



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary JR & Associates Inc**

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Clayton Camozzi

Chrisler et al 1-21

21 12s 16w Ellis

Start Date: 2012.04.07 @ 18:00:00

End Date: 2012.04.08 @ 02:32:30

Job Ticket #: 47315 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary JR & Associates Inc

21 12s 16w Ellis

1515 Wynkoop Ste 700
Denver CO 80202

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ATTN: Clayton Camozzi

Job Ticket: 47315

DST#: 1

Test Start: 2012.04.07 @ 18:00:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: 1996.00 ft (KB)

Time Tool Opened: 19:56:00

Time Test Ended: 02:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

Interval: 3182.00 ft (KB) To 3238.00 ft (KB) (TVD)

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3238.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8366

Press @ Run Depth: 84.26 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.07 End Date: 2012.04.08

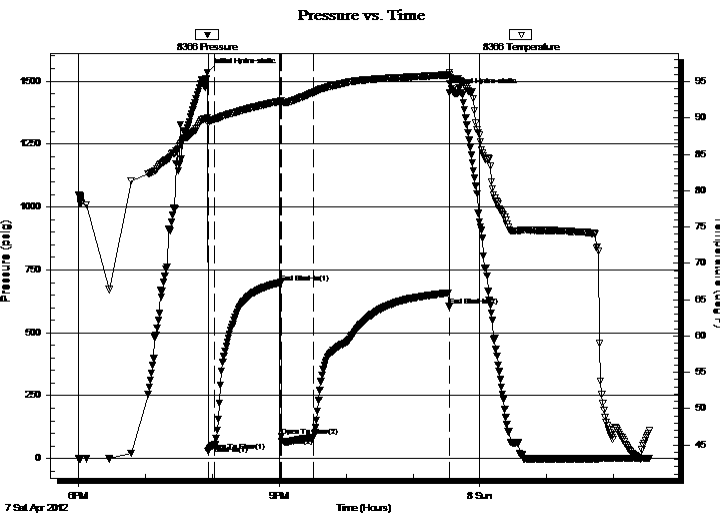
Last Calib.: 2012.04.08

Start Time: 18:00:02 End Time: 02:32:30

Time On Btm: 2012.04.07 @ 19:55:45

Time Off Btm: 2012.04.07 @ 23:32:30

TEST COMMENT: 5-IFP- 5in Blow in 5min
60-ISIP- Surface Blow in 5min Died in 10min
30-FFP- BOB in 6 1/2min
120-FSIP- Surface Blow in 30sec Building to 3 1/2in in 30min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1534.36	90.09	Initial Hydro-static
1	28.68	89.18	Open To Flow (1)
7	53.33	89.82	Shut-In(1)
66	699.69	92.35	End Shut-In(1)
66	89.31	92.11	Open To Flow (2)
95	84.26	93.51	Shut-In(2)
217	604.95	95.92	End Shut-In(2)
217	1453.90	96.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 5%g 35%o 60%m	0.10
62.00	GOCM 20%g 20%o 60%m	0.79
60.00	SLOGWCM 5%o 10%g 35%w 50%m	0.84
0.00	414 GIP	0.00

Gas Rates

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



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Total Depth: 3238.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789

Press @ Run Depth: _____ psig @ _____ ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.07 End Date: 2012.04.08

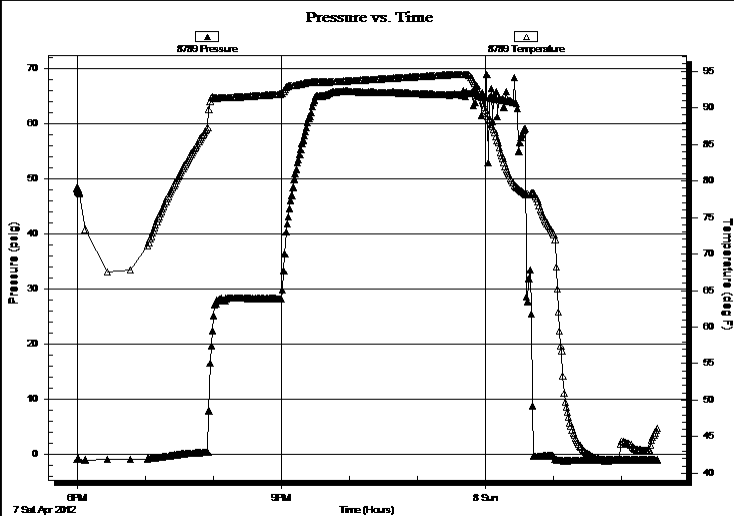
Last Calib.: 2012.04.08

Start Time: 18:00:02 End Time: 02:32:00

Time On Btm:

Time Off Btm:

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Tester: Jim Svaty

Unit No: 54

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Total Depth: 3238.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1996.00 ft (KB)

1988.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8289

Press @ Run Depth: psig @ ft (KB)

Start Date: 2012.04.07

End Date:

2012.04.08

Capacity: 8000.00 psig

Last Calib.:

2012.04.08

Start Time: 18:00:02

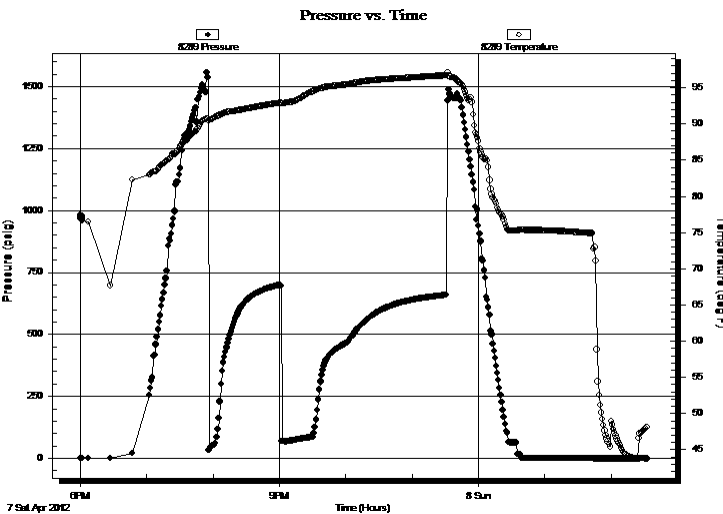
End Time:

02:32:15

Time On Btm:

Time Off Btm:

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30-FFP- BOB in 6 1/2min
120-FSIP- Surface Blow in 30sec Building to 3 1/2in in 30min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 5%g 35%o 60%m	0.10
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0.00	414 GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

Samuel Gary JR & Associates Inc

21 12s 16w Ellis

1515 Wynkoop Ste 700
Denver CO 80202

Chrisler et al 1-21

Job Ticket: 47315

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.07 @ 18:00:00

Tool Information

Drill Pipe:	Length: 3128.00 ft	Diameter: 3.80 inches	Volume: 43.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3182.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	91.00 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			3148.00	
Recorder	0.00	8789	Fluid	3148.00	
Blank Spacing	5.00			3153.00	
Shut In Tool	5.00			3158.00	
Sampler	2.00			3160.00	
Hydraulic tool	5.00			3165.00	
Jars	5.00			3170.00	
Safety Joint	2.00			3172.00	
Packer	5.00			3177.00	35.00 Bottom Of Top Packer
Packer	5.00			3182.00	
Stubb	1.00			3183.00	
Perforations	19.00			3202.00	
Recorder	0.00	8366	Inside	3202.00	
Recorder	0.00	8289	Outside	3202.00	
Change Over Sub	1.00			3203.00	
Blank Spacing	31.00			3234.00	
Change Over Sub	1.00			3235.00	
Bullnose	3.00			3238.00	56.00 Bottom Packers & Anchor

Total Tool Length: 91.00



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FLUID SUMMARY

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Test Start: 2012.04.07 @ 18:00:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	GOCM 5%g 35%o 60%m	0.098
62.00	GOCM 20%g 20%o 60%m	0.788
60.00	SLOGWCM 5%o 10%g 35%w 50%m	0.842
0.00	414 GIP	0.000

Total Length: 142.00 ft Total Volume: 1.728 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Recovery 2200ml Oil @ 150psi

