



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.27 @ 13:42:00

End Date: 2012.05.27 @ 20:30:45

Job Ticket #: 46611 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 13:10:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:42:30

Time Test Ended: 20:30:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 3941.00 ft (KB) To 3973.00 ft (KB) (TVD)

Reference Elevations: 2869.00 ft (KB)

Total Depth: 3973.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 111.28 psig @ 3942.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.27

End Date: 2012.05.27

Last Calib.: 2012.05.27

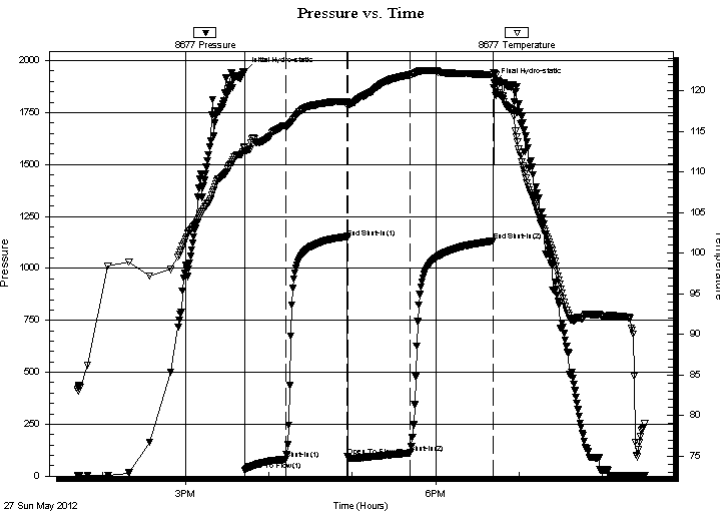
Start Time: 13:42:05

End Time: 20:30:44

Time On Btm: 2012.05.27 @ 15:42:15

Time Off Btm: 2012.05.27 @ 18:42:00

TEST COMMENT: IF: 6" blow
IS: No return
FF: 9" blow
FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.00	113.15	Initial Hydro-static
1	28.46	112.47	Open To Flow (1)
30	79.72	115.65	Shut-In(1)
74	1147.50	118.72	End Shut-In(1)
75	93.50	118.10	Open To Flow (2)
120	111.28	121.98	Shut-In(2)
180	1132.34	121.99	End Shut-In(2)
180	1893.25	122.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	omcw 10o 20m 70w	0.30
60.00	ow cm 10o 30w 60m	0.30
50.00	ocm 30o 70m	0.49
30.00	go 15g 85o	0.30
0.00	40' Gassy odor	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

Tool Information

Drill Pipe:	Length: 3912.00 ft	Diameter: 3.20 inches	Volume: 38.91 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 39.51 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	119.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3941.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 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			3915.00	
Shut In Tool	5.00			3920.00	
Hydraulic tool	5.00			3925.00	
Jars	5.00			3930.00	
Safety Joint	2.00			3932.00	
Packer	5.00			3937.00	27.00 Bottom Of Top Packer
Packer	4.00			3941.00	
Stubb	1.00			3942.00	
Recorder	0.00	8677	Outside	3942.00	
Recorder	0.00	8522	Inside	3942.00	
Perforations	28.00			3970.00	
Bullnose	3.00			3973.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	omcw 10o 20m 70w	0.295
60.00	ow cm 10o 30w 60m	0.295
50.00	ocm 30o 70m	0.492
30.00	go 15g 85o	0.298
0.00	40' Gassy odor	0.000

Total Length: 200.00 ft Total Volume: 1.380 bbl

Num Fluid Samples: 0

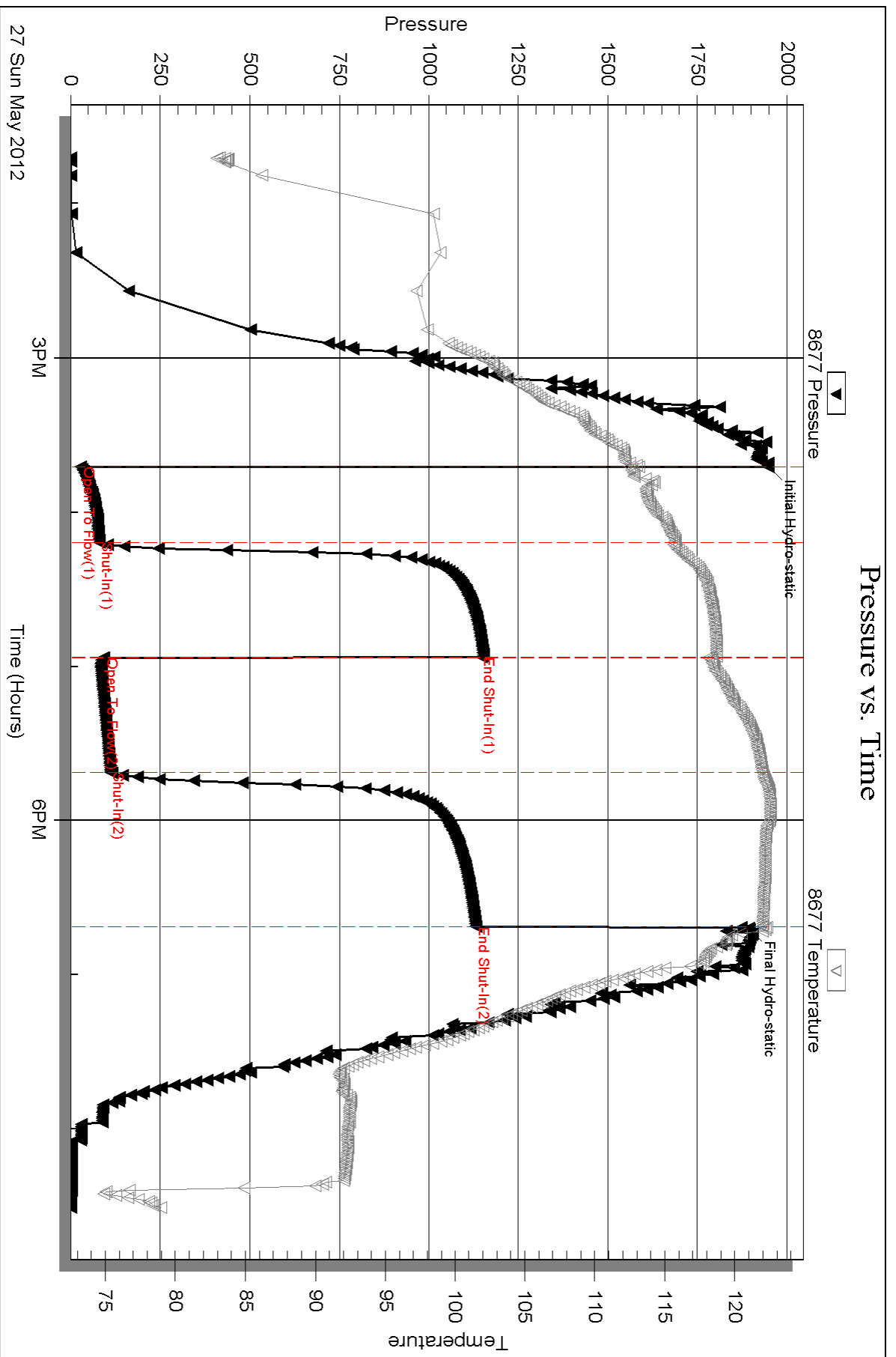
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .130 @ 80 = 52000ppm



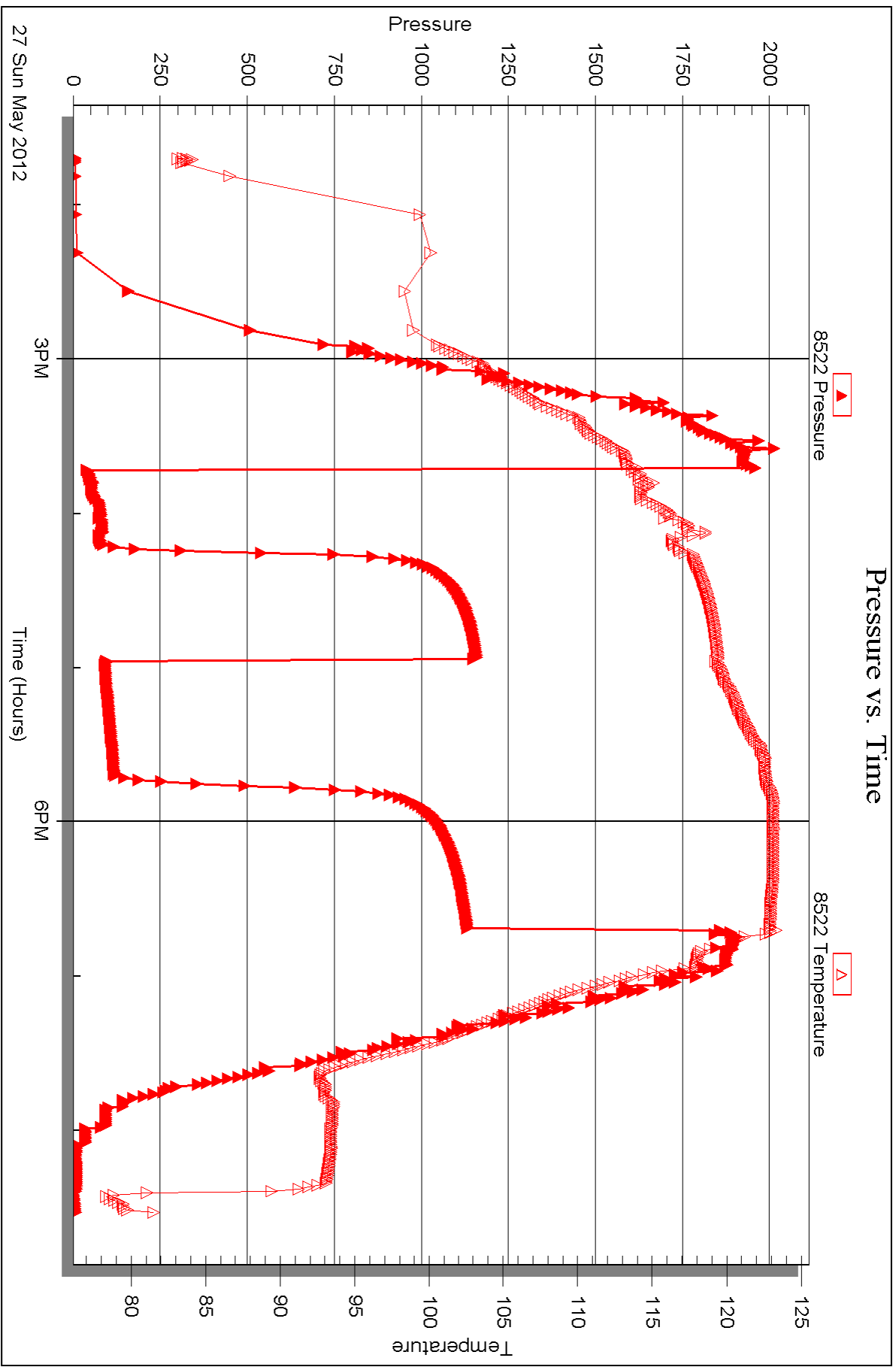
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Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.28 @ 07:47:00

End Date: 2012.05.28 @ 17:25:45

Job Ticket #: 46613 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 13:09:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:46:15
 Tester: Bradley Walter
 Time Test Ended: 17:25:45
 Unit No: 53
 Interval: **3974.00 ft (KB) To 4008.00 ft (KB) (TVD)**
 Reference Elevations: 2869.00 ft (KB)
 Total Depth: 4008.00 ft (KB) (TVD)
 2864.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

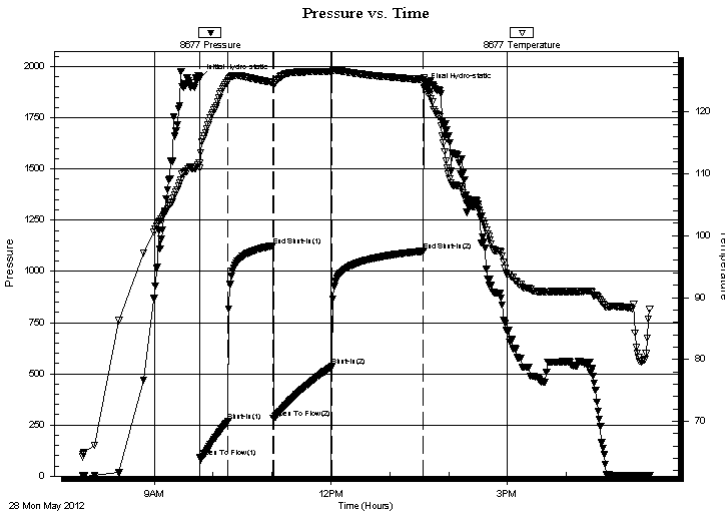
Serial #: 8677

Outside

Press @ Run Depth: 535.31 psig @ 3975.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.28 End Date: 2012.05.28 Last Calib.: 2012.05.28
 Start Time: 07:47:05 End Time: 17:25:45 Time On Btm: 2012.05.28 @ 09:45:45
 Time Off Btm: 2012.05.28 @ 13:34:45

TEST COMMENT: IF: BOB @ 2 1/2 Min.
 IS: BOB @ 28 min.
 FF: BOB @ 5 min.
 FS: 3" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.12	111.70	Initial Hydro-static
1	92.60	110.92	Open To Flow (1)
30	268.59	124.99	Shut-In(1)
76	1125.17	124.78	End Shut-In(1)
76	283.94	124.44	Open To Flow (2)
136	535.31	126.57	Shut-In(2)
229	1098.46	125.24	End Shut-In(2)
229	1895.95	125.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	mcw 40m 60w (oil spots)	0.98
1230.00	go 30g 70o	12.24
0.00	900' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

Tool Information

Drill Pipe:	Length: 3842.00 ft	Diameter: 3.20 inches	Volume: 38.22 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 38.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3974.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	2.00			3965.00	
Packer	5.00			3970.00	27.00 Bottom Of Top Packer
Packer	4.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	8677	Outside	3975.00	
Recorder	0.00	8522	Inside	3975.00	
Perforations	30.00			4005.00	
Bullnose	3.00			4008.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 6.37 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 36 deg API
Water Salinity: 60000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	mcw 40m 60w (oil spots)	0.983
1230.00	go 30g 70o	12.235
0.00	900' GIP	0.000

Total Length: 1390.00 ft Total Volume: 13.218 bbl

Num Fluid Samples: 0

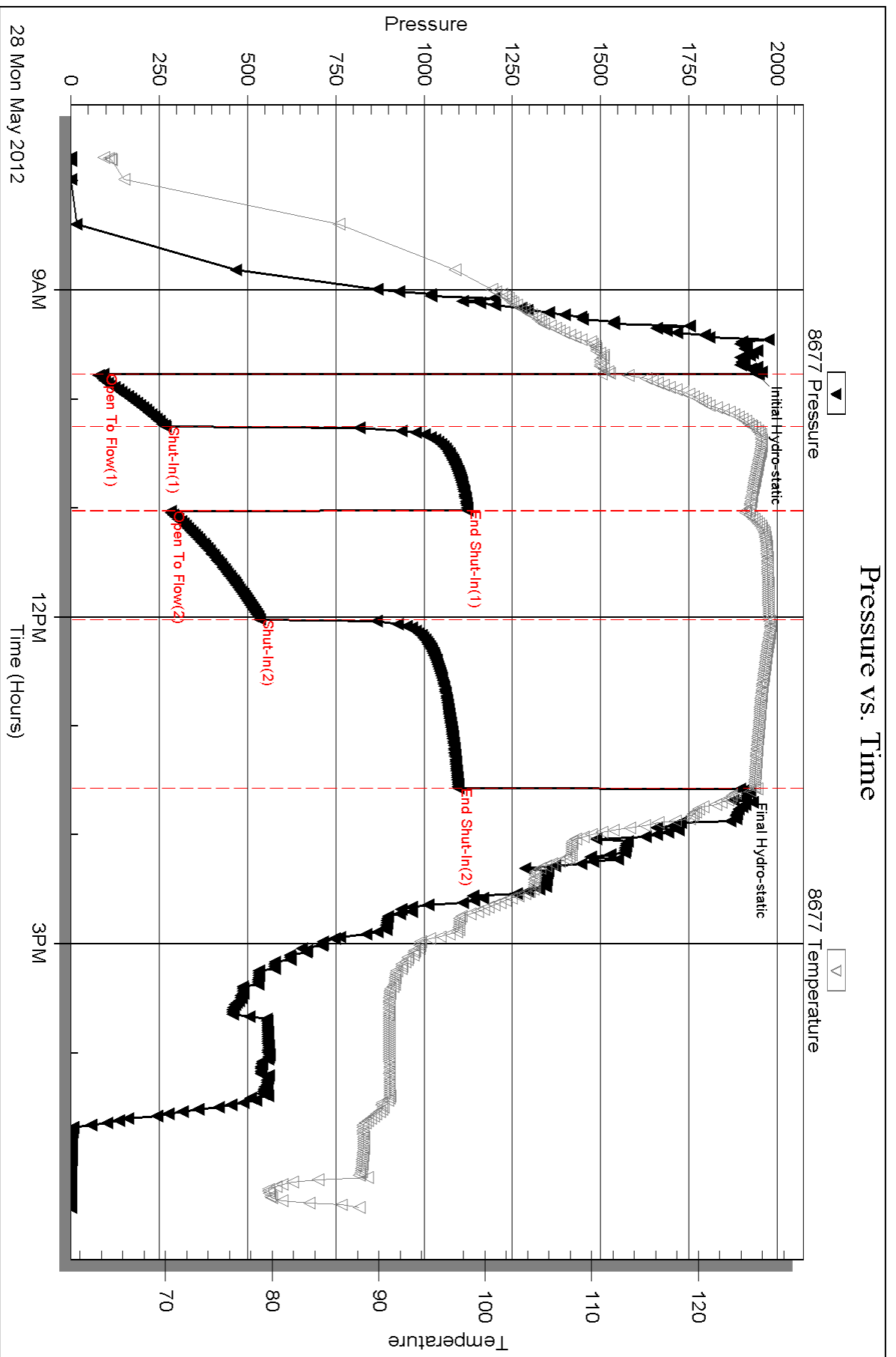
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .110 @ 78F = 60,000ppm



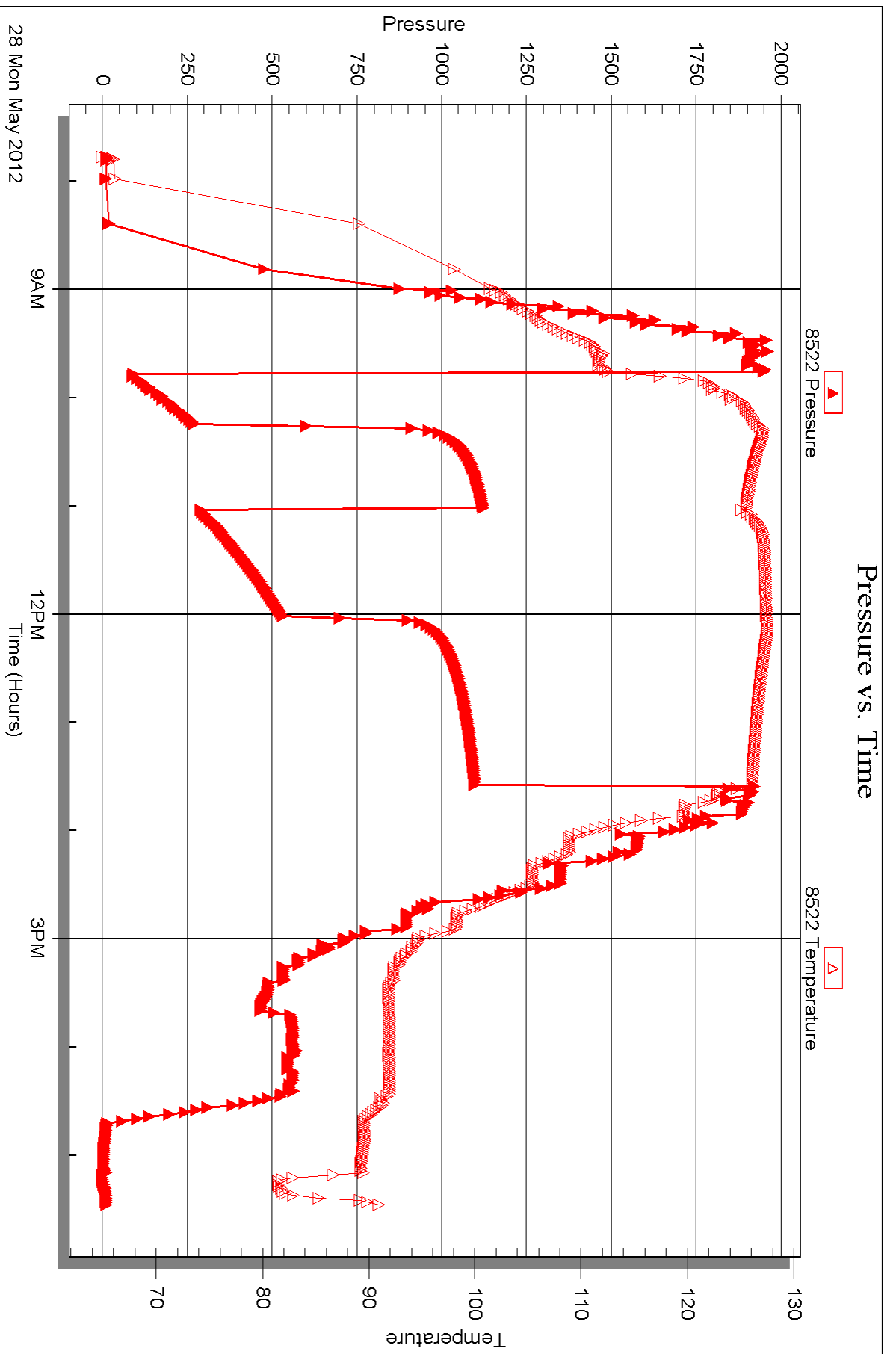
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.29 @ 12:34:00

End Date: 2012.05.29 @ 20:14:00

Job Ticket #: 46614 DST #: 3

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

Printed: 2012.06.13 @ 13:08:54

Grand Mesa Operating Co. 26-13s-31w Gove,KS Phillip #1-26 DST # 3 LKC "H-I" 2012.05.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

GENERAL INFORMATION:

Formation: **LKC "H-I"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:29:15
 Tester: Bradley Walter
 Time Test Ended: 20:14:00
 Unit No: 53
 Interval: **4065.00 ft (KB) To 4126.00 ft (KB) (TVD)**
 Reference Elevations: 2869.00 ft (KB)
 Total Depth: 4126.00 ft (KB) (TVD)
 2864.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

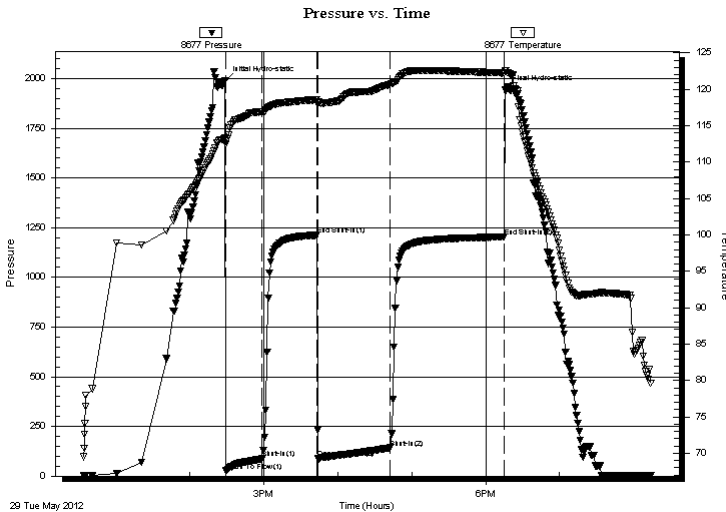
Serial #: 8677

Outside

Press @ Run Depth: 141.94 psig @ 4066.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.29 End Date: 2012.05.29 Last Calib.: 2012.05.29
 Start Time: 12:34:05 End Time: 20:13:59 Time On Btm: 2012.05.29 @ 14:29:00
 Time Off Btm: 2012.05.29 @ 18:15:45

TEST COMMENT: IF: BOB @ 17 min.
 IS: Surface blow, died @ 20 min.
 FF: BOB @ 10 min.
 FS: 1" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.36	113.39	Initial Hydro-static
1	26.02	112.46	Open To Flow (1)
30	89.10	116.92	Shut-In(1)
75	1212.36	118.58	End Shut-In(1)
76	89.04	118.25	Open To Flow (2)
134	141.94	120.67	Shut-In(2)
226	1203.30	122.25	End Shut-In(2)
227	1942.68	122.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gmco 50g 20m 30o	1.18
145.00	gmco 20g 20m 60o	1.44
0.00	790 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

Tool Information

Drill Pipe:	Length: 3937.00 ft	Diameter: 3.20 inches	Volume: 39.16 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 39.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4065.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 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			4039.00	
Shut In Tool	5.00			4044.00	
Hydraulic tool	5.00			4049.00	
Jars	5.00			4054.00	
Safety Joint	2.00			4056.00	
Packer	5.00			4061.00	27.00 Bottom Of Top Packer
Packer	4.00			4065.00	
Stubb	1.00			4066.00	
Recorder	0.00	8677	Outside	4066.00	
Recorder	0.00	8522	Inside	4066.00	
Perforations	25.00			4091.00	
Change Over Sub	0.50			4091.50	
Drill Pipe	31.00			4122.50	
Change Over Sub	0.50			4123.00	
Bullnose	3.00			4126.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.
1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

26-13s-31w Gove,KS

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.28 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	gmco 50g 20m 30o	1.182
145.00	gmco 20g 20m 60o	1.442
0.00	790 GIP	0.000

Total Length: 325.00 ft Total Volume: 2.624 bbl

Num Fluid Samples: 0

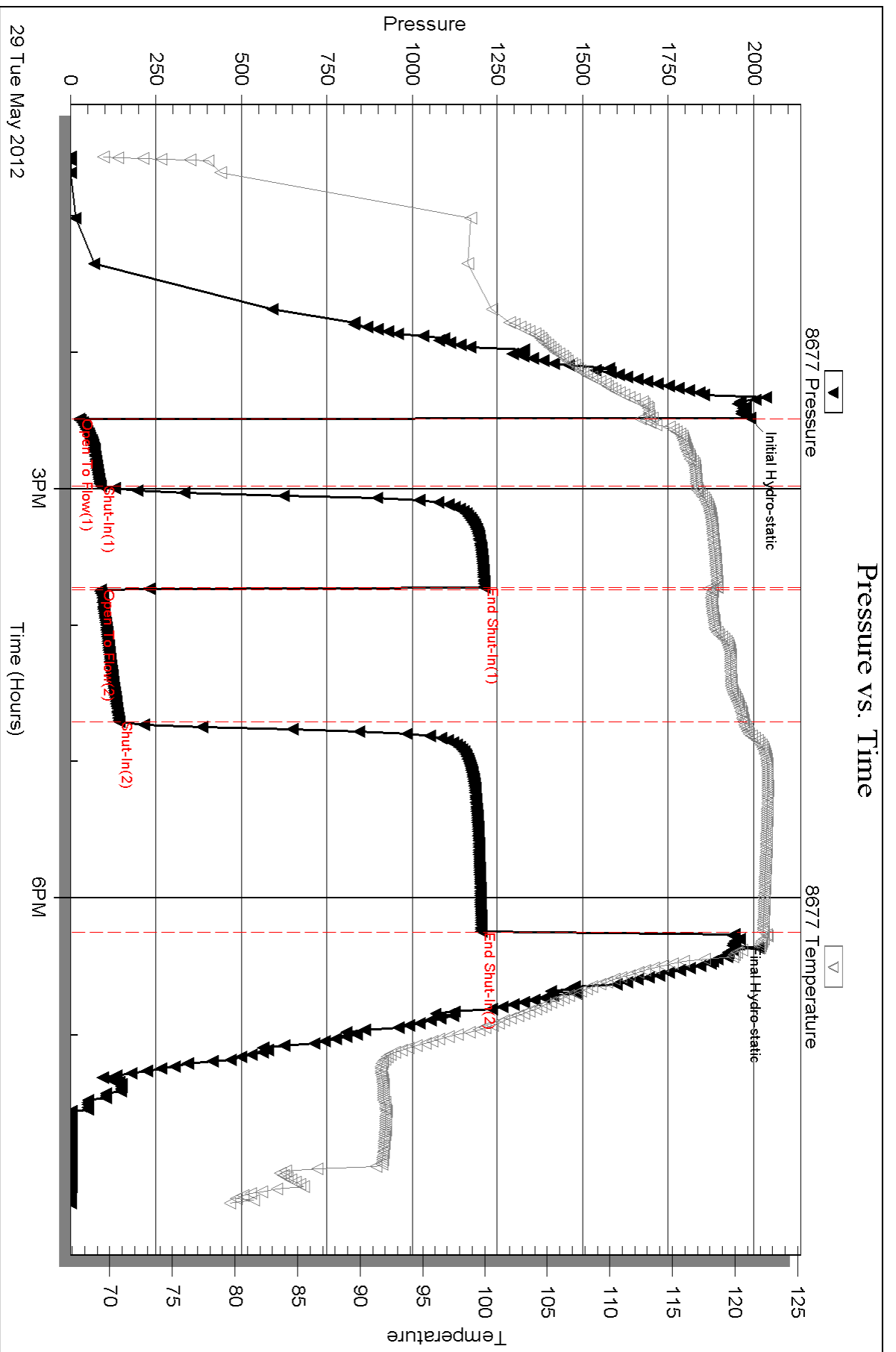
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



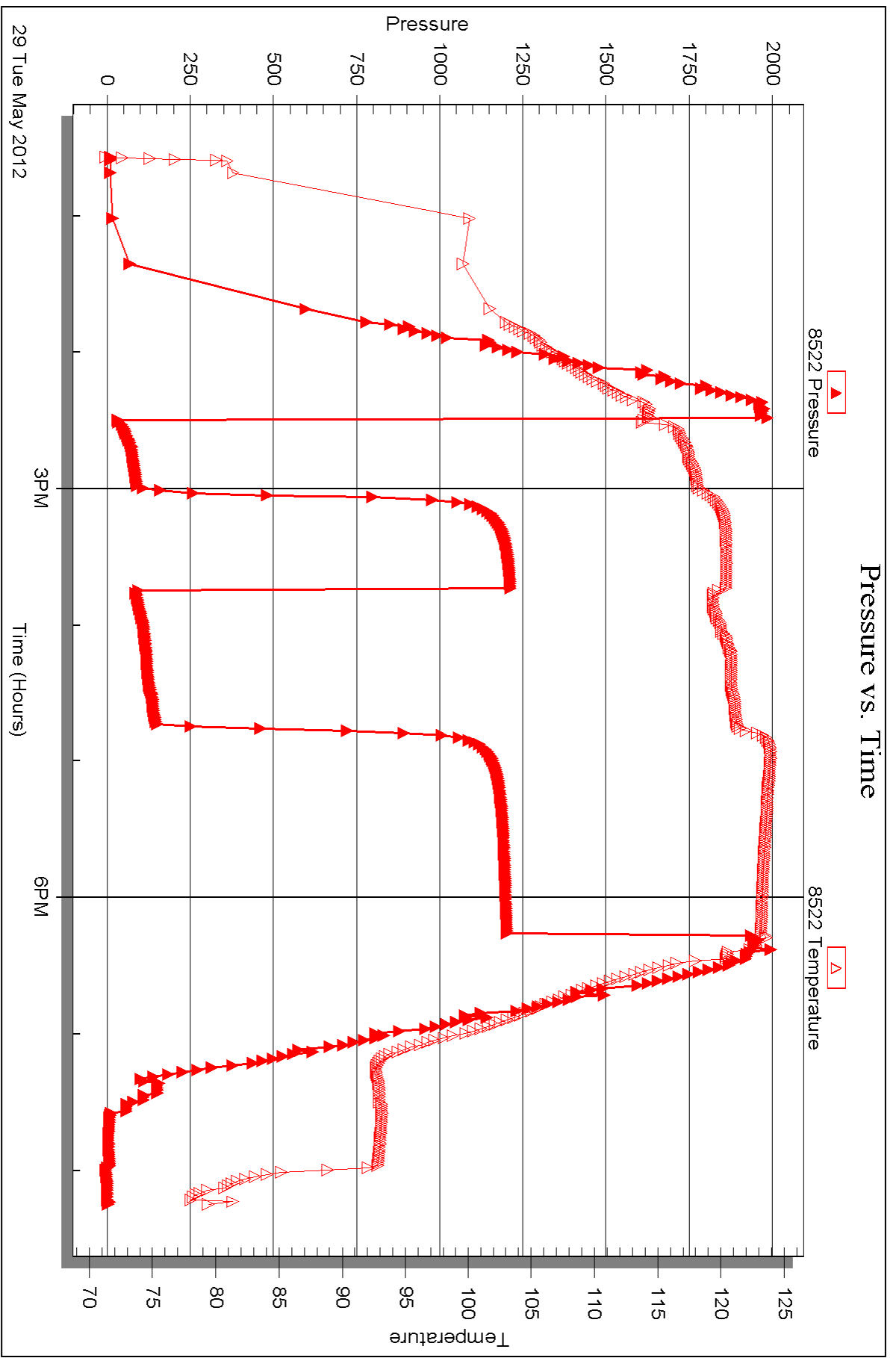
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46614

Printed: 2012.06.13 @ 13:08:57



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.30 @ 04:55:00

End Date: 2012.05.30 @ 13:18:30

Job Ticket #: 46615 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 13:08:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46615

DST#: 4

Test Start: 2012.05.30 @ 04:55:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:34:00
 Tester: Bradley Walter
 Time Test Ended: 13:18:30
 Unit No: 53
 Interval: **4127.00 ft (KB) To 4151.00 ft (KB) (TVD)**
 Reference Elevations: 2869.00 ft (KB)
 Total Depth: 4151.00 ft (KB) (TVD)
 2864.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

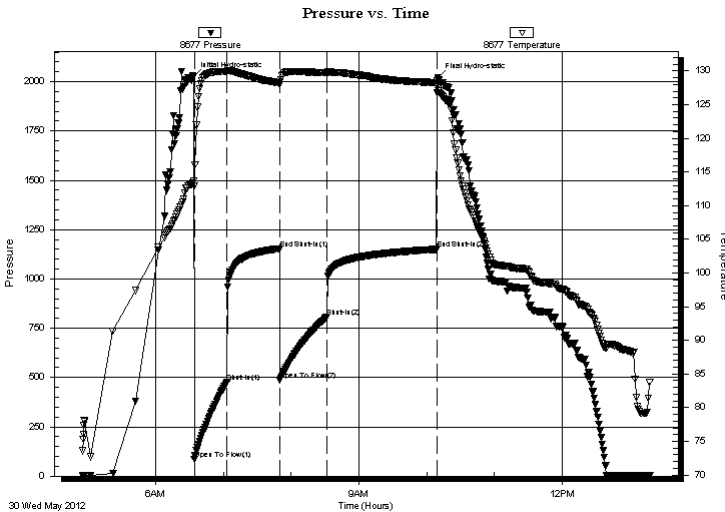
Serial #: 8677

Outside

Press @ Run Depth: 808.37 psig @ 4128.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.30 End Date: 2012.05.30 Last Calib.: 2012.05.30
 Start Time: 04:55:05 End Time: 13:18:29 Time On Btm: 2012.05.30 @ 06:33:45
 Time Off Btm: 2012.05.30 @ 10:10:15

TEST COMMENT: IF: BOB @ 2 min.
 IS: 3" return.
 FF: BOB @ 3 min.
 FSI BOB @ 29 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.82	113.63	Initial Hydro-static
1	85.22	112.95	Open To Flow (1)
30	477.64	129.92	Shut-In(1)
76	1153.82	128.24	End Shut-In(1)
76	487.46	127.97	Open To Flow (2)
118	808.37	129.75	Shut-In(2)
216	1150.50	128.27	End Shut-In(2)
217	2020.02	127.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1980.00	smcw 2m 98w (oil spots)	19.09
70.00	go 30g 70o	0.70
0.00	500' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46615

DST#: 4

Test Start: 2012.05.30 @ 04:55:00

Tool Information

Drill Pipe:	Length: 3999.00 ft	Diameter: 3.20 inches	Volume: 39.78 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 40.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4127.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 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			4101.00	
Shut In Tool	5.00			4106.00	
Hydraulic tool	5.00			4111.00	
Jars	5.00			4116.00	
Safety Joint	2.00			4118.00	
Packer	5.00			4123.00	27.00 Bottom Of Top Packer
Packer	4.00			4127.00	
Stubb	1.00			4128.00	
Recorder	0.00	8677	Outside	4128.00	
Recorder	0.00	8522	Inside	4128.00	
Perforations	20.00			4148.00	
Bullnose	3.00			4151.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.
1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

26-13s-31w Gove,KS

Phillip #1-26

Job Ticket: 46615

DST#: 4

Test Start: 2012.05.30 @ 04:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 34 deg API
Water Salinity: 74000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1980.00	smcw 2m 98w (oil spots)	19.087
70.00	go 30g 70o	0.696
0.00	500' GIP	0.000

Total Length: 2050.00 ft Total Volume: 19.783 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .090 @ 82F = 74,000ppm

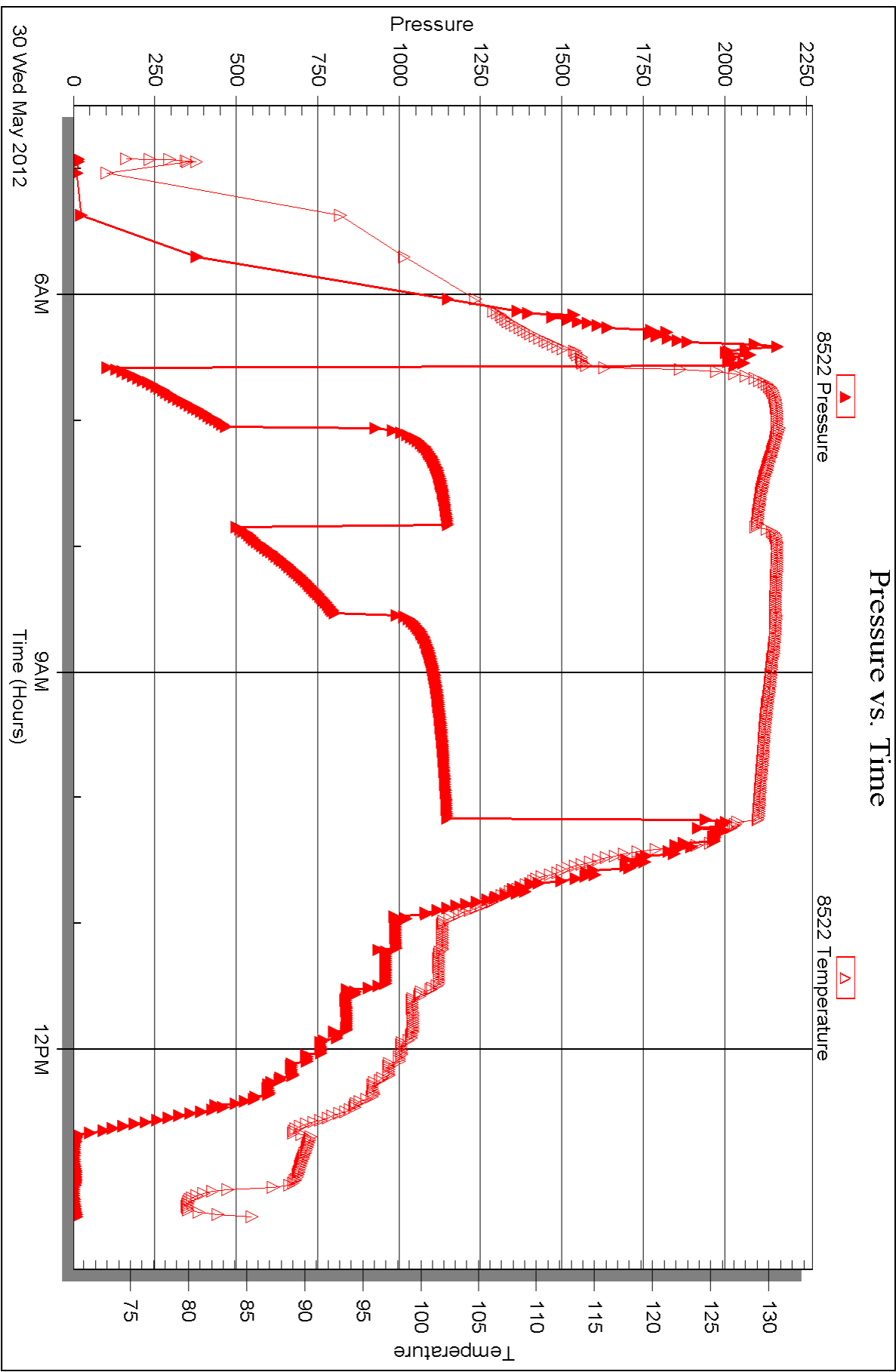
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.30 @ 21:23:00

End Date: 2012.05.31 @ 05:18:00

Job Ticket #: 46616 DST #: 5

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

Printed: 2012.06.13 @ 13:07:25

Grand Mesa Operating Co. 26-13s-31w Gove,KS Phillip #1-26 DST # 5 LKC "K" 2012.05.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:51:00

Time Test Ended: 05:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4150.00 ft (KB) To 4170.00 ft (KB) (TVD)

Reference Elevations: 2869.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 254.88 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.30

End Date:

2012.05.31

Last Calib.: 2012.05.31

Start Time: 21:23:05

End Time:

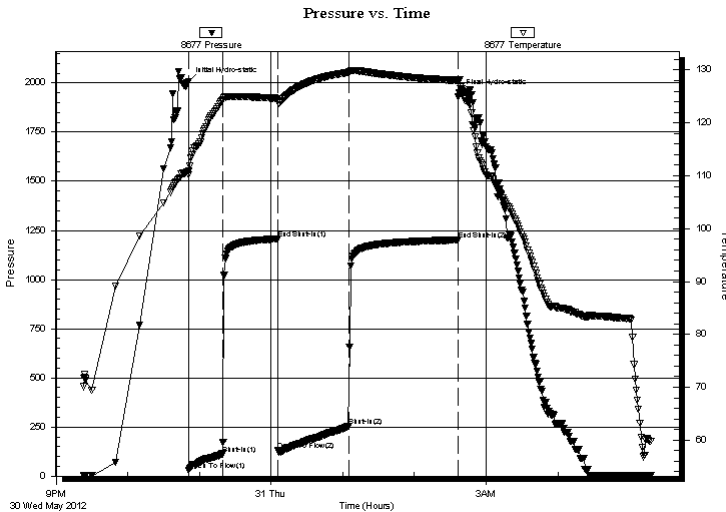
05:17:59

Time On Btm: 2012.05.30 @ 22:50:45

Time Off Btm: 2012.05.31 @ 02:37:15

TEST COMMENT: IF: BOB @ 5 min.
IS: 7" return.
FF: BOB @ 5 min.
FS: BOB @ 10 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.83	110.87	Initial Hydro-static
1	29.61	110.15	Open To Flow (1)
29	113.37	124.23	Shut-In(1)
75	1206.45	124.63	End Shut-In(1)
75	130.25	123.98	Open To Flow (2)
135	254.88	129.52	Shut-In(2)
226	1200.73	128.02	End Shut-In(2)
227	1947.32	128.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mcw 30m 70w (oil spots)	0.68
60.00	gw ocm 30g 20w 20o 30m	0.60
440.00	go 60g 40o	4.38
0.00	2550' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

Tool Information

Drill Pipe:	Length: 4029.00 ft	Diameter: 3.20 inches	Volume: 40.08 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 40.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4150.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 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			4124.00	
Shut In Tool	5.00			4129.00	
Hydraulic tool	5.00			4134.00	
Jars	5.00			4139.00	
Safety Joint	2.00			4141.00	
Packer	5.00			4146.00	27.00 Bottom Of Top Packer
Packer	4.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	8677	Outside	4151.00	
Recorder	0.00	8522	Inside	4151.00	
Perforations	16.00			4167.00	
Bullnose	3.00			4170.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 37 deg API

Water Salinity: 69000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	mcw 30m 70w (oil spots)	0.685
60.00	gw ocm 30g 20w 20o 30m	0.597
440.00	go 60g 40o	4.377
0.00	2550' GIP	0.000

Total Length: 630.00 ft Total Volume: 5.659 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

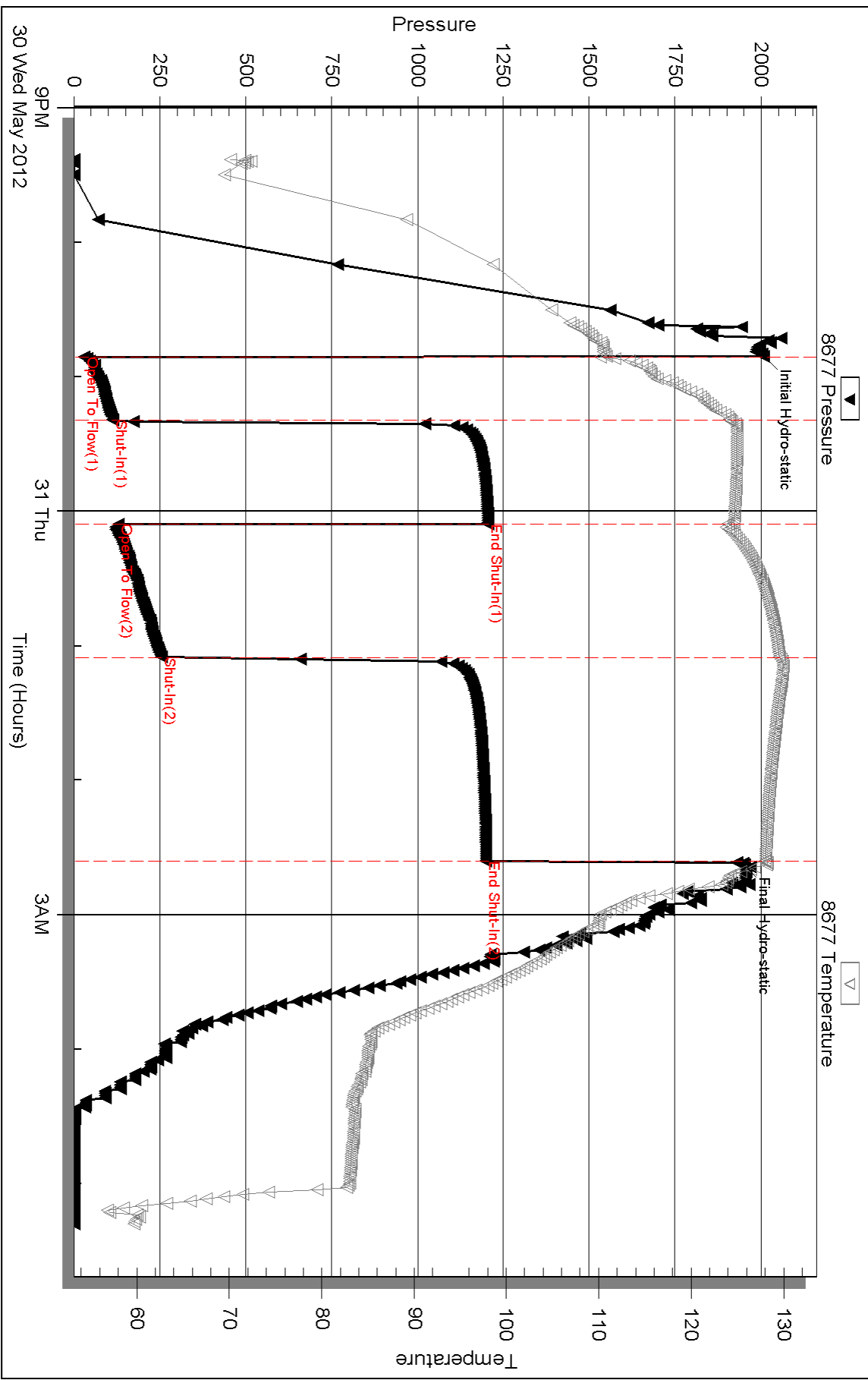
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .160 @ 49F = 69,000ppm

Pressure vs. Time



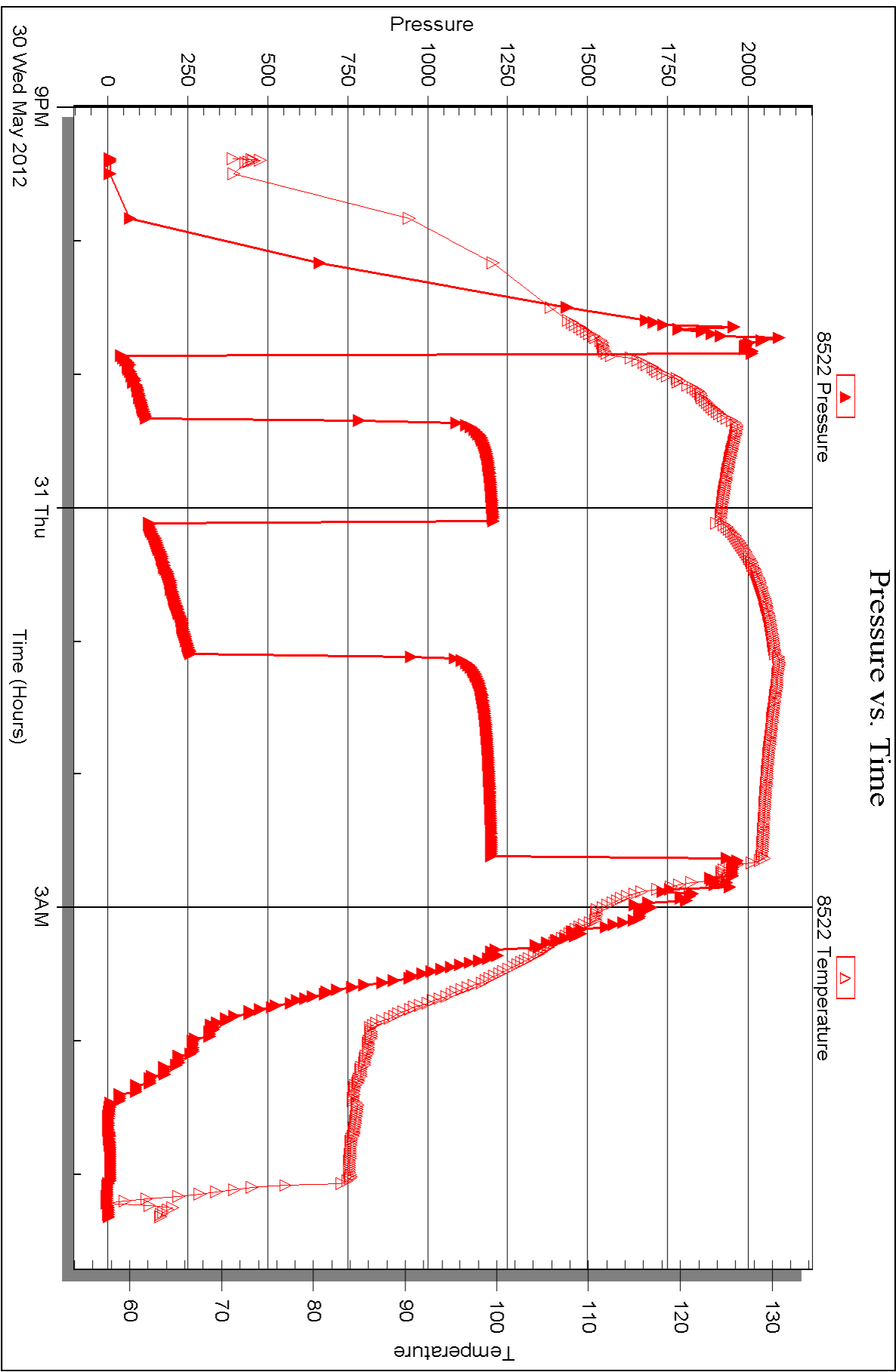
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.06.01 @ 10:39:00

End Date: 2012.06.01 @ 19:04:00

Job Ticket #: 46617 DST #: 6

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

Printed: 2012.06.13 @ 13:06:45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46617

DST#: 6

Test Start: 2012.06.01 @ 10:39:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:35:30

Time Test Ended: 19:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4374.00 ft (KB) To 4404.00 ft (KB) (TVD)

Total Depth: 4404.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2869.00 ft (KB)

2864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 437.79 psig @ 4375.00 ft (KB)

Start Date: 2012.06.01

End Date:

2012.06.01

Start Time: 10:39:05

End Time:

19:03:59

Capacity: 8000.00 psig

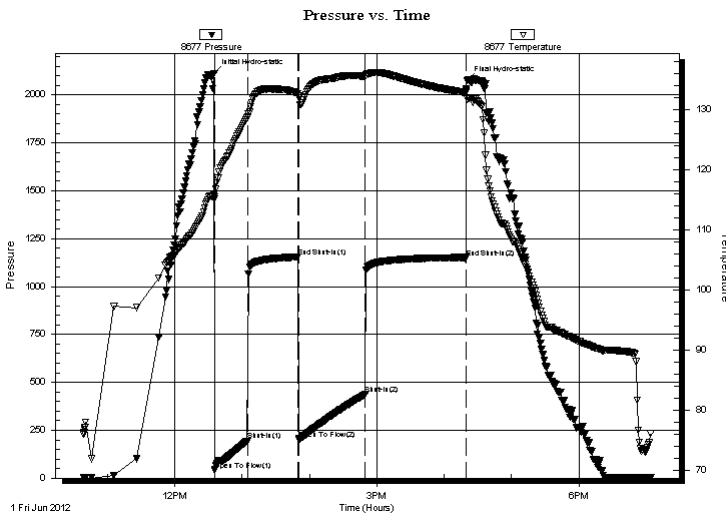
Last Calib.: 2012.06.01

Time On Btm: 2012.06.01 @ 12:35:15

Time Off Btm: 2012.06.01 @ 16:20:44

TEST COMMENT: IF:BOB @ 4 min.
IS:BOB @ 12 min.
FF:BOB @ 6 min.
FS:BOB @ 22 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.45	115.91	Initial Hydro-static
1	39.45	115.19	Open To Flow (1)
30	195.53	128.80	Shut-In(1)
75	1154.33	132.72	End Shut-In(1)
76	202.98	132.30	Open To Flow (2)
135	437.79	135.63	Shut-In(2)
225	1151.86	132.88	End Shut-In(2)
226	2076.56	131.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	gocm 30g 30o 40m	1.38
950.00	go 40g 60o	9.45
0.00	1460' 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

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46617

DST#: 6

Test Start: 2012.06.01 @ 10:39:00

Tool Information

Drill Pipe:	Length: 4248.00 ft	Diameter: 3.20 inches	Volume: 42.26 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 42.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4374.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			4348.00	
Shut In Tool	5.00			4353.00	
Hydraulic tool	5.00			4358.00	
Jars	5.00			4363.00	
Safety Joint	2.00			4365.00	
Packer	5.00			4370.00	27.00 Bottom Of Top Packer
Packer	4.00			4374.00	
Stubb	1.00			4375.00	
Recorder	0.00	8677	Outside	4375.00	
Recorder	0.00	8522	Inside	4375.00	
Perforations	26.00			4401.00	
Bullnose	3.00			4404.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.
1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

26-13s-31w Gove,KS
Phillip #1-26
Job Ticket: 46617
Test Start: 2012.06.01 @ 10:39:00

DST#: 6

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	gocm 30g 30o 40m	1.381
950.00	go 40g 60o	9.450
0.00	1460' GIP	0.000

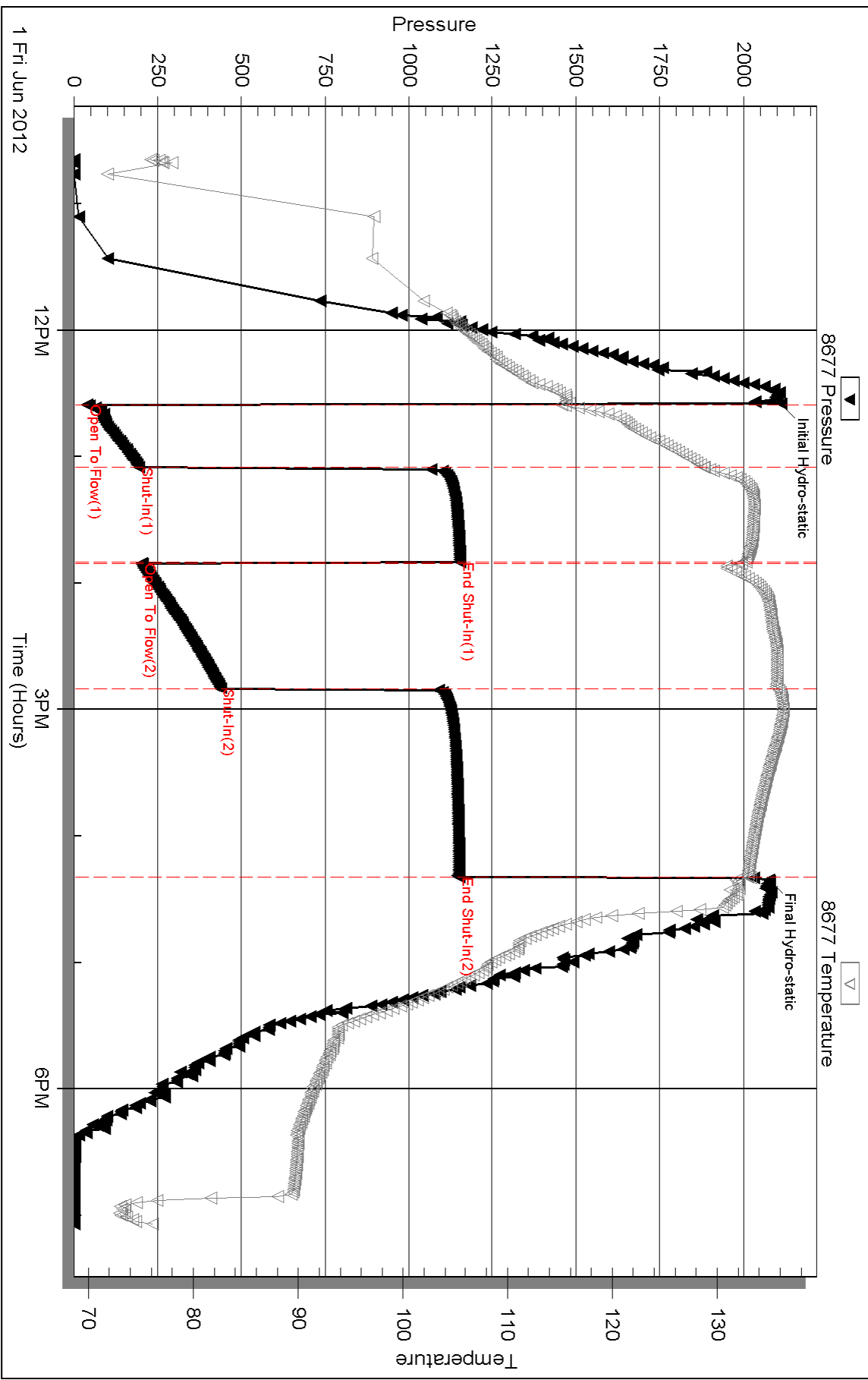
Total Length: 1150.00 ft Total Volume: 10.831 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



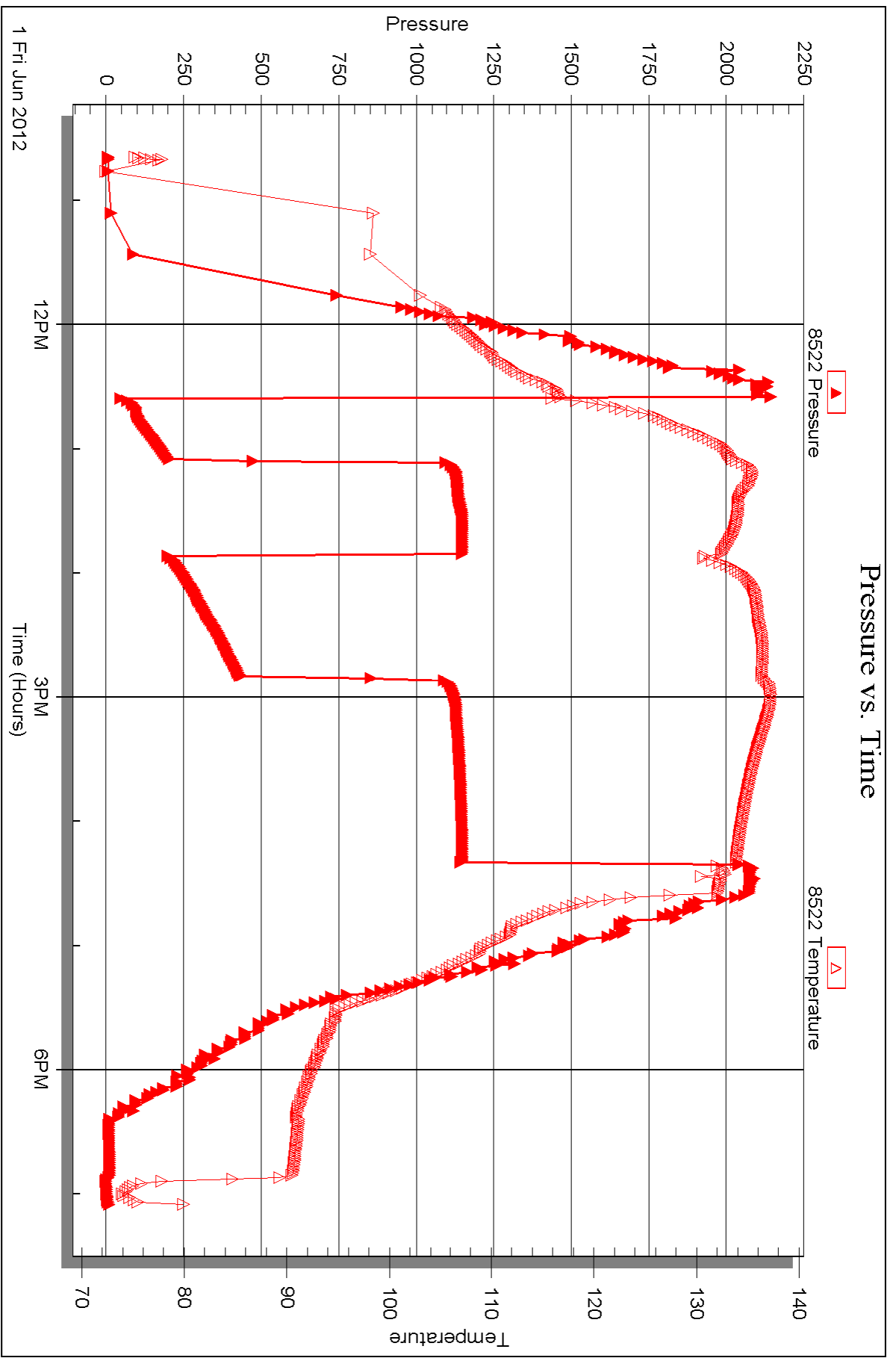
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 46617

Printed: 2012.06.13 @ 13:06:48



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.06.02 @ 21:38:00

End Date: 2012.06.03 @ 06:22:00

Job Ticket #: 46618 DST #: 7

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

Printed: 2012.06.13 @ 13:06:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:32:00

Time Test Ended: 06:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4459.00 ft (KB) To 4493.00 ft (KB) (TVD)

Reference Elevations: 2869.00 ft (KB)

Total Depth: 4493.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 547.27 psig @ 4460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.02

End Date:

2012.06.02

Last Calib.:

2012.06.02

Start Time: 09:38:05

End Time:

18:22:00

Time On Btm:

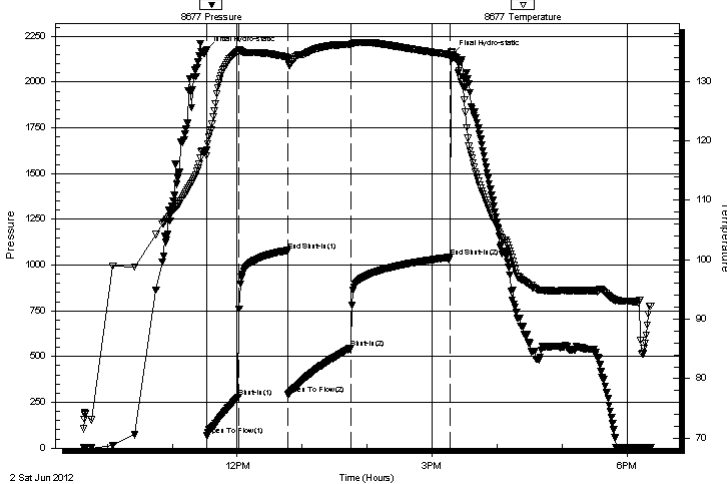
2012.06.02 @ 11:31:45

Time Off Btm:

2012.06.02 @ 15:18:00

TEST COMMENT: IF: BOB @ 2 1/2 min.
IS: BOB @ 15 min.
FF: BOB @ 3 min.
FS: BOB @ 22 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.55	118.44	Initial Hydro-static
1	68.08	117.47	Open To Flow (1)
30	279.89	135.06	Shut-In(1)
75	1075.35	134.03	End Shut-In(1)
75	293.47	133.69	Open To Flow (2)
134	547.27	136.23	Shut-In(2)
225	1042.57	134.50	End Shut-In(2)
227	2148.15	134.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 5g 40m 55o	0.59
1280.00	go 30g 70o	12.73
0.00	1880 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

Tool Information

Drill Pipe:	Length: 4341.00 ft	Diameter: 3.20 inches	Volume: 43.18 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: 20000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 43.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4459.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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			4433.00	
Shut In Tool	5.00			4438.00	
Hydraulic tool	5.00			4443.00	
Jars	5.00			4448.00	
Safety Joint	2.00			4450.00	
Packer	5.00			4455.00	27.00 Bottom Of Top Packer
Packer	4.00			4459.00	
Stubb	1.00			4460.00	
Recorder	0.00	8677	Outside	4460.00	
Recorder	0.00	8522	Inside	4460.00	
Perforations	30.00			4490.00	
Bullnose	3.00			4493.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gmco 5g 40m 55o	0.590
1280.00	go 30g 70o	12.728
0.00	1880 GIP	0.000

Total Length: 1400.00 ft Total Volume: 13.318 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

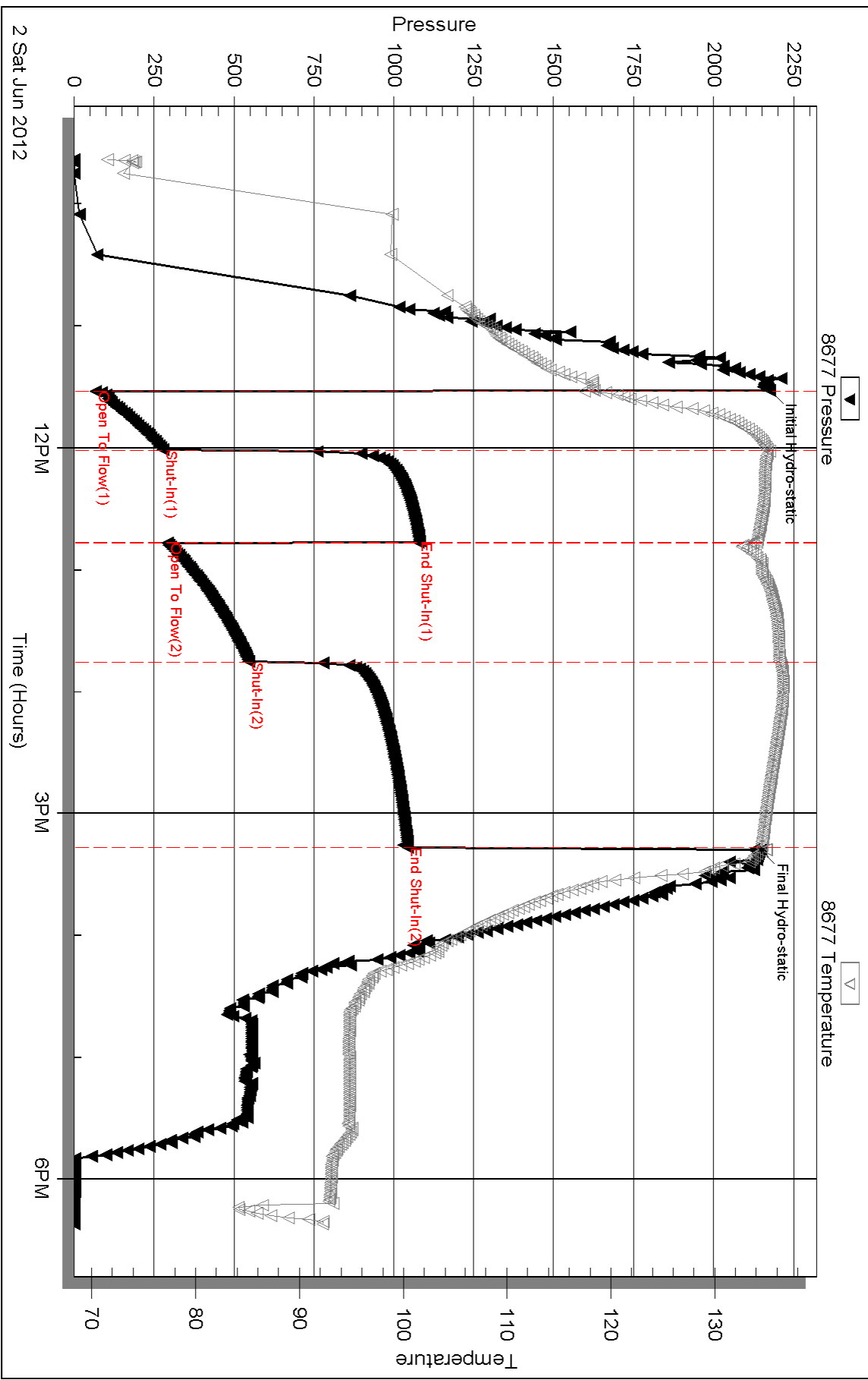
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



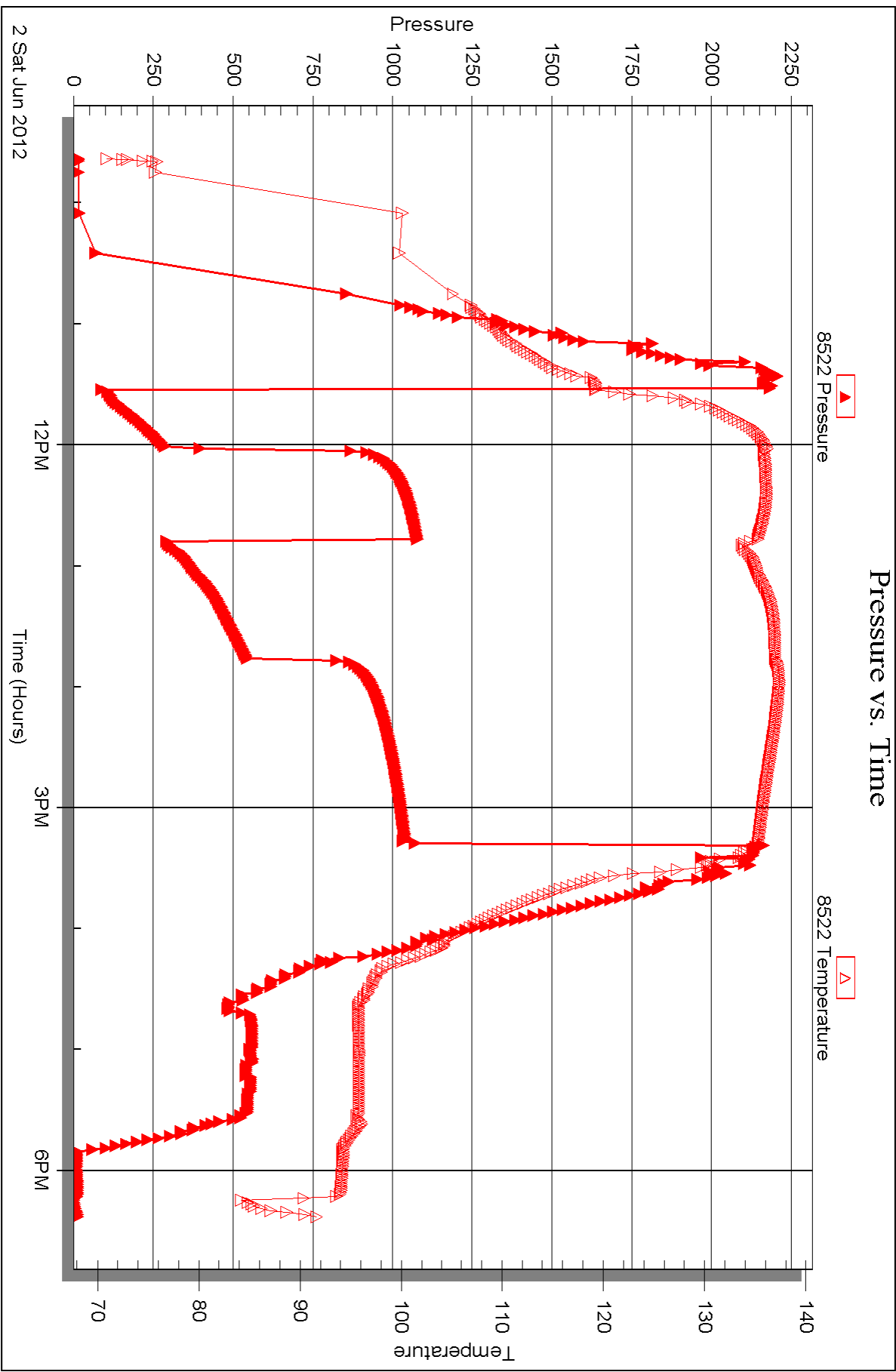
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46611

4/10

Well Name & No. Phillip # 1-26 Test No. 1 Date 3/27/12
 Company Grand Mesa Operating Co. Elevation 2869 KB 2864 GL
 Address 1700 N. Waterfront Pkwy Bldg #600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Muffin #24
 Location: Sec. 26 Twp. 13s Rge. 31w Co. Gove State Ks

Interval Tested 3941 - 3973 Zone Tested LKC "C-D"
 Anchor Length 32' Drill Pipe Run 3912 Mud Wt. 9.2
 Top Packer Depth 3936 Drill Collars Run 121 Vis 51
 Bottom Packer Depth 3941 Wt. Pipe Run 0 WL 7.2
 Total Depth 3973 Chlorides 2500 ppm System LCM 5#
 Blow Description IF: 6" blow.
ISI: No return.
FF: 9" blow.
FSI: No return.

Rec	Feet of	IS	%gas	%oil	%water	%mud
50	60	15	85			
50	OCM		30			70
60	OWCM		10		30	60
60	OMCW		10		70	20
	40' Gassy Oder					
Rec Total	200	BHT 122	Gravity 32	API RW 130 @ 80 °F	Chlorides 52,000 ppm	

(A) Initial Hydrostatic 1949 Test 1150 T-On Location 1245
 (B) First Initial Flow 28 Jars 250 T-Started 1342
 (C) First Final Flow 80 Safety Joint 75 T-Open 1542
 (D) Initial Shut-In 1148 Circ Sub H/C T-Pulled 1842
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 2032
 (F) Second Final Flow 111 Mileage 90 RT 139.50 Comments _____
 (G) Final Shut-In 1132 Sampler _____
 (H) Final Hydrostatic 1893 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1614.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1614.50

Approved By Bob Schrieber 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46613

4/10

Well Name & No. Phillip #1-26 Test No. 2 Date 5/28/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N Waterfront Pkwy Bldg #600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Murfin #24
 Location: Sec. 26 Twp. 13s Rge. 31w Co. Gove State Ks

Interval Tested 3974 - 4008 Zone Tested LKC "E-F"
 Anchor Length 34 Drill Pipe Run 3842 Mud Wt. 9.1
 Top Packer Depth 3969 Drill Collars Run 121 Vis 58
 Bottom Packer Depth 3974 Wt. Pipe Run 0 WL 6.4
 Total Depth 4008 Chlorides 3000 ppm System LCM 4#

Blow Description IF: BOB @ 2 1/2 min.
ISF: BOB @ 28 min.
FF: BOB @ 5 min.
FSI: 3" return.

Rec	Feet of	%gas	%oil	%water	%mud
1230	60	30	70		
160	MCW (oil spots)			60	40
	900' GIP				

Rec Total 1390 BHT 127 Gravity 36 API RW .110 @ 76 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 1940 Test 1250 T-On Location 0735
 (B) First Initial Flow 93 Jars 250 T-Started 0747
 (C) First Final Flow 269 Safety Joint 75 T-Open 0947
 (D) Initial Shut-In 1125 Circ Sub T-Pulled 1332
 (E) Second Initial Flow 284 Hourly Standby T-Out 1726
 (F) Second Final Flow 535 Mileage 90 R/T 139.50 Comments _____
 (G) Final Shut-In 1098 Sampler _____
 (H) Final Hydrostatic 1896 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1614.50
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1614.50

Approved By Bob Schrieber Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46614

4/10

Well Name & No. Phillip #1-26 Test No. 3 Date 5/29/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N Waterfront Pkwy Bldg #600 Wichita, KS 67206
 Co. Rep / Geo. Bob Schrieber Rig MuAn #24
 Location: Sec. 26 Twp. 13S Rge. 31W Co. Gove State KS

Interval Tested 4065-4126 Zone Tested LKC H-I
 Anchor Length 61 Drill Pipe Run 3937 Mud Wt. 9.1
 Top Packer Depth 4060 Drill Collars Run 121 Vis 53
 Bottom Packer Depth 4065 Wt. Pipe Run 0 WL 7.2
 Total Depth 4126 Chlorides 3500 ppm System LCM S#

Blow Description IF: BOB @ 17 min
ISI: Surface blow, Died @ 20 min.
FF: BOB @ 10 min.
FSI: 1" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>gmco</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>0</u>
<u>180</u>	<u>gmco</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>0</u>
<u>790'</u>	<u>GIP</u>				

Rec Total 325 BHT 123 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1989</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1215</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1234</u>
(C) First Final Flow <u>89</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1429</u>
(D) Initial Shut-In <u>1212</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>1814</u>
(E) Second Initial Flow <u>89 442</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2015</u>
(F) Second Final Flow <u>141 1203</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT</u> <u>139.50</u>	Comments
(G) Final Shut-In <u>1203</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1943</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>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1614.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1614.50</u>	

Approved By Bob Schrieber

Our Representative [Signature]



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46615**

4/10

Well Name & No. Phillip #1-26 Test No. 4 Date 5/30/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N. Waterfront Pkwy Bldg #600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Murfin #24
 Location: Sec. 26 Twp. 135 Rge. 31w Co. Gove State Ks

Interval Tested 4127 - 4151 Zone Tested LTC "J"
 Anchor Length 24 Drill Pipe Run 3999 Mud Wt. 9.2
 Top Packer Depth 4122 Drill Collars Run 121 Vis 52
 Bottom Packer Depth 4127 Wt. Pipe Run 0 WL 9.8
 Total Depth 4151 Chlorides 3500 ppm System LCM 4#

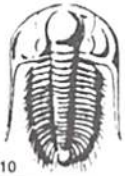
Blow Description IF: BOB@ 2 min.
IST: 3" return.
FF: BOB@ 3 min.
FSI: BOB@ 29 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>1980</u>	<u>Sncw (oil spots)</u>			<u>98</u>	<u>2</u>
	<u>500' GIP</u>				

Rec Total 2050 BHT 129 Gravity 34 API RW .090 @ 82 °F Chlorides 74,000 ppm
 (A) Initial Hydrostatic 2026 Test 1250 T-On Location 0440
 (B) First Initial Flow 85 Jars 250 T-Started 0455
 (C) First Final Flow 478 Safety Joint 75 T-Open 0634
 (D) Initial Shut-In 1154 Circ Sub used 50 T-Pulled 1004
 (E) Second Initial Flow 487 Hourly Standby _____ T-Out 1319
 (F) Second Final Flow 908 Mileage 90 R/T 139.50 Comments _____
 (G) Final Shut-In 1151 Sampler _____
 (H) Final Hydrostatic 2020 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1664.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1664.50

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46616

Well Name & No. Phillip #1-26 Test No. 5 Date 5/3/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N. Waterfront Pkwy Bldg #602 Wichita, KS 67206
 Co. Rep / Geo. Bob Schriber Rig Murpin #24
 Location: Sec. 26 Twp. 13E Rge. 3W Co. Gove State KS

Interval Tested 4150 - 4170 Zone Tested LKC "K"
 Anchor Length 20 Drill Pipe Run 4029 Mud Wt. 9.2
 Top Packer Depth 4145 Drill Collars Run 121 Vis 52
 Bottom Packer Depth 4150 Wt. Pipe Run 0 WL 8.8
 Total Depth 4170 Chlorides 3500 ppm System LCM 4#
 Blow Description IF: BOB @ 5 min.
ISI: 7" return
FF: BOB @ 5 min.
FSI: BOB @ 10 min

Rec	Feet of	%gas	%oil	%water	%mud
440	90	60	40		
60	gwocm	30	20	20	30
130	mcw (OIL SPOTS)			20	30
	2550 GIP				

Rec Total 630 BHT 129 Gravity 37 API RW .160 @ 49 °F Chlorides 69,000 ppm

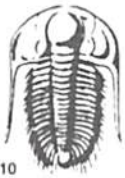
(A) Initial Hydrostatic 2008 Test 1250 T-On Location 21:00 5/30
 (B) First Initial Flow 30 Jars 250 T-Started 21:23 "
 (C) First Final Flow 113 Safety Joint 75 T-Open 22:51 "
 (D) Initial Shut-In 1206 Circ Sub NA T-Pulled 2:36 5/31
 (E) Second Initial Flow 130 Hourly Standby _____ T-Out 05:19 "
 (F) Second Final Flow 255 Mileage 90 R/T 139.50
 (G) Final Shut-In 1201 Sampler _____
 (H) Final Hydrostatic 1947 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1614.50

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1614.50
 MP/DST Disc't _____

Approved By Bob Schriber

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46617

4/10

Well Name & No. <u>Phillip #1-26</u>	Test No. <u>6</u>	Date <u>6/1/12</u>
Company <u>Grand Mesa Operating CO</u>	Elevation <u>2869</u>	KB <u>2864</u> GL
Address <u>1700 N Waterfront Pkwy Bldg #602 Wichita, KS 67206</u>		
Co. Rep / Geo. <u>Bob Schriber</u>	Rig <u>Murfin #24</u>	
Location: Sec. <u>26</u> Twp. <u>135</u> Rge. <u>31 W</u> Co. <u>Grove</u> State <u>KS</u>		

Interval Tested <u>4374-4404</u>	Zone Tested <u>Fort Scott</u>
Anchor Length <u>30</u>	Drill Pipe Run <u>4248</u> Mud Wt. <u>9.0</u>
Top Packer Depth <u>4369</u>	Drill Collars Run <u>121</u> Vis <u>47</u>
Bottom Packer Depth <u>4374</u>	Wt. Pipe Run <u>0</u> WL <u>6.40</u>
Total Depth <u>4404</u>	Chlorides <u>2800</u> ppm System LCM <u>4</u>
Blow Description <u>IF: Bob @ 4 min.</u>	
<u>ISI: Bob @ 12 min.</u>	
<u>FF: Bob @ 6 min.</u>	
<u>FSI: Bob @ 22 min.</u>	

Rec <u>200</u>	Feet of <u>90 CM</u>	<u>30</u> %gas	<u>30</u> %oil	%water	<u>40</u> %mud
Rec <u>950</u>	Feet of <u>90</u>	<u>40</u> %gas	<u>60</u> %oil	%water	%mud
Rec _____	Feet of <u>1460' GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total <u>1150</u>	BHT <u>129</u>	Gravity <u>34</u>	API RW <u>—</u> @ <u>—</u> °F	Chlorides <u>—</u> ppm
(A) Initial Hydrostatic <u>2113</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:15</u>		
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:39</u>		
(C) First Final Flow <u>196</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:36 pm</u>		
(D) Initial Shut-In <u>1154</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>4:21 pm</u>		
(E) Second Initial Flow <u>203</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:05 pm</u>		
(F) Second Final Flow <u>438</u>	<input checked="" type="checkbox"/> Mileage <u>90 R/T</u> 139.50	Comments _____		
(G) Final Shut-In <u>1152</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____		
(H) Final Hydrostatic <u>2077</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____		
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____		
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>		
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1614.50</u>		
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____		
	<input type="checkbox"/> Accessibility _____			
	Sub Total <u>1614.50</u>			

Approved By Robert Schriber

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46618

4/10

Well Name & No. Phillip #1-26 Test No. 7 Date 6/2/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N Water front Pkwy Bldg #602 Wichita, KS 67206
 Co. Rep / Geo. Bob Schrieber Rig Martin #24
 Location: Sec. 26 Twp. 13S Rge. 31W Co. Grave State KS

Interval Tested 4459 - 4493 Zone Tested Johnson
 Anchor Length 34 Drill Pipe Run 4341 Mud Wt. 9.0
 Top Packer Depth 4454 Drill Collars Run 121 Vis 54
 Bottom Packer Depth 4459 Wt. Pipe Run 0 WL 6.8
 Total Depth 4493 Chlorides 3500 ppm System LCM 4

Blow Description IF: Bob @ 2 1/2 min.
ISI: Bob @ 15 min.
FF: Bob @ 3 min
FSI: Bob @ 22 min

Rec	Feet of	%gas	%oil	%water	%mud
120	Grave				
1880 1280	1880 GIP go	30	70		
120	SMCD	5	55		40
1880	1880' GIP				

Rec Total 1400 BHT 135 Gravity 30 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2175</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:08</u>
(B) First Initial Flow <u>68</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:38</u>
(C) First Final Flow <u>280</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:02</u>
(D) Initial Shut-In <u>1075</u>	<input checked="" type="checkbox"/> Circ Sub <u>used</u> <u>50</u>	T-Pulled <u>14:47</u>
(E) Second Initial Flow <u>293</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:22</u>
(F) Second Final Flow <u>547</u>	<input checked="" type="checkbox"/> Mileage <u>90 N/T x 2</u> <u>279</u>	Comments
(G) Final Shut-In <u>1043</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2148</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	Total <u>1904</u>
Final Flow <u>60</u>	Sub Total <u>1904</u>	MP/DST Disc't
Final Shut-In <u>90</u>		

Approved By Robert Schrieber

Our Representative [Signature]

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