

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

17-7-23 Graham, KS

Roberts #1

Start Date: 2010.10.29 @ 06:20:00

End Date: 2010.10.29 @ 14:15:00

Job Ticket #: 38424 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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ATTN: Tony Richardson

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Job Ticket: 38424

DST#: 1

Test Start: 2010.10.29 @ 06:20:00

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:06:30

Time Test Ended: 14:15:00

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Kreutzer Jr.**

Unit No: **36**

Interval: **3805.00 ft (KB) To 3937.00 ft (KB) (TVD)**

Total Depth: **3937.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2441.00 ft (KB)**

2437.00 ft (CF)

KB to GR/CF: **4.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **127.28 psig @ 3836.00 ft (KB)**

Start Date: **2010.10.29**

End Date: **2010.10.29**

Capacity: **8000.00 psig**

Last Calib.: **2010.10.29**

Start Time: **06:20:01**

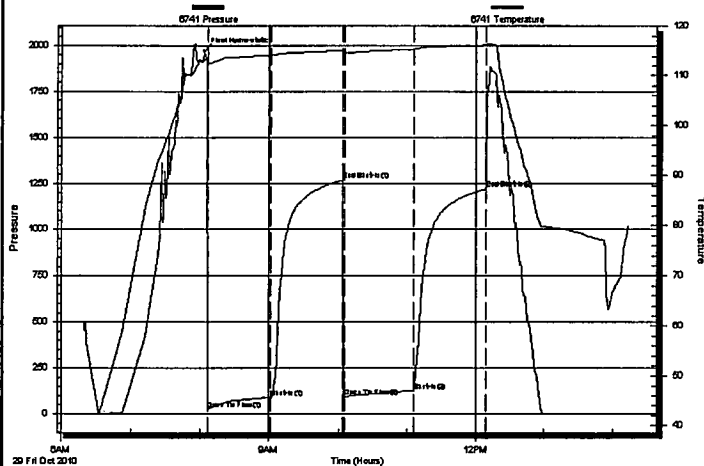
End Time: **14:15:00**

Time On Btm:

Time Off Btm: **2010.10.29 @ 08:03:00**

TEST COMMENT: IF: Fair blow, Built to B.O.B in 50 mins.
IS: Bled off, Blow back after 10 mins. Died after 2 mins.
FF: Weak blow, Built to 4 in.
FS: Bled off, Blow back after 10 mins. Weak surface.

Pressure vs. Time



PRESSURE SUMMARY

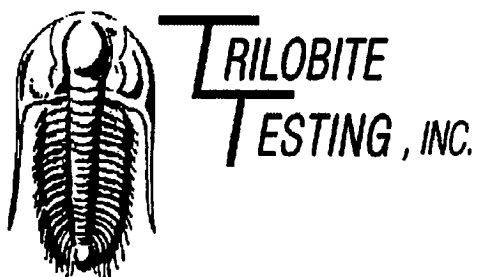
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.14	113.25	Final Hydro-static
4	23.86	112.60	Open To Flow (1)
59	90.42	114.24	Shut-In(1)
121	1266.58	115.12	End Shut-In(1)
122	95.20	114.69	Open To Flow (2)
183	127.28	115.36	Shut-In(2)
247	1220.88	116.17	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
123.00	gocm-5%g35%o60%m	0.60
144.00	go-10%g90%o	2.02
0.00	186ft. gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Prepared For: **Black Diamond Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

17-7-23 Graham, KS

Roberts #1

Start Date: 2010.10.29 @ 18:00:00

End Date: 2010.10.30 @ 00:20:00

Job Ticket #: 38425 DST #: 2

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DRILL STEM TEST REPORT

Black Diamond Inc.

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

Roberts #1

17-7-23 Graham, KS

Job Ticket: 38425

DST#: 2

Test Start: 2010.10.29 @ 18:00:00

GENERAL INFORMATION:

Formation: **Toronto-LKC-A**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:26:30

Time Test Ended: 00:20:00

Test Type: **Conventional Straddle**

Tester: **Chuck Kreutzer Jr.**

Unit No: **36**

Interval: **3657.00 ft (KB) To 3715.00 ft (KB) (TVD)**

Total Depth: **3937.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2441.00 ft (KB)**

2437.00 ft (CF)

KB to GR/CF: **4.00 ft**

Serial #: 6741 **Outside**

Press@RunDepth: **400.40 psig @ 3658.00 ft (KB)**

Start Date: **2010.10.29**

End Date:

2010.10.30

Start Time: **18:00:01**

End Time:

00:20:00

Capacity: **8000.00 psig**

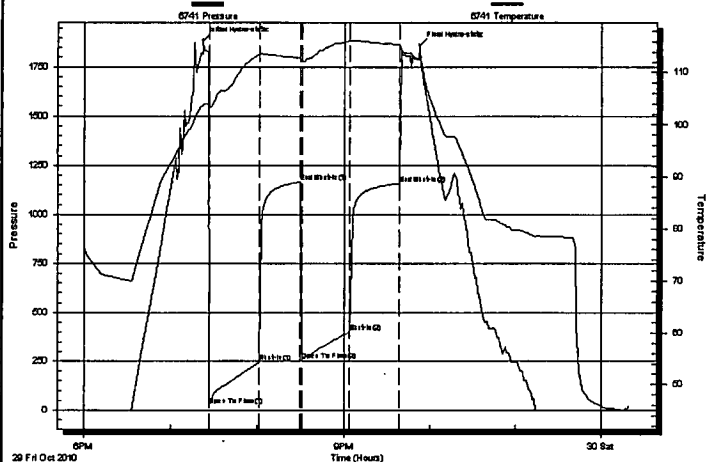
Last Calib.: **2010.10.30**

Time On Btm: **2010.10.29 @ 19:22:00**

Time Off Btm: **2010.10.29 @ 21:52:30**

TEST COMMENT: IF: Strong blow, Built to B.O.B in 8 mins.
IS: Bled off, No blow back
FF: Strong blow, Built to B.O.B in 5 mins.
FS: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.76	103.70	Initial Hydro-static
5	25.50	103.23	Open To Flow (1)
40	245.94	113.45	Shut-In (1)
68	1166.04	112.82	End Shut-In (1)
69	255.67	112.06	Open To Flow (2)
102	400.40	116.07	Shut-In (2)
137	1158.01	115.37	End Shut-In (2)
151	1861.58	112.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	w cm-25%w 75%m	0.60
496.00	mcw-25%m75%w	6.96

Gas Rates

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

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