



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt INC.**

915 Harrison
P.O. Box 47
Gread Bend KS 67530

ATTN: Brad Rine

15-145-21587-0000

32 22s 18w Pawnee KS

SE NENE NE

S-F Unit #1

Start Date: 2009.08.21 @ 19:00:04

End Date: 2009.08.22 @ 03:04:04

Job Ticket #: 35107

DST #: 1

RECEIVED

FEB 26 2010

KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Carmen Schmitt INC.

S-F Unit #1

32 22s 18w Pawnee KS

DST # 1

Cherokee, Mississipp

2009.08.21



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TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt INC.

915 Harrison
P.O. Box 47
Gread Bend KS 67530
ATTN: Brad Rine

S-F Unit #1

32 22s 18w Pawnee KS

Job Ticket: 35107 **DST#: 1**

Test Start: 2009.08.21 @ 19:00:04

GENERAL INFORMATION:

Formation: **Cherokee, Mississipp**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:53:19

Time Test Ended: 03:04:04

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 31

Interval: **4264.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: 4340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2109.00 ft (KB)

2104.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8358 **Inside**

Press@RunDepth: 110.59 psig @ 4265.00 ft (KB)

Start Date: 2009.08.21

End Date:

2009.08.22

Capacity: 7000.00 psig

Last Calib.: 2009.08.22

Start Time: 19:00:09

End Time:

03:04:03

Time On Btm: 2009.08.21 @ 21:52:04

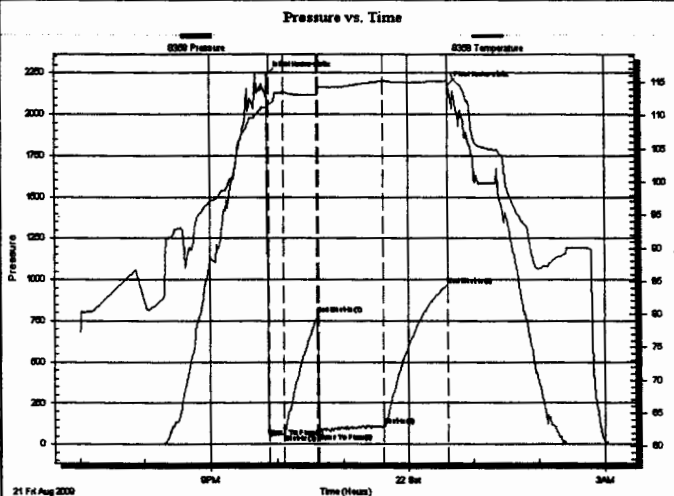
Time Off Btm: 2009.08.22 @ 00:37:33

TEST COMMENT: I.F. Strong Blow B.O.B. 40 Sec.]

I.S.I. Bled Off 5 Min No Blow

F.F. Strong Blow B.O.B. Immediately G.T.S.48 Min T.S.T.M Gas Did Burn

F.S.I. Bled Off 5 Min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.70	111.43	Initial Hydro-static
2	40.69	111.64	Open To Flow (1)
15	63.09	113.48	Shut-In (1)
45	788.73	113.10	End Shut-In (1)
46	67.92	114.06	Open To Flow (2)
105	110.59	115.19	Shut-In (2)
165	966.42	115.24	End Shut-In (2)
166	2176.47	116.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GSY MUD 2%G 98%M	0.45
61.00	GSY MUD 2%G 98%M	0.45
61.00	GSY MUD 2%G 98%M	0.45
61.00	GSY MUD 2%G 98%M	0.45
5.00	GSY MUD 2%G 98%M	0.07
0.00	3765 Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt INC.

S-F Unit #1

915 Harrison
P.O. Box 47
Gread Bend KS 67530
ATTN: Brad Rine

32 22s 18w Pawnee KS

Job Ticket: 35107 **DST#: 1**

Test Start: 2009.08.21 @ 19:00:04

Tool Information

Drill Pipe:	Length: 4015.00 ft	Diameter: 3.88 inches	Volume: 58.72 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: 30000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.75 inches	Volume: 1.80 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	60.52 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4264.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4241.00	
Hydraulic tool	5.00			4246.00	
Jars	5.00			4251.00	
Safety Joint	3.00			4254.00	
Packer	5.00			4259.00	28.00 Bottom Of Top Packer
Packer	5.00			4264.00	
Stubb	1.00			4265.00	
Recorder	0.00	8358	Inside	4265.00	
Recorder	0.00	6668	Inside	4265.00	
Perforations	3.00			4268.00	
Change Over Sub	1.00			4269.00	
Drill Pipe	62.00			4331.00	
Change Over Sub	1.00			4332.00	
Perforations	5.00			4337.00	
Bullnose	3.00			4340.00	76.00 Bottom Packers & Anchor

Total Tool Length: 104.00



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FLUID SUMMARY

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915 Harrison
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ATTN: Brad Rine

32 22s 18w Pawnee KS

Job Ticket: 35107 DST#: 1

Test Start: 2009.08.21 @ 19:00:04

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.72 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GSY MUD 2%G 98%M	0.448
61.00	GSY MUD 2%G 98%M	0.448
61.00	GSY MUD 2%G 98%M	0.448
61.00	GSY MUD 2%G 98%M	0.448
5.00	GSY MUD 2%G 98%M	0.066
0.00	3765 Gas In Pipe	0.000

Total Length: 249.00 ft Total Volume: 1.858 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

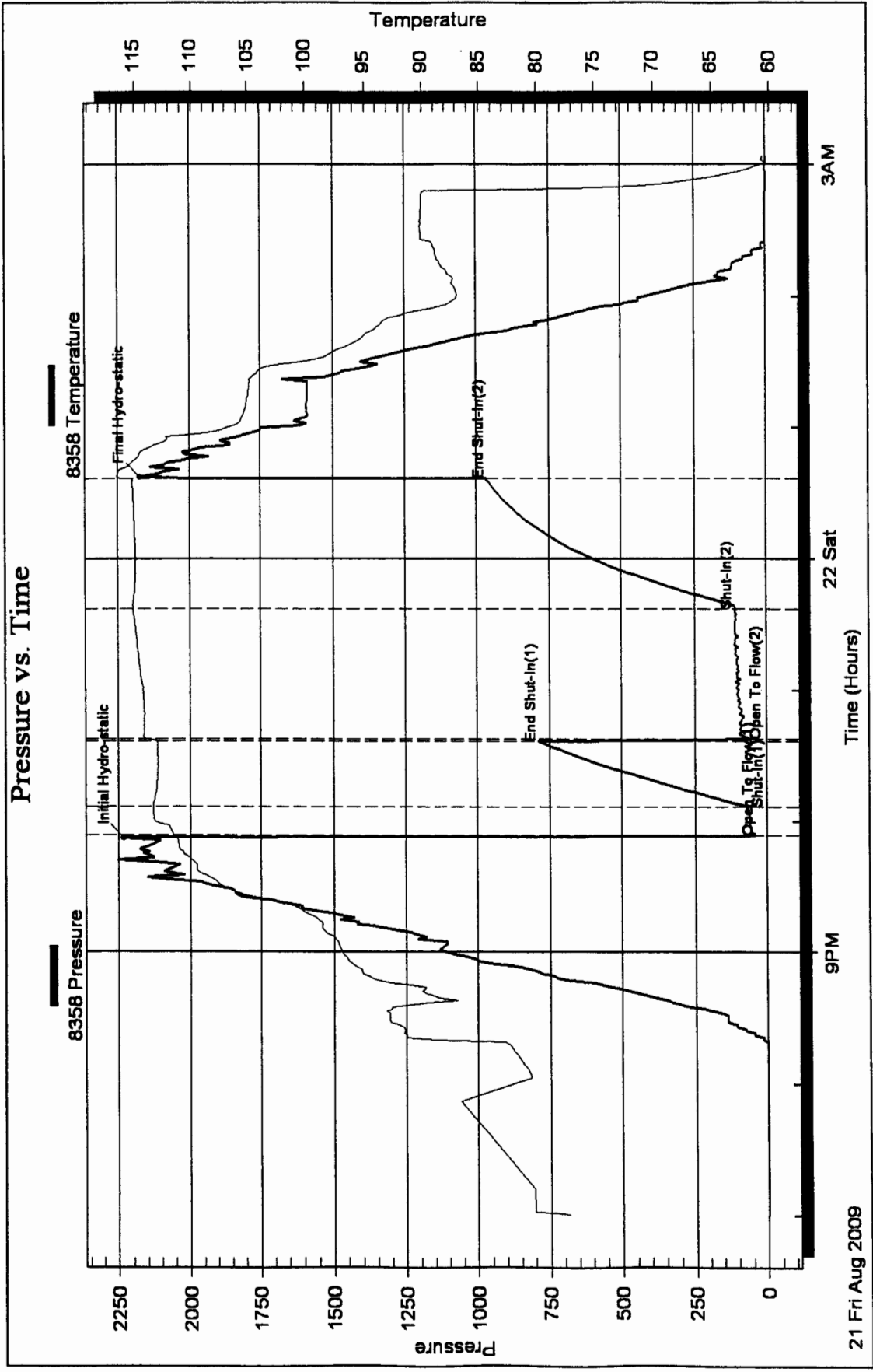
Serial #: KT#1

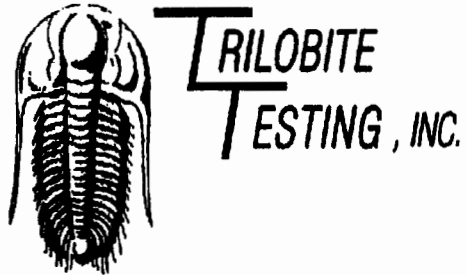
Laboratory Name: Caraway

Laboratory Location: Hugoton, KS

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt INC.**

915 Harrison
P.O. Box 47
Gread Bend KS 67530

ATTN: Brad Rine

32 22s 18w Pawnee KS

S-F Unit #1

Start Date: 2009.08.22 @ 09:16:13

End Date: 2009.08.22 @ 17:50:28

Job Ticket #: 35108 DST #: 2

Trilobite Testing, Inc

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



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DRILL STEM TEST REPORT

Carmen Schmitt INC.

S-F Unit #1

915 Harrison
P.O. Box 47
Gread Bend KS 67530
ATTN: Brad Rine

32 22s 18w Pawnee KS

Job Ticket: 35108

DST#: 2

Test Start: 2009.08.22 @ 09:16:13

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:33:13

Time Test Ended: 17:50:28

Test Type: **Conventional Bottom Hole**

Tester: **Kevin Taylor**

Unit No: **31**

Interval: **4341.00 ft (KB) To 4355.00 ft (KB) (TVD)**

Reference Elevations: **2109.00 ft (KB)**

Total Depth: **4340.00 ft (KB) (TVD)**

2104.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: **8358**

Inside

Press@RunDepth: **139.66 psig @ 4342.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2009.08.22**

End Date:

2009.08.22

Last Calib.: **2009.08.22**

Start Time: **09:16:18**

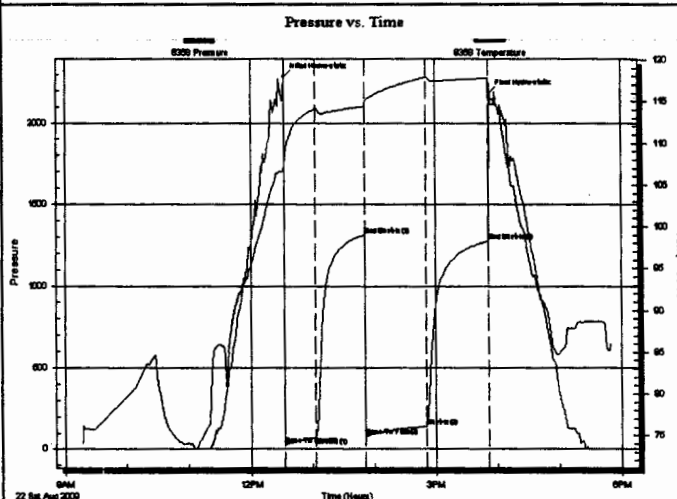
End Time:

17:50:28

Time On Btm: **2009.08.22 @ 12:32:58**

Time Off Btm: **2009.08.22 @ 15:52:58**

TEST COMMENT: I.F. Fair Blow Built To 9" In 20 Min Never Died Off
I.S.I. Bled Off 5 Min No Blow
F.F. Fair Blow Built To 8 1/2" In 60 min
D.S.I. Bled off 5 Min No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.70	107.22	Initial Hydro-static
1	25.80	107.20	Open To Flow (1)
30	72.47	114.18	Shut-In(1)
78	1312.91	114.41	End Shut-In(1)
79	79.76	114.90	Open To Flow (2)
139	139.66	117.96	Shut-In(2)
199	1275.81	117.84	End Shut-In(2)
200	2179.15	116.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GSY MDY WTR TR G 90%W 10%M	0.45
61.00	GSY MDY WTR TR G 95%W 5%M	0.45
61.00	GSY MDY WTR TR G 92%W 8%M	0.45
61.00	GSY MDY OIL WTR 2%G 2%O 35%W	10.45
30.00	GSY OIL MDY WTR 2%G 23%O 25%W	50.434
0.00	186 GIP	0.00

Gas Rates

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

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S-F Unit #1

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32 22s 18w Pawnee KS

Job Ticket: 35108

DST#: 2

Test Start: 2009.08.22 @ 09:16:13

Tool Information

Drill Pipe:	Length: 4077.00 ft	Diameter: 3.88 inches	Volume: 59.62 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: 30000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.75 inches	Volume: 1.80 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	61.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4341.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4318.00	
Hydraulic tool	5.00			4323.00	
Jars	5.00			4328.00	
Safety Joint	3.00			4331.00	
Packer	5.00			4336.00	28.00 Bottom Of Top Packer
Packer	5.00			4341.00	
Stubb	1.00			4342.00	
Recorder	0.00	8358	Inside	4342.00	
Recorder	0.00	6668	Inside	4342.00	
Perforations	10.00			4352.00	
Bullnose	3.00			4355.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



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Job Ticket: 35108

DST#: 2

Test Start: 2009.08.22 @ 09:16:13

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 13.75 in³

Resistivity: ohm.m

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

146000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GSY MDY WTR TR G 90%W 10%M	0.448
61.00	GSY MDY WTR TR G 95%W 5%M	0.448
61.00	GSYMDY WTR TRG 92%W 8%M	0.448
61.00	GSY MDY OIL WTR 2%G 2%O 35%W 61%M	0.448
30.00	GSY OIL MDY WTR 2%G 23%O 25%W 50%M	0.431
0.00	186 GIP	0.000

Total Length: 274.00 ft

Total Volume: 2.223 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .05 @ 84F = 146000 ppm chlorides

Pressure vs. Time

