

33-34-28W KGS ✓



DRILL STEM TEST REPORT

Prepared For: **Five Star Energy, Inc.**
215 E. 14th St.
Harper, KS 67048

ATTN: Jeff Burk

33 34 20 Comanche KS

WOOLFOLK 1-33

Start Date: 2009.03.21 @ 15:50:00

End Date: 2009.03.22 @ 01:18:40

Job Ticket #: 35050 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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KANSAS CORPORATION COMMISSION
APR 08 2009
CONSERVATION DIVISION
WICHITA KS

Five Star Energy, Inc.
WOOLFOLK 1-33
33 34 20 Comanche KS
DST # 1
Altamont
2009.03.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Five Star Energy, Inc.

215 E. 14th St.
Harper, KS 67048

ATTN: Jeff Burk

WOOLFOLK 1-33

33 34 20 Comanche KS

Job Ticket: 35050

DST#: 1

Test Start: 2009.03.21 @ 15:50:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:33:00

Time Test Ended: 01:18:40

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **5120.00 ft (KB) To 5182.00 ft (KB) (TVD)**

Total Depth: 5182.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1745.00 ft (KB)

1732.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8352

Inside

Press@RunDepth: 102.40 psig @ 5121.00 ft (KB)

Start Date: 2009.03.21

End Date:

2009.03.22

Capacity: 7000.00 psig

Last Calib.: 2009.03.22

Start Time: 15:50:02

End Time:

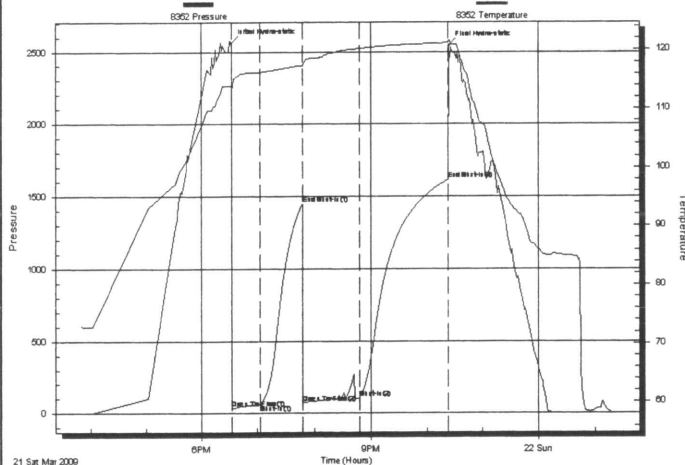
01:18:40

Time On Btm: 2009.03.21 @ 18:32:30

Time Off Btm: 2009.03.21 @ 22:23:39

TEST COMMENT: IF: Fair blow, built to 11" in bucket.
IS: Bled off, no blow back.
FF: Fairly weak blow, built to 9.5" in bucket.
FS: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2563.60	113.86	Initial Hydro-static
1	35.99	113.04	Open To Flow (1)
30	62.15	116.20	Shut-In(1)
75	1450.20	117.33	End Shut-In(1)
76	71.47	117.41	Open To Flow (2)
136	102.40	120.27	Shut-In(2)
231	1616.93	121.18	End Shut-In(2)
232	2541.55	121.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud 100%m	0.30
60.00	SGCWCM 10%g 20%w 70%m	0.30
60.00	SGCWM 10%g 35%w 55%m	0.30
0.00	No GIP	0.00
0.00	RW=-.19ohm@63degF=42500ppmCHL	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Five Star Energy, Inc.

WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

Job Ticket: 35050

DST#: 1

ATTN: Jeff Burk

Test Start: 2009.03.21 @ 15:50:00

Tool Information

Drill Pipe:	Length: 4940.00 ft	Diameter: 3.80 inches	Volume: 69.30 bbl	Tool Weight: 3200.00 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: 110000.0 lb
			<u>Total Volume: 70.19 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	5120.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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
Shut In Tool	5.00			5097.00	
Hydraulic tool	5.00			5102.00	
Jars	5.00			5107.00	
Safety Joint	3.00			5110.00	
Packer	5.00			5115.00	28.00 Bottom Of Top Packer
Packer	5.00			5120.00	
Stubb	1.00			5121.00	
Recorder	0.00	8352	Inside	5121.00	
Recorder	0.00	6799	Inside	5121.00	
Perforations	20.00			5141.00	
Blank Spacing	34.00			5175.00	
Bullnose	7.00			5182.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Five Star Energy, Inc.

WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

ATTN: Jeff Burk

Job Ticket: 35050

DST#: 1

Test Start: 2009.03.21 @ 15:50:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Drilling Mud 100%m	0.295
60.00	SGCWM 10%g 20%w 70%m	0.295
60.00	SGCWM 10%g 35%w 55%m	0.295
0.00	No GIP	0.000
0.00	RW=.19ohm@63degF=42500ppmCHL	0.000

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

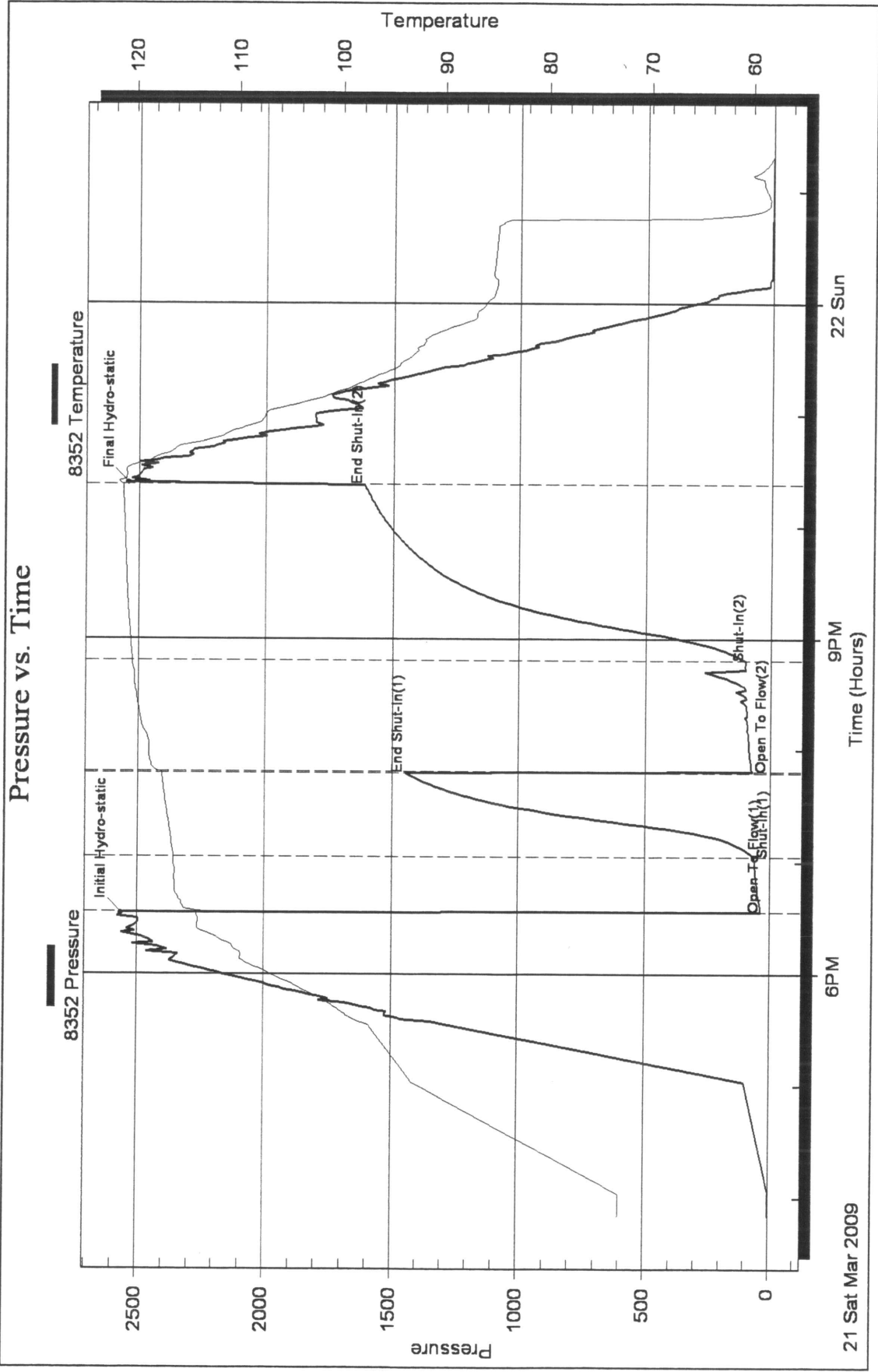
Serial #:

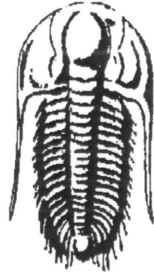
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **Five Star Energy, Inc.**

215 E. 14th St.
Harper, KS 67048

ATTN: Jeff Burk

33 34 20 Comanche KS

WOOLFOLK 1-33

Start Date: 2009.03.23 @ 10:35:00

End Date: 2009.03.23 @ 19:49:40

Job Ticket #: 35076 DST #: 2

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CONSERVATION DIVISION
WICHITA KS

Trilobite Testing, Inc

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



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DRILL STEM TEST REPORT

Five Star Energy, Inc.

WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

ATTN: Jeff Burk

Job Ticket: 35076

DST#: 2

Test Start: 2009.03.23 @ 10:35:00

GENERAL INFORMATION:

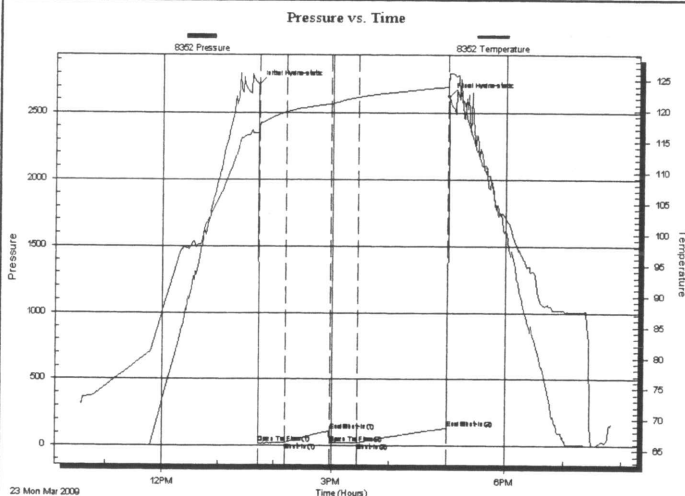
Formation: **Morrow Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:43:00
 Time Test Ended: 19:49:40
 Interval: **5416.00 ft (KB) To 5450.00 ft (KB) (TVD)**
 Total Depth: 5450.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jake Fahrenbruch
 Unit No: 43
 Reference Elevations: 1745.00 ft (KB)
 1732.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8352

Inside

Press@RunDepth: 24.06 psig @ 5417.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2009.03.23 End Date: 2009.03.23 Last Calib.: 2009.03.23
 Start Time: 10:35:02 End Time: 19:49:40 Time On Btm: 2009.03.23 @ 13:42:00
 Time Off Btm: 2009.03.23 @ 17:00:20

TEST COMMENT: IF: Surging blow, built to 7" in bucket.
 IS: Bled off, no blow back.
 FF: Surging blow @ 2" in bucket, flushed tool, surging .5" blow.
 FSI: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2712.79	116.48	Initial Hydro-static
1	18.88	117.20	Open To Flow (1)
30	21.63	119.82	Shut-In(1)
76	111.37	121.16	End Shut-In(1)
77	20.21	121.16	Open To Flow (2)
106	24.06	122.24	Shut-In(2)
198	133.61	123.92	End Shut-In(2)
199	2625.54	126.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud 100% _m	0.15
0.00	NO G.I.P.	0.00

Gas Rates

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



TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Five Star Energy, Inc.

WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

Job Ticket: 35076

DST#: 2

ATTN: Jeff Burk

Test Start: 2009.03.23 @ 10:35:00

Tool Information

Drill Pipe:	Length: 5223.00 ft	Diameter: 3.80 inches	Volume: 73.26 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: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 74.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	5416.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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
Shut In Tool	5.00			5393.00	
Hydraulic tool	5.00			5398.00	
Jars	5.00			5403.00	
Safety Joint	3.00			5406.00	
Packer	5.00			5411.00	28.00 Bottom Of Top Packer
Packer	5.00			5416.00	
Stubb	1.00			5417.00	
Recorder	0.00	8352	Inside	5417.00	
Recorder	0.00	6799	Inside	5417.00	
Perforations	30.00			5447.00	
Bullnose	3.00			5450.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



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ATTN: Jeff Burk

Job Ticket: 35076

DST#: 2

Test Start: 2009.03.23 @ 10:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.57 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud 100% _m	0.148
0.00	NO G.I.P.	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

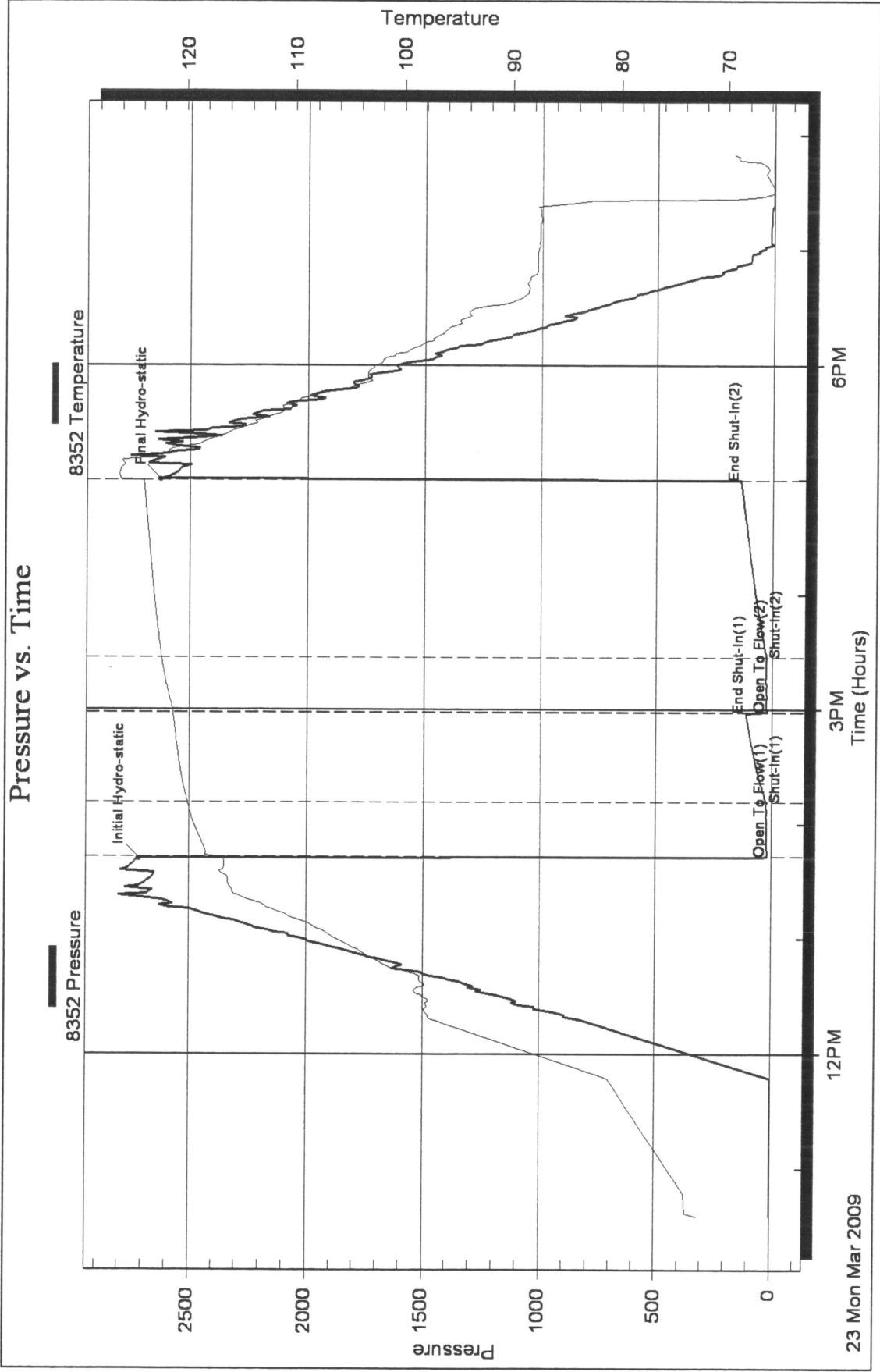
Num Gas Bombs: 0

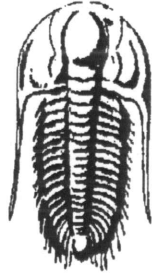
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Prepared For: **Five Star Energy, Inc.**

215 E. 14th St.
Harper, KS 67048

ATTN: Jeff Burk

33 34 20 Comanche KS

WOOLFOLK 1-33

Start Date: 2009.03.24 @ 09:38:00

End Date: 2009.03.24 @ 18:06:50

Job Ticket #: 35077 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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DRILL STEM TEST REPORT

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WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

ATTN: Jeff Burk

Job Ticket: 35077

DST#: 3

Test Start: 2009.03.24 @ 09:38:00

GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:50

Time Test Ended: 18:06:50

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **5416.00 ft (KB) To 5485.00 ft (KB) (TVD)**

Reference Elevations: 1745.00 ft (KB)

Total Depth: 5485.00 ft (KB) (TVD)

1732.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8352 Inside

Press@RunDepth: 65.03 psig @ 5452.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.03.24

End Date: 2009.03.24

Last Calib.: 2009.03.24

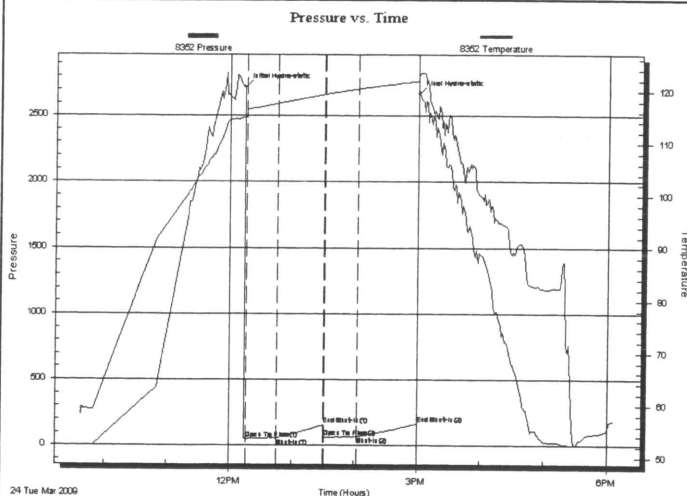
Start Time: 09:38:02

End Time: 18:06:49

Time On Btm: 2009.03.24 @ 12:14:00

Time Off Btm: 2009.03.24 @ 15:00:40

TEST COMMENT: IF: Weak blow, built to 4" in bucket.
IS: Bled off, no blow back.
FF: Weak blow, built to 2" in bucket.
FS: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2715.64	115.11	Initial Hydro-static
2	44.55	116.13	Open To Flow (1)
32	56.82	117.67	Shut-In(1)
77	157.45	119.38	End Shut-In(1)
77	59.24	119.40	Open To Flow (2)
109	65.03	120.43	Shut-In(2)
167	164.71	121.95	End Shut-In(2)
167	2665.87	122.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drilling Mud 100% _m	0.37
0.00	No GIP	0.00

Gas Rates

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



TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Five Star Energy, Inc.

WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

Job Ticket: 35077

DST#: 3

ATTN: Jeff Burk

Test Start: 2009.03.24 @ 09:38:00

Tool Information

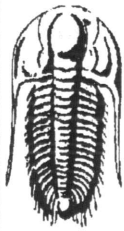
Drill Pipe:	Length: 5223.00 ft	Diameter: 3.80 inches	Volume: 73.26 bbl	Tool Weight: 3200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 130000.0 lb
		Total Volume: 74.15 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5416.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 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
Shut In Tool	5.00			5393.00	
Hydraulic tool	5.00			5398.00	
Jars	5.00			5403.00	
Safety Joint	3.00			5406.00	
Packer	5.00			5411.00	28.00 Bottom Of Top Packer
Packer	5.00			5416.00	
Stubb	1.00			5417.00	
Perforations	3.00			5420.00	
Blank Spacing	32.00			5452.00	
Recorder	0.00	8352	Inside	5452.00	
Recorder	0.00	6799	Inside	5452.00	
Perforations	30.00			5482.00	
Bullnose	3.00			5485.00	69.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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DRILL STEM TEST REPORT

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WOOLFOLK 1-33

215 E. 14th St.
Harper, KS 67048

33 34 20 Comanche KS

Job Ticket: 35077

DST#: 3

ATTN: Jeff Burk

Test Start: 2009.03.24 @ 09:38:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Drilling Mud 100% _m	0.369
0.00	No GIP	0.000

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

