



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Mike Maune

Zola Unit #1-1

1-5s-31w Rawlins,KS

Start Date: 2012.04.28 @ 22:26:00

End Date: 2012.04.29 @ 07:01:30

Job Ticket #: 42487 DST #: 1

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

Printed: 2012.05.07 @ 14:32:47

Murfin Drilling Co. 1-5s-31w Rawlins,KS Zola Unit #1-1 DST # 1 Tor - LKC "A,B" 2012.04.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Mike Maune

1-5s-31w Rawlins,KS
Zola Unit #1-1
Job Ticket: 42487 **DST#: 1**
Test Start: 2012.04.28 @ 22:26:00

GENERAL INFORMATION:

Formation: **Tor - LKC "A,B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:52:45
Time Test Ended: 07:01:30
Interval: **3854.00 ft (KB) To 3937.00 ft (KB) (TVD)**
Total Depth: 3937.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2871.00 ft (KB)
2866.00 ft (CF)
KB to GR/CF: 5.00 ft

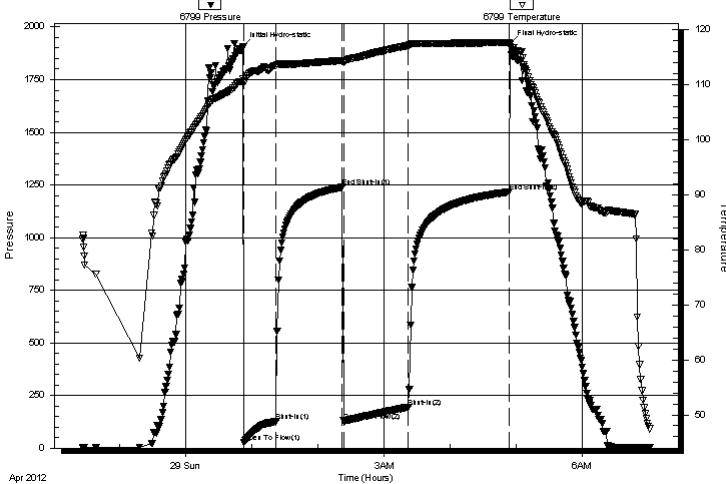
Serial #: 6799

Inside

Press @ Run Depth: 195.10 psig @ 3855.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.28 End Date: 2012.04.29 Last Calib.: 2012.04.29
Start Time: 22:26:05 End Time: 07:01:30 Time On Btm: 2012.04.29 @ 00:51:45
Time Off Btm: 2012.04.29 @ 04:53:45

TEST COMMENT: 30 - IF- Blow built to BoB in 30 min.
60 - IS- No Return
60 - FF- Blow built to BoB in 33 min.
90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.93	110.96	Initial Hydro-static
1	28.45	110.36	Open To Flow (1)
30	127.58	113.39	Shut-In(1)
90	1239.27	114.35	End Shut-In(1)
91	129.24	114.08	Open To Flow (2)
150	195.10	117.10	Shut-In(2)
241	1216.32	117.65	End Shut-In(2)
242	1919.05	116.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 90W 10M	0.89
124.00	OCWM 10o 10W 80M	1.74
62.00	OCM 20o 80M	0.87
10.00	Free oil 100o	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42487

DST#: 1

ATTN: Mike Maune

Test Start: 2012.04.28 @ 22:26:00

Tool Information

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 52.30 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3854.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	112.00 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			3826.00	
Shut In Tool	5.00			3831.00	
Hydraulic tool	5.00			3836.00	
Jars	5.00			3841.00	
Safety Joint	3.00			3844.00	
Packer	5.00			3849.00	29.00 Bottom Of Top Packer
Packer	5.00			3854.00	
Stubb	1.00			3855.00	
Recorder	0.00	8648	Inside	3855.00	
Recorder	0.00	6799	Inside	3855.00	
Perforations	13.00			3868.00	
Change Over Sub	1.00			3869.00	
Drill Pipe	62.00			3931.00	
Change Over Sub	1.00			3932.00	
Bullnose	5.00			3937.00	83.00 Bottom Packers & Anchor

Total Tool Length: 112.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42487

DST#: 1

ATTN: Mike Maune

Test Start: 2012.04.28 @ 22:26:00

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:

9000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MW 90W 10M	0.885
124.00	OCWM 10o 10W 80M	1.739
62.00	OCM 20o 80M	0.870
10.00	Free oil 100o	0.140

Total Length: 376.00 ft

Total Volume: 3.634 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .76 @ 71 deg. = 9,000ppm

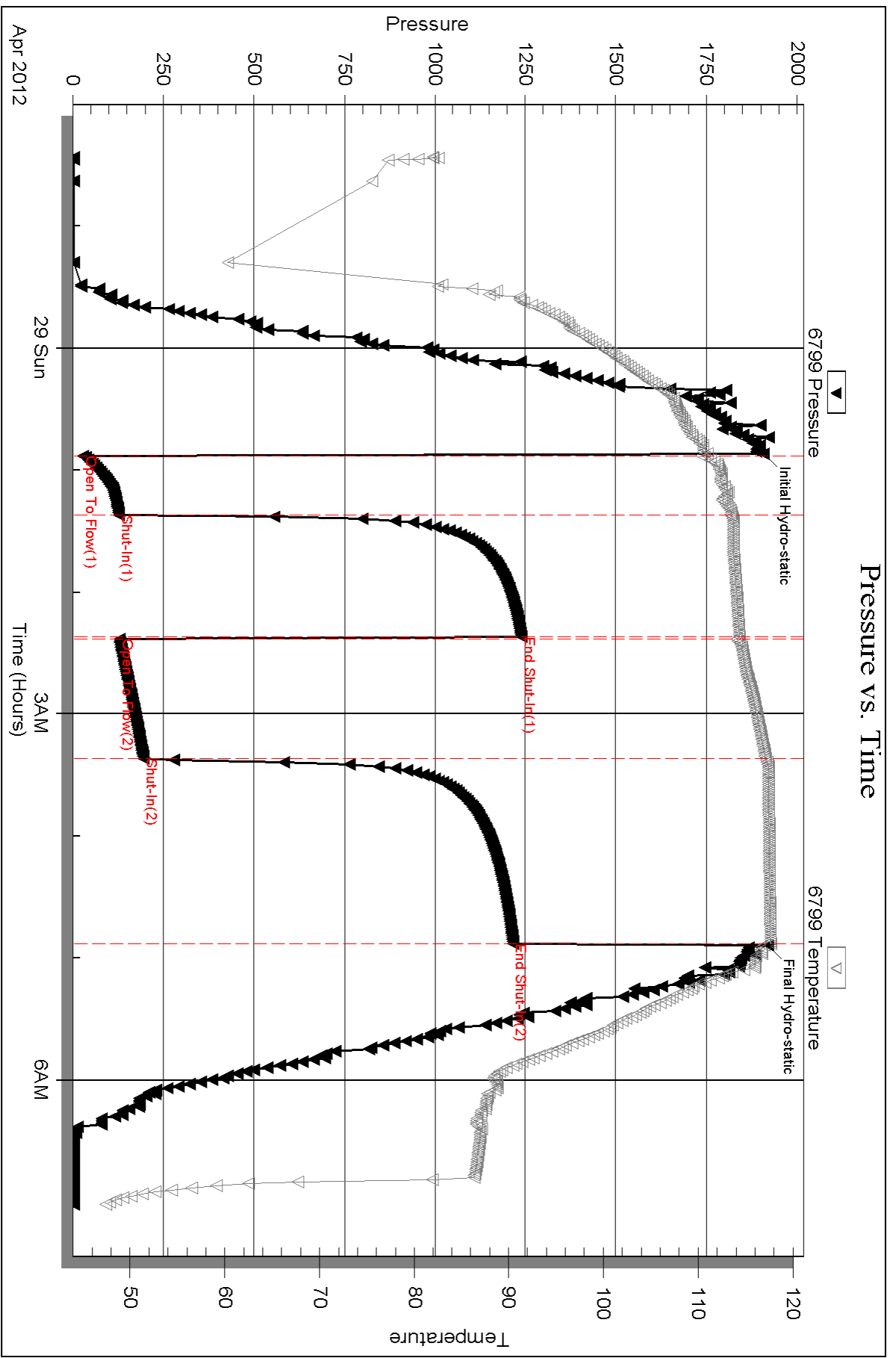
Serial #: 6799

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 42487

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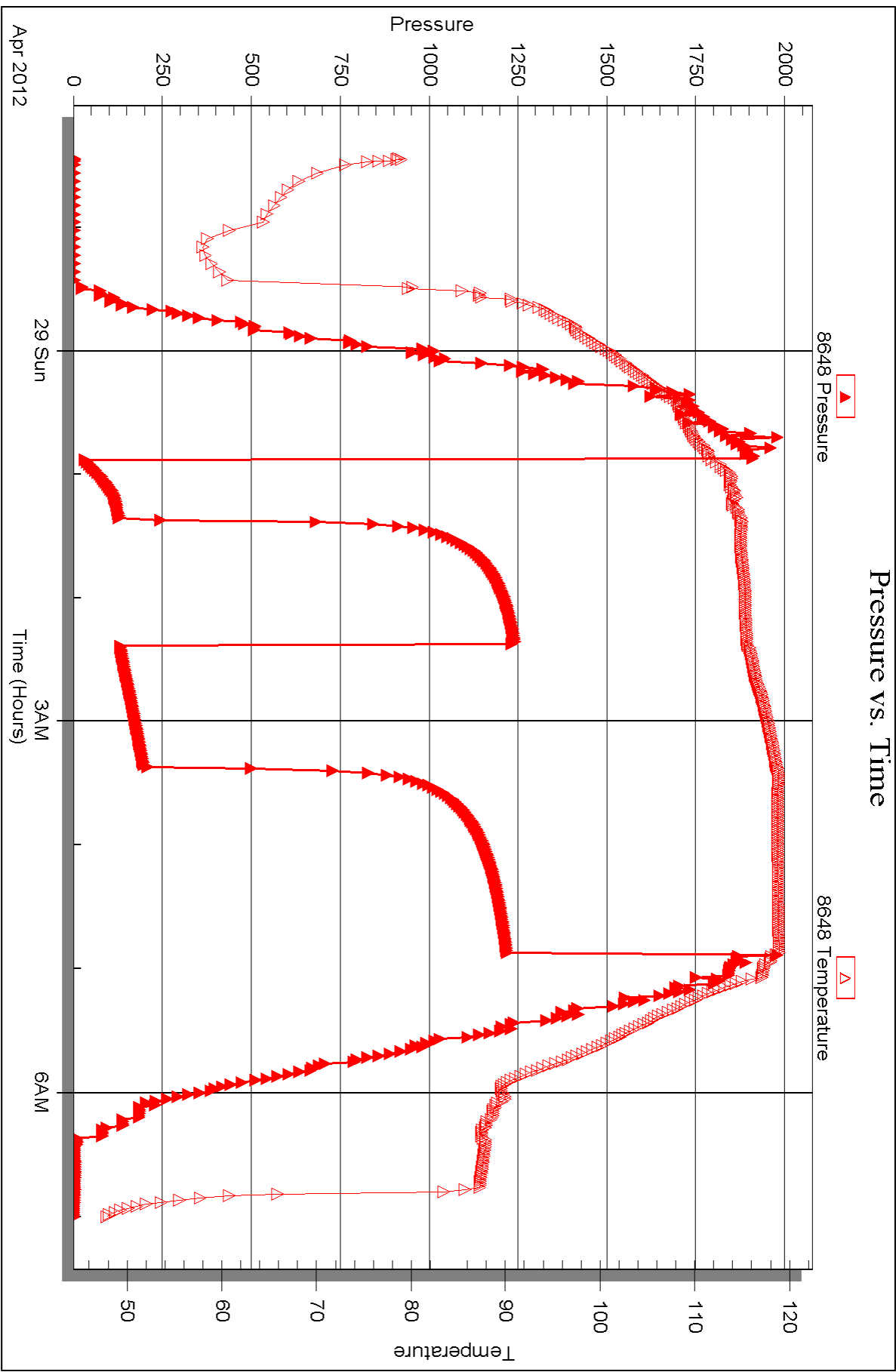
Serial #: 8648

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Mike Maune

Zola Unit #1-1

1-5s-31w Rawlins,KS

Start Date: 2012.04.29 @ 16:16:00

End Date: 2012.04.29 @ 23:16:45

Job Ticket #: 42488 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.07 @ 14:31:50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Mike Maune

1-5s-31w Rawlins,KS
Zola Unit #1-1
Job Ticket: 42488 **DST#: 2**
Test Start: 2012.04.29 @ 16:16:00

GENERAL INFORMATION:

Formation: **LKC "F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:03:15
Time Test Ended: 23:16:45
Interval: **3958.00 ft (KB) To 3980.00 ft (KB) (TVD)**
Total Depth: 3980.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2871.00 ft (KB)
2866.00 ft (CF)
KB to GR/CF: 5.00 ft

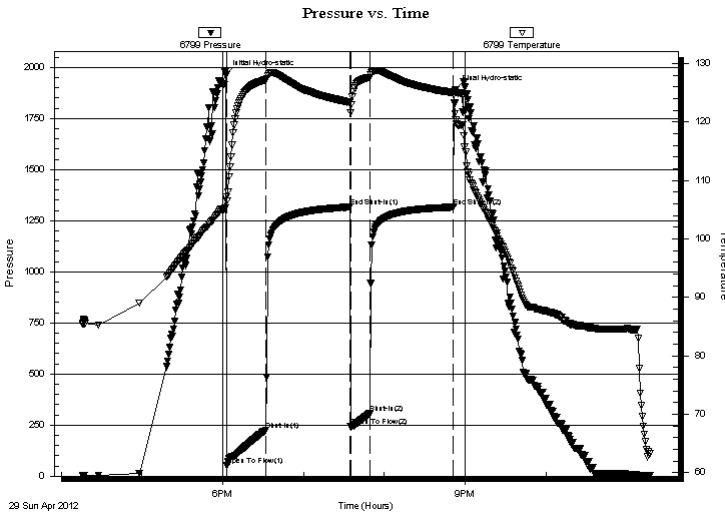
Serial #: 6799

Inside

Press @ Run Depth: 305.58 psig @ 3959.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.29 End Date: 2012.04.29 Last Calib.: 2012.04.29
Start Time: 16:16:05 End Time: 23:16:44 Time On Btm: 2012.04.29 @ 18:02:30
Time Off Btm: 2012.04.29 @ 20:52:15

TEST COMMENT: 30 - IF- Blow Built to BoB in 3 min.
60 - IS- Return Built to BoB in 20 min.
15 - FF- Blow Built to BoB in 5 min.
60 - FS- Return Built to BoB in 40 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.83	107.11	Initial Hydro-static
1	52.57	106.48	Open To Flow (1)
30	224.73	127.25	Shut-In(1)
92	1316.15	123.33	End Shut-In(1)
93	241.65	121.68	Open To Flow (2)
107	305.58	127.66	Shut-In(2)
169	1316.53	124.99	End Shut-In(2)
170	1888.63	121.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM 60M 40o	0.59
816.00	Clean Gassy Oil 15G 85o	10.90
0.00	1260' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42488

DST#: 2

ATTN: Mike Maune

Test Start: 2012.04.29 @ 16:16:00

Tool Information

Drill Pipe:	Length: 3759.00 ft	Diameter: 3.80 inches	Volume: 52.73 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.62 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3958.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 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			3930.00	
Shut In Tool	5.00			3935.00	
Hydraulic tool	5.00			3940.00	
Jars	5.00			3945.00	
Safety Joint	3.00			3948.00	
Packer	5.00			3953.00	29.00 Bottom Of Top Packer
Packer	5.00			3958.00	
Stubb	1.00			3959.00	
Recorder	0.00	8648	Inside	3959.00	
Recorder	0.00	6799	Inside	3959.00	
Perforations	16.00			3975.00	
Bullnose	5.00			3980.00	22.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42488

DST#: 2

ATTN: Mike Maune

Test Start: 2012.04.29 @ 16:16:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCM 60M 40o	0.590
816.00	Clean Gassy Oil 15G 85o	10.900
0.00	1260' GIP	0.000

Total Length: 936.00 ft Total Volume: 11.490 bbl

Num Fluid Samples: 0

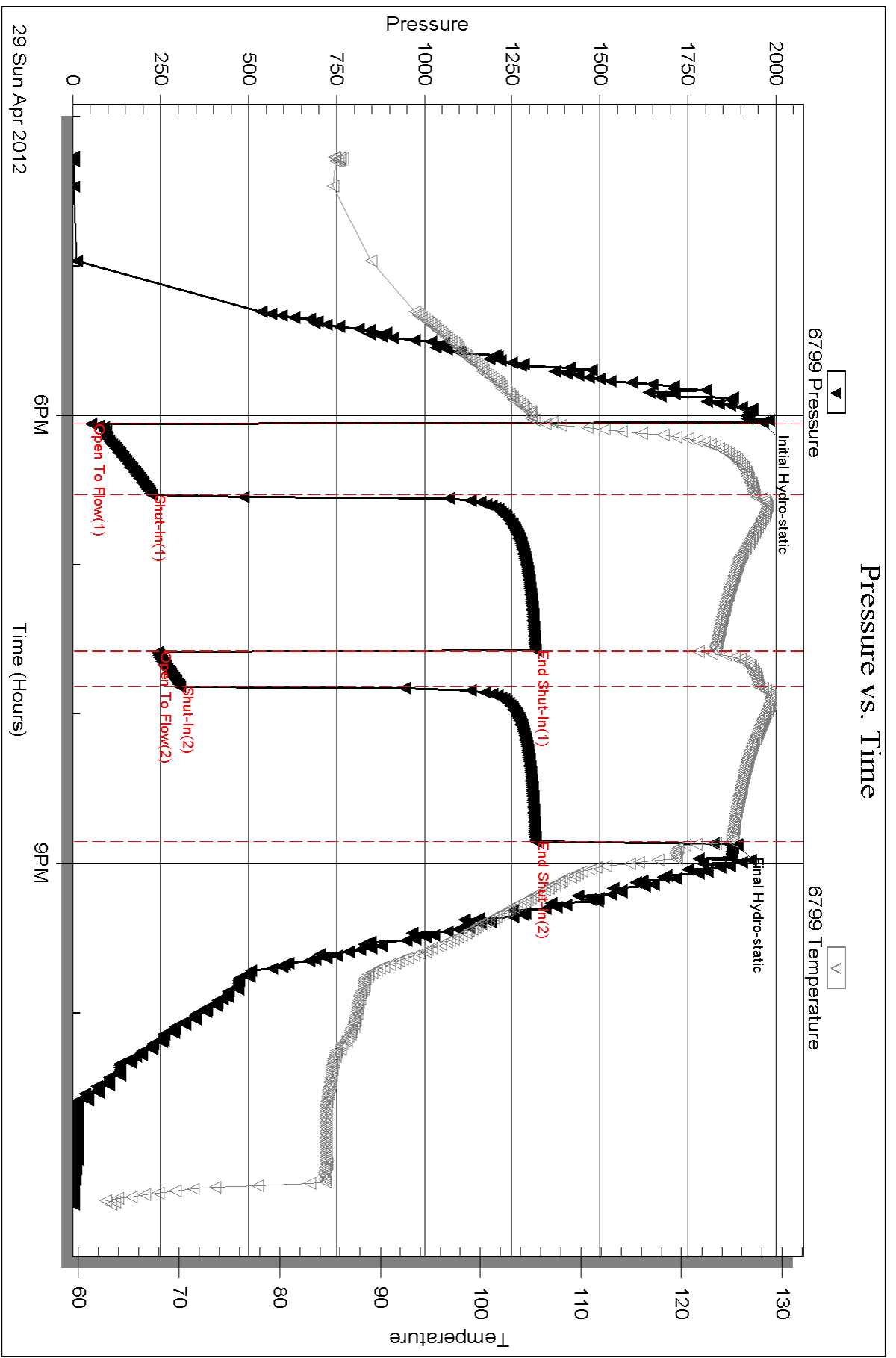
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 44@80 deg. = 43



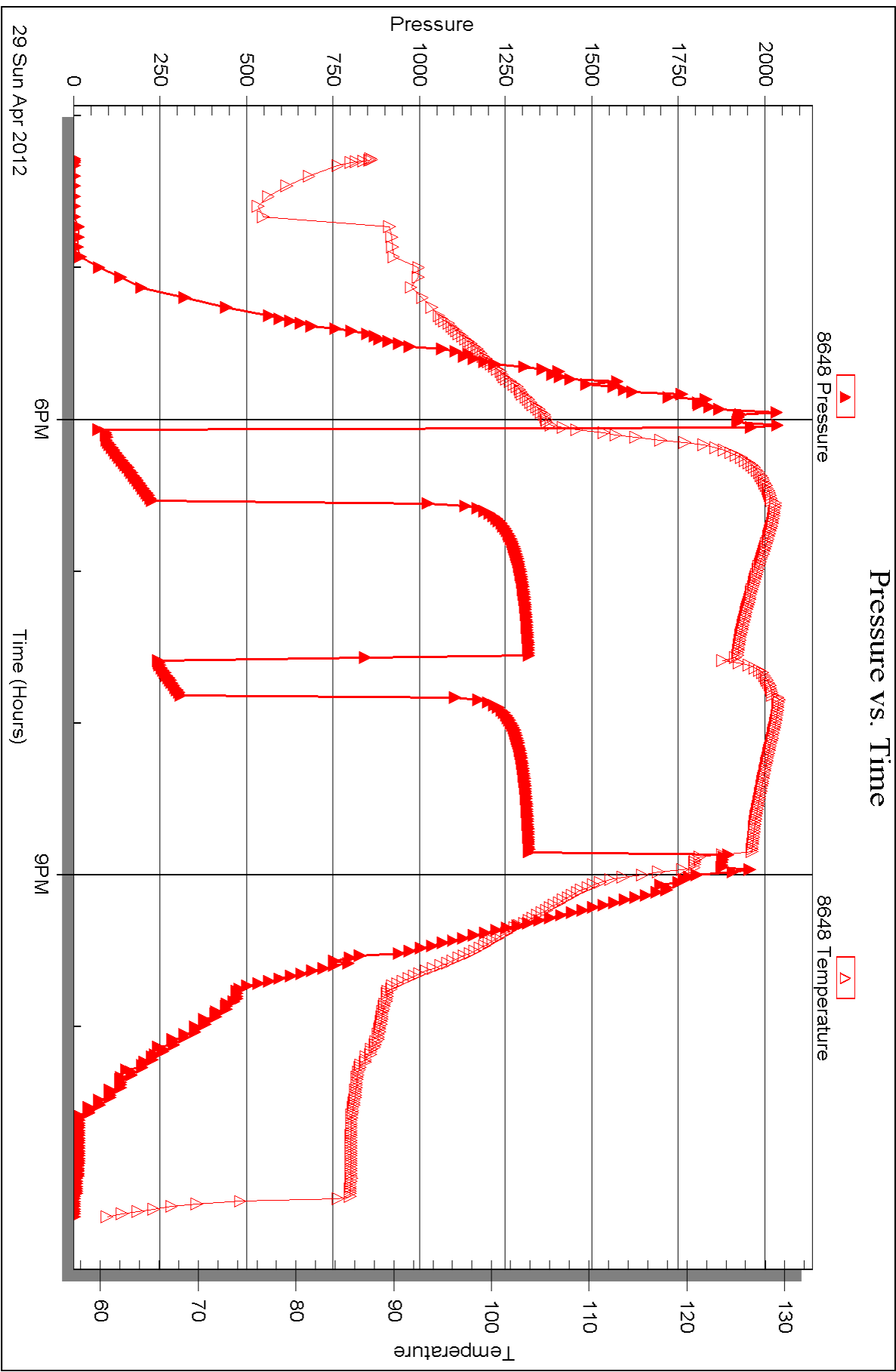
Serial #: 8648

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 42488

Printed: 2012.05.07 @ 14:31:53



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Mike Maune

Zola Unit #1-1

1-5s-31w Rawlins,KS

Start Date: 2012.04.30 @ 12:51:00

End Date: 2012.04.30 @ 20:52:45

Job Ticket #: 42489 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.07 @ 14:30:25

Murfin Drilling Co. 1-5s-31w Rawlins,KS Zola Unit #1-1 DST # 3 LKC "H,J,J" 2012.04.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Mike Maune

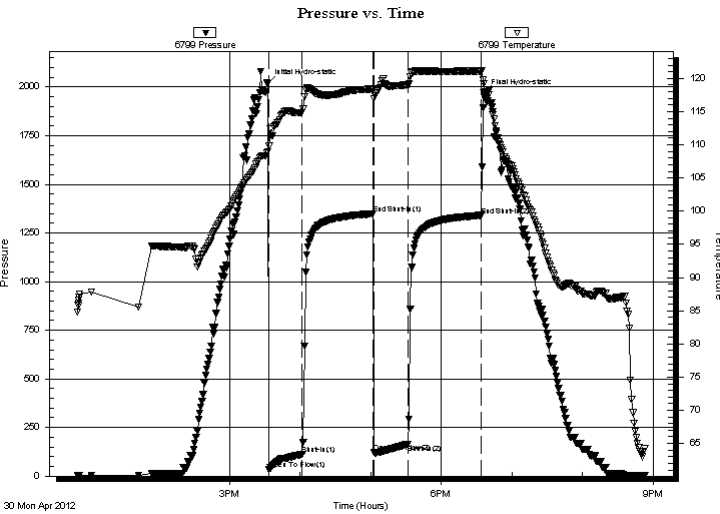
1-5s-31w Rawlins,KS
Zola Unit #1-1
Job Ticket: 42489 **DST#: 3**
Test Start: 2012.04.30 @ 12:51:00

GENERAL INFORMATION:

Formation: **LKC "H,I,J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:33:45
Time Test Ended: 20:52:45
Interval: **4020.00 ft (KB) To 4070.00 ft (KB) (TVD)**
Total Depth: 4070.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2871.00 ft (KB)
2866.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 Inside
Press @ Run Depth: 164.60 psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.30 End Date: 2012.04.30 Last Calib.: 2012.04.30
Start Time: 12:51:05 End Time: 20:52:44 Time On Btm: 2012.04.30 @ 15:32:45
Time Off Btm: 2012.04.30 @ 18:36:00

TEST COMMENT: 30- IF- Blow built to BoB in 15 min.
60- IS- Return Blow built to 3 3/4"
30- FF- Blow built to BoB in 8 min.
60- FS- Return Blow built to BoB in 22 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.90	108.99	Initial Hydro-static
1	36.51	109.76	Open To Flow (1)
29	113.01	114.87	Shut-In(1)
89	1348.23	118.39	End Shut-In(1)
90	122.31	116.98	Open To Flow (2)
119	164.60	119.04	Shut-In(2)
181	1340.51	121.07	End Shut-In(2)
184	1968.73	119.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 60o 40M	0.30
120.00	MCO 80o 20M	0.59
280.00	Free Oil 100o	3.93
0.00	850' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42489

DST#: 3

ATTN: Mike Maune

Test Start: 2012.04.30 @ 12:51:00

Tool Information

Drill Pipe:	Length: 3822.00 ft	Diameter: 3.80 inches	Volume: 53.61 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.50 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4020.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	79.00 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			3992.00	
Shut In Tool	5.00			3997.00	
Hydraulic tool	5.00			4002.00	
Jars	5.00			4007.00	
Safety Joint	3.00			4010.00	
Packer	5.00			4015.00	29.00 Bottom Of Top Packer
Packer	5.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	8648	Inside	4021.00	
Recorder	0.00	6799	Inside	4021.00	
Perforations	10.00			4031.00	
Change Over Sub	1.00			4032.00	
Drill Pipe	32.00			4064.00	
Change Over Sub	1.00			4065.00	
Bullnose	5.00			4070.00	50.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42489

DST#: 3

ATTN: Mike Maune

Test Start: 2012.04.30 @ 12:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCO 60o 40M	0.295
120.00	MCO 80o 20M	0.590
280.00	Free Oil 100o	3.928
0.00	850' GIP	0.000

Total Length: 460.00 ft Total Volume: 4.813 bbl

Num Fluid Samples: 0

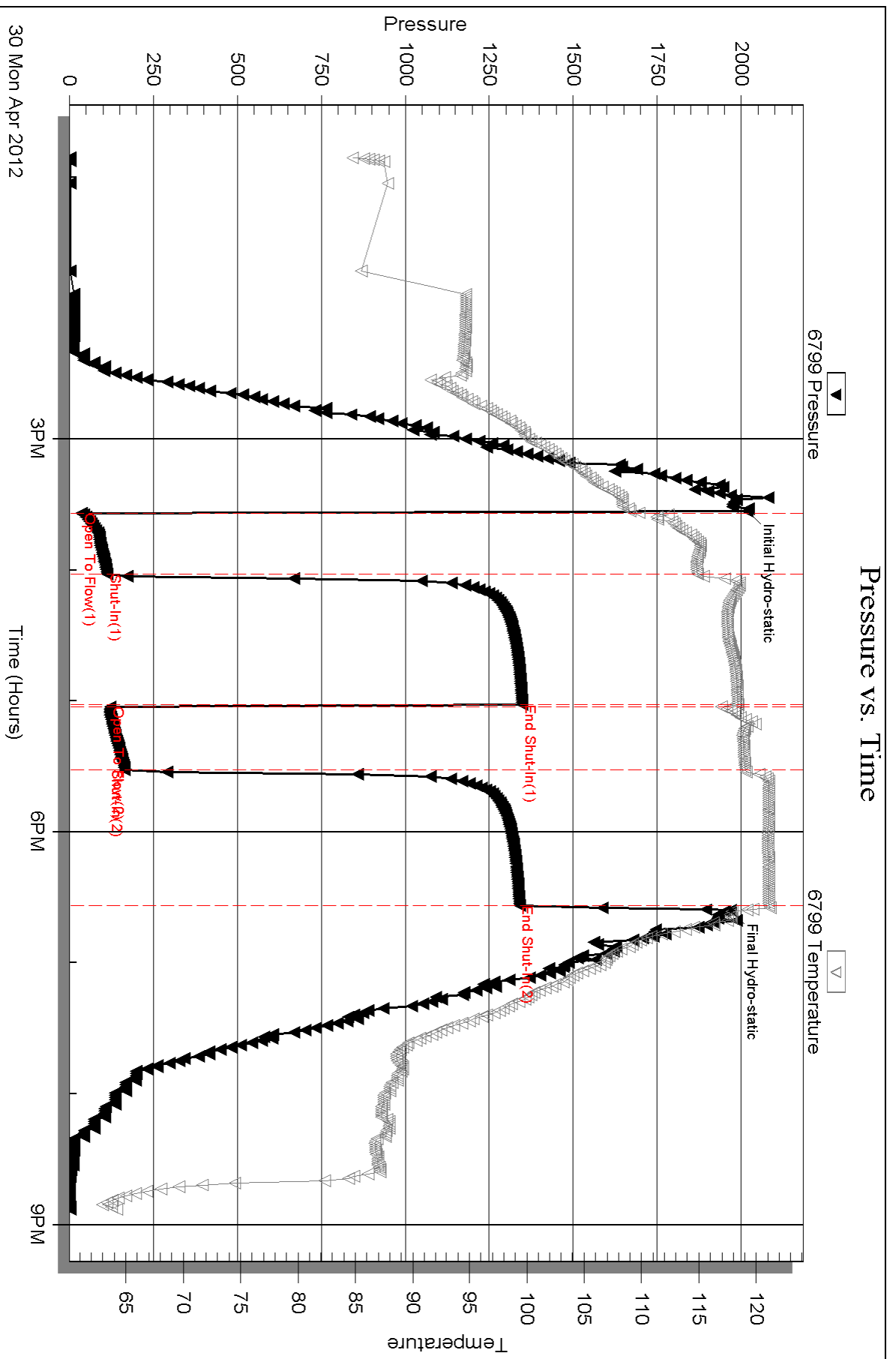
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 38 @ 90 deg. = 36



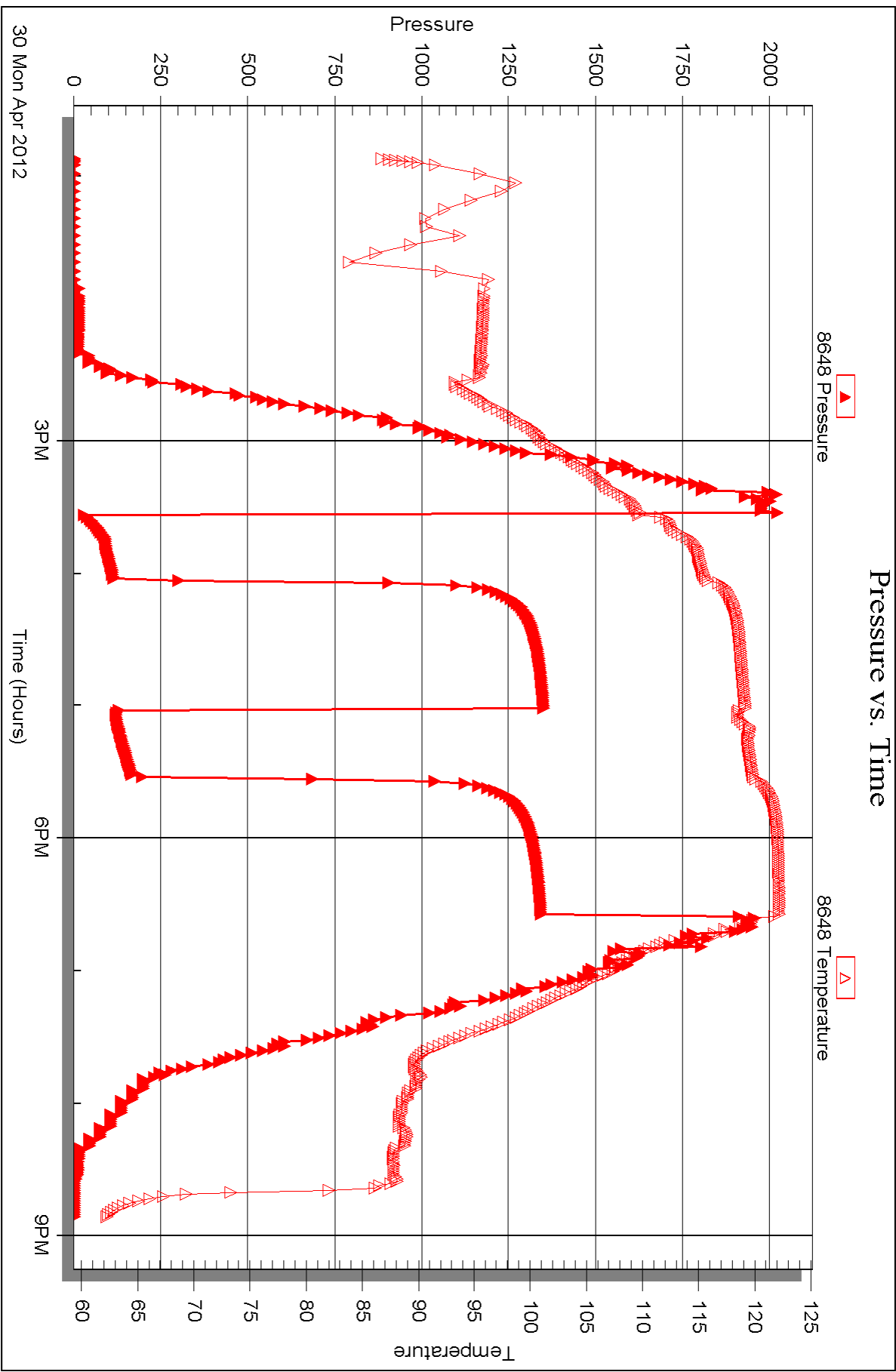
Serial #: 8648

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Mike Maune

Zola Unit #1-1

1-5s-31w Rawlins,KS

Start Date: 2012.05.01 @ 07:08:00

End Date: 2012.05.01 @ 15:10:15

Job Ticket #: 42490 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.07 @ 14:29:07

Murfin Drilling Co.
1-5s-31w Rawlins,KS
Zola Unit #1-1
DST # 4
LKC "K.L."
2012.05.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Mike Maune

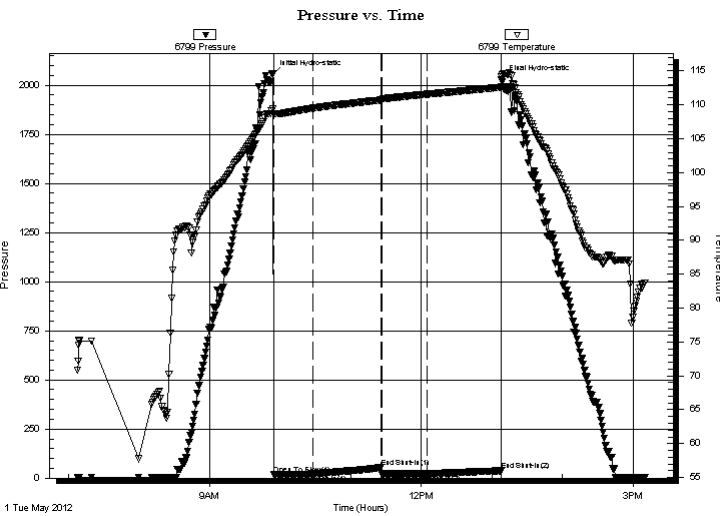
1-5s-31w Rawlins,KS
Zola Unit #1-1
Job Ticket: 42490 **DST#: 4**
Test Start: 2012.05.01 @ 07:08:00

GENERAL INFORMATION:

Formation: **LKC "K,L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:54:45
Time Test Ended: 15:10:15
Interval: **4066.00 ft (KB) To 4120.00 ft (KB) (TVD)**
Total Depth: 4120.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2871.00 ft (KB)
2866.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 Inside
Press @ Run Depth: 21.63 psig @ 4067.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.01 End Date: 2012.05.01 Last Calib.: 2012.05.01
Start Time: 07:08:05 End Time: 15:10:14 Time On Btm: 2012.05.01 @ 09:53:45
Time Off Btm: 2012.05.01 @ 13:08:15

TEST COMMENT: 30- IF- 1/4" Blow built to 3/4"
60- IS- No Return
30- FF- No Blow
60- FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.81	109.38	Initial Hydro-static
1	19.60	108.72	Open To Flow (1)
34	21.30	109.50	Shut-In(1)
92	53.27	110.70	End Shut-In(1)
93	20.75	110.81	Open To Flow (2)
131	21.63	111.56	Shut-In(2)
194	37.93	112.60	End Shut-In(2)
195	2026.18	114.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Mike Maune

1-5s-31w Rawlins,KS
Zola Unit #1-1
Job Ticket: 42490 **DST#: 4**
Test Start: 2012.05.01 @ 07:08:00

Tool Information

Drill Pipe:	Length: 3887.00 ft	Diameter: 3.80 inches	Volume: 54.52 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 55.41 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4066.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	83.00 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			4038.00	
Shut In Tool	5.00			4043.00	
Hydraulic tool	5.00			4048.00	
Jars	5.00			4053.00	
Safety Joint	3.00			4056.00	
Packer	5.00			4061.00	29.00 Bottom Of Top Packer
Packer	5.00			4066.00	
Stubb	1.00			4067.00	
Recorder	0.00	8648	Inside	4067.00	
Recorder	0.00	6799	Inside	4067.00	
Perforations	14.00			4081.00	
Change Over Sub	1.00			4082.00	
Drill Pipe	32.00			4114.00	
Change Over Sub	1.00			4115.00	
Bullnose	5.00			4120.00	54.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42490

DST#: 4

ATTN: Mike Maune

Test Start: 2012.05.01 @ 07:08:00

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: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

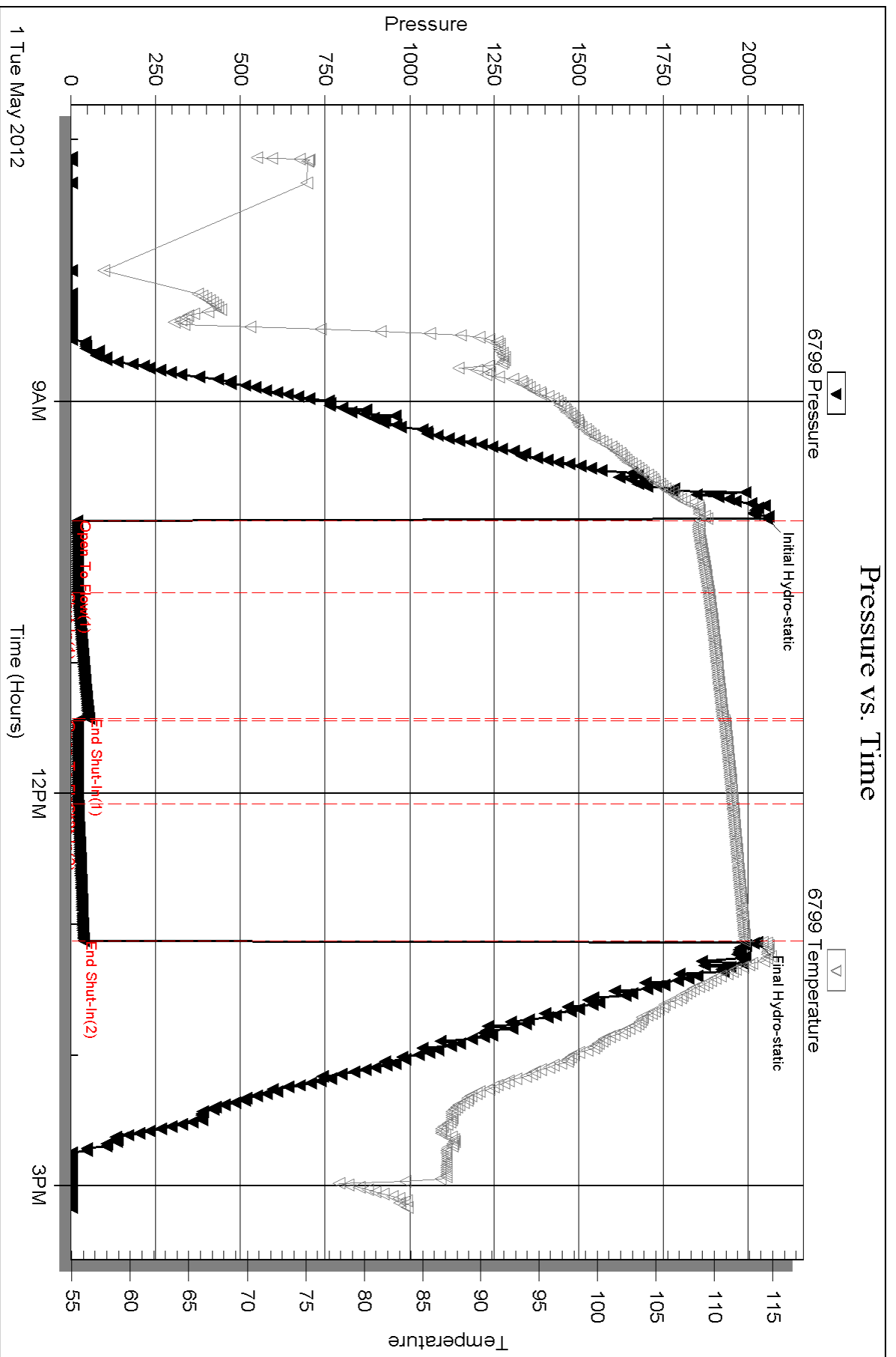
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



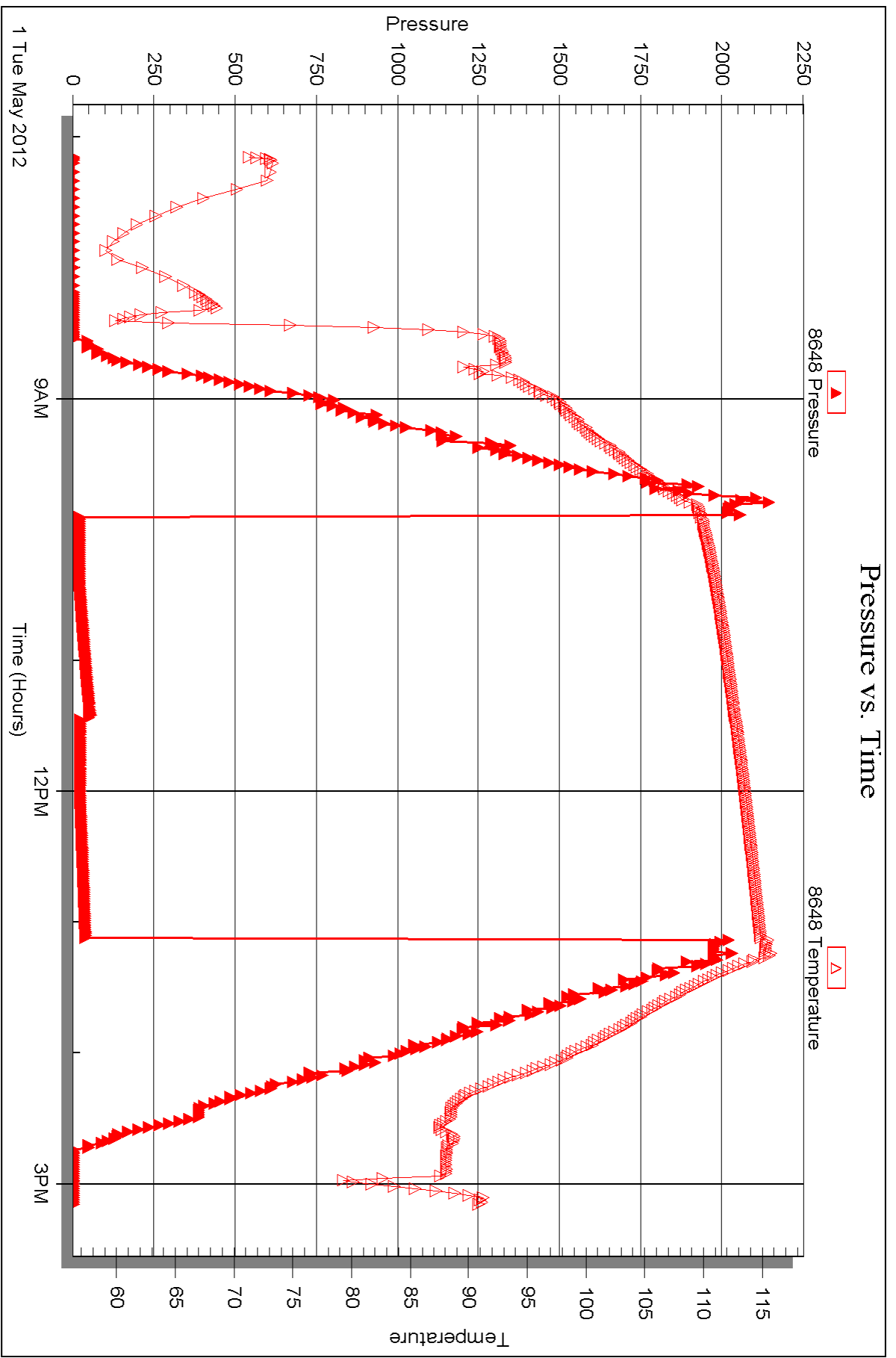
Serial #: 8648

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Mike Maune

Zola Unit #1-1

1-5s-31w Rawlins,KS

Start Date: 2012.05.02 @ 12:01:00

End Date: 2012.05.02 @ 19:04:45

Job Ticket #: 42491 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.07 @ 14:28:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Mike Maune

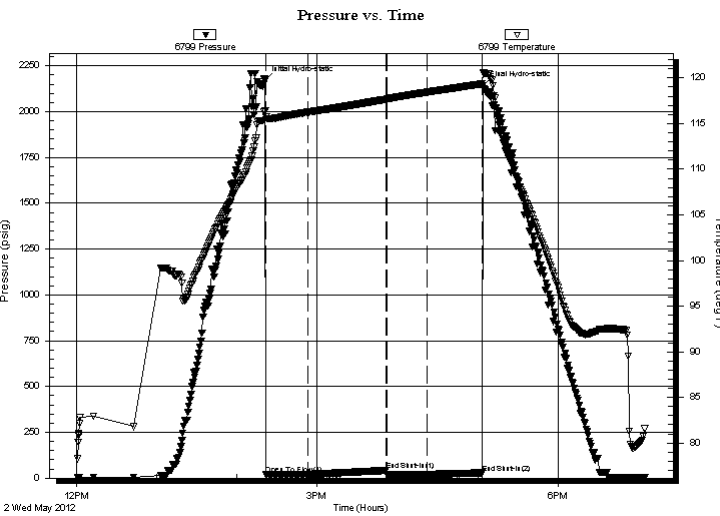
1-5s-31w Rawlins,KS
Zola Unit #1-1
 Job Ticket: 42491 **DST#: 5**
 Test Start: 2012.05.02 @ 12:01:00

GENERAL INFORMATION:

Formation: **Pawnee, Ft. Scott, S**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:22:00
 Time Test Ended: 19:04:45
 Interval: **4272.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Total Depth: 4340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 43
 Reference Elevations: 2871.00 ft (KB)
 2866.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6799 Inside
 Press @ Run Depth: 21.31 psig @ 4273.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.02 End Date: 2012.05.02 Last Calib.: 2012.05.02
 Start Time: 12:01:05 End Time: 19:04:44 Time On Btm: 2012.05.02 @ 14:21:15
 Time Off Btm: 2012.05.02 @ 17:04:00

TEST COMMENT: 30- IF-Weak surface blow built to 1/8" then died at 25 min.
 60- IS- No Return
 30- FF- No Blow
 30- FS- No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.35	116.40	Initial Hydro-static
1	19.78	115.69	Open To Flow (1)
32	20.08	116.25	Shut-In(1)
90	42.33	117.65	End Shut-In(1)
91	20.44	117.66	Open To Flow (2)
121	21.31	118.44	Shut-In(2)
162	28.69	119.35	End Shut-In(2)
163	2143.07	120.61	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42491

DST#: 5

ATTN: Mike Maune

Test Start: 2012.05.02 @ 12:01:00

Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.80 inches	Volume: 57.16 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 58.05 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4272.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4244.00	
Shut In Tool	5.00			4249.00	
Hydraulic tool	5.00			4254.00	
Jars	5.00			4259.00	
Safety Joint	3.00			4262.00	
Packer	5.00			4267.00	29.00 Bottom Of Top Packer
Packer	5.00			4272.00	
Stubb	1.00			4273.00	
Recorder	0.00	8648	Inside	4273.00	
Recorder	0.00	6799	Inside	4273.00	
Perforations	28.00			4301.00	
Change Over Sub	1.00			4302.00	
Drill Pipe	32.00			4334.00	
Change Over Sub	1.00			4335.00	
Bullnose	5.00			4340.00	68.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-5s-31w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Zola Unit #1-1

Job Ticket: 42491

DST#: 5

ATTN: Mike Maune

Test Start: 2012.05.02 @ 12:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

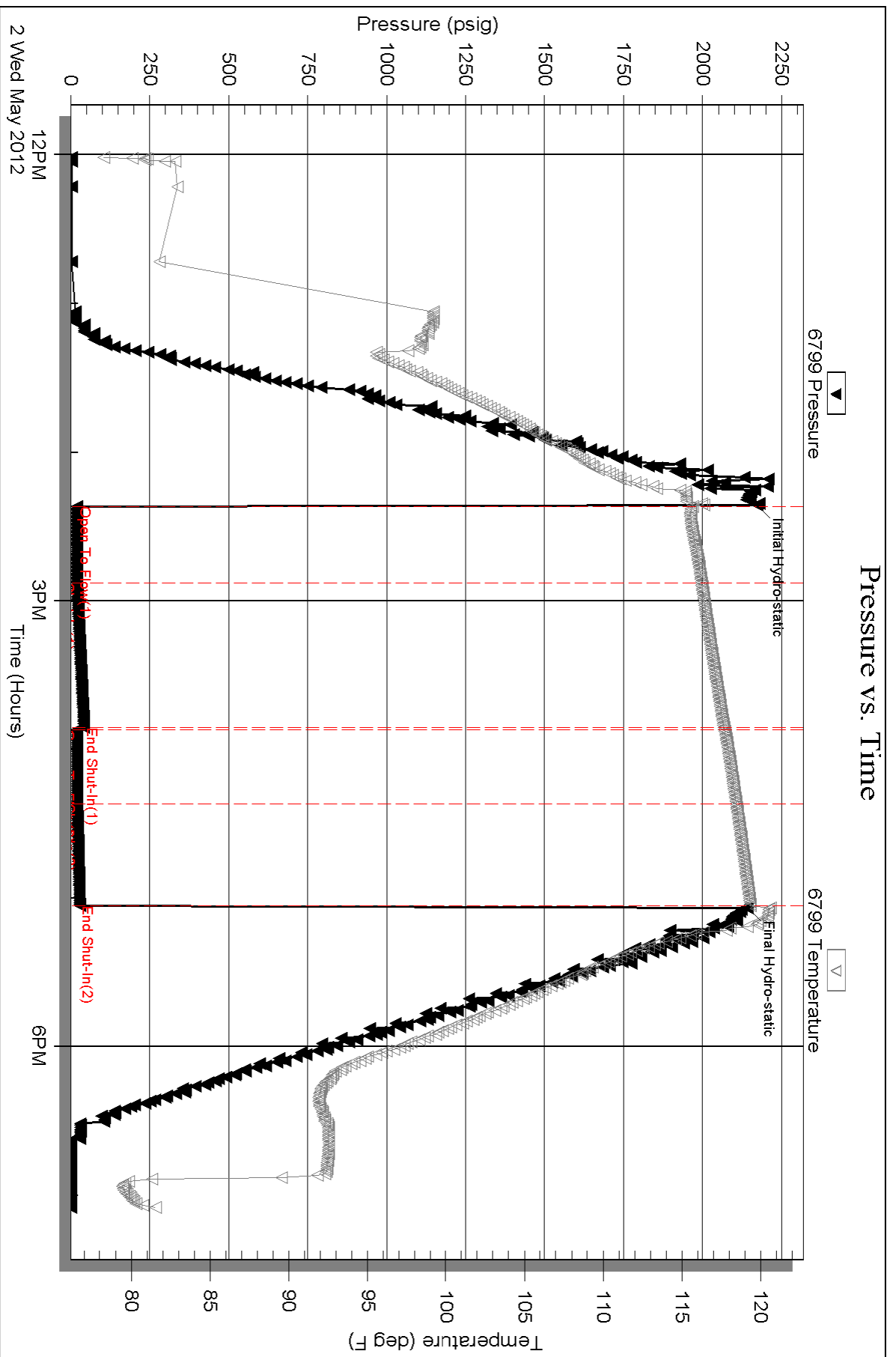
Serial #: 6799

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 42491

Printed: 2012.05.07 @ 14:28:15

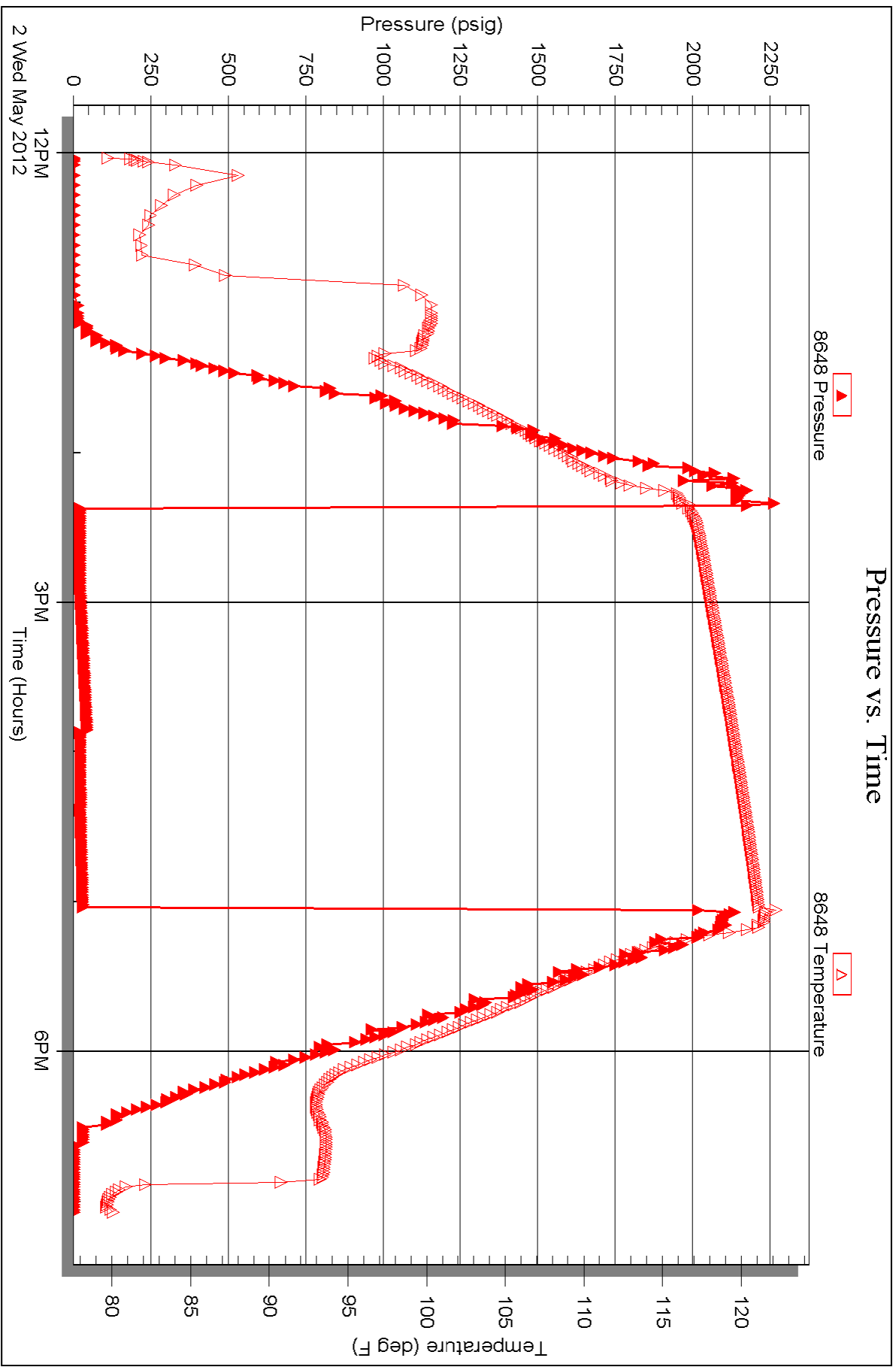
Serial #: 8648

Inside

Murfin Drilling Co.

Zola Unit #1-1

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042487

Well Name & No. Murfin Drilling Co. Test No. 1 Date 4-28-12
 Company Zola Unit #1-1 Elevation 2871 KB 2866 GL
 Address 250 N. Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Murfin #8
 Location: Sec. 1 Twp. 5s Rge. 31w Co. Rawlins State KS

Interval Tested 3854-3937 Zone Tested TOR - LKC "A, B"
 Anchor Length 83' Drill Pipe Run 3665 Mud Wt. 9.0
 Top Packer Depth 3850 Drill Collars Run 180 Vis 57
 Bottom Packer Depth 3854 Wt. Pipe Run Ø WL 4.8
 Total Depth 3937 Chlorides 1,500 ppm System LCM 6#
 Blow Description IF - Blow built to BoB in 30 min
IS - No Return
FF - Blow built to BoB in 33 min.
FS - No Return

Rec	Feet of	%gas	%oil	%water	%mud
10	Free Oil	100			
62	OCM	20		80	
124	OCWM	10	10	80	
180	MW		90	10	

Rec Total 376 BHT 117 Gravity - API RW .76 @ 71 °F Chlorides 9,000 ppm
 (A) Initial Hydrostatic 1907 Test 1150 T-On Location 9:45 PM
 (B) First Initial Flow 28 Jars 250 T-Started 10:26 PM
 (C) First Final Flow 127 Safety Joint 75 T-Open 12:52 AM
 (D) Initial Shut-In 1239 Circ Sub N/C T-Pulled 4:52 AM
 (E) Second Initial Flow 129 Hourly Standby 1/4 hr 25 T-Out 7:02 AM
 (F) Second Final Flow 195 Mileage 62 RT 960
 (G) Final Shut-In 1216 Sampler
 (H) Final Hydrostatic 1919 Straddle
 Shale Packer
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total Ø
 Total 1596.10
 MP/DST Disc't _____
 Sub Total 1596.10

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042488

Well Name & No. Zula Unit #1-1 Test No. 2 Date 4-29-12
 Company Murfin Drilling Co. Elevation 2871 KB 2866 GL
 Address 250 N Water STE #300 Wichita KS 67202
 Co. Rep / Geo. Mike Maune Rig Murfin #8
 Location: Sec. 1 Twp. 5s Rge. 31w Co. Rawlins State KS

Interval Tested 3958-3980 Zone Tested LKC "F"
 Anchor Length 22' Drill Pipe Run 3759 Mud Wt. 9.2
 Top Packer Depth 3954 Drill Collars Run 180 Vis 53
 Bottom Packer Depth 3958 Wt. Pipe Run Ø WL 5.2
 Total Depth 3980 Chlorides 1500 ppm System LCM 6#

Blow Description IF - Blow built to BOB in 3 min
IS - Return built to BOB in 20 min.
FF - Blow built to BOB in 5 min
FS - Blow built to BOB in 40 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>316</u>	<u>Feet of Clean Gassy Oil</u>	<u>15</u>	<u>78.5</u>	<u>Ø</u>	<u>Ø</u>
<u>120</u>	<u>Feet of OCM</u>	<u>Ø</u>	<u>40</u>	<u>60</u>	<u>Ø</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 936 BHT 125 Gravity 43 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>1961</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>3:38 PM</u>
(B) First Initial Flow	<u>52</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>4:16 PM</u>
(C) First Final Flow	<u>224</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>6:03 PM</u>
(D) Initial Shut-In	<u>1316</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIC</u>	T-Pulled	<u>8:48 PM</u>
(E) Second Initial Flow	<u>241</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>11:17 PM</u>
(F) Second Final Flow	<u>305</u>	<input checked="" type="checkbox"/> Mileage	<u>62 RT 96.10</u>	Comments	<u>1260' GIP</u>
(G) Final Shut-In	<u>1316</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1888</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>15</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>Ø</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1571.10</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1571.10</u>		

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042489

Well Name & No. Zula Unit #1-1 Test No. 3 Date 4-30-12
 Company Murfin Drilling Co. Elevation 2871 KB 2866 GL
 Address 250 N Waver STE #300 Wichita, KS 67202
 Co. Rep / Geo. Mike Mavne Rig Murfin #8
 Location: Sec. 1 Twp. S3 Rge. 3/W Co. Rawlins State KS

Interval Tested 4020 - 4070 Zone Tested LKC "H₁I₁J₁"
 Anchor Length 50' Drill Pipe Run 3822 Mud Wt. 9.1
 Top Packer Depth 4016 Drill Collars Run 180 Vis 49
 Bottom Packer Depth 4020 Wt. Pipe Run Ø WL 4.8
 Total Depth 4070 Chlorides 1,500 ppm System LCM 6[#]
 Blow Description IF - Blow built to BoB in 15 min.
IS - Return built to 3 3/4"
FF - Blow built to BoB in 8 min.
ES -

Rec	Feet of	%gas	%oil	%water	%mud
<u>280</u>	<u>Free Oil</u>	<u>100</u>			
<u>120</u>	<u>MCO</u>	<u>80</u>		<u>20</u>	
<u>60</u>	<u>MCO</u>	<u>60</u>		<u>40</u>	

Rec Total 460 BHT 121 Gravity 36 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic	<u>2017</u>	<input checked="" type="checkbox"/> Test	<u>1250'</u>	T-On Location	<u>12:00 PM</u>
(B) First Initial Flow	<u>36</u>	<input checked="" type="checkbox"/> Jars	<u>250'</u>	T-Started	<u>12:51 PM</u>
(C) First Final Flow	<u>113</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75'</u>	T-Open	<u>3:32 PM</u>
(D) Initial Shut-In	<u>1348</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIC</u>	T-Pulled	<u>6:32 PM</u>
(E) Second Initial Flow	<u>122</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>8:53 PM</u>
(F) Second Final Flow	<u>164</u>	<input checked="" type="checkbox"/> Mileage	<u>62 RT 96.10</u>	Comments	<u>850' GFP</u>
(G) Final Shut-In	<u>1340</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1968</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>Ø</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1671.10</u>
		<input type="checkbox"/> Accessibility	MP/DST Disc't
		Sub Total <u>1671.10</u>	

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042490

Well Name & No. Zola Unit #1-1 Test No. 4 Date 5-1-12
 Company Murfin Drilling Co. Elevation 2871 KB 2866 GL
 Address 250 N. Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Murfin #8
 Location: Sec. 1 Twp. 5s Rge. 3lw Co. Rawlins State KS

Interval Tested 4066-4120 Zone Tested LKC "K,L"
 Anchor Length 54' Drill Pipe Run 3887 Mud Wt. 9.2
 Top Packer Depth 4062 Drill Collars Run 180' Vis 60
 Bottom Packer Depth 4066 Wt. Pipe Run Ø WL 5.6
 Total Depth 4120 Chlorides 1,500 ppm System LCM 6#
 Blow Description IF- 1/4" Blow built to 3/4"
IS- No Return
FF- No Blow
FS- No Return

Rec	Feet of	%gas	SPOTS	%oil	%water	%mud
<u>5</u>	<u>OSM</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 Total 5 BHT 112 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2055</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:50 AM</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>7:08 AM</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:54 AM</u>
(D) Initial Shut-In <u>53</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>12:54 PM</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>3:10 PM</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT 96.10</u>	Comments
(G) Final Shut-In <u>37</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2026</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>Ø</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1671.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1671.10</u>	

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042491

Well Name & No. Zola Unit #1 Test No. 5 Date 5-2-12
 Company Murfin Drilling Co. Elevation 2871 KB 2866 GL
 Address 250 N Water STE # 300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Murfin #8
 Location: Sec. 1 Twp. 5s Rge. 31w Co. Rawlins State KS

Interval Tested 4272-4340 Zone Tested Pawnee - Ft. Scott - Scorum Sp.
 Anchor Length 68' Drill Pipe Run 4075 Mud Wt. 8.3
 Top Packer Depth 4268 Drill Collars Run 180' Vis 50
 Bottom Packer Depth 4272 Wt. Pipe Run 6 WL 6.0
 Total Depth 4340 Chlorides 6500 ppm System LCM 6#

Blow Description IF - Weak surface blow built to 1/8" then died at 25 min.
IS - No Return
FF - No Blow
FS - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 Total 5 BHT 120 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2171</u>	<input checked="" type="checkbox"/> Test <u>1250'</u>	T-On Location <u>10:50 AM</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>12:01 PM</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>2:21 PM</u>
(D) Initial Shut-In <u>42 42</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>4:51 PM</u>
(E) Second Initial Flow <u>20 20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:05 PM</u>
(F) Second Final Flow <u>21 21</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT 96.10</u>	Comments
(G) Final Shut-In <u>28 28</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2143</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1671.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1671.10</u>	

Approved By _____ Our Representative

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.