



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

P.O. Box 723 Alma, NE 68920

ATTN: Bob Peterson

2/2/19w/Phillips/KS

Kats #1

Start Date: 2011.06.01 @ 10:35:00

End Date: 2011.06.01 @ 17:23:15

Job Ticket #: 041117 DST #: 1

Trilobite Testing, Inc

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TESTING, INC**

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Bach Oil Production
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ATTN: Bob Peterson

Kats #1
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Job Ticket: 041117 **DST#: 1**
Test Start: 2011.06.01 @ 10:35:00

GENERAL INFORMATION:

Formation: **LKC "C,D,E,F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:41:30
Time Test Ended: 17:23:15
Interval: **3445.00 ft (KB) To 3525.00 ft (KB) (TVD)**
Total Depth: 3525.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2235.00 ft (KB)
2230.00 ft (CF)
KB to GR/CF: 5.00 ft

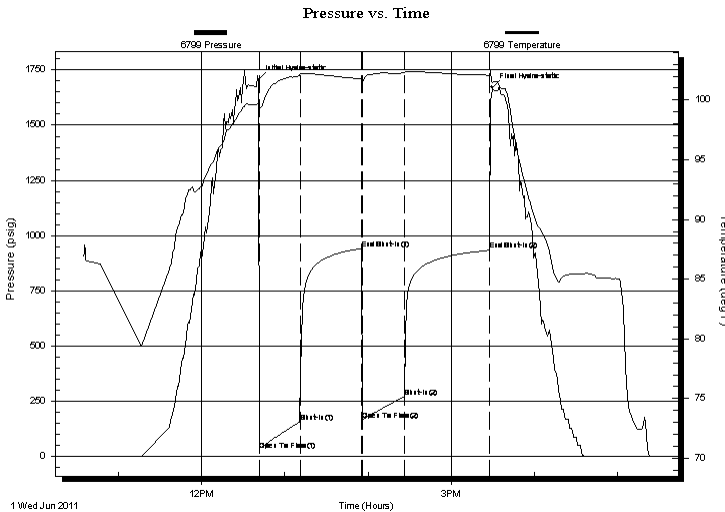
Serial #: 6799

Inside

Press @ Run Depth: 269.61 psig @ 3446.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.01 End Date: 2011.06.01 Last Calib.: 2011.06.01
Start Time: 10:35:05 End Time: 17:23:14 Time On Btm: 2011.06.01 @ 12:41:15
Time Off Btm: 2011.06.01 @ 15:29:30

TEST COMMENT: IF: B.o.B. in 9 minutes.
IS: Weak Surface return (2 or 3 bubbles) started at 5 minutes then died
FF: B.o.B. in 10 minutes
FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.60	99.68	Initial Hydro-static
1	29.05	99.02	Open To Flow (1)
30	156.60	102.06	Shut-In(1)
74	942.10	101.79	End Shut-In(1)
75	165.00	101.47	Open To Flow (2)
105	269.61	102.26	Shut-In(2)
167	934.56	102.06	End Shut-In(2)
169	1670.97	101.49	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
20.00	Mud (Heavy) 100M	0.10
414.00	MW 20M 80W	5.73
126.00	MW 40M 60W	1.77
	Show of free oil at first wet connection	

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



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TOOL DIAGRAM

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Test Start: 2011.06.01 @ 10:35:00

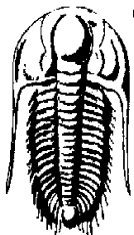
Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.75 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3445.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	109.00 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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Change Over Sub	1.00			3417.00	
Shut In Tool	5.00			3422.00	
Hydraulic tool	5.00			3427.00	
Jars	5.00			3432.00	
Safety Joint	3.00			3435.00	
Packer	5.00			3440.00	29.00 Bottom Of Top Packer
Packer	5.00			3445.00	
Stubb	1.00			3446.00	
Recorder	0.00	8648	Inside	3446.00	
Recorder	0.00	6799	Inside	3446.00	
Perforations	6.00			3452.00	
Change Over Sub	1.00			3453.00	
Drill Pipe	63.00			3516.00	
Change Over Sub	1.00			3517.00	
Perforations	3.00			3520.00	
Bullnose	5.00			3525.00	80.00 Bottom Packers & Anchor
Total Tool Length:	109.00				



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FLUID SUMMARY

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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:

35000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Mud (Heavy) 100M	0.098
414.00	MW 20M 80W	5.734
126.00	MW 40M 60W	1.767
	Show of free oil at first wet connection	

Total Length: 560.00 ft

Total Volume: 7.599 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .19 @ 76 deg=35000 ppm

