



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co**

140 W Wichita Ave
Russell KS 67665-2746

ATTN: Frank Schulte

32-15-10Ellsworth,KS

Vacek #32-1

Start Date: 2010.11.22 @ 22:32:39

End Date: 2010.11.23 @ 04:40:33

Job Ticket #: 41041 DST #: 1

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

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Printed: 2010.12.01 @ 19:29:28 Page 1

Bennett & Schulte Oil Co

Vacek #32-1

32-15-10Ellsworth,KS

DST # 1

Arbuckle

2010.11.22



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DRILL STEM TEST REPORT

Bennett & Schulte Oil Co

140 W Wichita Ave
Russell KS 67665-2746

ATTN: Frank Schulte

Vacek #32-1

32-15-10 Ellsworth, KS

Job Ticket: 41041

DST#: 1

Test Start: 2010.11.22 @ 22:32:39

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 23:57:04
Time Test Ended: 04:40:33

Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **42**

Interval: **3175.00 ft (KB) To 3237.00 ft (KB) (TVD)**
Total Depth: **3237.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1765.00 ft (KB)**
1760.00 ft (CF)
KB to GR/CF: **5.00 ft**

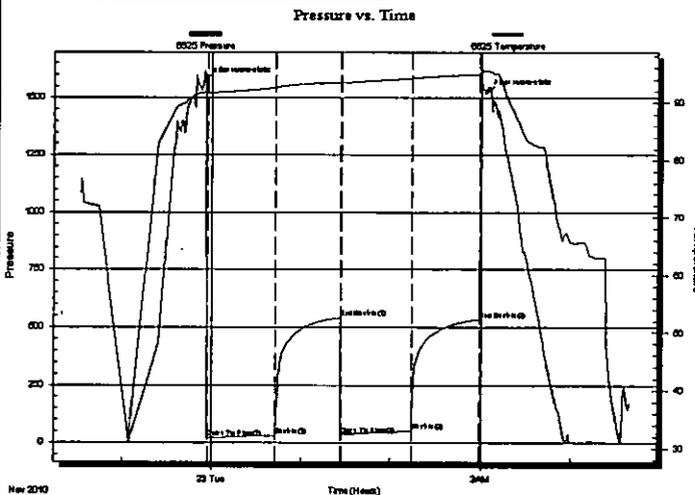
Serial #: **6625**

Inside

Press@RunDepth: **50.79 psig @ 3181.00 ft (KB)**
Start Date: **2010.11.22** End Date: **2010.11.23**
Start Time: **22:32:39** End Time: **04:40:33**

Capacity: **8000.00 psig**
Last Calib.: **2010.11.23**
Time On Btm: **2010.11.22 @ 23:54:34**
Time Off Btm: **2010.11.23 @ 03:03:03**

TEST COMMENT: IFF-w k bl 1/4" to 1 3/4" bl
ISIP-no bl bk
FFP-w k bl surface to 1/4" bl
FSIP-no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.17	91.86	Initial Hydro-static
3	19.54	91.78	Open To Flow (1)
48	31.14	92.64	Shut-In(1)
92	541.80	93.64	End Shut-In(1)
92	35.33	93.56	Open To Flow (2)
139	50.79	94.29	Shut-In(2)
184	535.23	94.96	End Shut-In(2)
189	1518.91	95.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	30' GIP	0.00
40.00	CO	0.56
50.00	HOCM 25% O75%M	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bennett & Schulte Oil Co
140 W Wichita Ave
Russell KS 67665-2746
ATTN: Frank Schulte

Vacek #32-1
32-15-10Ellsworth, KS
Job Ticket: 41041 DST#: 1
Test Start: 2010.11.22 @ 22:32:39

Tool Information

Drill Pipe:	Length: 3162.00 ft	Diameter: 3.80 inches	Volume: 44.35 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3175.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	83.00 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			3155.00	
Shut In Tool	5.00			3160.00	
Hydraulic tool	5.00			3165.00	
Packer	5.00			3170.00	21.00 Bottom Of Top Packer
Packer	5.00			3175.00	
Stubb	1.00			3176.00	
Perforations	5.00			3181.00	
Recorder	0.00	6625	Inside	3181.00	
Recorder	0.00	8652	Outside	3181.00	
Blank Spacing	33.00			3214.00	
Perforations	20.00			3234.00	
Bullnose	3.00			3237.00	62.00 Bottom Packers & Anchor

Total Tool Length: 83.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Bennett & Schulte Oil Co

Vacek #32-1

140 W Wichita Ave
Russell KS 67665-2746

32-15-10 Ellsworth, KS

Job Ticket: 41041

DST#: 1

ATTN: Frank Schulte

Test Start: 2010.11.22 @ 22:32:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.52 in³

Resistivity: ohm.m

Salinity: 4000.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	30'GIP	0.000
40.00	CO	0.561
50.00	HOCM 25%O75%M	0.701

Total Length: 90.00 ft

Total Volume: 1.262 bbl

Num Fluid Samples: 0

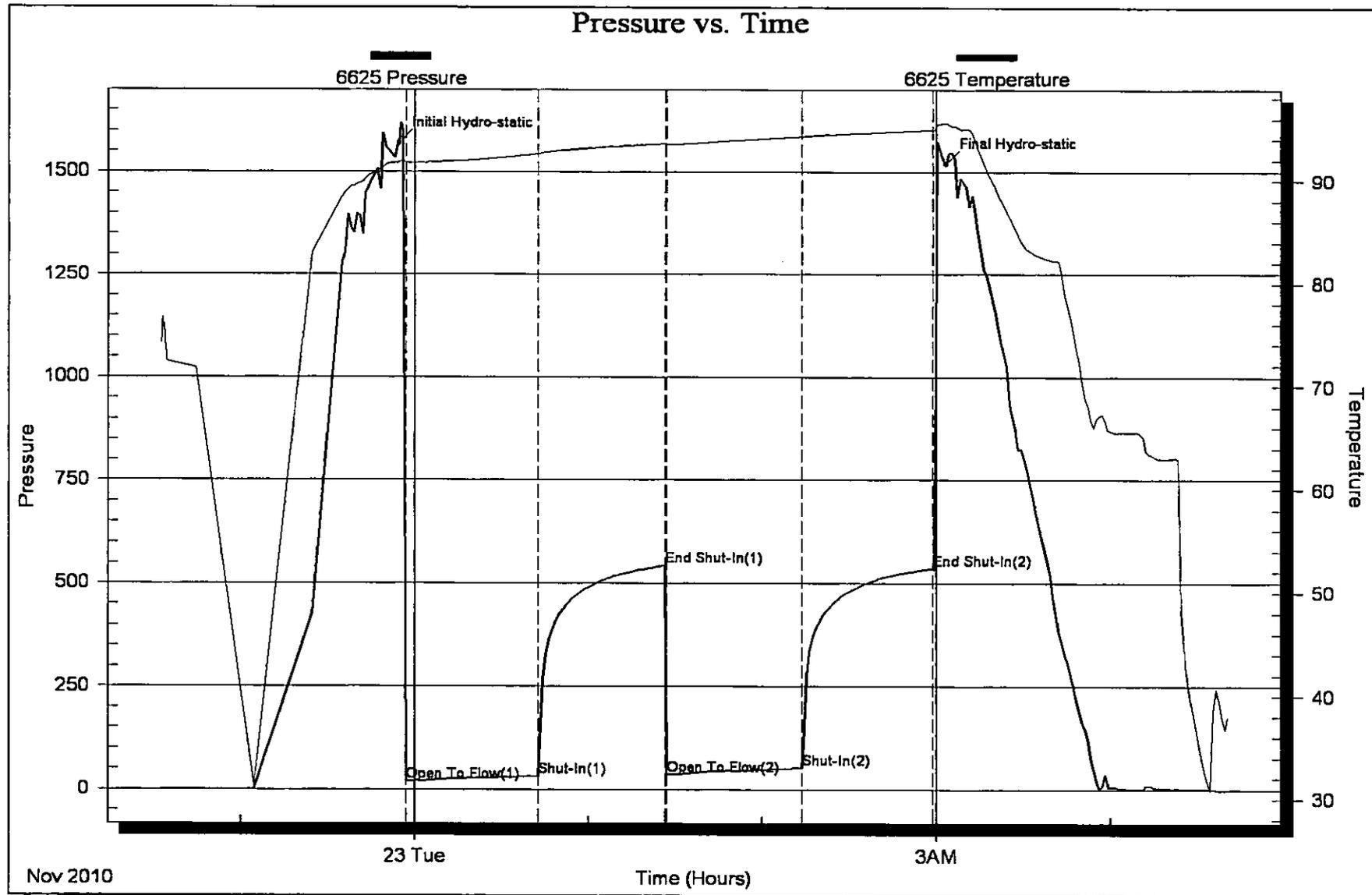
Num Gas Bombs: 0

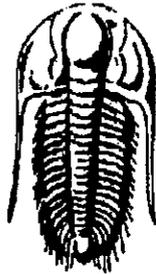
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co**

140 W Wichita Ave
Russell KS 67665-2746

ATTN: Frank Schulte

32-15-10Ellsworth,KS

Vacek #32-1

Start Date: 2010.11.23 @ 09:20:00

End Date: 2010.11.23 @ 14:50:24

Job Ticket #: 41042 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Bennett & Schulte Oil Co

Vacek #32-1

32-15-10Ellsworth,KS

DST # 2

Arbuckle

2010.11.23



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DRILL STEM TEST REPORT

Bennett & Schulte Oil Co

140 W Wichita Ave
Russell KS 67665-2746

ATTN: Frank Schulte

Vacek #32-1

32-15-10 Ellsworth, KS

Job Ticket: 41042

DST#: 2

Test Start: 2010.11.23 @ 09:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 11:10:25

Time Test Ended: 14:50:24

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3175.00 ft (KB) To 3241.00 ft (KB) (TVD)**

Total Depth: **3241.00 ft (KB) (TVD)**

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

Reference Elevations: **1765.00 ft (KB)**

1760.00 ft (CF)

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

Serial #: 6625

Inside

Press@RunDepth: **115.37 psig @ 3181.00 ft (KB)**

Start Date: **2010.11.23**

End Date:

2010.11.23

Start Time: **09:20:00**

End Time:

14:50:24

Capacity: **8000.00 psig**

Last Calib.: **2010.11.23**

Time On Btm: **2010.11.23 @ 11:07:25**

Time Off Btm: **2010.11.23 @ 13:14:55**

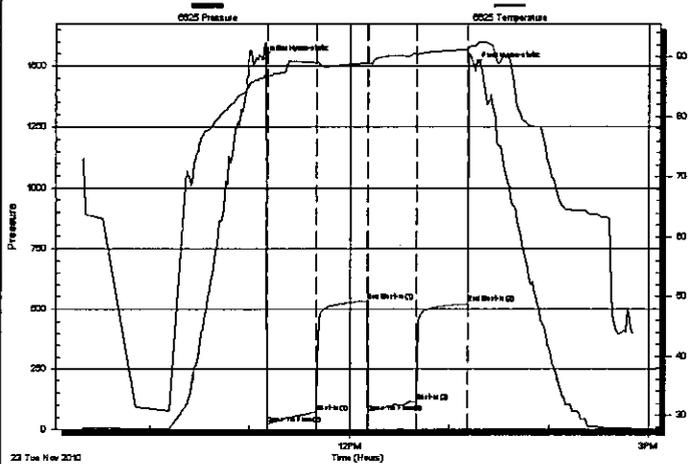
TEST COMMENT: IFF-w k to strg in 29 min

ISIP-1/8"bl bk

FFP-w k to a gd bl 1/2"to 6 1/2"bl

FSIP-surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1529.58	86.37	Initial Hydro-static
3	21.50	86.83	Open To Flow (1)
33	70.20	88.92	Shut-In(1)
63	533.84	88.91	End Shut-In(1)
64	72.21	88.85	Open To Flow (2)
93	115.37	90.38	Shut-In(2)
124	522.94	91.15	End Shut-In(2)
128	1500.15	91.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60'GIP	0.00
20.00	CO	0.28
82.00	MGO 5%G55%O40%M	1.15
124.00	MGO 20%G50%O30%M	1.74

Gas Rates

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



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TOOL DIAGRAM

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Russell KS 67665-2746
ATTN: Frank Schulte

Vacek #32-1
32-15-10Ellsworth,KS
Job Ticket: 41042 DST#: 2
Test Start: 2010.11.23 @ 09:20:00

Tool Information

Drill Pipe:	Length: 3162.00 ft	Diameter: 3.80 inches	Volume: 44.35 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3175.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	87.00 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			3155.00	
Shut In Tool	5.00			3160.00	
Hydraulic tool	5.00			3165.00	
Packer	5.00			3170.00	21.00 Bottom Of Top Packer
Packer	5.00			3175.00	
Stubb	1.00			3176.00	
Perforations	5.00			3181.00	
Recorder	0.00	6625	Inside	3181.00	
Recorder	0.00	8652	Outside	3181.00	
Blank Spacing	33.00			3214.00	
Perforations	24.00			3238.00	
Bullnose	3.00			3241.00	66.00 Bottom Packers & Anchor

Total Tool Length: 87.00



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32-15-10 Ellsworth, KS

Job Ticket: 41042

DST#: 2

ATTN: Frank Schulte

Test Start: 2010.11.23 @ 09:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	60'GIP	0.000
20.00	CO	0.281
82.00	MGO 5%G55%O40%M	1.150
124.00	MGO 20%G50%O30%M	1.739

Total Length: 226.00 ft

Total Volume: 3.170 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

