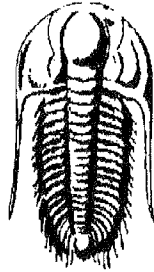


15-165-21840

7-17s-19w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castle Res Inc**

PO Box 87
Schoenchen, KS 67667

ATTN: Jerry Green

7 17 19 Rush, Ks

Bisagno # 1

Start Date: 2008.10.15 @ 09:02:02

End Date: 2008.10.15 @ 15:15:02

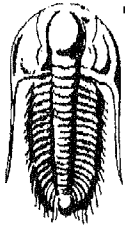
Job Ticket #: 33656 DST #: 1

KANSAS CORPORATION COMMISSION
JUL 16 2009
RECEIVED

Trilobite Testing, Inc

PO Box 1733 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
ATTN: Jerry Green

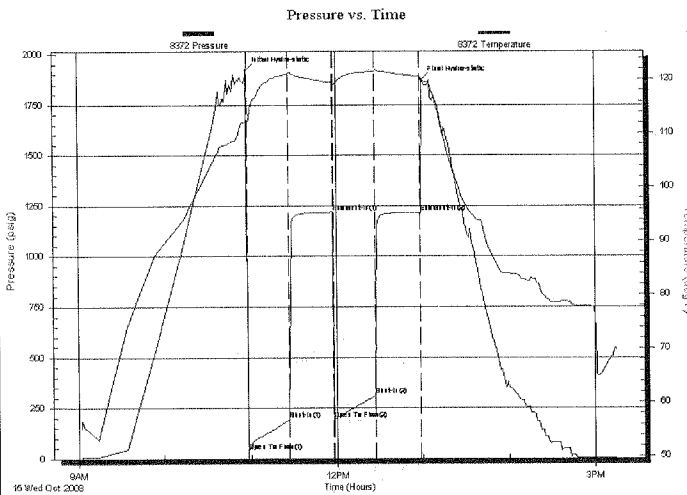
Bisagno # 1
7 17 19 Rush, Ks
Job Ticket: 33656 **DST#: 1**
Test Start: 2008.10.15 @ 09:02:02

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:58:02
Time Test Ended: 15:15:02
Test Type: Conventional Straddle
Tester: Dan Bangle
Unit No: 38
Interval: **3840.00 ft (KB) To 3867.00 ft (KB) (TVD)**
Reference Elevations: 2116.00 ft (KB)
Total Depth: 3953.00 ft (KB) (TVD) 2111.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8372 Inside
Press@RunDepth: 310.40 psig @ 3841.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.10.15 End Date: 2008.10.15 Last Calib.: 2008.10.15
Start Time: 09:02:03 End Time: 15:15:02 Time On Btm: 2008.10.15 @ 10:57:32
Time Off Btm: 2008.10.15 @ 13:00:02

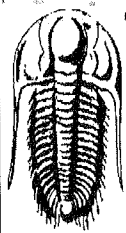
TEST COMMENT: IF-Strong B-B in 8 min
ISI-Weak steady surface blow
FF-Strong B-B in 8 min
FSI-Weak steady surface blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.86	112.36	Initial Hydro-static
1	36.73	111.83	Open To Flow (1)
29	193.32	120.97	Shut-In (1)
60	1218.16	119.39	End Shut-In (1)
60	193.64	118.66	Open To Flow (2)
90	310.40	121.46	Shut-In (2)
121	1217.86	120.49	End Shut-In (2)
123	1871.86	119.63	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
370.00	Wtr w / scum of oil t/o	4.06
135.00	WCO 80%o 20%w	1.89
180.00	CGsyO 10%g 90%o	2.52
0.00	240 GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Res Inc
 PO Box 87
 Schoenchen, KS 67667
 ATTN: Jerry Green

Bisagno # 1
7 17 19 Rush, Ks
 Job Ticket: 33656 **DST#: 1**
 Test Start: 2008.10.15 @ 09:02:02

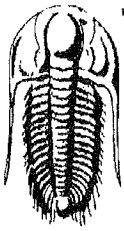
Tool Information

Drill Pipe:	Length: 3717.00 ft	Diameter: 3.80 inches	Volume: 52.14 bbl	Tool Weight: 3000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3840.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	3866.00 ft			
Interval between Packers:	26.00 ft			
Tool Length:	135.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3820.00	
Shut In Tool	5.00			3825.00	
Hydraulic tool	5.00			3830.00	
Packer	5.00			3835.00	21.00 Bottom Of Top Packer
Packer	5.00			3840.00	
Stubb	1.00			3841.00	
Recorder	0.00	8372	Inside	3841.00	
Perforations	21.00			3862.00	
Recorder	0.00	13254	Outside	3862.00	
Blank Off Sub	1.00			3863.00	
Blank Spacing	3.00			3866.00	26.00 Tool Interval
Packer	2.00			3868.00	
Stubb	1.00			3869.00	
Recorder	0.00	8368	Outside	3869.00	
Perforations	18.00			3887.00	
Change Over Sub	1.00			3888.00	
Drill Pipe	62.00			3950.00	
Change Over Sub	1.00			3951.00	
Bullnose	3.00			3954.00	88.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Res Inc
PO Box 87
Schoenchen, KS 67667
ATTN: Jerry Green

Bisagno # 1
7 17 19 Rush, Ks
Job Ticket: 33656 **DST#: 1**
Test Start: 2008.10.15 @ 09:02:02

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 26000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	Wtr w/ scum of oil t/o	4.061
135.00	WCO 80%o 20%w	1.894
180.00	CGsyO 10%g 90%o	2.525
0.00	240 GIP	0.000

Total Length: 685.00 ft Total Volume: 8.480 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Rw .24 @ 80 = 26000ppm

