

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

Job Ticket: 52279

DST#: 1

ATTN: Keith Reavis

Test Start: 2013.05.26 @ 17:32:50

GENERAL INFORMATION:

Formation: **Conglomerate Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:51:35

Time Test Ended: 03:14:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: **4099.00 ft (KB) To 4136.00 ft (KB) (TVD)**

Reference Elevations: 2068.00 ft (KB)

Total Depth: 4136.00 ft (KB) (TVD)

2055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352

Inside

Press@RunDepth: 22.98 psig @ 4100.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.26

End Date:

2013.05.27

Last Calib.:

2013.05.27

Start Time: 17:32:55

End Time:

03:14:20

Time On Btm:

2013.05.26 @ 19:47:35

Time Off Btm:

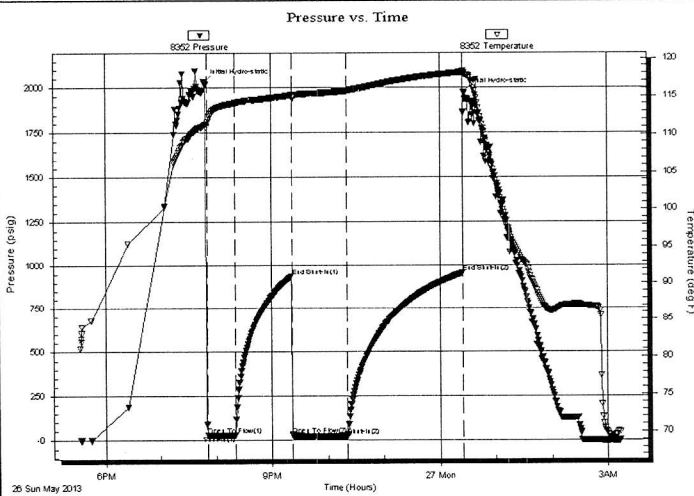
2013.05.27 @ 00:26:20

TEST COMMENT: IF: Strong blow . B.O.B. in 2 - 3 secs. GTS in 22 mins. (see gas flow report)

ISI: Very weak blow . (surface)

FF: Strong blow . (see gas flow report)

FSI: Weak blow . 1/2 - 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.20	111.14	Initial Hydro-static
4	30.30	111.55	Open To Flow (1)
33	29.80	114.08	Shut-In(1)
95	938.02	115.13	End Shut-In(1)
96	29.54	114.77	Open To Flow (2)
154	22.98	115.63	Shut-In(2)
278	956.70	118.12	End Shut-In(2)
279	1972.11	118.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GCM 8%g 92%m	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	2.00	25.70
Last Gas Rate	0.25	3.00	27.29
Max. Gas Rate	0.25	5.00	30.46



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FLUID SUMMARY

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

Job Ticket: 52279

DST#: 1

ATTN: Keith Reavis

Test Start: 2013.05.26 @ 17:32:50

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:	5100 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5100.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GCM 8%g 92%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

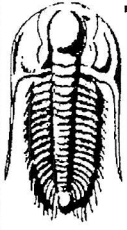
Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

Job Ticket: 52279

DST#: 1

ATTN: Keith Reavis

Test Start: 2013.05.26 @ 17:32:50

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	30	0.25	2.00	25.70
1	30	0.25	2.00	25.70
2	10	0.25	5.00	30.46
2	20	0.25	3.50	28.08
2	30	0.25	3.50	28.08
2	40	0.25	3.00	27.29
2	50	0.25	3.00	27.29

Serial #: 8352

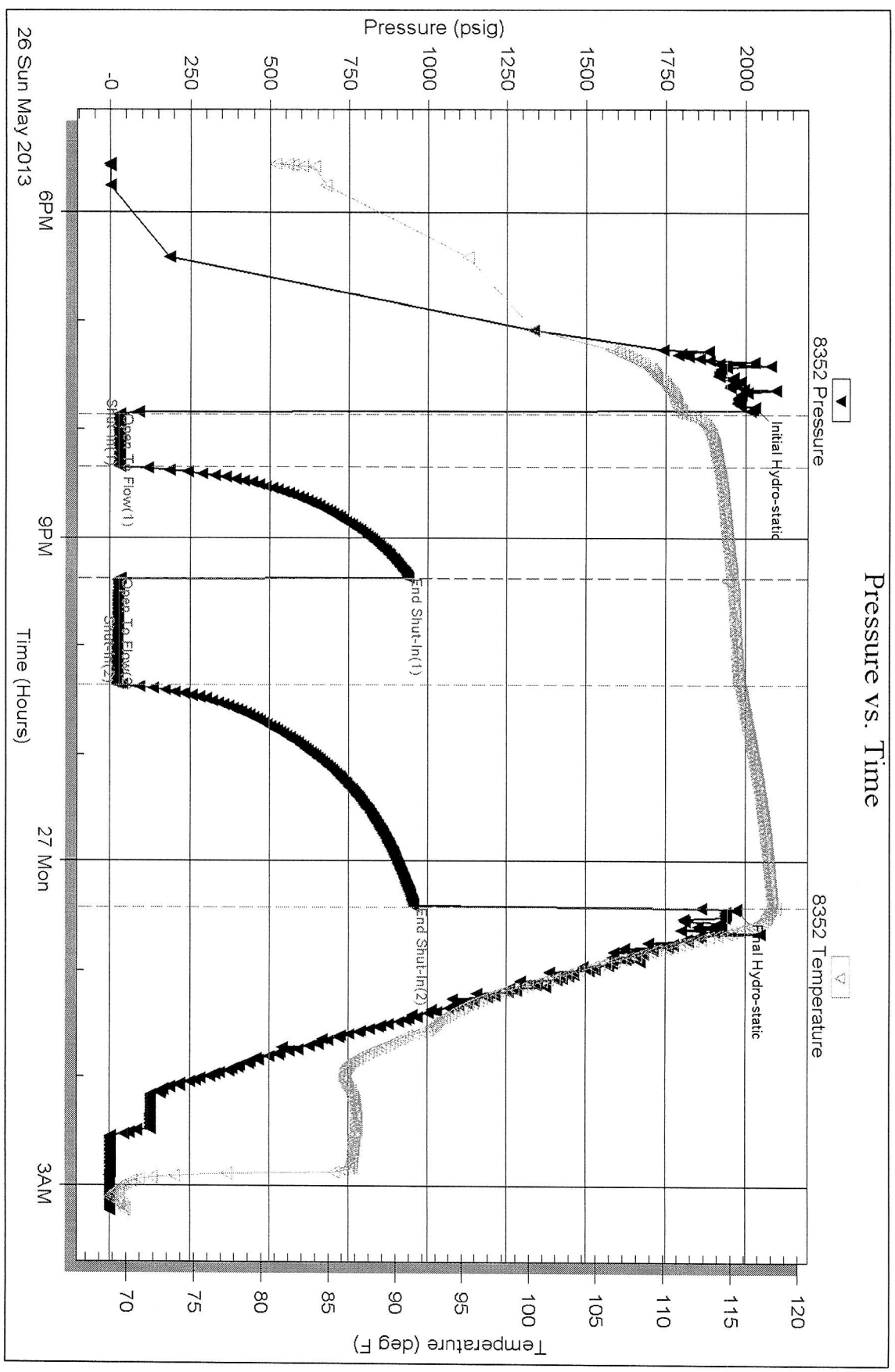
Inside

Victory Operating

Ward Feed Yards#1-31

DST Test Number: 1

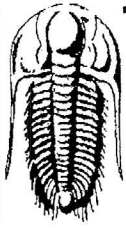
Pressure vs. Time



Tribolite Testing, Inc

Ref. No: 52279

Printed: 2013.05.27 @ 08:19:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

ATTN: Keith Reavis

Job Ticket: 52280

DST#: 2

Test Start: 2013.05.27 @ 10:36:39

GENERAL INFORMATION:

Formation: **Conglomerate Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:39

Time Test Ended: 19:35:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: **4101.00 ft (KB) To 4160.00 ft (KB) (TVD)**

Total Depth: 4160.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2068.00 ft (KB)

2055.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8352

Inside

Press@RunDepth: 62.32 psig @ 4102.00 ft (KB)

Start Date: 2013.05.27

End Date: 2013.05.27

Start Time: 10:36:44

End Time: 19:35:39

Capacity: 8000.00 psig

Last Calib.: 2013.05.27

Time On Btm: 2013.05.27 @ 12:42:09

Time Off Btm: 2013.05.27 @ 17:14:24

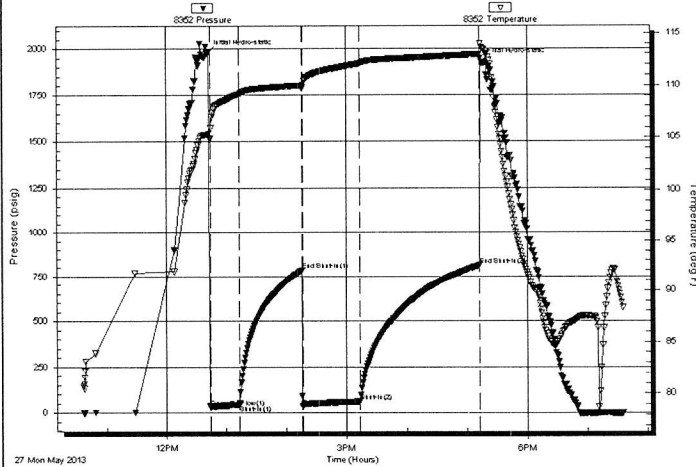
TEST COMMENT: IF: Strong blow . B.O.B. in 15 - 20 secs.

IS: Weak blow . 1/2 - 1 1/2".

FF: Strong blow . B.O.B. in 2 secs. GTS in 13 mins. Flow rate; 24 mcf/d @

20, 30, & 40 mins. TSTM @ 50 & 60 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1975.44	105.35	Initial Hydro-static
3	29.62	104.91	Open To Flow (1)
31	45.42	109.14	Shut-In(1)
94	784.03	110.00	End Shut-In(1)
95	34.64	109.78	Open To Flow(2)
152	62.32	112.10	Shut-In(2)
271	813.84	112.97	End Shut-In(2)
273	1925.07	113.61	Final Hydro-static

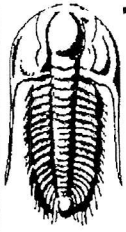
Recovery

Length (ft)	Description	Volume (bbl)
120.00	Drig. mud w/trace of oil	0.59

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.11
Last Gas Rate	0.25	1.00	24.11
Max. Gas Rate	0.25	1.00	24.11



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

Job Ticket: 52280

DST#: 2

ATTN: Keith Reavis

Test Start: 2013.05.27 @ 10:36:39

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:

4100 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Drlg.mud w/trace of oil	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

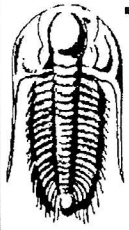
Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

Job Ticket: 52280

DST#: 2

ATTN: Keith Reavis

Test Start: 2013.05.27 @ 10:36:39

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)
2	20	0.25	1.00	24.11
2	20	0.25	1.00	24.11
2	30	0.25	1.00	24.11

Serial #: 8352

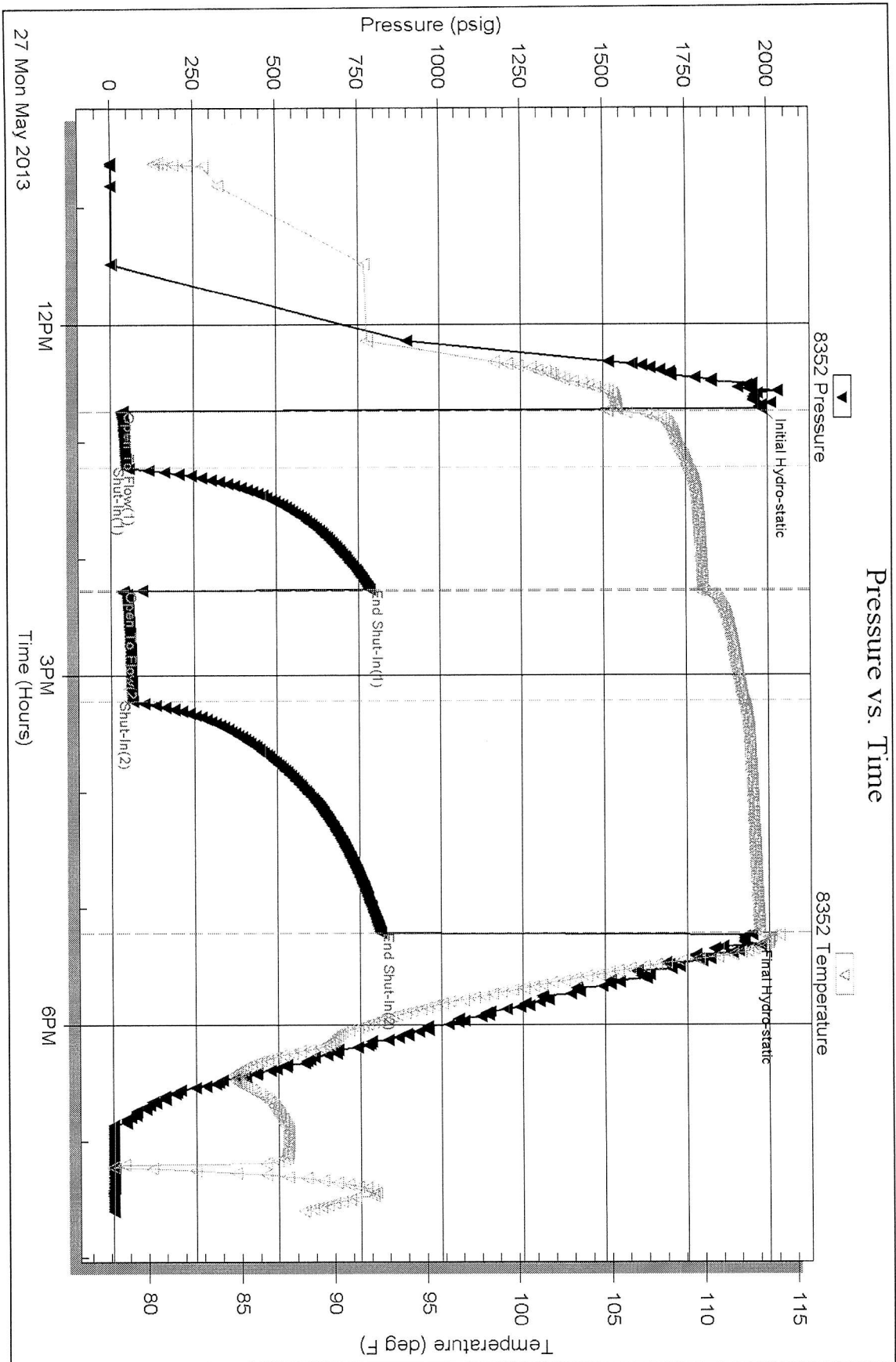
Inside

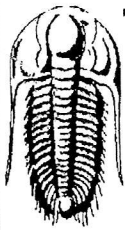
Victory Operating

Ward Feed Yards#1-31

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks. 67230

Ward Feed Yards#1-31

ATTN: Keith Reavis

Job Ticket: 52281

DST#: 3

Test Start: 2013.05.28 @ 04:29:46

GENERAL INFORMATION:

Formation: **Conglomerate Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:14:46

Time Test Ended: 13:19:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pavoteaux

Unit No: 56

Interval: **4182.00 ft (KB) To 4224.00 ft (KB) (TVD)**

Total Depth: 4224.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2068.00 ft (KB)

2055.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8352

Inside

Press@RunDepth: 55.67 psig @ 4183.00 ft (KB)

Start Date: 2013.05.28

End Date:

2013.05.28

Start Time: 04:29:51

End Time:

13:19:46

Capacity: 8000.00 psig

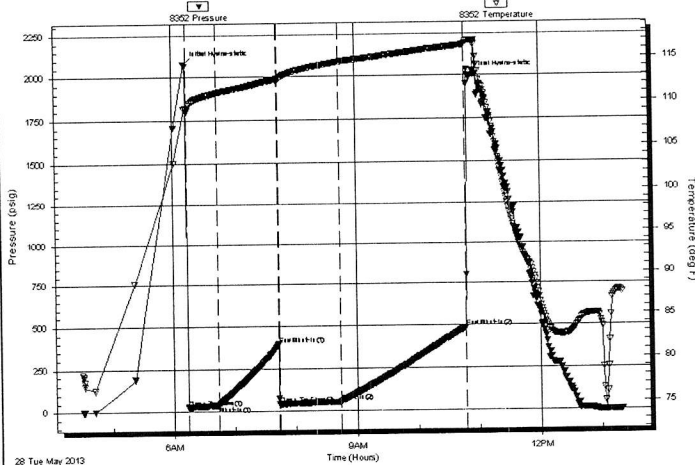
Last Calib.: 2013.05.28

Time On Btm: 2013.05.28 @ 06:12:16

Time Off Btm: 2013.05.28 @ 10:50:16

TEST COMMENT: IF: Fair to strong blow . B.O.B. in 16 mins.
IS: No blow .
FF: Fair to strong blow . B.O.B. in 37 mins.
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.79	109.26	Initial Hydro-static
3	25.01	108.95	Open To Flow (1)
32	37.09	111.08	Shut-In(1)
91	393.46	112.63	End Shut-In(1)
92	39.20	112.51	Open To Flow (2)
153	55.67	114.60	Shut-In(2)
275	486.10	116.45	End Shut-In(2)
278	2001.10	116.91	Final Hydro-static

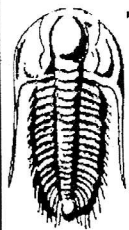
Recovery

Length (ft)	Description	Volume (bbl)
0.00	660 ft. of GIP	0.00
80.00	GOCM 10%g 11%o 79%m	0.39

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Victory Operating

31-22s-16w Pawnee Ks

6 N. Scottsdale St.
Wichita Ks.67230

Ward Feed Yards#1-31

Job Ticket: 52281

DST#: 3

ATTN: Keith Reavis

Test Start: 2013.05.28 @ 04:29:46

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:

4600 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	660 ft. of GIP	0.000
80.00	GOCM 10%g 11%o 79%m	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

Inside

Victory Operating

Ward Feed Yards#1-31

DST Test Number: 3

Pressure vs. Time

