

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY / DESCRIPTION OF WELL & LEASE

OPERATOR: License # 7076  
Name: Black Diamond Oil, Inc.  
Address 1: P.O. Box 641  
Address 2: \_\_\_\_\_  
City: Hays State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: Kenneth Vehige  
Phone: (785) 625-5891  
CONTRACTOR: License # 33575  
Name: WW Drilling  
Wellsite Geologist: Tony Richardson  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
4/9/2011    4/14/2011    4/16/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 147-20636-00-00  
Spot Description: \_\_\_\_\_  
N/2 SW SE NW Sec. 17 Twp. 4 S. R. 19  East  West  
2,110 Feet from  North /  South Line of Section  
1,650 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Phillips  
Lease Name: Rundle Well #: 1  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 1988 Kelly Bushing: 1993  
Total Depth: 3510 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 220 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 1000 ppm Fluid volume: 240 bbls  
Dewatering method used: Air Dry  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**AFFIDAVIT**  
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.  
Signature: \_\_\_\_\_  
Title: President Date: 6/30/11

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dlg Date: 7/1/11

Operator Name: Black Diamond Oil, Inc. Lease Name: Rundle Well #: 1  
 Sec. 17 Twp. 4 S. R. 19  East  West County: Phillips

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Density/Neutron, Micro, Dual Induction</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1547</td> <td>+446</td> </tr> <tr> <td>Topeka</td> <td>2942</td> <td>-949</td> </tr> <tr> <td>Heebner</td> <td>3150</td> <td>-1157</td> </tr> <tr> <td>Lansing KC</td> <td>3194</td> <td>-1201</td> </tr> <tr> <td>Base KC</td> <td>3398</td> <td>-1405</td> </tr> </table>	Name	Top	Datum	Anhydrite	1547	+446	Topeka	2942	-949	Heebner	3150	-1157	Lansing KC	3194	-1201	Base KC	3398	-1405
Name	Top	Datum																	
Anhydrite	1547	+446																	
Topeka	2942	-949																	
Heebner	3150	-1157																	
Lansing KC	3194	-1201																	
Base KC	3398	-1405																	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	23	220	Common	150	3% CC, 2%Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**WW Drilling, LLC**  
**WaKeeney, KS**  
**Well Plugging Orders**

Operator: Black Diamond Oil, Inc. License # 7076  
Address: PO Box 641-Hays, Kansas 67601

API # 15-147-20636-00-00

Lease Name: Rundle # 1  
Legals: 2110' FNL & 1650' FWL, Sec 1-4s-19w  
County: Phillips  
State: Kansas

Plug #	Sx.	Feet
1st	<del>25</del>	<del>@ 20' Above Arb.</del>
2nd	<u>25</u>	<u>@ 1560'</u>
3rd	<u>100</u>	<u>@ 840'</u>
4th	<u>40</u>	<u>@ 270'</u>
5th	<u>10</u>	<u>@ 40'W/Wiper</u>
Rathole	<u>30</u>	
Mousehole		

Total: 230

Type: 60/40 Poz - 4% Gel - 1/4 # per sx flo-seal

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Spud Report: Bruce Rodie Date: 4/7/2011 Time: 3:30 PM

Orders From: Rich Williams Date: 4/11/2011 Time: 10:15 AM

Reported to: Marvin Mills Date: 4/18/2020 Time: 9:30 AM

Results: D & A

API # 15-147-20636-00-00

Operator: Black Diamond Oil, Inc. Well Name & No: Rundlo # 1  
 Location: 2110' FNL & 1850' FWL, Section 17-4s-19w County: Phillips State: Kansas  
 Rig No.: 6 Contractor: WW Drilling, LLC Tool Pusher: Mark Bigge - 785-259-1836  
 Drill Collars: 14 Size: 6 1/4 X 2 1/4 Rig Phone: 785-259-8941  
 Make Pump: National K-380 Liner & Stroke: 6 x 14 Spud 04/09/2011 @ 1:30 PM  
 Approx. TD: 3800 Elevation: 1988 K.B. 1993 KB Hole Complete: 4/13/2011 @ 9:00 pm  
 Mud Co.: Andy Mud Mud Engineer: Ken Rupe Water Pond

Date	04/09/11	04/10/11	04/11/11	04/12/11	04/13/11	04/14/11	04/15/11	04/16/11		
Days	1-spud	2-drlg	3-drlg	4-cfs	5-dst#?	06-dst#3	7-WW	8-Plugging		
Depth		722	2577	3250	3406	3510	3510	3510		
Fl. Cut		722	1855	673	158	104				
D.T.										
D.T.		8-woc								
C.T.				3 3/4	15 3/4	19.5	24	24		
Bit Wt.		25,000	38,000	38,000	38,000	38,000				
RPM		95	85	85	85	85				
Pressure		650	900	900	950	950	950	950		
SPM		60	60	60	60	60	60	60		
Mud Cost				7408	7408	7408	7408	7408		
Mud Wt.		8.8	9	8.9	9.1	9.3	9.3	9.3		
Viscosity			28	70	58	54	54	54		
Water Loss				7.6	7.6	7.6	7.6	7.6		
Chlorides				500	1000	1000	1000	1000		
L.C.M.				2#	1.5#	1.5#	1.5#	1.5#		
Dev. Sur		1/4"@221			1"@3250	1/2"-3510				
Dev. Sur										
Fuel		3645	3240	2835	2592	2349	2106	2025		
Water-Pil	full	full	full	full	full	4'	4'	4'		
ACC Bit Hrs.		5	27.5	46.5	55.75	60.25	60.25	60.25		
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	dal	sh-lm	sh-lm		
Weather	clear	clear	P/cloudy	clear	P/cloudy	cloudy	cloudy	clear		

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 KCC WICHITA

No.	Size	Type	Out	Fl.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	221	221	2 3/4	2.75	RR	PK 7318	
2	7 7/8	Sm - F-27	3510	3289	60.25	63	New	PS 7030	55.71' Per Hr.
3									
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
221	8 5/8	150	Common, 3% cc, 2% gel	6:00 PM	2:00AM	Allied Did Circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3210-3250	30	45	30	45	10' 2% Oil
2	3295-3406	30	30	15		5' mud
3	3385-3541	30	30	Out		60'Mud
4	3145-3510	60	60	60	60	225'Mud
5	3210-3510	90	90	90	90	122'Muddy Wtr. Oil Specks
6						
7						
8						
9						

Surface Casing Furnished by: Midwest Pipe: 5 Joints 8 5/8, 23 # X 214.3 Set @ 220.3

Remarks: Spud 1:30 pm 04/09/2011, Anhydrite 1548-1577, Displaced @ 2779' (620bbbls), Short Trip @ 3406' 32stds. 2.5 Hrs., Pipe Strap 1.90' Short, short trip @ 3406 10 stds (1 hr), logged by Superior (LTD-3511x0, ran straddle, Plugging as Ordered.

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67069

No. 3902

Date	4-16-11	Sec.	1	Twp.	11	Range	19	County	Phillips	State	KS	On Location		Finish	9-30-11	
Lease	Kunkle		Well No.	31		Location: 6 miles KS - 10 mi to 9700 Rd, 2 mi										
Contractor	W-W Drilling Rty DB							Owner	H.E. S/Inc							
Type Job	plug							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	7 7/8"		T.D.	3510'												
Csg.			Depth													
Tbg. Size	4 3/4"		Depth	1560'												
Tool			Depth													
Cement Left in Csg.			Shoe Joint													
Meas Line			Displace	1420		Cement Amount Ordered 20' - 60% 4% G.I. 4 1/2%										

**EQUIPMENT**

Pumptrk	1	No.	Cementor	Cisco	Common
			Helper		
Bulktrk	10	No.	Driver	Doug	Poz. Mix
			Driver		
Bulktrk	Part	No.	Driver	Rick	Gel.
			Driver		

**JOB SERVICES & REMARKS**

Remarks:	Cemented and Circulated				
Rat Hole					
Mouse Hole					
Centralizers					
Baskets					
D/V or Port Collar					

1560' - 285	Handling
840' - 100	Mileage
270' - 40.5	<b>FLOAT EQUIPMENT</b>
40' - 10.5	Guide Shoe
Rathole - 30.5	Centralizer

285 x 60/40 H.S. G.I. 4 1/2% G.I. 4 1/2%

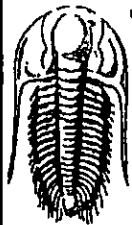
Cement at Circulate

1 - 8 7/8" duplex plug

Pumptrk Charge

Mileage

Signature	M. S. [unclear]	Tax	
		Discount	
		Total Charge	



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Black Diamond Oil Inc

Rundle #1

PO Box 641  
Hays, KS 67601

17-4-19 Phillips, KS

Job Ticket: 040765      DST#: 1

ATTN: Tony Richardson

Test Start: 2011.04.12 @ 12:30:00

### GENERAL INFORMATION:

Formation: LKC-C-D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:30

Time Test Ended: 17:53:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: 3210.00 ft (KB) To 3250.00 ft (KB) (TVD)

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2000.00 ft (KB)

1995.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741

Outside

Press@RunDepth: 32.56 psig @ 3213.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.12

End Date:

2011.04.12

Last Calib.: 2011.04.12

Start Time: 12:30:01

End Time:

17:53:30

Time On Btm: 2011.04.12 @ 14:10:30

Time Off Btm: 2011.04.12 @ 16:48:00

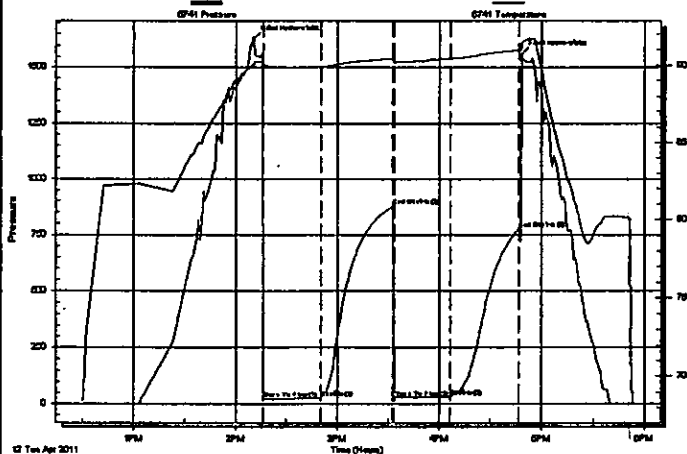
TEST COMMENT: FF: Weak blow, Died in 13 mins.  
 IS: No blow back over 45 mins.  
 FF: No blow over 30 mins.  
 FS: No blow back over 45 mins.

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Pressure vs. Time



PRESSURE SUMMARY

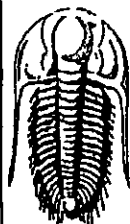
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.54	90.06	Initial Hydro-static
6	21.05	89.92	Open To Flow (1)
40	27.22	89.91	Shut-In(1)
82	875.41	90.44	End Shut-In(1)
83	28.31	90.10	Open To Flow (2)
116	32.56	90.44	Shut-In(2)
156	774.15	90.97	End Shut-In(2)
158	1559.89	91.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm-2%o98%m	0.05

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Rundle #1**

PO Box 641  
Hays, KS 67601

**17-4-19 Phillips,KS**

Job Ticket: 040766 DST#: 2

ATTN: Tony Richardson

Test Start: 2011.04.13 @ 09:45:00

## GENERAL INFORMATION:

Formation: LKC H-L  
 Davlated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:20:30  
 Time Test Ended: 13:54:00

Test Type: Conventional Bottom Hole  
 Tester: Chuck Kreutzer Jr.  
 Unit No: 36

Interval: 3295.00 ft (KB) To 3406.00 ft (KB) (TVD)  
 Total Depth: 3250.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2000.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6741**

**Outside**

Press@RunDepth: 21.50 psig @ 3298.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.13

End Date:

2011.04.13

Last Calib.: 2011.04.13

Start Time: 09:45:01

End Time:

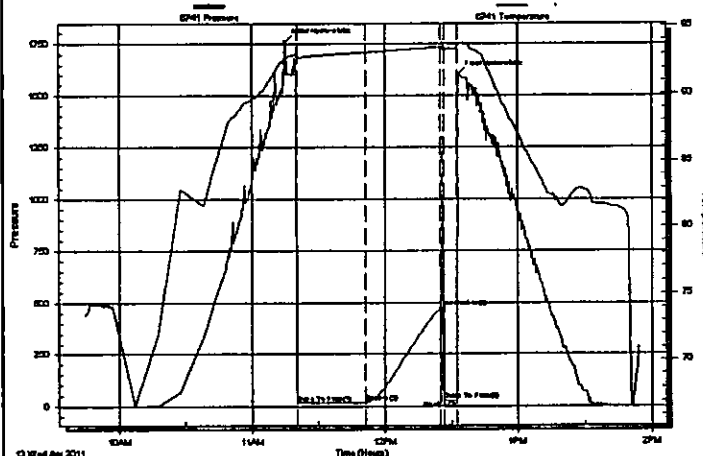
13:54:00

Time On Btrm: 2011.04.13 @ 11:15:00

Time Off Btrm: 2011.04.13 @ 12:33:00

**TEST COMMENT:** IF: Weak blow, Died in 7 mins.  
 IS: No blow back over 30 mins.  
 FF: Flushed tool.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.42	92.71	Initial Hydro-static
6	17.05	92.54	Open To Flow (1)
37	21.50	93.06	Shut-in(1)
70	476.14	93.42	End Shut-in(1)
72	26.71	93.00	Open To Flow (2)
78	26.73	93.31	Shut-in(2)
78	1604.07	93.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

Rundle #1

PO Box 641  
Hays, KS 67601

17-4-19 Phillips, KS

Job Ticket: 040767 DST#: 3

ATTN: Tony Richardson

Test Start: 2011.04.14 @ 04:15:00

## GENERAL INFORMATION:

Formation: Marmaton

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:30:00

Time Test Ended: 08:01:00

Interval: 3385.00 ft (KB) To 3511.00 ft (KB) (TVD)

Total Depth: 3511.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Reference Elevations: 2000.00 ft (KB)

1995.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6741

Outside

Press@RunDepth: 57.31 psig @ 3387.60 ft (KB)

Start Date: 2011.04.14

End Date:

2011.04.14

Start Time: 04:15:01

End Time:

08:01:00

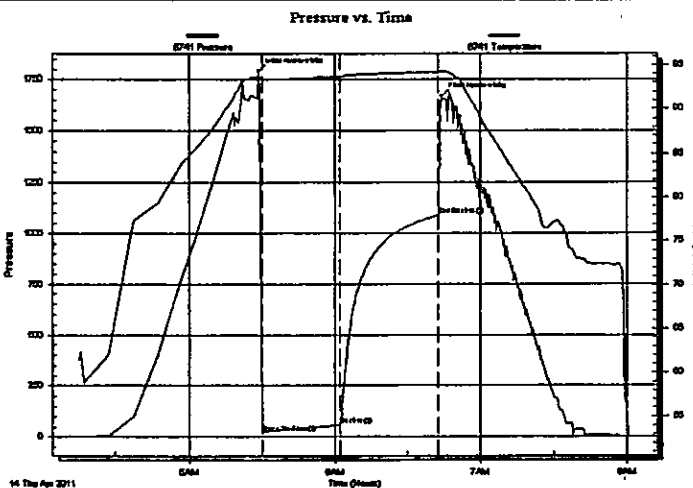
Capacity: 8000.00 psig

Last Calib.: 2011.04.26

Time On Btm: 2011.04.14 @ 05:28:30

Time Off Btm: 2011.04.14 @ 06:44:00

TEST COMMENT: IF: Weak blow died in 25 mins.  
IS: No blow back over 30 mins.  
---Pulled test---



## PRESSURE SUMMARY

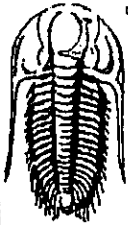
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.92	93.64	Initial Hydro-static
2	21.52	93.31	Open To Flow (1)
34	57.31	93.62	Shut-in(1)
74	1087.71	94.17	End Shut-in(1)
76	1670.09	94.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.30

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

Rundle #1

PO Box 641  
Hays, KS 67601

17-4-19 Phillips, KS

Job Ticket: 040768 DST#: 4

ATTN: Tony Richardson

Test Start: 2011.04.14 @ 08:25:00

## GENERAL INFORMATION:

Formation: LKC-A-Marmaton  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:49:30  
Time Test Ended: 15:14:00

Test Type: Conventional Bottom Hole  
Tester: Chuck Kreutzer Jr.  
Unit No: 36

Interval: 3145.00 ft (KB) To 3511.00 ft (KB) (TVD)  
Total Depth: 3511.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2000.00 ft (KB)  
1995.00 ft (CF)  
KB to GR/CF: 5.00 ft

Serial #: 6741

Outside

Press@RunDepth: 136.49 psig @ 3148.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.14 End Date:

2011.04.14

Last Calib.: 2011.04.14

Start Time: 08:25:01 End Time:

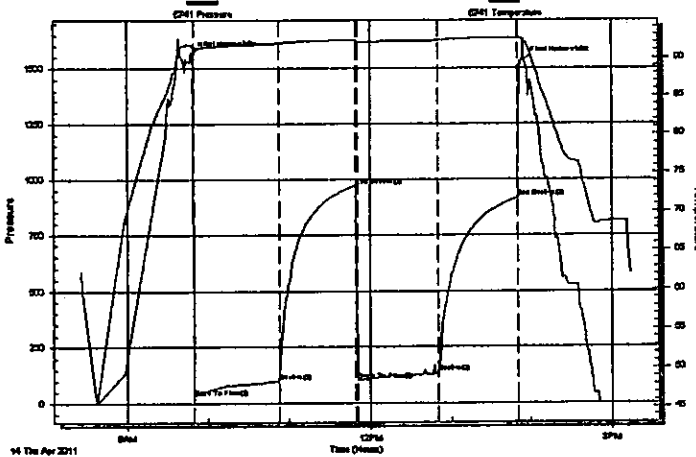
15:14:00

Time On Btrr: 2011.04.14 @ 09:48:00

Time Off Btrr: 2011.04.14 @ 13:55:00

**TEST COMMENT:** IF: Weak blow built to 3 in. over 60 mins.  
IS: No blow back over 60 mins  
FF: Weak blow built to 2 in. over 60 mins.  
FS: No blow back over 60 mins.

Pressure vs. Time



## PRESSURE SUMMARY

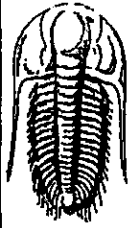
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.39	91.57	Initial Hydro-static
2	32.92	90.94	Open To Flow (1)
65	99.26	91.85	Shut-In(1)
122	970.43	92.27	End Shut-In(1)
123	104.33	91.94	Open To Flow (2)
183	136.49	92.23	Shut-In(2)
243	915.05	92.52	End Shut-In(2)
247	1535.20	92.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
225.00	mud	2.06

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Black Diamond Oil Inc

Rundle #1

PO Box 641  
Hays, KS 67601

17-4-19 Phillips, KS

Job Ticket: 040769

DST#: 5

ATTN: Tony Richardson

Test Start: 2011.04.14 @ 19:10:00

### GENERAL INFORMATION:

Formation: LKC C - Marmanton

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:27:00

Time Test Ended: 05:25:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 3210.00 ft (KB) To 3511.00 ft (KB) (TVD)

Total Depth: 3511.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2000.00 ft (KB)

1995.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741

Outside

Press@RunDepth: 101.89 psig @ 3215.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.14 End Date: 2011.04.15

Last Calib.: 2011.04.15

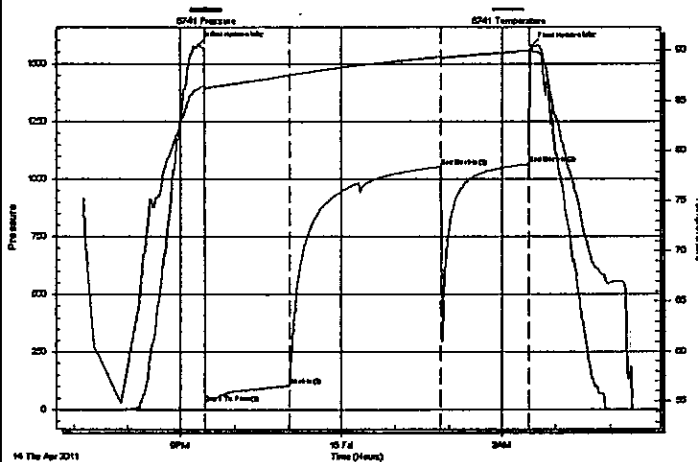
Start Time: 19:10:01 End Time: 05:25:30

Time On Btm: 2011.04.14 @ 21:19:00

Time Off Btm: 2011.04.15 @ 03:32:00

**TEST COMMENT:** IF: Weak blow, built to 2 in. over 90 mins.  
 IS: No blow back over 90 mins.  
 FF: Weak blow, built to surface over 90 mins.  
 FS: No blow back over 90 mins.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1579.57	86.26	Initial Hydro-static
8	31.12	86.24	Open To Flow (1)
103	101.89	87.61	Shut-in(1)
272	1054.38	89.38	End Shut-in(1)
371	1065.58	89.98	End Shut-in(2)
373	1575.82	90.06	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUD-100%	0.59
62.00	MUD with oil specs	0.87

### Gas Rates

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