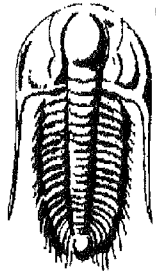


15-163-23749

31-10s-16w

KGS ✓



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond**

PO Box 641
Hays, Ks
67601

ATTN: Tony Richardson

31 10s 16w Rooks KS

George #5

Start Date: 2008.07.29 @ 18:50:31

End Date: 2008.07.30 @ 01:35:25

Job Ticket #: 32850 DST #: 1

KANSAS CORPORATION COMMISSION

APR 13 2009

RECEIVED

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Black Diamond

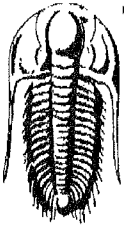
George #5

31 10s 16w Rooks KS

DST # 1

Conglomerate

2008.07.29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond
 PO Box 641
 Hays, Ks
 67601
 ATTN: Tony Richardson

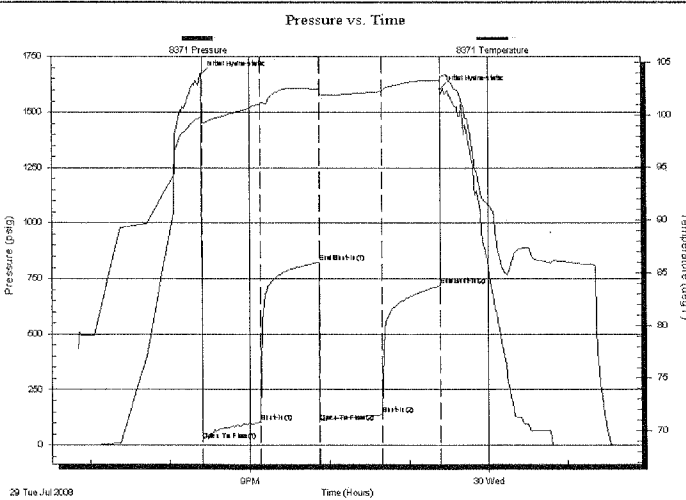
George #5
31 10s 16w Rooks KS
 Job Ticket: 32850 **DST#: 1**
 Test Start: 2008.07.29 @ 18:50:31

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 20:23:56 Tester: Brian Fairbank
 Time Test Ended: 01:35:25 Unit No: 41
 Interval: **3369.00 ft (KB) To 3450.00 ft (KB) (TVD)** Reference Elevations: 1914.00 ft (KB)
 Total Depth: 3450.00 ft (KB) (TVD) 1910.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 4.00 ft

Serial #: 8371 Outside
 Press@RunDepth: 140.36 psig @ 3374.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.07.29 End Date: 2008.07.30 Last Calib.: 2008.07.30
 Start Time: 18:50:31 End Time: 01:35:25 Time On Btm: 2008.07.29 @ 20:23:26
 Time Off Btm:

TEST COMMENT: IFP weak to good blow 1" - 8"
 ISI no blow back
 FFP no blow 3 min 5"
 FSI no blow back TIME - 45-45-45-45



PRESSURE SUMMARY

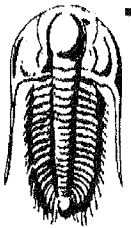
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.78	99.85	Initial Hydro-static
1	22.47	99.24	Open To Flow (1)
45	104.66	101.01	Shut-In(1)
89	825.16	102.45	End Shut-In(1)
89	107.03	101.89	Open To Flow (2)
136	140.36	102.24	Shut-In(2)
180	718.40	103.29	End Shut-In(2)
181	1604.27	103.74	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	HOCM 40%O, 60%M	1.95
45.00	FREE OIL 10%M, 90%O	0.63

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond

George #5

PO Box 641
Hays, Ks
67601

31 10s 16w Rooks KS

Job Ticket: 32850

DST#: 1

ATTN: Tony Richardson

Test Start: 2008.07.29 @ 18:50:31

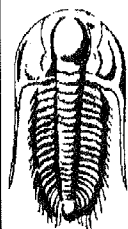
Tool Information

Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 45.97 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3369.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3354.00	
Hydraulic tool	5.00			3359.00	
Packer	5.00			3364.00	20.00 Bottom Of Top Packer
Packer	5.00			3369.00	
Stubb	1.00			3370.00	
Perforations	3.00			3373.00	
Change Over Sub	1.00			3374.00	
Recorder	0.00	8018	Inside	3374.00	
Recorder	0.00	8371	Outside	3374.00	
Blank Spacing	62.00			3436.00	
Change Over Sub	1.00			3437.00	
Perforations	10.00			3447.00	
Bullnose	3.00			3450.00	81.00 Bottom Packers & Anchor

Total Tool Length: 101.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond

George #5

PO Box 641
Hays, Ks
67601

31 10s 16w Rooks KS

Job Ticket: 32850

DST#: 1

ATTN: Tony Richardson

Test Start: 2008.07.29 @ 18:50:31

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	9 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	HOCM 40%O, 60%M	1.947
45.00	FREE OIL 10%M, 90%O	0.631

Total Length: 265.00 ft Total Volume: 2.578 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

