



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Diamond

30 7n 19 Rooks Ks

P.O. Box 641
Hays Ks. 67601

Pettijohn 1

Job Ticket: 42050

DST#: 1

ATTN: Jeff Lawler

Test Start: 2012.03.01 @ 07:30:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:09:30

Time Test Ended: 12:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: 3086.00 ft (KB) To 3121.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3121.00 ft (KB) (TVD)

1987.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6741 Outside

Press @ Run Depth: 42.75 psig @ 3088.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.01

End Date:

2012.03.01

Last Calib.:

2012.03.01

Start Time: 07:30:05

End Time:

12:46:29

Time On Btm:

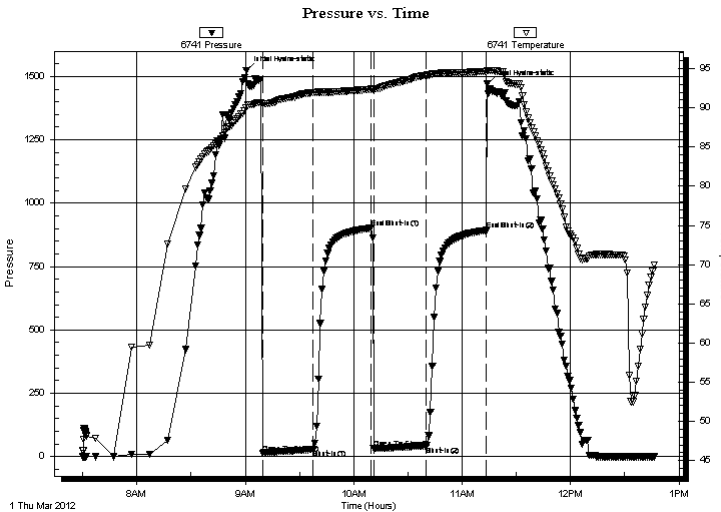
2012.03.01 @ 09:00:30

Time Off Btm:

2012.03.01 @ 11:14:00

TEST COMMENT: IF: Weak blow, Built to 3/4 in. over 30mins.
IS: No blow back over 30 mins.
FF: Weak blow, Surface, Died in 2 mins.
FS: Non blow back over 30 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1524.05	90.04	Initial Hydro-static
9	14.90	90.51	Open To Flow (1)
37	28.65	91.95	Shut-In(1)
69	901.99	92.38	End Shut-In(1)
71	32.63	92.25	Open To Flow (2)
100	42.75	94.16	Shut-In(2)
133	893.12	94.63	End Shut-In(2)
134	1469.65	94.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm-30%o70%m	0.30
2.00	oil-100%	0.01

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2012.03.01 @ 07:30:00

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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	ocm-30%o70%m	0.295
2.00	oil-100%	0.010

Total Length: 62.00 ft Total Volume: 0.305 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

Outside Black Diamond

Petijohn 1

DST Test Number: 1

