



KANSAS CORPORATION COMMISSION 1074041  
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: None

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 #: \_\_\_\_\_  
2/14/2012    2/20/2012    2/21/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-147-20669-00-00  
Spot Description: \_\_\_\_\_  
NE SW NE SE Sec. 20 Twp. 3 S. R. 20  East  West  
1810 Feet from  North /  South Line of Section  
750 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Phillips  
Lease Name: Schemper Well #: 1  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 2162 Kelly Bushing: 2165  
Total Depth: 3745 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 218 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: 17000 ppm Fluid volume: 500 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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 Garrison Date: 05/01/2012



1074041

Operator Name: Black Diamond Oil, Inc. Lease Name: Schemper Well #: 1  
 Sec. 20 Twp. 3 S. R. 20  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 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:  Density/Neutron, Sonic, Dual Induction, Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1811</td> <td>+354</td> </tr> <tr> <td>Topeka</td> <td>3191</td> <td>-1026</td> </tr> <tr> <td>Heebner</td> <td>3394</td> <td>-1229</td> </tr> <tr> <td>Lansing KC</td> <td>3440</td> <td>-1275</td> </tr> <tr> <td>Arbuckle</td> <td>3707</td> <td>-1542</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1811	+354	Topeka	3191	-1026	Heebner	3394	-1229	Lansing KC	3440	-1275	Arbuckle	3707	-1542
Name	Top	Datum																	
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Lansing KC	3440	-1275																	
Arbuckle	3707	-1542																	

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	218	Common	150	3%CC&2%Gel

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:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> 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 <i>(Explain)</i> _____			
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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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API # 15-147-20889-00-00

Operator: Black Diamond Oil, Inc.

Well Name & No: Schemper #1

Location: 1810 FSL & 750 FEL, Section 20-3s-20w

County: Phillips

State: Kansas

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 2/14/12 @ 8:45 pm

Approx. TD: 3700 Elevation: 2160

K.B. 2165

KB Hole Complete: 2/20/2012 @ 2:00 pm

Mud Co.: Andy's Mud

Mud Engineer: Kirk Werth

Water Pond

Date	02/14/12	02/15/12	02/16/12	02/17/12	02/18/12	02/19/12	02/20/12	02/21/12		
Days	1-spud	2-woc	3-drig	4-drig	5-dsl #1	6-cfs	7-cfs	8-done		
Depth		219	2252	3170	3440	3580	3610	3745		
Ft. Cut		219	2033	918	270	140	30	135		
D.T.										
D.T.		5.75 woc	2.25 woc	.25 pump	.25-wop		.25-wop			
C.T.					13.75	16	22.25	18.75		
Bit Wt.	all	20,000	30000	38000	38,000	38,000	38000	38,000		
RPM	100	90	85	85	85	85	85	85		
Pressure	450	500	750	850	850	850	850	900		
SPM	60	60	60	60	60	60	60	60		
Mud Cost				8387	8387	8387	8387	8870		
Mud Wt.		8.7	9	8.8	9	9	9.2	9.2		
Viscosity		28	29	66	59	56	55	57		
Water Loss				6.8	6.8	6.8	8	7.6		
Chlorides				800	800	800	1000	2000		
L.C.M.				2 #	2.5#	2#	1 #	1 #		
Dev. Sur		1/2"-219			1"-3440			3/4"-3745		
Dev. Sur										
Fuel	2592	2311	2187	1782	2916	2592	2268	2106		
Water-Pil	2'	1'	2'	full	full	4'	4'	3'		
ACC Bl Hrs.			20.5	41.75	51.75	59.75	61.25	67.5		
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm	dol		
Weather	clear	cloudy	ply-cldy	clear	clear	p/cloudy	cloudy	cloudy		

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	219	219	2.25	2.25	RR	PD 6528	
2	7 7/8	Sm - F-27	3745	3526	67.5	69.75	New	PX 0512	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	1:15 AM	9:15 AM	Allied Cem. Did circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3386-3440	30	30	30	30	3' mud
2	3485-3523	30	60	45	90	125' mw
3	3559-3580	45	60	45	60	5' mud
4	3574-3590	45	60	45	60	70' heavy oil cut mud
5						
6						
7						
8						
9						

Surface Casing Furnished by: Midwest Pipe, Milden, 5 joints, 8 5/8 23 #, lally 212.81', set @ 218'

Remarks: Strap & weld surface by Michaels, Anhydrite 1812'-1836'. Displace complete @ 2957' (600 bbls). Short trip @ 3440', 36 stands (2.25 hrs). Short trip @ 3745(10 stds)(3/4 hr), logged by Superior (LTD-3747)(4.5 hrs), plugged hole 25 sx @ 3687', 25 sx @ 1820', 100 sx @ 1160', 40 sx @ 270', 10 sx @ 40', 30 sx rathole, total 230 sx-60/40 poz-4% gel-1/4# per sx floseal, plug down @ 6:15 am by Allied Cem, rig released @ 8:15 am on 2/21/2012.

# ALLIED OIL & GAS SERVICES, LLC 056902

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>2-14-12</u>	SEC <u>20</u>	TWP <u>3</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>100</u>	JOB FINISH <u>130</u>
LEASE <u>Schemper</u>	WELL # <u>1</u>	LOCATION <u>Logan - Cont, 1W, 1 1/2 N</u>			COUNTY <u>Phillips</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>W into</u>				

CONTRACTOR WWG

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 220

CASING SIZE B 5 8 DEPTH 219.81

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 10

CEMENT LEFT IN CSG. 10 Gals

PERFS. \_\_\_\_\_

DISPLACEMENT 13 bbl

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 150 sks 3cc 2 1/2 gal

COMMON	<u>150 sks</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<u>3 sks</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5 sks</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158 sks</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>99 x 15.82</u>	@	<u>.11</u>	<u>1720.62</u>
TOTAL				<u>4868.37</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Paul H-Bob

# 409 HELPER tony

BULK TRUCK DRIVER Chris

# 378

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_

**REMARKS:**

Logan well

Plugged 150 sks class A 3cc 2 1/2 gal

Displaced 13 bbl H<sub>2</sub>O

Cement circulated to surface

NO plug

**SERVICE**

DEPTH OF JOB	<u>219</u>			
PUMP TRUCK CHARGE			<u>1,125.00</u>	
EXTRA FOOTAGE		@	<u>.95</u>	
MILEAGE	<u>99 mi HV</u>	@	<u>7.00</u>	
MANIFOLD		@		
	<u>99.2 MILV</u>	@	<u>400</u>	
		@	<u>396.00</u>	
TOTAL				<u>2,214.00</u>

CHARGE TO: Black Diamond Oil Inc

STREET \_\_\_\_\_

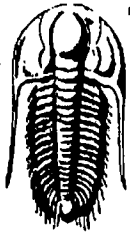
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

**20-3s-20w-Phillips**

PO Box 641  
Hays, KS. 67601

**Schemper #1**

Job Ticket: 46434

**DST#: 3**

ATTN: Jeff Lawler

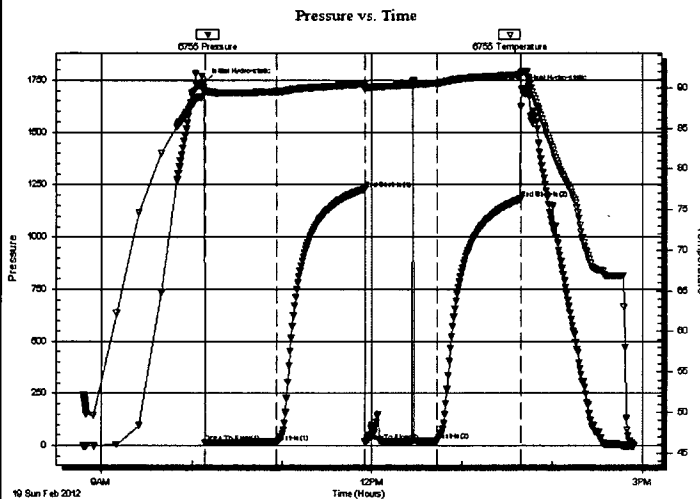
Test Start: 2012.02.19 @ 08:47:54

## GENERAL INFORMATION:

Formation: I  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 10:08:39  
 Time Test Ended: 14:54:54  
 Interval: ft (KB) To ft (KB) (TVD)  
 Total Depth: 3580.00 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: 22.54 psig @ 3562.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.02.19 End Date: 2012.02.19 Last Calib.: 2012.02.19  
 Start Time: 08:47:56 End Time: 14:54:54 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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.49	90.12	Initial Hydro-static
1	13.82	89.56	Open To Flow (1)
48	16.60	89.54	Shut-In(1)
107	1229.88	90.46	End Shut-In(1)
107	18.47	89.85	Open To Flow (2)
155	22.54	90.58	Shut-In(2)
211	1181.11	91.58	End Shut-In(2)
212	1707.37	92.02	Final Hydro-static

## Recovery

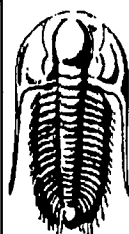
Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

**20-3s-20w-Phillips**

PO Box 641  
Hays, KS. 67601

**Schemper #1**

Job Ticket: 46434

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2012.02.19 @ 08:47:54

## Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 48.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3559.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3539.00	
Shut In Tool	5.00			3544.00	
Hydraulic tool	5.00			3549.00	
Packer	5.00			3554.00	21.00 Bottom Of Top Packer
Packer	5.00			3559.00	
Stubb	1.00			3560.00	
Perforations	2.00			3562.00	
Recorder	0.00	6755	Inside	3562.00	
Recorder	0.00	8289	Outside	3562.00	
Perforations	15.00			3577.00	
Bullnose	3.00			3580.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				

