



KANSAS CORPORATION COMMISSION 1079486  
OIL & GAS CONSERVATION DIVISION

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: PO BOX 641  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + 0641  
Contact Person: Kenneth Vehige  
Phone: ( 785 ) 625-5891  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Jeff Lawler  
Purchaser: Coffeyville Resources

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 #: \_\_\_\_\_

<u>2/21/2012</u>	<u>2/26/2012</u>	<u>3/12/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24006-00-00

Spot Description: \_\_\_\_\_

E2 NW SE SW Sec. 22 Twp. 8 S. R. 19  East  West  
990 Feet from  North /  South Line of Section  
1750 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Rooks

Lease Name: Green D Well #: 3

Field Name: Webster

Producing Formation: Arbuckle

Elevation: Ground: 1983 Kelly Bushing: 1987

Total Depth: 3430 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 217 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 3430

feet depth to: 0 w/ 475 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 3000 ppm Fluid volume: 350 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Black Diamond Oil

Lease Name: Veverka License #: 7076

Quarter NW Sec. 26 Twp. 8 S. R. 19  East  West

County: Rooks Permit #: D-22,285

**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.

Submitted Electronically

**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: Deanna Garrisor Date: 05/01/2012



1079486

Operator Name: Black Diamond Oil, Inc. Lease Name: Green D Well #: 3  
 Sec. 22 Twp. 8 S. R. 19  East  West County: Rooks

**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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Micro, Dual Induction & Density/Neutron	<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>1398</td> <td>+589</td> </tr> <tr> <td>Topeka</td> <td>2929</td> <td>-942</td> </tr> <tr> <td>Heebner</td> <td>3138</td> <td>-1151</td> </tr> <tr> <td>Lansing KC</td> <td>3179</td> <td>-1192</td> </tr> <tr> <td>Arbuckle</td> <td>3425</td> <td>-1438</td> </tr> </table>	Name	Top	Datum	Anhydrite	1398	+589	Topeka	2929	-942	Heebner	3138	-1151	Lansing KC	3179	-1192	Arbuckle	3425	-1438
Name	Top	Datum																	
Anhydrite	1398	+589																	
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Lansing KC	3179	-1192																	
Arbuckle	3425	-1438																	

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	12.25	8.625	23	217	Common	150	3%CC2%Gel
Production	7.875	5.5	14	3427	GMD	475	.25# flow seal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD	-			
___ Plug Off Zone	-			

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

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3400</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>3/13/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbbs. <u>25</u>	Gas Mcf <u>0</u>	Water Bbbs. <u>25</u> Gas-Oil Ratio <u>0</u> Gravity <u>23</u>

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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API # 15-163-24006-00-00

Operator: Black Diamond Oil, Inc.

Well Name & No: Green "D" # 3

Location: 990' FSL & 1750' FWL, Section 22-8s-19w

County: Rooks

State: Ks

Rig No.: 6 Contractor: WW Drilling, LLC

Tool Pusher: John Mayers - 785-259-4392

Drill Collars: 14 Size: 6 1/4 x 2 1/4

Rig Phone: 785-259-6941

Make Pump: National K-380

Liner & Stroke: 6 x 14

Spud 2/21/2012 @ 5:30 PM

Approx. TD: 3450 Elevation: 1982

K.B. 1987

KB Hole Complete: 2/25/2012 @ 6:30 PM

Mud Co.: Andy's Mud

Mud Engineer: Kirk Werth

Water Pond

Date	02/21/12	02/22/12	02/23/12	02/24/12	02/25/12	02/26/12	02/27/12			
Days	1-spud	2-woc	3-drig	4-drig	5-drig	6-log	7-done			
Depth		218	2224	3110	3308	3427				
Ft. Cut		218	2006	886	198	119				
D.T.		7.5-woc	.5-woc		.75-DW					
D.T.			1/4-pump		.5-wop					
C.T.					13.75	16.75	15			
Bit Wt.		20,000	30000	38000	38000	38000				
RPM		90	85	85	85	85				
Pressure		500	750	800	800	800				
SPM		60	60	60	60	60				
Mud Cost					8640	8867				
Mud Wt.		8.7	9.3	8.9	9	9.1				
Viscosity		28	29	59	56	57				
Water Loss					6.8	7.6				
Chlorides					1500	3000				
L.C.M.				1#	2#	2#				
Dev. Sur		218-1/2'			3175-3/4'	3427-3/4'				
Dev. Sur										
Fuel	2106	1944	3645	3159	2916	2592	2430			
Water-Pit	full	2'	1/2'	3'	full	full				
ACC Bit Hrs			21.75	44	52.75	59.5				
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm				
Weather	clear	clear	ply cloudy	clear	clear	clear				
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops	
1	12 1/4	Smith	218	218	4.25	4.25	RR	PD 6528		
2	7 7/8	Sm - F-27	3427	3209	59.5	63.75	New	PX 0137	ROP 53.7 FPH	
3										
4										
DEPTH	SIZE	SACKS	CEMENT MATERIAL		PLUG DOWN	DRILLED OUT	REMARKS			
218	8 5/8	150	Common, 3% cc, 2% gel		11:30 PM	7:30 AM	Allied Did circ			
3427	5 1/2	475	QMD 1/4# Flow seal per sx		8:00 PM		Quality Cem. Did circ			
		30	Ratehole			2/26/2012				
NO	INTERVAL		OPEN	SHUT	OPEN	SHUT	RECOVERY			
1	3100-3175		30	45	30	30	30' mud			
2	3418-3427		30	30	30	30	60' gas 625' oil			
3										
4										
5										
6										
7										
8										
9										

Surface Casing Furnished by: Midwest Pipe - Milden Haul - 5 joints 8 5/8, 23 #, tally 211.21 set @ 217

Remarks: Strap & weld surface by WW. Anhydrite 1396'-1428', Displace @ 2812 (600 bbls), Short trip @ 3175' (2 Hrs), Pipe strap @ 3175' (0.96 board short), Short trip @ 3427' (11 stds 1/2 HR) Logged by Superior LTD 3430' (4 Hrs), Ran 82 joints of 14# 5 1/2 casing set @ 3425', Plug down @ 8:00 Pm, Release rig @ 10:00 PM on 2/26/2012.

# ALLIED OIL & GAS SERVICES, LLC 056962

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
RUSSELL

DATE <u>2-21-12</u>	SEC <u>22</u>	TWP <u>8<sup>S</sup></u>	RANGE <u>19<sup>W</sup></u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 PM</u>	JOB FINISH <u>12 AM</u>
LEASE <u>Green</u>	WELL # <u>d 3</u>	LOCATION <u>ZURICH - 7 N - 1/2<sup>E</sup> TANK</u>		COUNTY <u>ROCKS</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)			<u>N-W Follow LEASE Rd TO LOCATION</u>				

CONTRACTOR WW #6

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 220

CASING SIZE 8 5/8 DEPTH 218.81

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10 FT

PERFS.

DISPLACEMENT 13.26 bbl

OWNER

CEMENT AMOUNT ORDERED 150 SK A 89% CC 2% GA

EQUIPMENT

PUMP TRUCK CEMENTER Bob Smith

# 409 HELPER Tony

BULK TRUCK

# 481 DRIVER CHRIS

BULK TRUCK

# DRIVER

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>59 x 158 x 11</u>			<u>1025.92</u>
				TOTAL <u>4173.17</u>

REMARKS:

pumped 150 SK  
CEMENT CIRCULATED  
TO SURFACE

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>H 59</u>	@	<u>7.00</u>	<u>413.00</u>
MANIFOLD		@		
	<u>Ldv M. 59</u>	@	<u>4.00</u>	<u>236.00</u>
		@		

CHARGE TO: BLACK diamond

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 1774.00

PLUG & FLOAT EQUIPMENT

	@			
	@			
	@			
	@			

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment

# QUALITY OILWELL CEMENTING, INC.

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

Home Office P.O. Box 32 Russell, KS 67665

No. 241

Date	2/26/12	Sec.	22	Twp.	2	Range	19	County	Rooks	State	KS	On Location	Finish	8:00 PM
Lease	GREN D		Well No.	3		Location	Zurich, 7N, 1/2E, N1-W into							
Contractor	W.W. Drilling Rig # 6											Owner		
Type Job	Production											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.	3127'										
Csg.	5 1/2" 11#		Depth	3125'										
Tbg. Size			Depth											
Tool			Depth											
Cement Left in Csg.	42'		Shoe Joint	42'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace	72 1/2 bbl.		Cement Amount Ordered	475 = 2-MDC 1/4# Float							

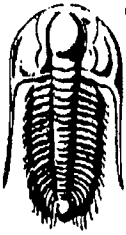
**EQUIPMENT**

Pumptrk	9	No.	Cementer	Paul	Helper	Paul	Common
Bulktrk	10	No.	Driver	Mark	Driver	Mark	Poz. Mix
Bulktrk	10	No.	Driver	Tom	Driver	Tom	Gel.

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole 305x	Hulls
Mouse Hole	Salt
Centralizers 1, 3, 5, 7, 9, 11, 17	Flowseal
Baskets 2, 14, 18	Kol-Seal
D/V or Port Collar	Mud CLR 48 500 gal.
Est. C.C. - 45 min	CFL-117 or CD110 CAF 38
Pump 500 gal mud (1 par. 48)	Sand
Run Rat Hole	Handling
Run 11 1/2" down 5 1/2"	Mileage
Displace	5 1/2" <b>FLOAT EQUIPMENT</b>
Lead Plug	Guide Shoe
Float Well	Centralizer 7
Cement Circulated	Baskets 3
Thank!	AFU Inserts
	Float Shoe 1
	Latch Down 1
	Pumptrk Charge
	Mileage
	Tax
	Discount
	Total Charge

X Signature *[Handwritten Signature]*



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc  
 P O Box 641  
 Hays Ks 67601-0641  
 ATTN: Ken Vehige

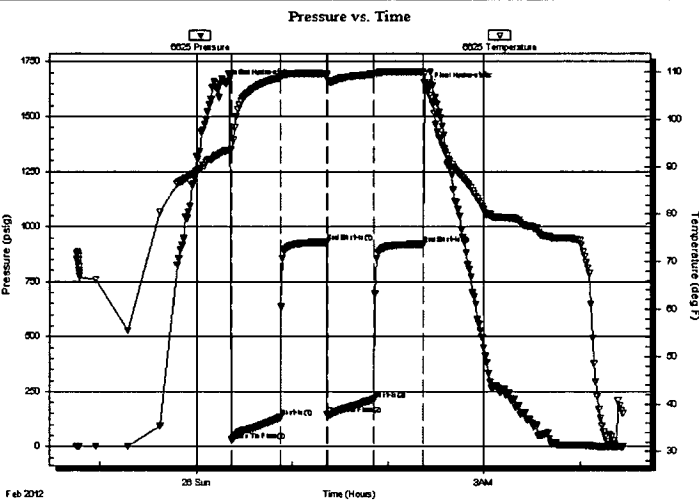
**22-8s-19w Rooks**  
**Green D #3**  
 Job Ticket: 46253      **DST#: 2**  
 Test Start: 2012.02.25 @ 22:45:31

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:21:56  
 Time Test Ended: 04:27:25  
 Interval: **3418.00 ft (KB) To 3427.00 ft (KB) (TVD)**  
 Total Depth: 3427.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 1987.00 ft (KB)  
 1982.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6625**      **Inside**  
 Press@RunDepth: 216.02 psig @ 3419.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.02.25      End Date: 2012.02.26      Last Calib.: 2012.02.26  
 Start Time: 22:45:31      End Time: 04:27:25      Time On Btm: 2012.02.26 @ 00:18:26  
 Time Off Btm: 2012.02.26 @ 02:24:56

**TEST COMMENT:** 30-IFP-w k to strg in 7min  
 30-ISIP-surface bl bk  
 30-FFP-w k to strg in 10min  
 30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.97	93.35	Initial Hydro-static
4	30.14	93.61	Open To Flow (1)
34	132.52	108.74	Shut-In(1)
63	928.37	109.63	End Shut-In(1)
64	146.22	109.35	Open To Flow (2)
93	216.02	109.43	Shut-In(2)
124	919.66	109.99	End Shut-In(2)
127	1635.17	105.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	60'GIP	0.00
25.00	MGO 5%G10%M85%O	0.12
600.00	CO	7.55

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**22-8s-19w Rooks**

P O Box 641  
Hays Ks 67601-0641

**Green D #3**

Job Ticket: 46253

**DST#: 2**

ATTN: Ken Vehige

Test Start: 2012.02.25 @ 22:45:31

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

18 deg API

Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	60'GIP	0.000
25.00	MGO 5%G10%M85%O	0.123
600.00	CO	7.551

Total Length: 625.00 ft      Total Volume: 7.674 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

