



## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production Inc**

PO Box 723  
Alma, Ne 68920

ATTN: Bob Peterson

**9-4-20 Phillips,KS**

**Archer #1**

Start Date: 2011.04.22 @ 15:45:36

End Date: 2011.04.22 @ 21:24:35

Job Ticket #: 42551                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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TESTING, INC**

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**Archer #1**

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Test Start: 2011.04.22 @ 15:45:36

## GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:13:05

Time Test Ended: 21:24:35

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3305.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Reference Elevations: 2070.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

2065.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8372 Inside**

Press @ Run Depth: 187.41 psig @ 3310.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.22 End Date: 2011.04.22

Last Calib.: 2011.04.22

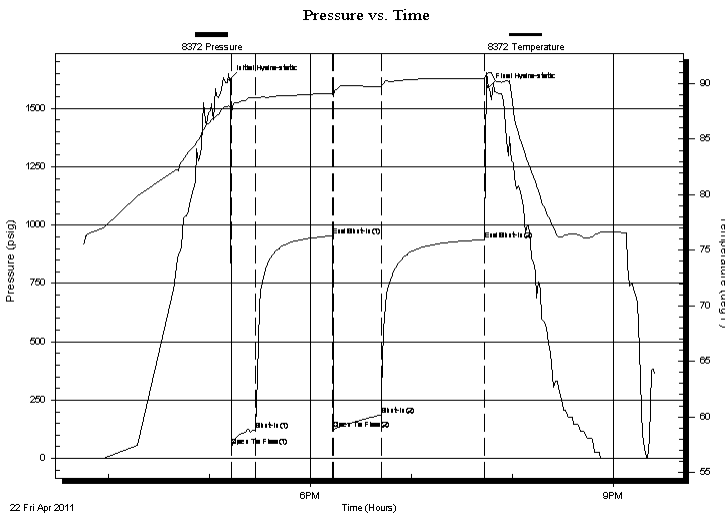
Start Time: 15:45:36 End Time: 21:24:35

Time On Btm: 2011.04.22 @ 17:12:05

Time Off Btm: 2011.04.22 @ 19:45:35

**TEST COMMENT:** IFP - BOB 6 min  
ISI - sur blow back - died 12 min  
FFP - BOB 8 min  
FSI - 1" blow back - died 42 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.20	87.97	Initial Hydro-static
1	52.29	87.29	Open To Flow (1)
16	121.35	88.71	Shut-In(1)
61	953.36	89.15	End Shut-In(1)
62	126.17	88.84	Open To Flow (2)
90	187.41	89.75	Shut-In(2)
152	937.88	90.45	End Shut-In(2)
154	1589.82	90.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	GW & MCO 5%G, 40%O, 25%W, 30%M	0.46
90.00	M & WCO 60%O, 30%W, 10%M	1.26
120.00	GM & WCO 5%G, 85%O, 5%W, 5%M	1.68
60.00	OCM 20%O, 80%M	0.84
0.00	150' GIP	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

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## Tool Information

Drill Pipe:	Length: 3202.00 ft	Diameter: 3.80 inches	Volume: 44.92 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: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3305.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 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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Shut In Tool	5.00			3283.00	
Hydraulic tool	5.00			3288.00	
Jars	5.00			3293.00	
Safety Joint	2.00			3295.00	
Packer	5.00			3300.00	27.00 Bottom Of Top Packer
Packer	5.00			3305.00	
Stubb	1.00			3306.00	
Perforations	3.00			3309.00	
Change Over Sub	1.00			3310.00	
Recorder	0.00	8372	Inside	3310.00	
Recorder	0.00	8734	Outside	3310.00	
Blank Spacing	31.00			3341.00	
Change Over Sub	1.00			3342.00	
Perforations	5.00			3347.00	
Bullnose	3.00			3350.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



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## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	GW & MCO 5%G, 40%O, 25%W, 30%M	0.461
90.00	M & WCO 60%O, 30%W, 10%M	1.262
120.00	GM & WCO 5%G, 85%O, 5%W, 5%M	1.683
60.00	OCM 20%O, 80%M	0.842
0.00	150' GIP	0.000

Total Length: 360.00 ft      Total Volume: 4.248 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

