 75019
 Co. Rep / Geo. Scott Alberg Rig White Knight
 Location: Sec. 12 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3964 - 3993 Zone Tested LKC "H"
 Anchor Length 29' Drill Pipe Run 3953' Mud Wt. 9.2
 Top Packer Depth 3959 Drill Collars Run 0' Vis 44
 Bottom Packer Depth 3964 Wt. Pipe Run 0' WL 9.6
 Total Depth 3993 Chlorides 1000 ppm System LCM 1

Blow Description IF - 1/2" blow built to BoB @ 12 mins
ISI - Surface blow started @ 1 min built to 1/4"
FF - Surface blow built to BoB @ 16 mins
FSL - Surface ~~blow~~ blow built to ~~2"~~ 2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>0 GO</u>	<u>5</u>	<u>95</u>		
<u>106'</u>	<u>OMCW</u>		<u>5</u>	<u>55</u>	<u>40</u>
<u>63'</u>	<u>OMCW</u>		<u>2</u>	<u>78</u>	<u>20</u>
<u>3</u>					

Rec Total 189' BHT 126° Gravity 40 API RW 1.52 @ 83° F Chlorides 3600 ppm
 (A) Initial Hydrostatic 1985 Test 1150 T-On Location 13:00
 (B) First Initial Flow 25 Jars 250 T-Started 13:25
 (C) First Final Flow 65 Safety Joint 75 T-Open 15:18
 (D) Initial Shut-In 807 Circ Sub NC T-Pulled 18:18
 (E) Second Initial Flow 70 Hourly Standby _____ T-Out 20:35
 (F) Second Final Flow 102 Mileage 134 RT 207.70 Comments 315' GIP
 (G) Final Shut-In 747 Sampler _____
 (H) Final Hydrostatic 1837 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1682.70
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1682.70

Approved By _____ Our Representative Raymond M. Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58283

Well Name & No. Werth Farms #1-12 Test No. 4 Date 7/28/14
 Company Eternity Exploration LLC Elevation 2594 KB 2589 GL
 Address 338 Spyglass DR Coppell Tx 75019
 Co. Rep / Geo. Scott Alberg Rig White Knight
 Location: Sec. 12 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3996 - 4056 Zone Tested LKC "I-K"
 Anchor Length 60' Drill Pipe Run 39807' Mud Wt. 9.3
 Top Packer Depth 3991 Drill Collars Run 0' Vis 6.8
 Bottom Packer Depth 3996 Wt. Pipe Run 0' WL 8.8
 Total Depth 4056 Chlorides 3000 ppm System LCM 1

Blow Description IF - Surface blow built to 1"
ISI - No return
FF - No blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Mud w/oil spots</u>			<u>2</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2' BHT 117° Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2041</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>07:15</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:51</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:45</u>
(D) Initial Shut-In <u>77</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>11:45</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:58</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>134 RT</u> 207.70	Comments
(G) Final Shut-In <u>47</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1867</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1782.70

Total 1782.70
 MP/DST Disc't

Approved By _____ Our Representative Ryan J. Mills

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