

OPERATOR

Company: BLACK DIAMOND OIL, INC.
 Address: PO BOX 641
 HAYS, KS 67601

Contact Geologist: KENNETH VEHIGE
 Contact Phone Nbr: 785-625-5891
 Well Name: SCHEMPER #1
 Location: NE SW NE SE 20-3S-20W
 Pool: API: 15-147-20669
 State: KANSAS Field: WILDCAT
Country: USA

Scale 1:240 Imperial

Well Name: SCHEMPER #1
 Surface Location: NE SW NE SE 20-3S-20W
 Bottom Location:
 API: 15-147-20669
 License Number: 7076
 Spud Date: 2/14/2012 Time: 3:34 PM
 Region: PHILLIPS
 Drilling Completed: 2/20/2012 Time: 1:53 PM
 Surface Coordinates: 1810 FSL & 750 FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2160.00ft
 K.B. Elevation: 2165.00ft
 Logged Interval: 218.00ft To: 3747.00ft
 Total Depth: 3745.00ft
 Formation:
 Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.5922487 Latitude: 39.7753064
 N/S Co-ord: 1810 FSL
 E/W Co-ord: 750 FEL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601
 Phone Nbr: (785) 259-3737
 Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 6
 Rig Type: MUD ROTARY
 Spud Date: 2/14/2012 Time: 3:34 PM
 TD Date: 2/20/2012 Time: 1:53 PM
 Rig Release: 2/21/2012 Time: 8:15 AM

ELEVATIONS

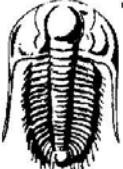
K.B. Elevation: 2165.00ft Ground Elevation: 2160.00ft
 K.B. to Ground: 5.00ft

NOTES

RESPECTFULLY SUBMITTED,
JEFF LAWLER

FORMATION																	
			NORTHERN ORDNANCE		RUSSELL COBB JR				LARIO		JONES, SHEL. & FARMER						
	SCHEMPER #1		PERRY #1		JACOBS #1		BARD 'B' #1		REESER #1								
	NE SW NE SE 20-3-20		SW SW SW 20-3-20		NW SE NW 16-3-20		S2 SE NW 27-3-20		NW NW SE 26-3-21								
	KB	2165	KB	2195	KB	2298	KB	2220	KB	2320							
	LOG TOPS		SAMPLE TOPS		CARD INFO		SMPL	LOGS		SMPL	DATA SOURCE						
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	DEPTH	DATUM	CORR.	DEPTH	DATUM					
	ANHYDRITE TOP	1811	354	1812	353	1843	352	+	1		1845	375	- 22				
	BASE	1836	329	1836	329						1985	335	+ 18				
TARKIO																	
TOPEKA	3187	-1022	3191	-1026	3224	-1029	+	3	3331	-1033	+	7	3245	-1025	- 1		
OREAD																	
HEEBNER SHALE	3394	-1229	3388	-1223	3422	-1227	+	4	3534	-1236	+	13	3438	-1218	- 5		
TORONTO	3422	-1257	3409	-1244	3446	-1251	+	7	3562	-1264	+	20	3462	-1242	- 2		
DOUGLAS																	
BROWN LIME																	
LKC	3440	-1275	3429	-1264	3465	-1270	+	6	3579	-1281	+	17	3485	-1265	+ 1		
BKC	3632	-1467	3620	-1455	3660	-1465	+	10	3787	-1489	+	34	3690	-1470	+ 15		
CONGOMERATE/QTZ																	
MISSISSIPPIAN																	
VIOLA																	
SIMPSON SHALE																	
ARBUCKLE	3707	-1542	3700	-1535	3739	-1544	+	9	3876	-1578	+	43	3760	-1540	+ 5		
RTD					3745	-1580	3790	-1595	+	15	3900	-1602	+	22	3802	-1582	+ 2
LTD	3747	-1582			3786	-1591									3895	-1575	- 5

DST #1 TORONTO, LKC "A"

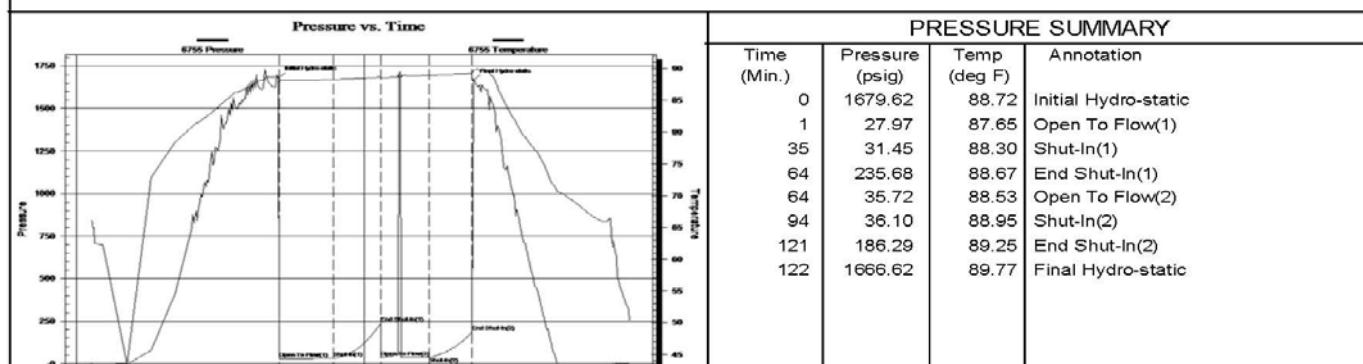
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Black Diamond Oil, Inc.	
	PO Box 641 Hays, KS. 67601	
	ATTN: Jeff Lawler	
20-3s-20w-Phillips		
Schemper #1		
Job Ticket: 46432 DST#: 1		
Test Start: 2012.02.18 @ 00:09:36		

GENERAL INFORMATION:

Formation:	Toronto-LKC "A"			
Deviated:	No	Whipstock:	0.00 ft (KB)	
Time Tool Opened:	02:06:36			
Time Test Ended:	05:45:51			
Interval:	ft (KB) To	ft (KB) (TVD)	Test Type:	Conventional Bottom Hole (Initial)
Total Depth:	3440.00	ft (KB) (TVD)	Tester:	Jason McLemore
Hole Diameter:	7.80 inches		Unit No:	000000000000054
	Hole Condition:	Good	Reference Elevations:	2165.00 ft (KB)
				2160.00 ft (CF)
			KB to GR/CF:	5.00 ft

Serial #: 6755	Inside	Capacity:	8000.00 psig	
Press@RunDepth:	36.10 psig @	3422.00 ft (KB)	Last Calib.:	2012.02.18
Start Date:	2012.02.18	End Date:	Time On Btm:	2012.02.18 @ 02:06:21
Start Time:	00:09:38	End Time:	Time Off Btm:	2012.02.18 @ 04:08:06

TEST COMMENT: IFP-Surge Upon Open, Dead ISI-Dead FFP-Dead, Flush, Surge, Dead FSI-Dead



Recovery

Length (ft)	Description	Volume(bbl)
3.00		0.01

Trilobite Testing, Inc

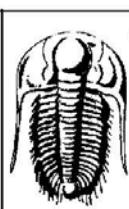
Ref. No: 46432

Gas Rates

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

Printed: 2012.02.19 @ 03:56:35

DST #2 LKC "E,F"



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

20-3s-20w-Phillips

PO Box 641
Hays, KS. 67601

Schemper #1

ATTN: Jeff Lawler

Job Ticket: 46433 DST#: 2
Test Start: 2012.02.18 @ 16:52:35

GENERAL INFORMATION:

Formation: E-F
Deviated: No Whistock: 0.00 ft (KB)
Time Tool Opened: 18:55:35
Time Test Ended: 00:14:20

Interval: ft (KB) To ft (KB) (TVD)
Total Depth: 3523.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

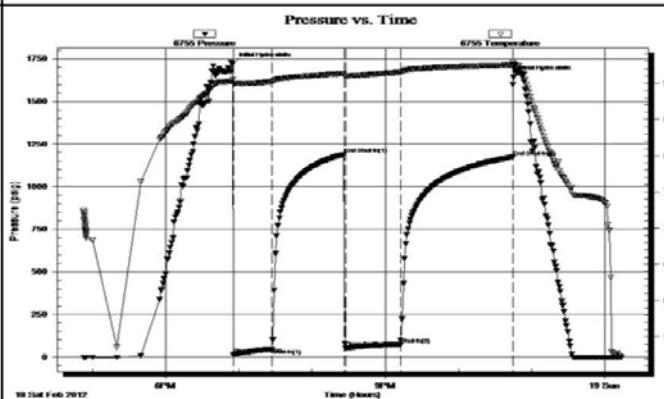
Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 000000000000054

Reference Elevations: 2165.00 ft (KB)
2160.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6755 Inside
Press@RunDepth: 72.91 psig @ 3520.00 ft (KB)
Start Date: 2012.02.18 End Date: 2012.02.19
Start Time: 16:52:37 End Time: 00:14:20

Capacity: 8000.00 psig
Last Calib.: 2012.02.19
Time On Btm: 2012.02.18 @ 18:55:05
Time Off Btm: 2012.02.18 @ 22:45:20

TEST COMMENT: IFP-weak Blow, Built to 2-3/4"
ISI-Dead
FFP-Weak Blow, Built to 1"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.02	90.50	Initial Hydro-static
1	12.68	89.96	Open To Flow(1)
32	45.63	90.21	Shut-In(1)
91	1188.79	91.35	End Shut-In(1)
93	52.57	90.99	Open To Flow(2)
138	72.91	91.50	Shut-In(2)
230	1173.14	92.51	End Shut-In(2)
231	1642.21	92.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
130.00	Muddy Water-75%W-25%M	0.73

* Recovery from multiple tests

Gas Rates

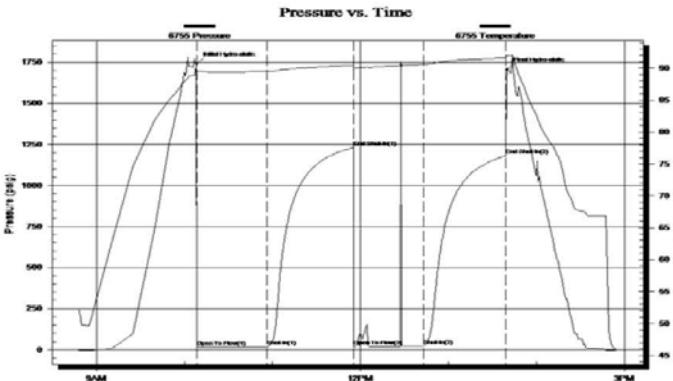
	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)

Trilobite Testing, Inc

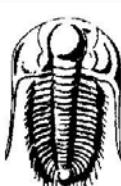
Ref. No: 46433

Printed: 2012.02.19 @ 03:52:35

DST #3 LKC "I"

 TRILOBITE TESTING, INC.	<h3 style="margin: 0;">DRILL STEM TEST REPORT</h3>																																						
Black Diamond Oil, Inc. PO Box 641 Hays, KS. 67601 ATTN: Jeff Lawler		20-3s-20w-Phillips Schemper #1 Job Ticket: 46434 DST#: 3 Test Start: 2012.02.19 @ 08:47:54																																					
GENERAL INFORMATION: <p>Formation: I Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 10:08:39 Time Test Ended: 14:54:54</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Interval:</td> <td style="width: 15%;">ft (KB) To</td> <td style="width: 15%;">ft (KB) (TVD)</td> <td style="width: 40%;">Reference Elevations:</td> </tr> <tr> <td>Total Depth:</td> <td>3580.00</td> <td>ft (KB) (TVD)</td> <td>2165.00 ft (KB) 2160.00 ft (CF)</td> </tr> <tr> <td>Hole Diameter:</td> <td>7.80</td> <td>inches</td> <td>Hole Condition: Good KB to GR/CF: 5.00 ft</td> </tr> </table>				Interval:	ft (KB) To	ft (KB) (TVD)	Reference Elevations:	Total Depth:	3580.00	ft (KB) (TVD)	2165.00 ft (KB) 2160.00 ft (CF)	Hole Diameter:	7.80	inches	Hole Condition: Good KB to GR/CF: 5.00 ft																								
Interval:	ft (KB) To	ft (KB) (TVD)	Reference Elevations:																																				
Total Depth:	3580.00	ft (KB) (TVD)	2165.00 ft (KB) 2160.00 ft (CF)																																				
Hole Diameter:	7.80	inches	Hole Condition: Good KB to GR/CF: 5.00 ft																																				
Serial #: 6755 Inside Press@RunDepth: 22.54 psig @ 3562.00 ft (KB) Start Date: 2012.02.19 End Date: 2012.02.19 Start Time: 08:47:56 End Time: 14:54:54	Capacity: 8000.00 psig Last Calib.: 2012.02.19 Time On Btm: 2012.02.19 @ 10:08:24 Time Off Btm: 2012.02.19 @ 13:39:54																																						
TEST COMMENT: IFP-Weak Blow, Built to 2-1/2" ISI-Dead FFP-Dead, Flush Tool. Surge, then Dead FSI-Dead																																							
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Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																				
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Recovery <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Length (ft)</th> <th style="width: 40%;">Description</th> <th style="width: 30%;">Volume(bbl)</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>Drilling Mud</td><td>0.02</td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </tbody> </table> <p>* Recovery from multiple tests</p>		Length (ft)	Description	Volume(bbl)	5.00	Drilling Mud	0.02													Gas Rates <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"> </th> <th style="width: 30%;">Choke(inches)</th> <th style="width: 30%;">Pressure (psig)</th> <th style="width: 10%;">Gas Rate(Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)														
Length (ft)	Description	Volume(bbl)																																					
5.00	Drilling Mud	0.02																																					
	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)																																				
Trilobite Testing, Inc		Ref. No: 46434																																					
		Printed: 2012.02.19 @ 17:13:03																																					

DST #4 LKC "J"

 TRILOBITE TESTING, INC.	<h3 style="margin: 0;">DRILL STEM TEST REPORT</h3>		
Black Diamond Oil, Inc. PO Box 641 Hays, KS. 67601 ATTN: Jeff Lawler		20-3s-20w-Phillips Schemper #1 Job Ticket: 46435 DST#: 4 Test Start: 2012.02.19 @ 20:08:35	

GENERAL INFORMATION:

Formation: I

Deviated: No Whistock: 0.00 ft (KB)

Time Tool Opened: 21:40:05

Time Test Ended: 02:49:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 000000000000054

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

Total Depth: 3590.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2165.00 ft (KB)

2160.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: 35.18 psig @ 3577.00 ft (KB)

Start Date: 2012.02.19

Start Time: 20:08:37

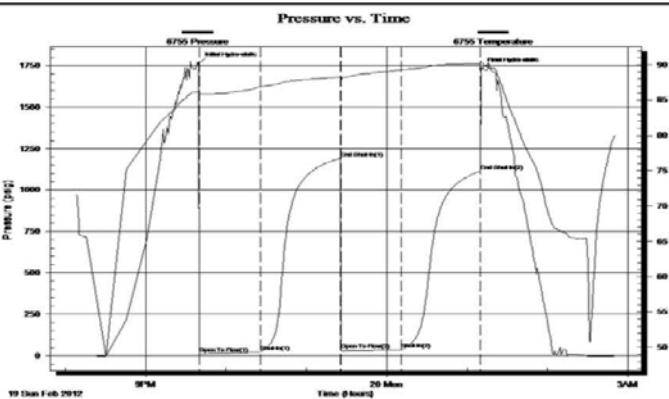
Capacity: 8000.00 psig

Last Calib.: 2012.02.20

Time On Btm: 2012.02.19 @ 21:39:35

Time Off Btm: 2012.02.20 @ 01:10:20

TEST COMMENT: IFP-Weak Blow, Built to 2-1/2"
ISI-Surface Blowback at end of Period
FFP-Weak Blow, Built to 3"
FSI-Surface Blowback for 10 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.64	86.24	Initial Hydro-static
1	12.38	85.76	Open To Flow(1)
46	22.79	86.88	Shut-In(1)
106	1190.72	88.27	End Shut-In(1)
107	31.02	87.62	Open To Flow(2)
151	35.18	89.26	Shut-In(2)
211	1114.69	90.21	End Shut-In(2)
211	1728.71	90.36	Final Hydro-static

Recovery

Length(ft)	Description	Volume(bbl)
35.00	Free Oil	0.17
30.00	HOCM-50% O-50% M	0.15

* Recovery from multiple tests

Gas Rates

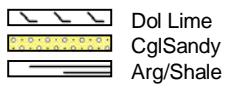
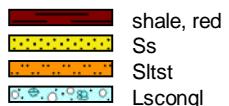
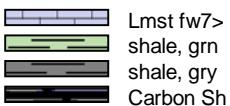
	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)

Trilobite Testing, Inc

Ref. No: 46435

Printed: 2012.02.20 @ 03:42:37

ROCK TYPES



STRINGER

- Chert
- Dolomite
- Limestone
- Sandstone
- Shale

ACCESSORIES

DST

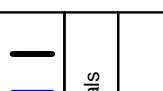
- DST Int
- DST alt
- Core

OTHER SYMBOLS

Curve Track #1

ROP (min/ft)

Gamma (API)



TG, C1 - C5

Total Gas (units)

C1 (units)

