



DRILL STEM TEST REPORT

Prepared For: **Siroky Oil Management**

PO Box 464
Pratt, KS 6724

ATTN: Sean Deenihan/Ryan D

Green Group #1-24

24-27S-12W Pratt,KS

Start Date: 2018.06.08 @ 10:26:03

End Date: 2018.06.08 @ 17:04:05

Job Ticket #: 59872 DST #: 1

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

Printed: 2018.06.13 @ 10:50:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

ATTN: Sean Deenihan/Ryan D

Job Ticket: 59872

DST#: 1

Test Start: 2018.06.08 @ 10:26:03

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:23:35

Time Test Ended: 17:04:05

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 3678.00 ft (KB) To 3690.00 ft (KB) (TVD)

Reference Elevations: 1809.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

1797.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8875

Inside

Press@RunDepth: 96.42 psig @ 3679.00 ft (KB)

Capacity: psig

Start Date: 2018.06.08

End Date: 2018.06.08

Last Calib.: 2018.06.08

Start Time: 10:26:04

End Time: 17:04:05

Time On Btm: 2018.06.08 @ 12:18:05

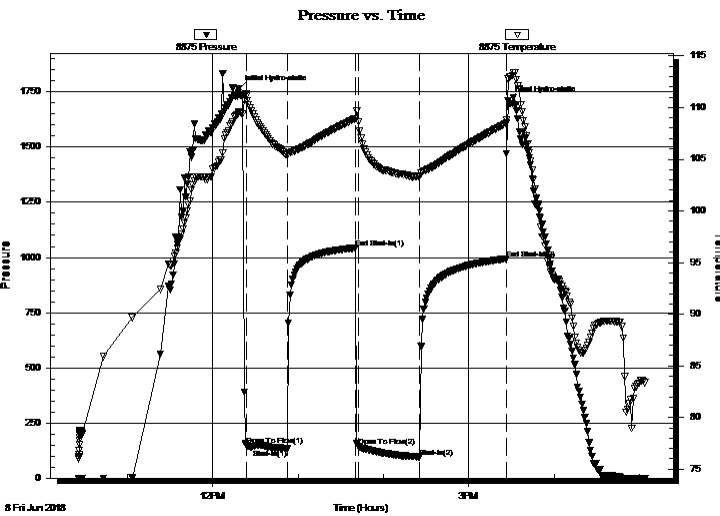
Time Off Btm: 2018.06.08 @ 15:27:20

TEST COMMENT: IF: Strong Blow , BOB in 10 seconds, GTS in 5 minutes, Caught Sample & Gauged Gas

IS: No Blow Back

FF: Strong Blow , BOB & GTS Immediate, Gauged Gas

FS: Weak 1/2 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.70	109.44	Initial Hydro-static
6	148.16	111.12	Open To Flow (1)
35	132.66	105.36	Shut-In(1)
82	1042.31	108.94	End Shut-In(1)
85	144.36	108.58	Open To Flow (2)
128	96.42	103.32	Shut-In(2)
188	994.20	108.50	End Shut-In(2)
190	1711.38	112.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3550 GIP	0.00
61.00	SOGMCW 5%G 5%O 10%M 80%W	0.30
61.00	SOGMCW 4%G 1%O 30%M 65%W	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	75.00	327.49
Last Gas Rate	0.50	23.00	252.29
Max. Gas Rate	0.38	75.00	327.49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59872

DST#: 1

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.08 @ 10:26:03

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 bbl	Tool Weight: 2100.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 50.40 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3678.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer On Bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3664.00	
Hydraulic tool	5.00			3669.00	
Packer	5.00			3674.00	19.00 Bottom Of Top Packer
Packer	4.00			3678.00	
Stubb	1.00			3679.00	
Recorder	0.00	8875	Inside	3679.00	
Recorder	0.00	6749	Outside	3679.00	
Perforations	8.00			3687.00	
Bullnose	3.00			3690.00	12.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Siroky Oil Management

24-27S-12W Pratt,KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59872

DST#: 1

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.08 @ 10:26:03

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	3550 GIP	0.000
61.00	SOGMCW 5%G 5%O 10%M 80%W	0.300
61.00	SOGMCW 4%G 1%O 30%M 65%W	0.300

Total Length: 122.00 ft Total Volume: 0.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .11 @88 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59872

DST#: 1

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.08 @ 10:26:03

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	75.00	327.49
1	20	0.50	54.00	461.41
1	30	0.50	43.00	387.20
2	10	0.50	38.00	353.47
2	20	0.50	31.00	306.25
2	30	0.50	26.00	272.53
2	40	0.50	24.00	259.04
2	45	0.50	23.00	252.29

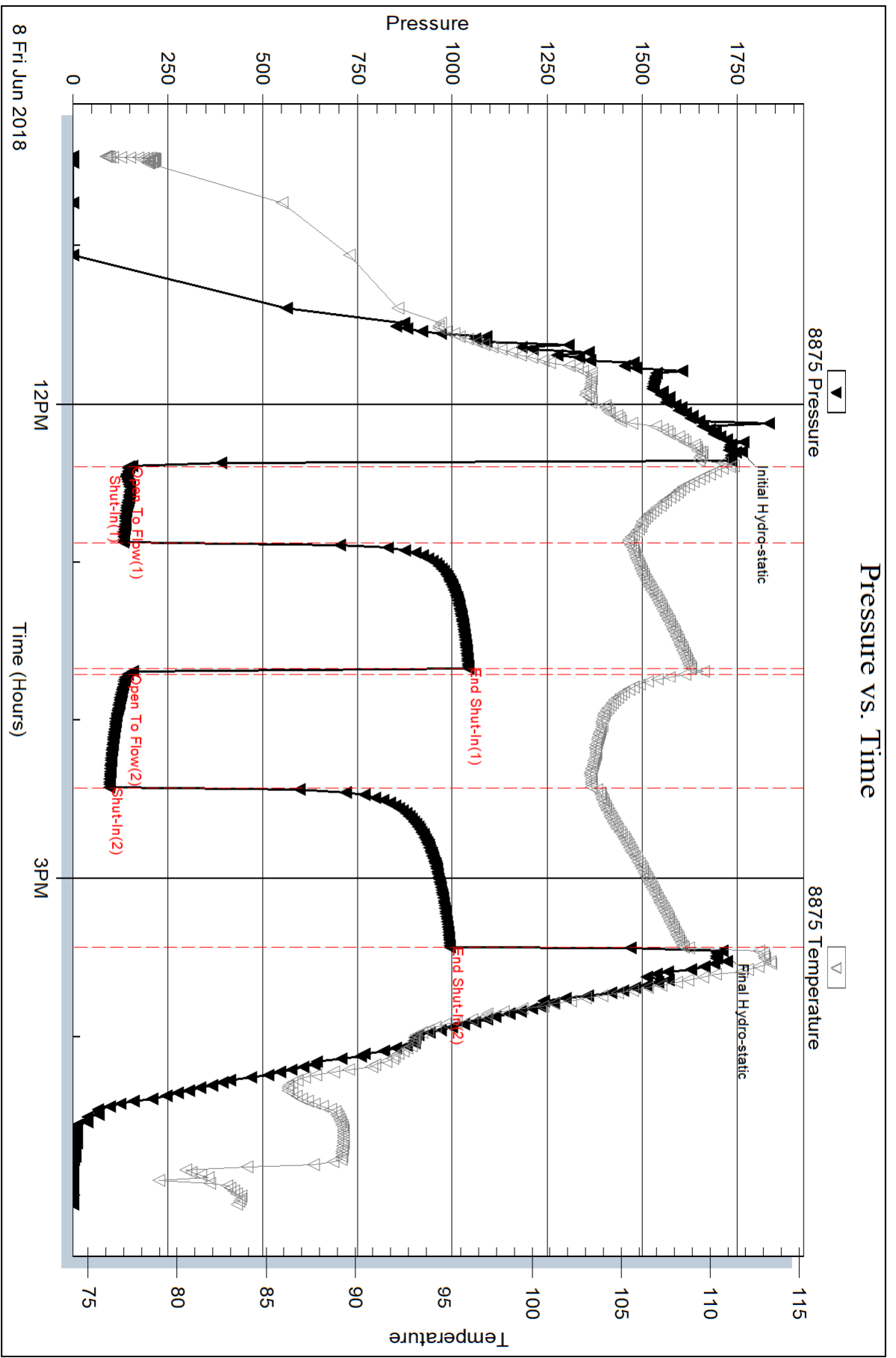
Serial #: 8875

Inside

Siroky Oil Management

Green Group #1-24

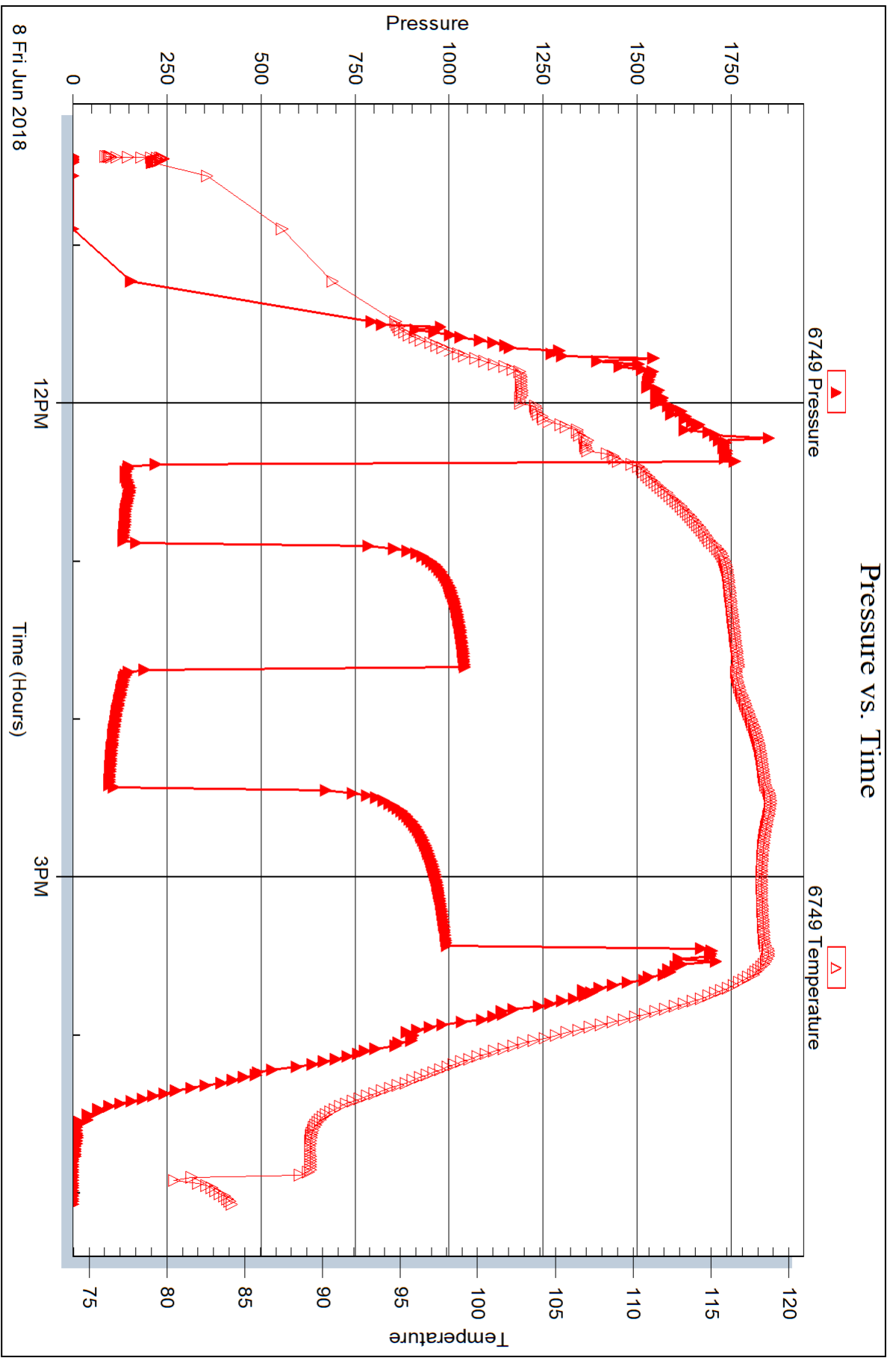
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59872

Printed: 2018.06.13 @ 10:50:31





DRILL STEM TEST REPORT

Prepared For: **Siroky Oil Management**

PO Box 464
Pratt, KS 6724

ATTN: Sean Deenihan/Ryan D

Green Group #1-24

24-27S-12W Pratt,KS

Start Date: 2018.06.09 @ 04:22:09

End Date: 2018.06.09 @ 11:32:11

Job Ticket #: 59873 DST #: 2

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

Printed: 2018.06.13 @ 14:27:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

ATTN: Sean Deenihan/Ryan D

Job Ticket: 59873

DST#: 2

Test Start: 2018.06.09 @ 04:22:09

GENERAL INFORMATION:

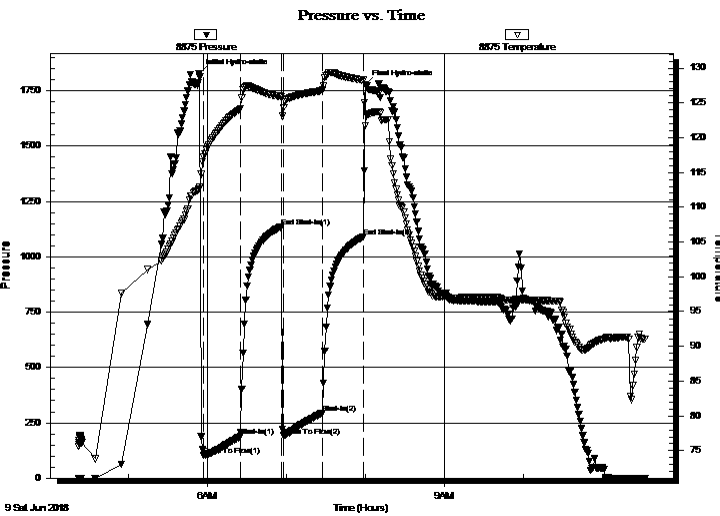
Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:57:11
 Time Test Ended: 11:32:11
 Interval: **3806.00 ft (KB) To 3826.00 ft (KB) (TVD)**
 Total Depth: 3826.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1809.00 ft (KB)
 1797.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8875

Inside

Press@RunDepth: 294.51 psig @ 3807.00 ft (KB) Capacity: psig
 Start Date: 2018.06.09 End Date: 2018.06.09 Last Calib.: 2018.06.09
 Start Time: 04:22:10 End Time: 11:32:11 Time On Btm: 2018.06.09 @ 05:53:41
 Time Off Btm: 2018.06.09 @ 08:00:11

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 10 minutes, Gauged Gas
 IS: Blow Back Built to BOB in 4 minutes, Built to 33 inches
 FF: Strong Blow , BOB & GTS Immediate, TSTM, Blow Built to 322 inches
 FS: Blow Back Built to 126 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1828.49	112.67	Initial Hydro-static
4	102.39	117.22	Open To Flow (1)
32	188.03	124.13	Shut-In(1)
63	1136.29	125.93	End Shut-In(1)
65	190.90	124.33	Open To Flow (2)
94	294.51	126.84	Shut-In(2)
125	1090.55	128.25	End Shut-In(2)
127	1778.84	121.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
122.00	GMCO 10%G 20%M 70%O	0.60
1688.00	GSY Oil 20%G 80%O	23.68

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	12.00	96.71
Last Gas Rate	0.25	19.00	52.99
Max. Gas Rate	0.25	19.00	52.99



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Siroky Oil Management

24-27S-12W Pratt,KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59873

DST#: 2

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.09 @ 04:22:09

Tool Information

Drill Pipe:	Length: 3677.00 ft	Diameter: 3.80 inches	Volume: 51.58 bbl	Tool Weight:	2100.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	3806.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	39.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Shale Packer on Bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3792.00	
Hydraulic tool	5.00			3797.00	
Packer	5.00			3802.00	19.00 Bottom Of Top Packer
Packer	4.00			3806.00	
Stubb	1.00			3807.00	
Recorder	0.00	8875	Inside	3807.00	
Recorder	0.00	6749	Outside	3807.00	
Perforations	16.00			3823.00	
Bullnose	3.00			3826.00	20.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59873

DST#: 2

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.09 @ 04:22:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33.7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GTS	0.000
122.00	GMCO 10%G 20%M 70%O	0.600
1688.00	GSY Oil 20%G 80%O	23.678

Total Length: 1810.00 ft Total Volume: 24.278 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Dropped Bar, Reversed Out

Gravity was 36.3 @86 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59873

DST#: 2

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.09 @ 04:22:09

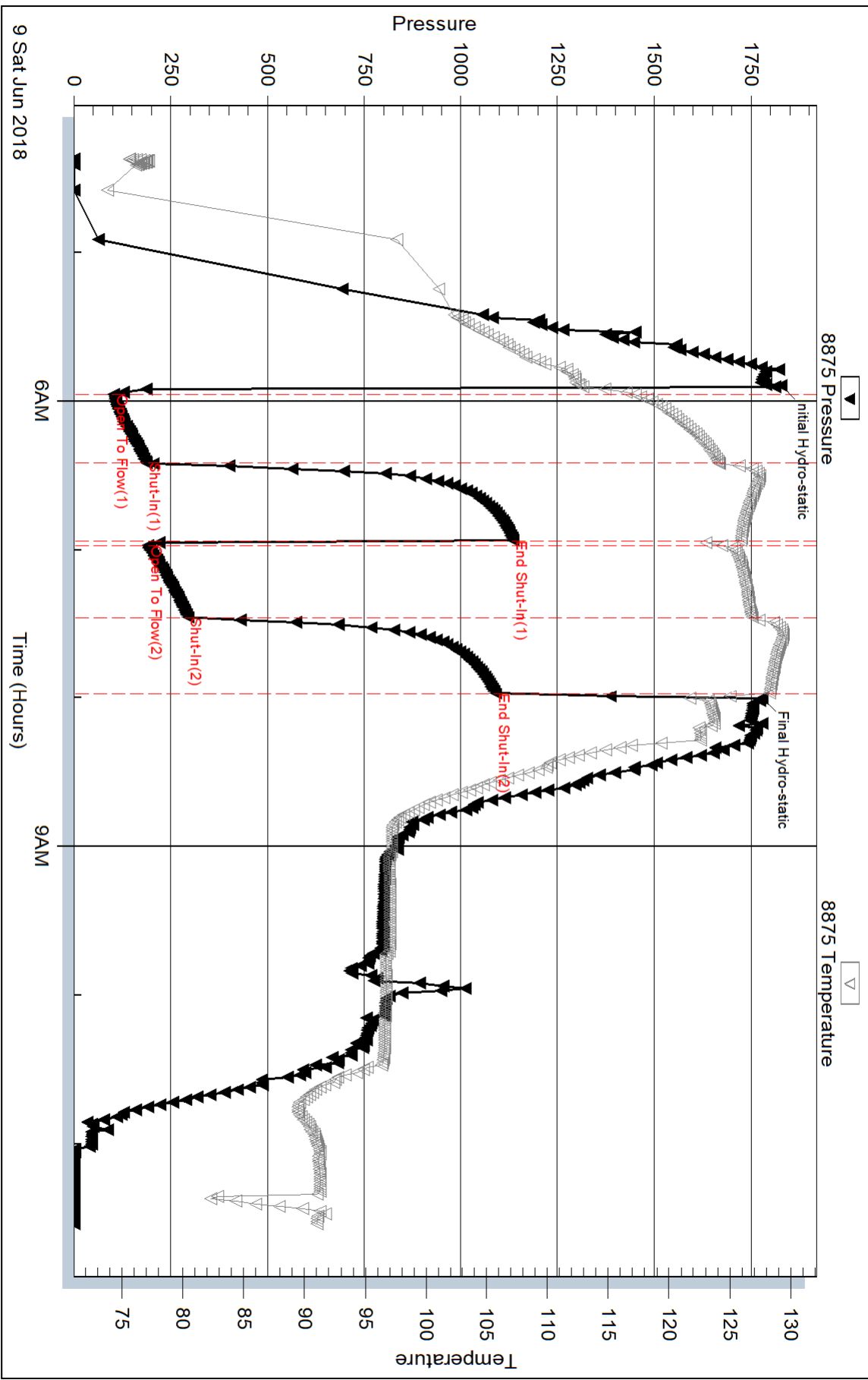
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	12.00	96.71
1	20	0.25	17.00	49.81
1	30	0.25	19.00	52.99

Pressure vs. Time

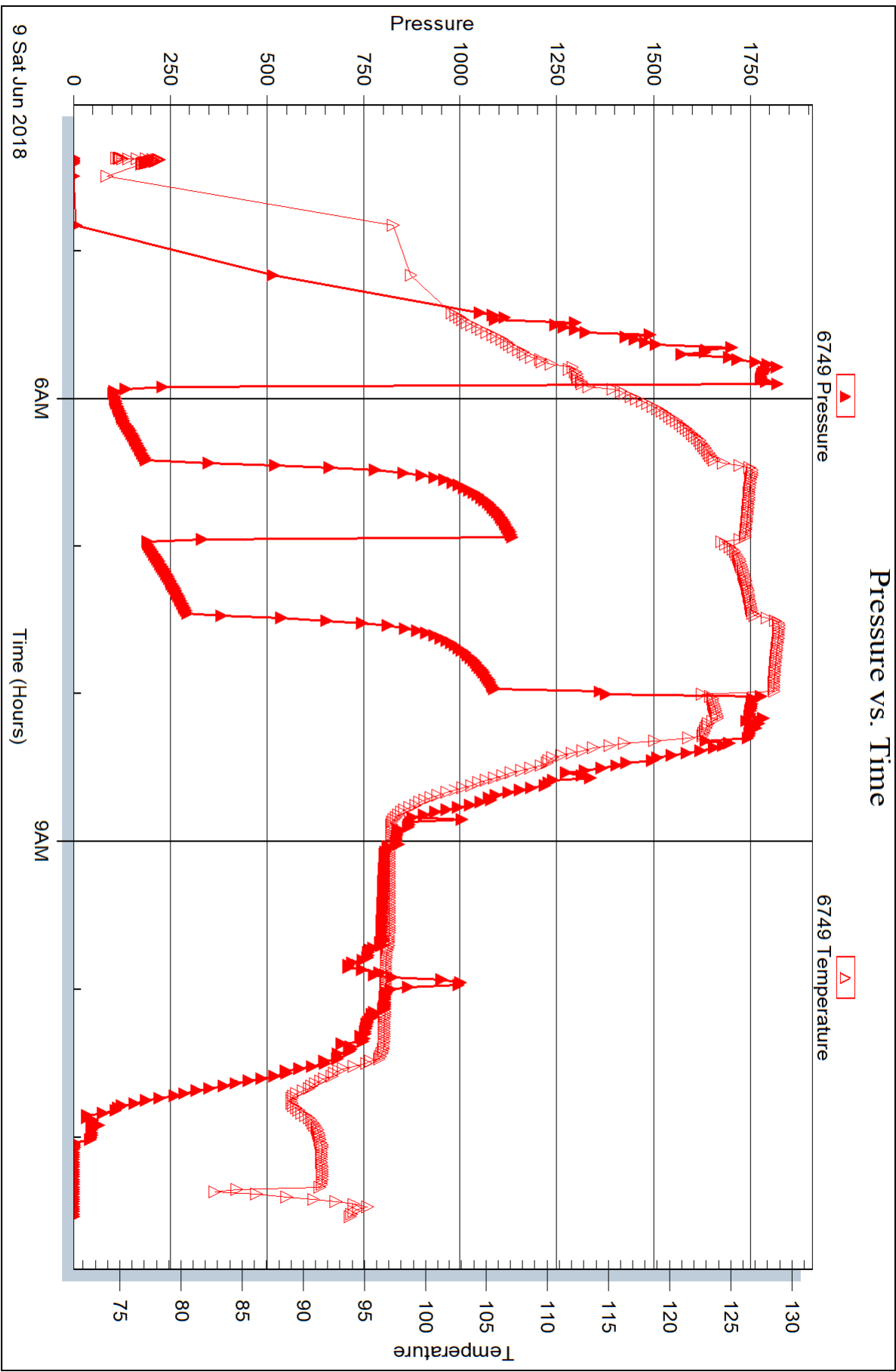


Serial #: 6749

Outside Siroky Oil Management

Green Group #1-24

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Siroky Oil Management**

PO Box 464
Pratt, KS 6724

ATTN: Sean Deenihan/Ryan D

Green Group #1-24

24-27S-12W Pratt,KS

Start Date: 2018.06.09 @ 18:43:46

End Date: 2018.06.10 @ 02:09:48

Job Ticket #: 59874 DST #: 3

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

Printed: 2018.06.13 @ 14:29:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59874

DST#: 3

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.09 @ 18:43:46

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:09:48

Time Test Ended: 02:09:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3830.00 ft (KB) To 3870.00 ft (KB) (TVD)

Reference Elevations: 1809.00 ft (KB)

Total Depth: 3870.00 ft (KB) (TVD)

1797.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8875

Inside

Press@RunDepth: 475.29 psig @ 3831.00 ft (KB)

Capacity: psig

Start Date: 2018.06.09 End Date: 2018.06.10

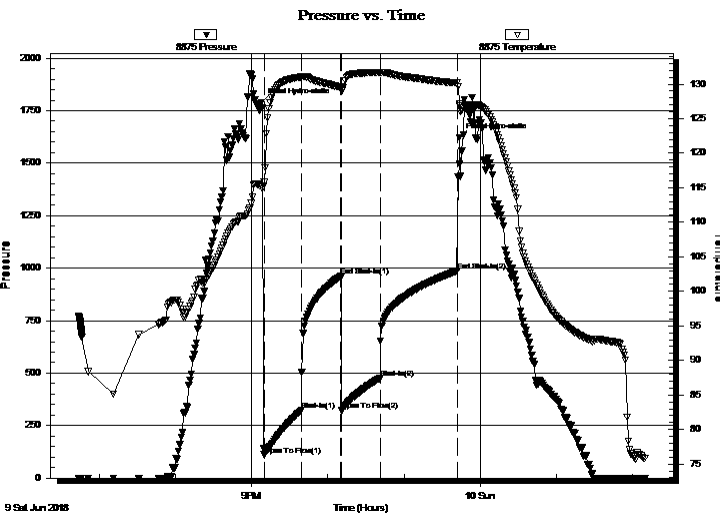
Last Calib.: 2018.06.10

Start Time: 18:43:47 End Time: 02:09:48

Time On Btm: 2018.06.09 @ 21:07:33

Time Off Btm: 2018.06.09 @ 23:43:48

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes, Built to 110 inches
 IS: Blow Back Built to 40 inches
 FF: Strong Blow , BOB in 4 minutes, Built to 145 inches
 FS: Blow Back Built to 49 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.14	115.05	Initial Hydro-static
3	110.50	115.81	Open To Flow (1)
32	321.76	131.07	Shut-In(1)
63	961.66	129.53	End Shut-In(1)
64	321.81	129.20	Open To Flow (2)
94	475.29	131.65	Shut-In(2)
155	984.77	130.13	End Shut-In(2)
157	1620.64	126.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1386 GIP	0.00
560.00	GSY Water 10%G 90%W	6.74
189.00	GOMCW 10%G 6%O 10%M 74%W	2.65
40.00	GMWCO 20%G 12%M 26%W 58%O	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59874

DST#: 3

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.09 @ 18:43:46

Tool Information

Drill Pipe:	Length: 3709.00 ft	Diameter: 3.80 inches	Volume: 52.03 bbl	Tool Weight: 2100.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.63 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3830.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer on Bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3816.00	
Hydraulic tool	5.00			3821.00	
Packer	5.00			3826.00	19.00 Bottom Of Top Packer
Packer	4.00			3830.00	
Stubb	1.00			3831.00	
Recorder	0.00	8875	Inside	3831.00	
Recorder	0.00	6749	Outside	3831.00	
Perforations	36.00			3867.00	
Bullnose	3.00			3870.00	40.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59874

DST#: 3

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.09 @ 18:43:46

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:

58000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1386 GIP	0.000
560.00	GSY Water 10%G 90%W	6.744
189.00	GOMCW 10%G 6%O 10%M 74%W	2.651
40.00	GMWCO 20%G 12%M 26%W 58%O	0.561

Total Length: 789.00 ft Total Volume: 9.956 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .1 @ 90 degrees

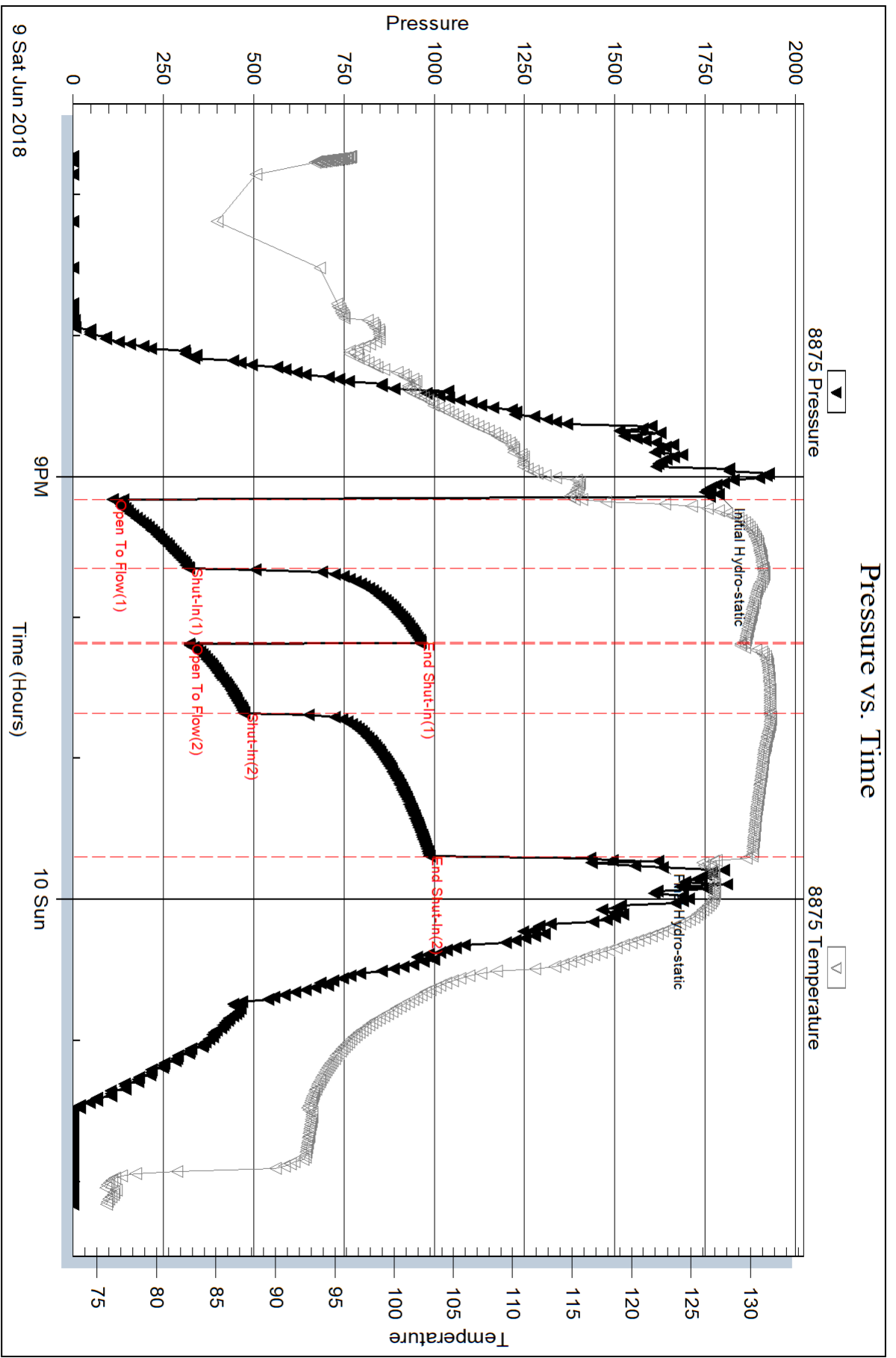
Serial #: 8875

Inside

Siroky Oil Management

Green Group #1-24

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 59874

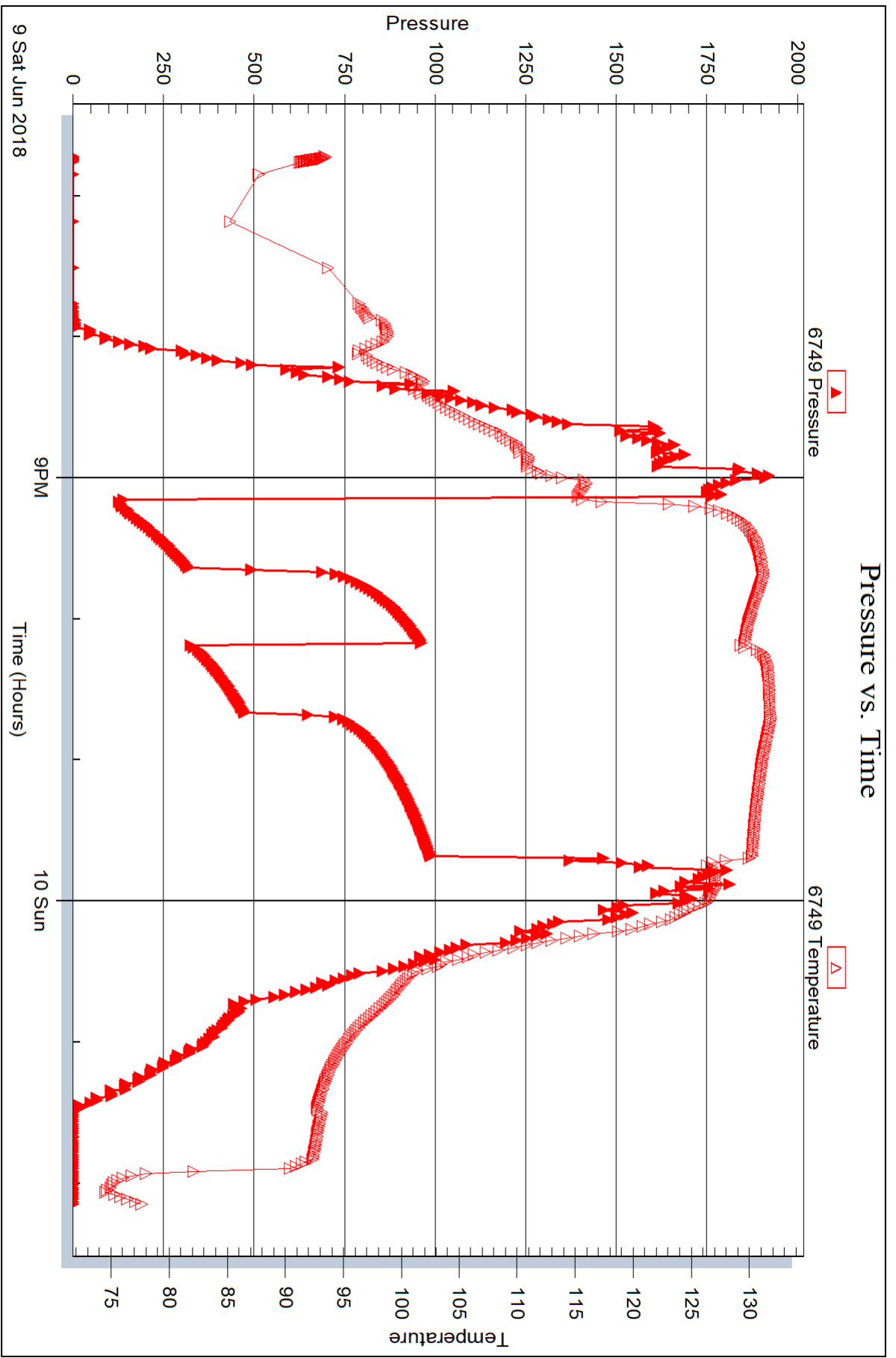
Printed: 2018.06.13 @ 14:29:57

Serial #: 6749

Outside Siroky Oil Management

Green Group #1-24

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59874

Printed: 2018.06.13 @ 14:29:57



DRILL STEM TEST REPORT

Prepared For: **Siroky Oil Management**

PO Box 464
Pratt, KS 6724

ATTN: Sean Deenihan/Ryan D

Green Group #1-24

24-27S-12W Pratt,KS

Start Date: 2018.06.10 @ 19:06:55

End Date: 2018.06.11 @ 00:58:57

Job Ticket #: 59875 DST #: 4

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

Printed: 2018.06.13 @ 14:29:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59875

DST#: 4

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.10 @ 19:06:55

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:57

Time Test Ended: 00:58:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4004.00 ft (KB) To 4088.00 ft (KB) (TVD)

Reference Elevations: 1809.00 ft (KB)

Total Depth: 4088.00 ft (KB) (TVD)

1797.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8875

Inside

Press@RunDepth: 40.44 psig @ 4005.00 ft (KB)

Capacity: psig

Start Date: 2018.06.10

End Date:

2018.06.11

Last Calib.:

2018.06.11

Start Time: 19:06:56

End Time:

00:58:57

Time On Btm:

2018.06.10 @ 21:07:57

Time Off Btm:

2018.06.10 @ 23:09:57

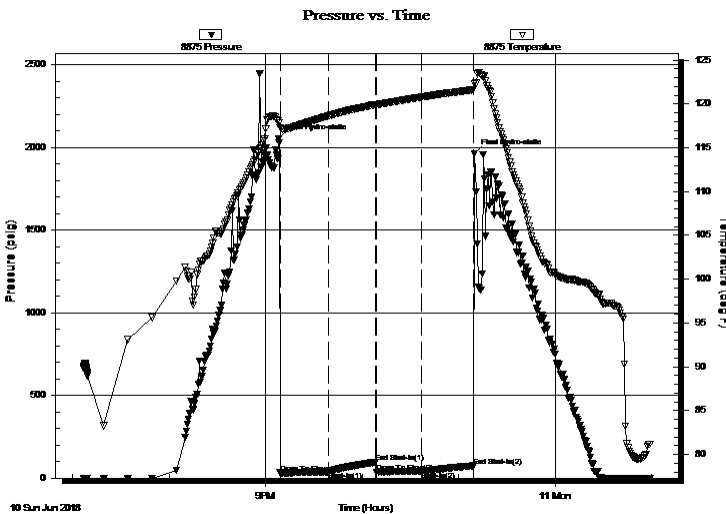
TEST COMMENT: IF: Fair Blow , BOB in 21 minutes , Built to 14 inches

IS: No Blow Back

FF: Weak Blow , Built to 7 inches

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.85	118.09	Initial Hydro-static
1	30.96	117.27	Open To Flow (1)
31	38.73	118.63	Shut-In(1)
61	96.56	119.91	End Shut-In(1)
61	35.22	119.92	Open To Flow (2)
90	40.44	120.79	Shut-In(2)
122	74.79	121.67	End Shut-In(2)
122	1962.95	122.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59875

DST#: 4

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.10 @ 19:06:55

Tool Information

Drill Pipe:	Length: 3867.00 ft	Diameter: 3.80 inches	Volume: 54.24 bbl	Tool Weight: 2100.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 54.84 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4004.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer on Bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3990.00	
Hydraulic tool	5.00			3995.00	
Packer	5.00			4000.00	19.00 Bottom Of Top Packer
Packer	4.00			4004.00	
Stubb	1.00			4005.00	
Recorder	0.00	8875	Inside	4005.00	
Recorder	0.00	6749	Outside	4005.00	
Perforations	9.00			4014.00	
Change Over Sub	1.00			4015.00	
Drill Pipe	64.00			4079.00	
Change Over Sub	1.00			4080.00	
Perforations	5.00			4085.00	
Bullnose	3.00			4088.00	84.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Siroky Oil Management

24-27S-12W Pratt, KS

PO Box 464
Pratt, KS 6724

Green Group #1-24

Job Ticket: 59875

DST#: 4

ATTN: Sean Deenihan/Ryan D

Test Start: 2018.06.10 @ 19:06:55

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

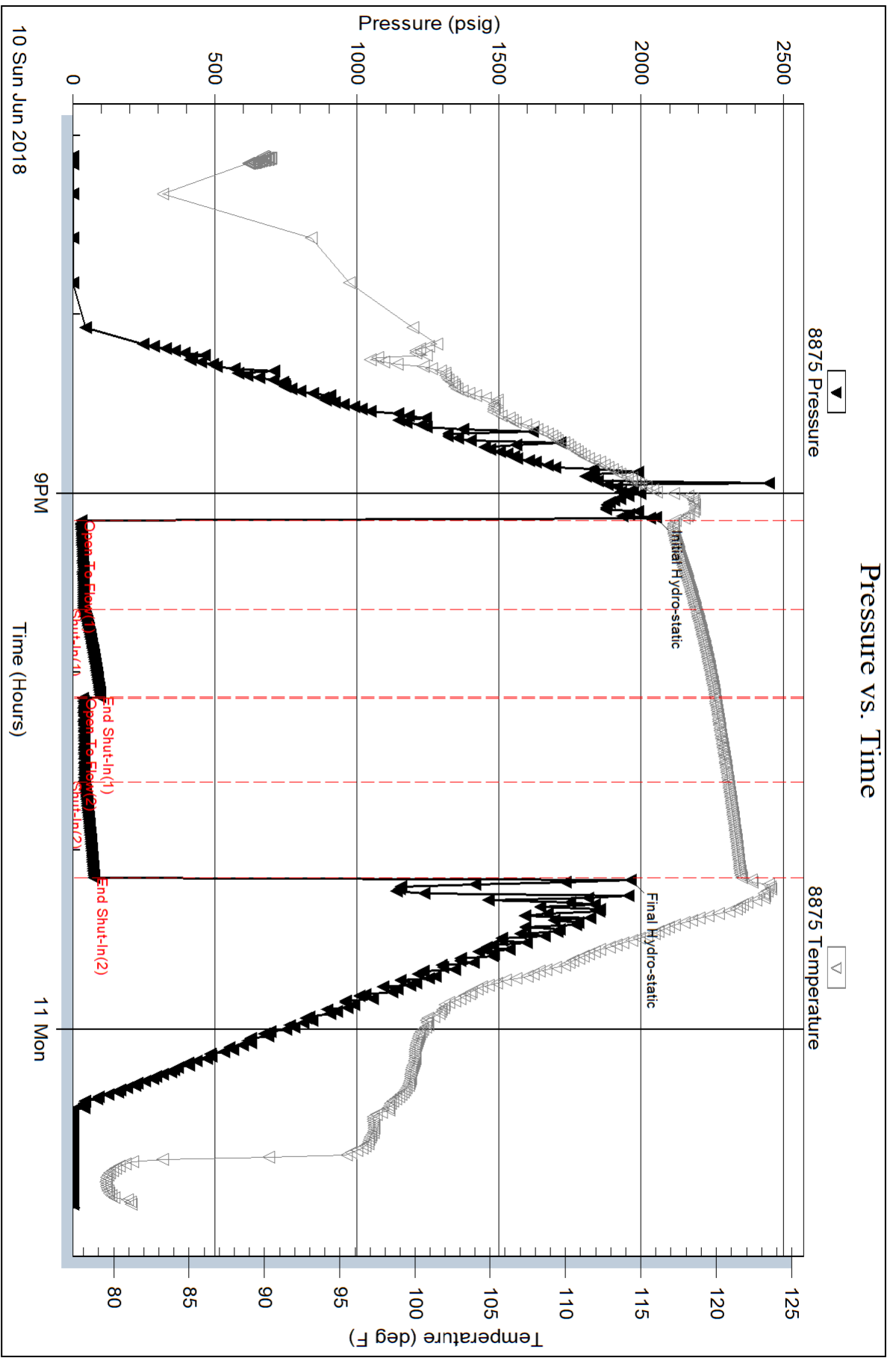
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Inside

Siroky Oil Management

Green Group #1-24

DST Test Number: 4

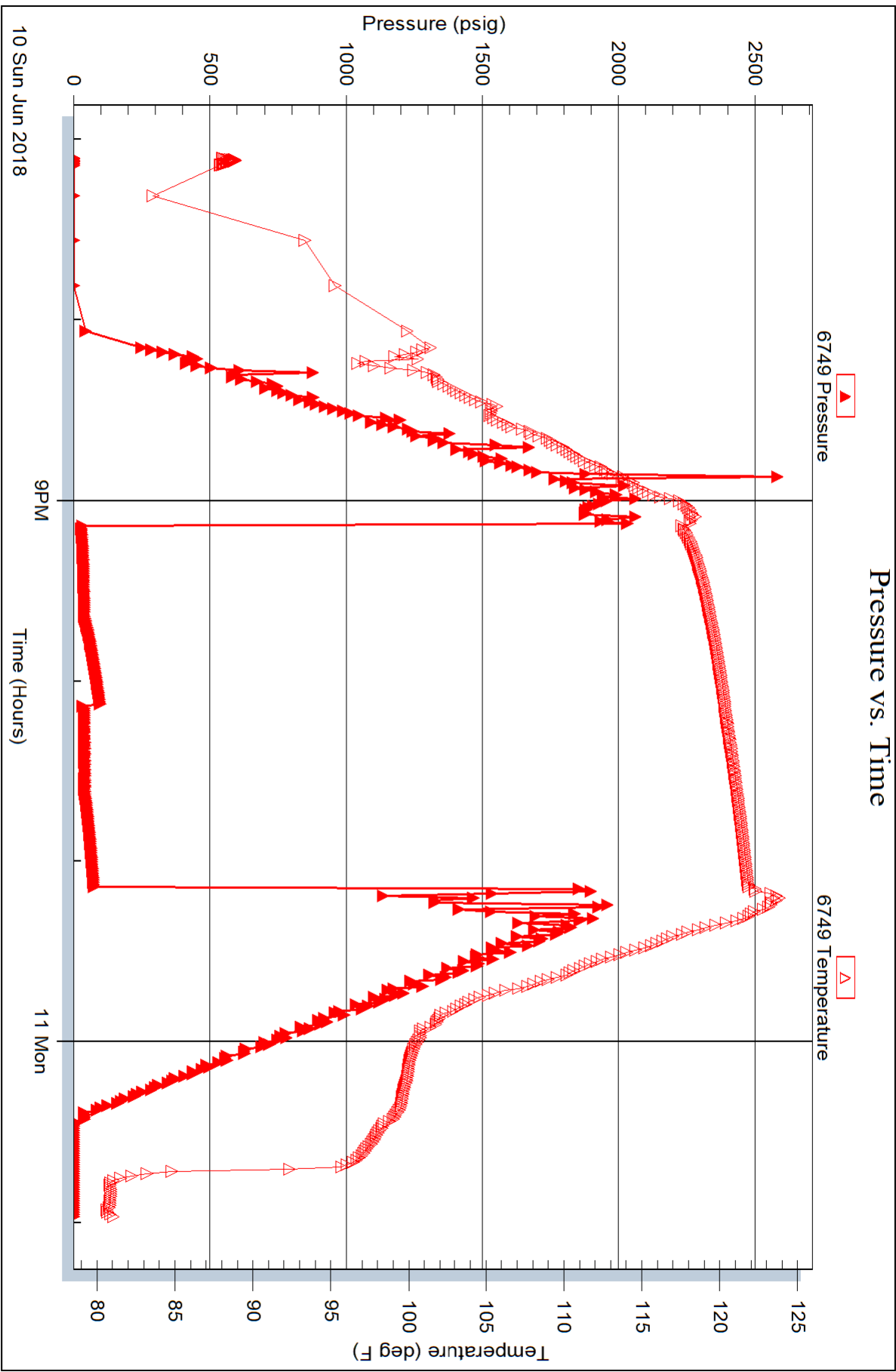


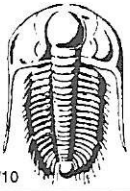
Serial #: 6749

Outside Siroky Oil Management

Green Group #1-24

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59872

Well Name & No. Green 1-24 Test No. 1 Date 06/08/18
 Company Siroky Oil Management Elevation 1809 KB 1797 GL
 Address PO Box 464 Pratt, KS 67124
 Co. Rep / Geo. Sean Deenihan Rig Fossil 3
 Location: Sec. 24 Twp. 27 S Rge. 12 W Co. Pratt State KS

Interval Tested 3678 - 3690 Zone Tested Lansing "B"
 Anchor Length 12 Drill Pipe Run 3550 Mud Wt. 8.6
 Top Packer Depth 3673 Drill Collars Run 122 Vis 53
 Bottom Packer Depth 3678 Wt. Pipe Run 0 WL 9.6
 Total Depth 3690 Chlorides 7500 ppm System LCM 3

Blow Description IF: strong Blow, BOB in 10 seconds, GTS in 5 minutes, Gauged + caught sample
ISF: NO Blow Back

FF: strong Blow, BOB + GTS immediate, Gauged Gas

FSI: weak 1/2 inch Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3550</u>	<u>GI P</u>				
<u>61</u>	<u>506 MCW</u>	<u>4</u>	<u>1</u>	<u>65</u>	<u>30</u>
<u>61</u>	<u>506 CMW</u>	<u>5</u>	<u>5</u>	<u>80</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

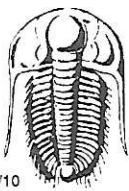
Rec Total 122 BHT 112 Gravity N/C API RW 11 @ 88 °F Chlorides 55,000 ppm

(A) Initial Hydrostatic 1712 Test 1050 T-On Location 09:00
 (B) First Initial Flow 148 Jars T-Started 10:26
 (C) First Final Flow 133 Safety Joint T-Open 12:23
 (D) Initial Shut-In 1042 Circ Sub T-Pulled 15:26
 (E) Second Initial Flow 144 Hourly Standby T-Out 17:04
 (F) Second Final Flow 96 Mileage 30 30 Comments
 (G) Final Shut-In 994 Sampler
 (H) Final Hydrostatic 1711 Straddle Ruined Shale Packer 350

Initial Open 30 Ruined Packer
 Initial Shut-In 45 Extra Copies
 Final Flow 45 Extra Recorder Sub Total 350
 Final Shut-In 60 Day Standby Total 1680
 Accessibility MP/DST Disc't
 Sub Total 1330

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59873

Well Name & No. Green Group 1-24 Test No. 2 Date 06/09/18
 Company Siraky Oil Management Elevation 1709 KB 1797 GL
 Address PO BOX 464 Pratt, KS 67124
 Co. Rep / Geo. Sean Deenihan / Ryan Davis Rig Fossil 3
 Location: Sec. 24 Twp. 27S Rge. 12W Co. Pratt State KS

Interval Tested 3806 - 3826 Zone Tested Lansing "H"
 Anchor Length 20 Drill Pipe Run 3677 Mud Wt. 8.6
 Top Packer Depth 3801 Drill Collars Run 122 Vis 5-3
 Bottom Packer Depth 3806 Wt. Pipe Run 0 WL 9.6
 Total Depth 3826 Chlorides 7500 ppm System LCM 3

Blow Description IF: Strong Blow, BOB in 10 seconds, GTS in 10 minutes, Gauged Gas
IST: Blow Back Built to BOB in 4 minutes, Built to 33 inches
FF: Strong Blow, BOB + GTS Immediate, TSTM, Blow Built to 322 inches
FSI: Blow Back Built to 126 inches

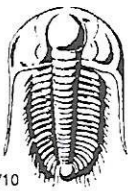
Rec	Feet of	%gas	%oil	%water	%mud
<u>1989</u>	<u>GIP</u>				
<u>1688</u>	<u>GSP oil</u>	<u>20%</u>	<u>80%</u>		
<u>122</u>	<u>GEMO</u>	<u>10%</u>	<u>70%</u>		<u>20%</u>

Rec Total 1910 BHT 126 Gravity 33.7 API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic 1828 Test 1050 T-On Location 63:45
 (B) First Initial Flow 102 Jars _____ T-Started 04:22
 (C) First Final Flow 188 Safety Joint _____ T-Open 05:57
 (D) Initial Shut-In 1136 Circ Sub 50 T-Pulled 07:58
 (E) Second Initial Flow 191 Hourly Standby _____ T-Out 11:22
 (F) Second Final Flow 294 Mileage 30 30 Comments Dropped Bar
 (G) Final Shut-In 1090 Sampler _____
 (H) Final Hydrostatic 1779 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1380
 Sub Total 1380 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59874

Well Name & No. Green Group 1-24 Test No. 3 Date 06/09/18
 Company Siroky Oil Management Elevation 1809 KB 1797 GL
 Address PO BOX 464 Pratt, KS 67124
 Co. Rep / Geo. Sean Deonihan/Ryan Davis Rig Fossil 3
 Location: Sec. 24 Twp. 27S Rge. 12W Co. Pratt State KS

Interval Tested 3830 - 3870 Zone Tested Lansing "H"
 Anchor Length 40 Drill Pipe Run 3709 Mud Wt. 8.9
 Top Packer Depth 3825 Drill Collars Run 122 Vis 58
 Bottom Packer Depth 3830 Wt. Pipe Run 0 WL 9.6
 Total Depth 3870 Chlorides 9000 ppm System LCM 3

Blow Description FF: strong Blow, BOB in 4 minutes Built to 110 inches
ISI: Blow Back Built to 40 inches
FF: strong Blow, BOB in 4 minutes, Built to 145 inches
FST: Blow Back Built to 49 inches

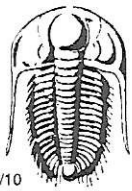
Rec	Feet of	%gas	%oil	%water	%mud
<u>1386</u>	<u>GIP</u>				
<u>40</u>	<u>GOMWCO</u>	<u>20</u>	<u>58</u>	<u>26</u>	<u>12</u>
<u>189</u>	<u>GOMCW</u>	<u>10</u>	<u>6</u>	<u>74</u>	<u>10</u>
<u>560</u>	<u>GSY WATER</u>	<u>10</u>		<u>90</u>	
Rec Total	<u>789</u>	BHT	<u>131</u>	Gravity	<u>NIC</u>
				API RW	<u>.1</u>
				@	<u>90</u> °F
				Chlorides	<u>58000</u> ppm

(A) Initial Hydrostatic 1788 Test 1050 T-On Location 18:00
 (B) First Initial Flow 110 Jars _____ T-Started 18:43
 (C) First Final Flow 322 Safety Joint _____ T-Open 21:09
 (D) Initial Shut-In 962 Circ Sub _____ T-Pulled 23:41
 (E) Second Initial Flow 322 Hourly Standby _____ T-Out 02:09
 (F) Second Final Flow 475 Mileage 30 30 Comments _____
 (G) Final Shut-In 985 Sampler _____
 (H) Final Hydrostatic 1620 Straddle _____
 Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1330
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1330

Approved By SA

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **59875**

Well Name & No. Green Group 1-24 Test No. 40 Date 06/10/18
 Company Siroky Oil Management Elevation 1809 KB 1797 GL
 Address PO Box 464 Pratt, KS 67124
 Co. Rep / Geo. Ryan Davis Rig Fossil 3
 Location: Sec. 24 Twp. 27S Rge. 12W Co. Pratt State KS

Interval Tested 4004 - 4088 Zone Tested Marmaton
 Anchor Length 84 Drill Pipe Run 3867 Mud Wt. 8.9
 Top Packer Depth 3999 Drill Collars Run 122 Vis 57
 Bottom Packer Depth 4004 Wt. Pipe Run 0 WL 10.8
 Total Depth 4088 Chlorides 10,000 ppm System LCM 4

Blow Description IF: Fair Blow, BOB in 21 minutes, Built to 14 inches
ISI: NO BLOW BACK
FF: Weak Blow, Built to 7 inches
FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud</u>				
Rec	Feet of	%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 124 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic	<u>2051</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>18:00</u>
(B) First Initial Flow	<u>31</u>	<input type="checkbox"/> Jars		T-Started	<u>19:06</u>
(C) First Final Flow	<u>39</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>21:08</u>
(D) Initial Shut-In	<u>97</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>23:09</u>
(E) Second Initial Flow	<u>35</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>00:58</u>
(F) Second Final Flow	<u>40</u>	<input checked="" type="checkbox"/> Mileage <u>(30)</u>	<u>30+30</u>	Comments	<u>Loaded Tools @ 08:15 on 06/12</u>
(G) Final Shut-In	<u>75</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1963</u>	<input type="checkbox"/> Straddle		<input checked="" type="checkbox"/> Ruined Shale Packer	<u>350</u>

Initial Open	<u>30</u>	<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	
Final Shut-In	<u>30</u>	<input type="checkbox"/> Day Standby	
		<input type="checkbox"/> Accessibility	
		Sub Total	<u>1360</u>
		Total	<u>1710</u>
		MP/DST Disc't	

Approved By _____ Our Representative [Signature]

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