



DRILL STEM TEST REPORT

Prepared For: **Castle Res Inc**

PO Box 87
Schoenchen Ks 67667-0087

ATTN: Jerry Green

3-11-17-Ellis-Ks

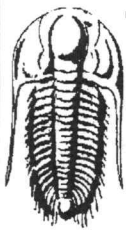
Simpson #1

Start Date: 2003.07.27 @ 10:03:17

End Date: 2003.07.27 @ 16:49:17

Job Ticket #: 17270 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castle Res Inc
PO Box 87
Schoenchen Ks 67667-0087
ATTN: Jerry Green

Simpson #1

3-11-17-Ellis-Ks

Job Ticket: 17270

DST#: 1

Test Start: 2003.07.27 @ 10:03:17

GENERAL INFORMATION:

Formation: **Cong**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:04:47

Time Test Ended: 16:49:17

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3416.00 ft (KB) To 3505.00 ft (KB) (TVD)**

Total Depth: 3505.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1942.00 ft (KB)

1937.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 152.72 psig @ 3423.00 ft (KB)

Start Date: 2003.07.27

End Date:

2003.07.27

Start Time: 10:03:18

End Time:

16:49:17

Capacity: 7000.00 psig

Last Calib.: 2003.07.27

Time On Btm: 2003.07.27 @ 12:04:17

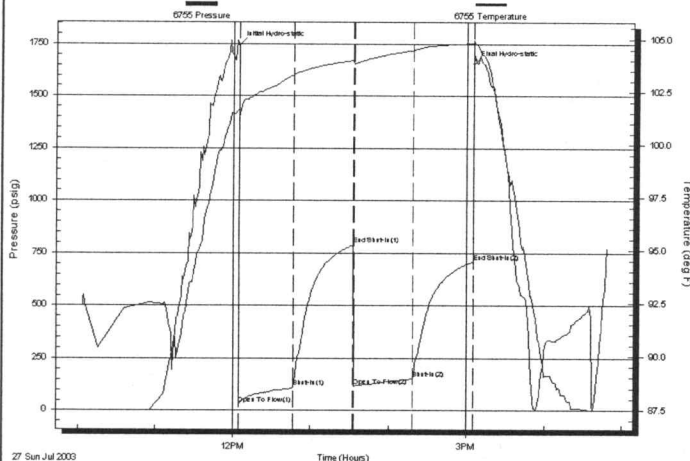
Time Off Btm: 2003.07.27 @ 15:05:17

TEST COMMENT: IF-Weak building to 6" fair blow

FF-Weak building to 1/2"

Times-45-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.72	101.65	Initial Hydro-static
1	31.56	101.28	Open To Flow (1)
43	111.22	103.30	Shut-In(1)
89	789.52	103.98	End Shut-In(1)
89	117.69	103.79	Open To Flow (2)
134	152.72	104.46	Shut-In(2)
181	708.63	104.79	End Shut-In(2)
181	1654.05	104.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	OCGsyM 20%o 5%g 75%o	0.91
145.00	CGsyO 5%g 95%o	0.71

Gas Rates

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

Castle Res Inc

Simpson #1

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3-11-17-Ellis-Ks

Job Ticket: 17270

DST#: 1

ATTN: Jerry Green

Test Start: 2003.07.27 @ 10:03:17

Tool Information

Drill Pipe:	Length:	3046.00 ft	Diameter:	3.80 inches	Volume:	42.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	379.00 ft	Diameter:	2.25 inches	Volume:	1.86 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:	50000.00 lb
					Total Volume:	44.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight: Initial	48000.00 lb
Depth to Top Packer:		3416.00 ft					Final	48000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		89.00 ft						
Tool Length:		110.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3396.00	
S.I. Tool	5.00			3401.00	
HMV	5.00			3406.00	
Packer	5.00			3411.00	21.00 Bottom Of Top Packer
Packer	5.00			3416.00	
Stubb	1.00			3417.00	
Perforations	5.00			3422.00	
C.O. Sub	1.00			3423.00	
Recorder	0.00	6755	Inside	3423.00	
Blank Spacing	63.00			3486.00	
C.O. Sub	1.00			3487.00	
Recorder	0.00	13254	Outside	3487.00	
Perforations	15.00			3502.00	
Bullnose	3.00			3505.00	89.00 Bottom Packers & Anchor

Total Tool Length: 110.00



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FLUID SUMMARY

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Job Ticket: 17270

DST#: 1

ATTN: Jerry Green

Test Start: 2003.07.27 @ 10:03:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	OCGsyM 20%o 5%g 75%m	0.915
145.00	CGsyO 5%g 95%o	0.713

Total Length: 331.00 ft

Total Volume: 1.628 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

