



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N Bramblewood
 Wichita Ks. 67206+1094
 ATTN: Bryan Bynog

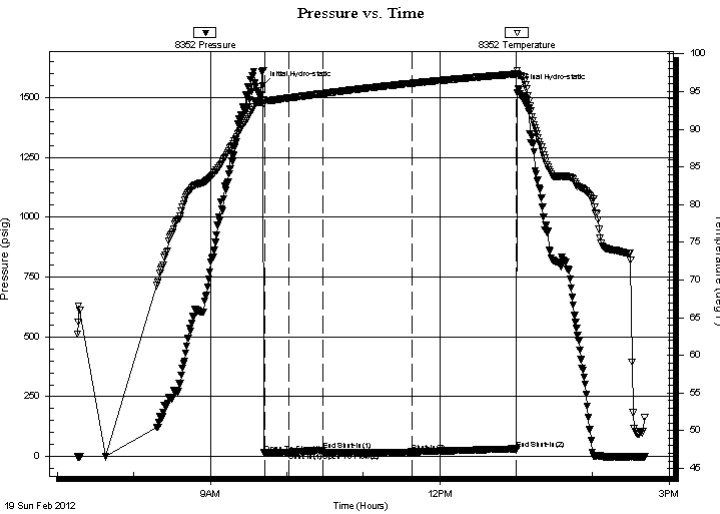
30-14s-14w Russell
Hummel #5
 Job Ticket: 45694 **DST#: 4**
 Test Start: 2012.02.19 @ 07:16:05

GENERAL INFORMATION:

Formation: **LKC"K+Arbuckle"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:42:30
 Time Test Ended: 14:40:39
 Interval: **3170.00 ft (KB) To 3195.00 ft (KB) (TVD)**
 Total Depth: 3195.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1790.00 ft (KB)
 1779.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352 Outside
 Press @ Run Depth: 18.99 psig @ 3171.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.19 End Date: 2012.02.19 Last Calib.: 2012.02.19
 Start Time: 07:16:05 End Time: 14:40:40 Time On Btm: 2012.02.19 @ 09:41:20
 Time Off Btm: 2012.02.19 @ 13:01:29

TEST COMMENT: IF:(15min) Weak Surface Blow
 IS:(30min) No Return
 FF:(60min) No Blow
 FS:(90min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1549.88	93.86	Initial Hydro-static
2	14.94	93.76	Open To Flow (1)
21	17.72	94.13	Shut-In(1)
47	26.02	94.73	End Shut-In(1)
48	16.47	94.73	Open To Flow (2)
117	18.99	96.09	Shut-In(2)
199	31.01	97.32	End Shut-In(2)
201	1536.05	97.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	OSM	0.00

* Recovery from multiple tests

Gas Rates

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



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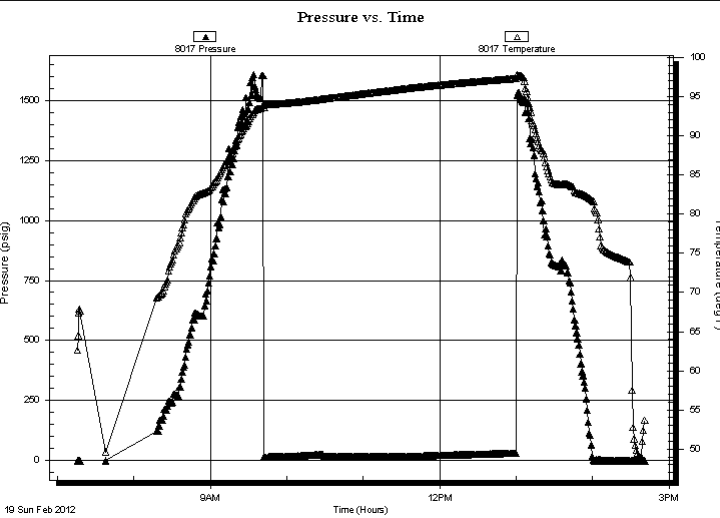
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Total Depth: 3195.00 ft (KB) (TVD)		1779.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Poor	KB to GR/CF: 11.00 ft	

Serial #: 8017	Inside				
Press @RunDepth:	psig @	3171.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.02.19	End Date:	2012.02.19	Last Calib.:	2012.02.19
Start Time:	07:16:05	End Time:	14:40:39	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF:(15min) Weak Surface Blow
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PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
1.00	OSM	0.00

* Recovery from multiple tests

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC.

30-14s-14w Russell

2020 N Bramblewood
Wichita Ks. 67206+1094

Hummel #5

Job Ticket: 45694

DST#: 4

ATTN: Bryan Bynog

Test Start: 2012.02.19 @ 07:16:05

Tool Information

Drill Pipe:	Length: 2610.00 ft	Diameter: 3.80 inches	Volume: 36.61 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 535.92 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 39.25 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.92 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3170.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	53.00 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			3143.00	
Shut In Tool	5.00			3148.00	
Hydraulic tool	5.00			3153.00	
Jars	5.00			3158.00	
Safety Joint	3.00			3161.00	
Packer	5.00			3166.00	28.00 Bottom Of Top Packer
Packer	4.00			3170.00	
Stubb	1.00			3171.00	
Recorder	0.00	8017	Inside	3171.00	
Recorder	0.00	8352	Outside	3171.00	
Perforations	21.00			3192.00	
Bullnose	3.00			3195.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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FLUID SUMMARY

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Hummel #5

Job Ticket: 45694

DST#: 4

ATTN: Bryan Bynog

Test Start: 2012.02.19 @ 07:16:05

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OSM	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

