

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: PO Box 641
Address 2: _____
City: Hays State: KS Zip: 67601 + _____
Contact Person: Kenneth Vehige
Phone: (785) 625-5891
CONTRACTOR: License # 31548
Name: Discovery Drilling Co., Inc.
Wellsite Geologist: Jeff Lawler
Purchaser: Coffeyville Resources

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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 #: _____
9/27/2011 10/2/2011 10/20/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 147-20,649-00
Spot Description: _____
SW NE SE NE Sec. 12 Twp. 4 S. R. 20 East West
1,800 Feet from North / South Line of Section
550 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Phillips
Lease Name: Zillinger Well #: 1-12
Field Name: Wildcat
Producing Formation: LKC
Elevation: Ground: 2034 Kelly Bushing: 2042
Total Depth: 3630 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 222.42 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1633 Feet
If Alternate II completion, cement circulated from: 1633
feet depth to: Surface w/ 270 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 12,000 ppm Fluid volume: 320 bbls
Dewatering method used: Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____
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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: [Signature]
Title: Progr Date: 2/14/2012

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: Dg Date: 2/28/12

Operator Name: Black Diamond Oil, Inc. Lease Name: Zillinger Well #: 1-12
 Sec. 12 Twp. 4 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: Micro, Neutron/Density & Dual Induction	<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>1614</td> <td>+428</td> </tr> <tr> <td>Topeka</td> <td>3011</td> <td>-969</td> </tr> <tr> <td>Heebner</td> <td>3208</td> <td>-1166</td> </tr> <tr> <td>Lansing KC</td> <td>3252</td> <td>-1210</td> </tr> <tr> <td>Base KC</td> <td>3458</td> <td>-1416</td> </tr> <tr> <td>Arbuckle</td> <td>3557</td> <td>-1515</td> </tr> </table>	Name	Top	Datum	Anhydrite	1614	+428	Topeka	3011	-969	Heebner	3208	-1166	Lansing KC	3252	-1210	Base KC	3458	-1416	Arbuckle	3557	-1515
Name	Top	Datum																				
Anhydrite	1614	+428																				
Topeka	3011	-969																				
Heebner	3208	-1166																				
Lansing KC	3252	-1210																				
Base KC	3458	-1416																				
Arbuckle	3557	-1515																				

CASING RECORD <input 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 Pipe	12 1/4	8 5/8	23	222.42	Common	150	2%Gel&3%CC
Production St.	7 7/8	4 1/2	10.5	3498	Common	155	10%Salt-6%Gilsonite
		Port Collar		1633		270	QMCD

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
4	3398-3402	250 15% MCA, 1000 gals 20% NE	
1 Each	3326-27	1000 Gals 15% MCA	
1 Each	3305, 3302,3287	1000 Gals 15% MCA	

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TUBING RECORD: Size: <u>2 3/8</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>11/15/2011</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 Bbls. <u>10</u>	Gas Mcf <u>0</u> Water Bbls. <u>45</u> Gas-Oil Ratio _____ Gravity <u>32</u>

DISPOSITION OF GAS: <input checked="" 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 checked="" 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: <u>3402-3287</u>
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 5003

Date	9-27-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Phillips	Well No.	1-12		Location		Lagon 1E 3N 1E 3N	
Contractor	Discovery Drilling Rig				Owner			
Type Job	Surface				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	12 1/4	T.D.	222		Charge To			
Csg.	8 5/8 23 1/2	Depth	222		Black Diamond Oil			
Tbg. Size	Depth		Street					
Tool	Depth		City State					
Cement Left in Csg.	10-15		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace		1341361		Cement Amount Ordered 150 Common			
EQUIPMENT								
Pumptrk	5	No.	Cementer		3cc 28 but			
			Helper	Shoup	Common 150			
Bulktrk	12	No.	Driver	Craig	Poz. Mix			
			Driver	Craig	Gel. 3			
Bulktrk		No.	Driver	Craig	Calcium 5			
			Driver	Craig	Hulls			
JOB SERVICES & REMARKS								
Remarks:					Salt			
Rat Hole					Flowseal			
Mouse Hole					Kol-Seal			
Centralizers					Mud CLR 48			
Baskets					CFL-117 or CD110 CAF 38			
D/V or Port Collar					Sand			
Cement did Circulate					Handling 15 1/8			
					Mileage			
FLOAT EQUIPMENT								
					Guide Shoe			
					Centralizer			
					Baskets			
					AFU Inserts			
					Float Shoe			
					Latch Down			
					RECEIVED			
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					Pumptrk Charge Surface			
					Mileage 67			
					Tax			
					Discount			
					Total Charge			
Signature <i>[Signature]</i>								

QUALITY OILWELL CEMENTING, INC.

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

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

No. 204

Date	1/3/12	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Zillinger	Well No.	1-12	Location	Login, N to Thunder Rd, 2E, 1/2 S, W, into			
Contractor	Gaschler Pulling Service			Owner	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.			
Type Job	Port Collar			Charge To	Black Diamond			
Hole Size	T.D.			Street				
Csg. Size	4 1/2"			Depth				
Tbg. Size	2 3/8"			Depth				
Tool	Port Collar			Depth	1633'			
Cement Left in Csg.	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace			Cement Amount Ordered 350 @ -MOC 1/4 # Floeek				
EQUIPMENT				Used 270				
Pumptrk	9	No.	Cementor Helper	Paul				
Bulktrk	12	No.	Driver	Matt				
Bulktrk	PV	No.	Driver	Doug				
JOB SERVICES & REMARKS				Calcium				
Remarks:				Hulls				
Rat Hole				Salt				
Mouse Hole				Flowseal 87#				
Centralizers				Kol-Seal				
Baskets				Mud CLR 48				
DN or Port Collar				1633'				
Pressure Casing to 800#				CFL-117 or CD110 CAF 38				
Open Port Collar				Sand				
Mix 270 sr to Circulate Cement				Handling 350				
Displace				Mileage				
Close Tool Pressure to 800#				FLOAT EQUIPMENT				
Run 5 Jts Wash Tool Clean				Guide Shoe				
				Centralizer				
				Baskets				
				AFU Inserts				
				Float Shoe				
				Latch Down				
				RECEIVED				
				FEB 21 2012				
				KCC WICHITA				
				Pumptrk Charge port Collar				
				Mileage 166				
				Tax				
				Discount				
				Total Charge				
X Signature				Doc Bell				

QUALITY OILWELL CEMENTING, INC.

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

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

No. 5179

Date	10-3-11	Sec.	12	Twp.	4	Range	20	County	Phillips	State	Ks	On Location		Finish	8:00 PM
Lease	Zillinger	Well No.	1-12		Location							Speed Ks - Approx. 4N to Thunder Rd,			
Contractor	Discovery #1				Owner							6-MW, 35 Warts			
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.		3630'		Charge To							Black Diamond	
Csg.	4 1/2"		Depth		3579'		Street								
Tbg. Size			Depth				City							State	
Tool	Post Collar				Depth		1669' #47		The above was done to satisfaction and supervision of owner agent or contractor.						
Cement Left in Csg.	19.10'		Shoe Joint		19.10'		Cement Amount Ordered							200 sx Common 10% Salt, 5%	
Meas Line			Displace		56 1/2 BLS		Gelsolite. Ses gel mud Clear 485								

EQUIPMENT

Pumptrk	1	No.	Cementor	Cisco	Common
Bulktrk	8	No.	Driver	MIKE	Poz. Mix
Bulktrk	p.u.	No.	Driver	RICK	Gel.

JOB SERVICES & REMARKS

Remarks	Customer capable like KCC.	Hulls
Rat Hole	30 SX on next well	Salt
Mouse Hole	30 SX 15 SX	Flowseal
Centralizers	180 SX #3, 5, 7, 9, 11, 48	Kol-Seal
Baskets	#2 - #47	Mud CLR 48
D/V or Port Collar	#47 - 1669'	CFL-117 or CD110 CAF 38
	pipe on bottom, break Circulation	Sand
	pump Ses gel mud Clear 48	Handling
	plug Rathole w/ 130 SX	Mileage
	plug Mousehole w/ 15 SX	
	Cement 4 1/2" casing w/ 15 SX	
	Cement shut down wash pump + lines	
	Released plug & Displaced with 56 1/2 BLS.	
	Released & Float held	

FLOAT EQUIPMENT

Guide Shoe	1
Centralizer	6 turbo's
Baskets	2
AFU Inserts	
Float Shoe	
Latch Down	1 - Rotating head Assy
	1 - Post Collar
	1 - Rubber plug
Pumptrk Charge	
Mileage	

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Lift pressure	600 #	Tax
Land plug to	1100 #	Discount
Signature	Joe [Signature]	Total Charge

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

DAILY DRILLING REPORT

WELL NO. 43-5
 COMPANY Blackdiamond OIL INC.
 DISTRICT

CONTRACTOR Discovery Drilling Co. Inc.
 LEASE Zillinger
 COUNTY Phillips STATE KS

DATE MON 10-3-11
 WELL NO 1-12
 HOLE NO 1
 D.P. STRING NO SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3630	R/A	Arbuckle				Kenny Jones	8
		(8 HRS Laydown)				Mike Baller	8
						Casey Jones	8
BLOPE TEST		ACCIDENT: (GIVE NAME)					
DST#3		15-30 REC 1800' MW					
DST#4		3204-3260					
DST#4		30-45				Terry Jones	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
HEAVY NO	2	WEIGHT		DST#3	4	SIZE D.P.	
SIZE	7/8 RR	WISC		DST#4	4	SIZE LOG	
MARK	6x200	WTR LOSS C.C.		OTHER		ITS D.P.	
SERIAL NO	5195994	FILTER CAGE		ALPHAB		ABLY DOWN	
DEPTH IN	222	PH		TRIP		CULLARS	
HOURS RUN	63 1/2	MTL. ADDED (REMARKS)		TOTAL		TOTAL	

1100-1200 TRB 1200-200 OUTW/IN 200-300 R/V MAK LAY DOWN
 300-430 WOT/MAKE UP TOOL 430-530 IN W/TOOL 530-700 TOB

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3630	R/A	Arbuckle				LARRY MILLER	8
						JUSTIN BUNTING	8
						ANDREW BENEDICK	8
BLOPE TEST		ACCIDENT: (GIVE NAME)					
		(8 HRS Laydown)				STAN LOVELADY	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
HEAVY NO		WEIGHT	9.6	CIRC	1 1/2	SIZE D.P.	DESLO-2
SIZE		WISC	9.2	DST#4	3	SIZE LOG	LIG-3
MARK		WTR LOSS C.C.	8.8	OTHER	3/4	ITS D.P.	S.ASH-2
SERIAL NO		FILTER CAGE	1/32	ALPHAB		ABLY DOWN	
DEPTH IN		PH	9.0	TRIP IN W/BIT	1 1/4	CULLARS	
HOURS RUN		MTL. ADDED (REMARKS)		LAY DOWN DP	1 1/2	TOTAL	

7:00-8:30 DB W/DST#4 8:30-9:30 TRIP OUT W/TOOL 9:30-10:00 BREAK LAY DOWN TOOL, ANCHOR
 + TAIL PIPE 10:00-10:45 WAIT ON ORDER 10:45-12:00 TRIP IN W/BIT 12:00-1:30 C.T.H.C 3630 1:30-3:00 LAY DOWN DP

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3630	R/A	Arbuckle				CHUCK DICK	8
		(5 1/2 HRS Laydown)				GEORGE LOVELADY	8
		PIPE SET @ 3590 G.L. 3598 K.B.				RYAN LOVELADY	8
BLOPE TEST		ACCIDENT: (GIVE NAME)					
		PORT COLLAR @ 1669'					
JOB COMPLETE @ 8:00 P.M. 10/3/11							
Rig RELEASED @ 8:30 P.M. 10/3/11						STAN LOVELADY	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
HEAVY NO		WEIGHT		LAY DOWN	1 1/4	SET SLIPS 1	
SIZE		WISC		CHANGE @ 90		TEAR DOWN 2 1/2	
MARK		WTR LOSS C.C.		UNLOAD @ 11	1/2	ITS D.P.	
SERIAL NO		FILTER CAGE		REPAIR @		ABLY DOWN	
DEPTH IN		PH		CIRCL @	1 1/2	CULLARS	
HOURS RUN		MTL. ADDED (REMARKS)		CEMENT @	2 1/4	TOTAL	

3:00-3:15 LAY DOWN DP 3:15-3:45 UNLOAD 4 1/2 CASING AND TAIL 3:45-4:15 LAY DOWN DP
 4:15-4:45 LAY DOWN DC 4:45-5:45 CHANGE OVER TO RUN 4 1/2 CASING 5:45-6:45 RUN 4 1/2 CASING
 6:45-7:15 CIRC 4 1/2 7:15-8:00 CEMENT 4 1/2 8:00-8:30 SET SLIPS 8:30-11:00 TEAR DOWN TOOLS

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DAILY DRILLING REPORT

Form 43-5 (Rev. 11-29-11)

CONTRACTOR

Discovery Drilling Co. Inc.

DATE 5/11
10-2-11

COMPANY

Blackdiamond Oil Inc

Zillinger

WELL NO

1-12

RUN NO

1

DISTRICT

COUNTY

Phillips

KS

D. H. BIRING NO

WELL

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES	NAME	HRS
3630		RTD				Kenny James	8
3629		LTD				mike Bolter	8
						Casey James	8
SLOPE TEST		ACCIDENT: (GIVE NAME)					
		DST #1					
		30-45-30-45					
		(8 HRS Day work)					
						(102) Terry James	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
SIZE	2 7/8 RR	WEIGHT		LOSSING	1 1/2	SIZE OF P	
MARK	GX20C	VISC		CORING		SIZE OF S	
SERIAL NO	5195994	WTR LOSS %		OTHER	DST #1 65M	SIZE OF P	
DEPTH IN	222	FILTER LANE		REPAIRS		SIZE OF S	
HOURS RUN	63 1/2	PH		TRIP		SIZE OF S	
MFL ADDED (REMARKS)							

1100-1215 Logging 1215-2000 2000-4000 4000-4500 4500-630 1005
630-700 OVI & TOOL

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES	NAME	HRS
3630					800	Larry Mlinck	8
						Justin Bastian	8
						Ryan Lovelady	8
SLOPE TEST		ACCIDENT: (GIVE NAME)					
		DST #1 3265-3345					
		Rec 2' O.I. 298 OCM					
		DST #2 3310-3438				(132) S. J. Rouse	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
SIZE	2 7/8 RA	WEIGHT		LOSSING	1 1/2	SIZE OF P	
MARK	GX20C	VISC		CORING		SIZE OF S	
SERIAL NO	5195994	WTR LOSS %		OTHER	DST #1	SIZE OF P	
DEPTH IN	222	FILTER LANE		REPAIRS		SIZE OF S	
HOURS RUN	63 1/2	PH		TRIP		SIZE OF S	
MFL ADDED (REMARKS)							

7:00-6:00 Pull Test. Overhaul & Lay down tool & cleanup. 9:00-10:00 Trip out
Bit. 12:00-12:30 CAT. 12:30-1:30 80' bit & 1:30-2:00 11300 ft on Pipe
2:00-2:30 Trip out Test Tool

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES	NAME	HRS
3310	3438	DST #2 LKC C-J	45-60	45-60		CHUCK DICK	8
		REC-15' CO. 62' OCM				GEORGE LOVELADY	8
3204	3210	DST #3 Torpedo	15-30			RYAN LOVELADY	8
SLOPE TEST		ACCIDENT: (GIVE NAME)					
		(8 HRS Day work)					
						(102) STAN LOVELADY	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
SIZE	2 7/8 RR	WEIGHT		DST #2	5	SIZE OF P	
MARK	GX20C	VISC		DST #3	3	SIZE OF S	
SERIAL NO	5195994	WTR LOSS %		OTHER		SIZE OF P	
DEPTH IN	222	FILTER LANE		REPAIRS		SIZE OF S	
HOURS RUN	63 1/2	PH		TRIP		SIZE OF S	
MFL ADDED (REMARKS)							

3:00-6:30 OB w/DST #2 6:30-7:30 Trip out w/tool 7:30-8:00 Break down Tool + Ammeter + Tail pipe
8:00-9:00 Tester Reset Tool intercoms. 9:00-9:30 Make up tool + Ammeter Tail pipe 9:30-10:30 Trip in
w/tool 10:30-11:00 OB w/DST #3

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DAILY DRILLING REPORT

HEADQUARTERS 43-5

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

SAT. 10-1-11

COMPANY

Black diamond oil INC.

LEASE

Zillinger

WELL NO.

1-12

HOLES

1

DISTRICT

COUNTY

Phillips

STATE

Ks

UTILITY NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS.	NAME	HRS
3370	3531	Lime	80	4000	800	Kenny Jones	8
						Mike Bolter	8
						Casey Jones	8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DUG OFF						Terry Jones	8

BIT AND OVERHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
NO. OF BITS	2	WEIGHT	9.4	DRILLING	7 1/2	WELL P.	
SIZE	7 3/8 RR	INCH	70	LOGGING CONN	1 1/2	SIZE	
MAKE	6X200	WIRE LOSS		OTHER	VRIG 1/2	IN HP	
SERIAL NO.	5195994	FILTER CAKE		TRIP		WELL P.	
DEPTH IN	222	MTL. ADDED (REMARKS)				WELL P.	
DEPTH OUT	59 1/2					WELL P.	
TOTAL HOURS						TOTAL	HOURS 15

REMARKS 1100-1200 Drill 1250-1215 ex 3392 VRIG 1215-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS.	NAME	HRS
3531	3630	Shale + lime	80	1000	800	Larry Mlinck	8
						Justin Burt	8
						Andrew Burt	8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DUG OFF		(3 1/2 HRS Damage)				Sgt 15 mins	8

BIT AND OVERHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
NO. OF BITS	2	WEIGHT	9.4	DRILLING	1 1/2	WELL P.	
SIZE	7 3/8 RR	INCH	83	LOGGING CONN	1 1/2	SIZE	
MAKE	6X200	WIRE LOSS		OTHER		IN HP	
SERIAL NO.	5195994	FILTER CAKE		TRIP	Short 1/2	WELL P.	
DEPTH IN	222	MTL. ADDED (REMARKS)			3	WELL P.	
DEPTH OUT	63 1/2					TOTAL	

REMARKS 7:00 TO 7:15 DRILL 7:15 TO 8:00 Selfie 8:00 TO 8:15 8:15 TO 8:30 8:30 TO 8:45 8:45 TO 9:00 9:00 TO 9:15 9:15 TO 9:30 9:30 TO 9:45 9:45 TO 10:00 10:00 TO 10:15 10:15 TO 10:30 10:30 TO 10:45 10:45 TO 11:00 11:00 TO 11:15 11:15 TO 11:30 11:30 TO 11:45 11:45 TO 12:00

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS.	NAME	HRS
3629	LTD					* LARRY MLINCK	8
						GEORGE LOVELADY	8
						RYAN LOVELADY	8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DUG OFF		(8 HRS Damage)				STAN LOVELADY	8

BIT AND OVERHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
NO. OF BITS	2	WEIGHT	9.4	DRILLING	2	WELL P.	
SIZE	7 3/8 RR	INCH		LOGGING CONN	1 1/2	SIZE	
MAKE	6X200	WIRE LOSS		OTHER		IN HP	
SERIAL NO.	5195994	FILTER CAKE		TRIP	Short P/Loc 1 1/2	WELL P.	
DEPTH IN	222	MTL. ADDED (REMARKS)			Logging 3	WELL P.	
DEPTH OUT	63 1/2					TOTAL	

3:00-5:00 SHORT TRIP 49 STANDS 5:00-6:30 CAST 6:30-8:00 TRIP OUT w/BIT FOR LOG 8:00-11:00 Logging - CHANGE Dis. in Pump + DUCKS motor - Replace High Clutch pap OFF -

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DAILY DRILLING REPORT

Form 43-5

CONTRACT FOR
Discovery Drilling Co. Inc.

DATE
9-30-11

COMPANY
Blackdiamond Oil Inc.

LEASE
Zillinger

WELL NO
1-12

REC'D
1

COUNTY
Phillips

STATE
KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
2890	3080	Shale + Lime	80	40,000	800	Kenny, James	8
						Mike Baker	8
						Casey, James	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STRING RECORD	
SIZE	2	WEIGHT		DRILLING	7 1/2	DRILL	
TYPE	73 RR	VIN		CONV	1/2	DRILL	
MARK	GX20C	WATER LOSS		V.BIG	1/4	DRILL	
SERIAL NO	5195994	FOULING				DRILL	
DEPTH IN	222	REMARKS				DRILL	
LOGS IN	40	MIL. ADDED				DRILL	

REMARKS 11:00-12:00 Drill 12:00-12:15 12:15-12:21 V.BIG 12:25-2:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3080	3265	Shale + Lime	80	40,000	800	Looney, M. L.	8
						Justin Broussard	8
						Andrew Broussard	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STRING RECORD	
SIZE	2	WEIGHT	9.2	DRILLING	7 1/2	DRILL	
TYPE	73 RR	VIN	100	CONV	1/2	DRILL	
MARK	GX20C	WATER LOSS		OTHER		DRILL	
SERIAL NO	5195994	FOULING				DRILL	
DEPTH IN	222	REMARKS				DRILL	
LOGS IN	47 1/2	MIL. ADDED				DRILL	

REMARKS 7:00 to 8:00 Drill 8:00 to 8:15 Pump + V.R., 8:15 to 3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3265	3370	SHALE + LIME	80	40,000	800	CHUCK DICK	8
						GEORGE LOVELADY	8
						RYAN LOVELADY	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STRING RECORD	
SIZE	2	WEIGHT	9.2	DRILLING	5	DRILL	
TYPE	7 1/2 RR	VIN	74	CONV	1/2	DRILL	
MARK	GX20C	WATER LOSS	70	Rig	1/2	DRILL	
SERIAL NO	5195994	FOULING				DRILL	
DEPTH IN	222	REMARKS				DRILL	
LOGS IN	52 1/4	MIL. ADDED				DRILL	

REMARKS 3:00-4:30 Drly. 4:30-5:45 CFS @ 3245 5:45-6:00 Rig @ 3297 6:00-8:15 Drly. 8:15-9:15 CFS @ 3342 9:15-11:00 Drly.

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DAILY DRILLING REPORT

Form 43-5 (REVISED 1-1-79)

CONTRACTOR

Discovery Drilling Co., Inc.

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9-29-11

COMPANY

Black diamond oil INC

LEASE

Zillinger

WELL NO.

1-12

SEC NO.

1

COUNTY

Phillips

STATE

KS

U.S. SURVEY NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS		NAME	HRS
1495	2373	Shale	80	35,000	700	DM	Kenny Jones	8
						CM	Mike Bolter	8
						"	Casey Jones	8

102 Terry Jones 8

BIT AND COREHEAD RECORD		MUD RECORD			TIME RECORD		DRILL STEM RECORD	
SIZE	2	WEIGHT		DRILLING	6 1/4	SIZE	6 1/4	
TYPE	7 3/8 RD	WATER		CONN	1	TYPE	CAU	
MASK	Gx 20C	W/TE LOSS		OTHER	VRIG 1/4	TYPE	2 3/4	
SERIAL NO.	5195994	W/TE LOSS		REPAIRS		TYPE	2 3/4	
DEPTH	222	W/TE LOSS		TRIP	1/2	TYPE	1 1/2	
REMARKS	19 3/4	MFL ADDED (REMARKS)				TYPE	1 1/2	

REMARKS 1100-1115 @ 2009 VRIG 1115-1245 Drill 1245-100 @ 2103 J-1 #2 100-445 Drill 445-500 @ 2242 Jet #1 500-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS		NAME	HRS
2373	2643	Shale	80	35,000	700	DM	Larry Minick	8
						"	Just in Bunting	8
						"	Andrew Benedick	8

BIT AND COREHEAD RECORD		MUD RECORD			TIME RECORD		DRILL STEM RECORD	
SIZE	2	WEIGHT	9.0	DRILLING	6	SIZE	GEL 10	
TYPE	7 3/8 RD	WATER	0.5	CONN	3/4	SIZE	CAUST-1	
MASK	Gx 20C	W/TE LOSS	76	OTHER	1/4	SIZE	1 1/2	
SERIAL NO.	5195994	W/TE LOSS	115	REPAIRS		SIZE	DRIS-14gk	
DEPTH	222	W/TE LOSS	115	TRIP	1	SIZE	14gk	
REMARKS	25 3/4	MFL ADDED (REMARKS)				SIZE	14gk	

REMARKS 1:00:00 ZUS. Ser. # 2385. 2150-8:45 Drill. 8:45-10:00 Jet # 20. 2145 9:00-9:30 Drill. 9:30-10:45 Jet # 1. 2480. 2150-12:15 Drill. 12:15-12:57. Chn Ser. # 12150-115 Drill. 1150-1130 Jet #1 (Coiled 2250) 12:00-3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS		NAME	HRS
2643	2890	SHALE	80	40,000	750	DM	CHUCK DICK	8
						CM	GEORGE LOVELADY	8
						"	RYAN LOVELADY	8

BIT AND COREHEAD RECORD		MUD RECORD			TIME RECORD		DRILL STEM RECORD	
SIZE	2	WEIGHT	9.0	DRILLING	7	SIZE		
TYPE	7 3/8 RR	WATER	100	CONN	3/4	SIZE		
MASK	Gx 20C	W/TE LOSS		OTHER	1/4	SIZE		
SERIAL NO.	5195994	W/TE LOSS		REPAIRS		SIZE		
DEPTH	222	W/TE LOSS		TRIP		SIZE		
REMARKS	32 3/4	MFL ADDED (REMARKS)				SIZE		

REMARKS 3:00-3:45 Delq. 3:45-4:00 Riq # 2668 4:00-11:00 Delq.

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Form 43-5
 COMPANY

CONTRACTOR

Discovery Drilling Co. INC.
 Blackdiamond OIL INC
 Zillinger
 Phillips
 KS

Wed

DATE 9-28-11
 WELL NO 1-12
 REC NO 1

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
222	502	Sand & shale	90	15000	600	Kenny Jones	8
						Mike Bolter	8
						Casey Jones	8
						Tavvy Jones	8

BIT AND OVERHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
SIZE	2	WEIGHT		DRILLING	3	COLLARS	
MARK	7 7/8 RR	VISC		CONV	3 1/2		
SERIAL NO	6x20C	WEIR LOSS		WOC	4		
DEPTH IN	5195994	FILTER LOSS		REPAIRS			
DEPTH OUT	222	PH		TRIP			
DEPTH IN	3	MTL ADDED REMARKS		TRIP	1/2		

REMARKS 1100 - 300 WOC @ 222 30 - 65 Drill L @ 471 Jet 1 630 - 700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
502	1215	Shale + Sand	90	30000	650	Louis Mlinin	8
1215	1315	Sand	80	15000	650	Py...	8
1315	1502	Sand + Shale	90	30000	650	Anders...	8
						Syl Bone	8

BIT AND OVERHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
SIZE	2	WEIGHT		DRILLING	4 1/2	COLLARS	50
MARK	7 7/8 RR	VISC		CONV	4 1/2		
SERIAL NO	6x20C	WEIR LOSS		WOC	4		
DEPTH IN	5195994	FILTER LOSS		REPAIRS			
DEPTH OUT	222	PH		TRIP			
DEPTH IN	794	MTL ADDED REMARKS		TRIP	1/2		

REMARKS 2:00-2:15 Sec 5 y @ 533 2:15-2:11:15 Drill 11:15-7:0-11:30 Jet 1 @ 1034 11:30-2:15 Drill 11:50-2:00 Jet 1 @ 1381 2:00-2:30 @ 1381

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
1502	1615	SAND + SHALE	90	30,000	650	CHUCK DICK	8
1615	1646	ANHYDRITE	80	35,000	650	GEORGE LOVELADY	8
1646	1995	SHALE	90	35,000	700	RYAN LOVELADY	8
						STAN LOVELADY	8

BIT AND OVERHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
SIZE	2	WEIGHT		DRILLING	5 3/4	COLLARS	50
MARK	7 7/8 RR	VISC		CONV	1 1/2		
SERIAL NO	6x20C	WEIR LOSS		Rig	1/4		
DEPTH IN	5195994	FILTER LOSS		REPAIRS			
DEPTH OUT	222	PH		TRIP			
DEPTH IN	13 1/2	MTL ADDED REMARKS		TRIP	1/2		

REMARKS 3:00-3:15 Rig @ 1506 3:15-6:00 Drly. 6:00-6:15 Jet 1 @ 1674 6:15-9:15 Drly. 9:15-9:32 Jet 1 @ 1915 9:32-11:00 Drly.

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DAILY DRILLING REPORT

NO. 43-5

CONTRACTOR

Discovery Drilling Co. Inc.

TUES

9-27-11

J.D. FARMER, Inc.

ARCHER B

PHILLIPS

KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
2600	610	(3 1/4" HCS Nipple)				KENNY JONES	8
						MIKE BOLLEV	8
						CASBY JONES	8
SCOPE TEST		ACCIDENT (NAME)		TIME RECORD			
		JOB COMPLETE @ 1:45 A.M.				(110) TERRY JAMES 8	
		RIG RELEASE @ 2:15 A.M.					
MUD RECORD		MUD RECORD		MUD RECORD		MUD RECORD	
		MUD RECORD		MUD RECORD		MUD RECORD	

11:00-12:15 VVN 5 1/2 12:15 100 GALLS. 100 145 CEMENT 5/2 145 625
 SETS LPS @ 1:15-7:00 TEAM DOWN

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
0						LARRY MURKIN	8
						JUST MURKIN	8
						ANDREW MURKIN	8
SCOPE TEST		ACCIDENT (NAME)		TIME RECORD			
						(130) SYL MURKIN 8	
MUD RECORD		MUD RECORD		MUD RECORD		MUD RECORD	
		MUD RECORD		MUD RECORD		MUD RECORD	

7:00 TO 12:30 LAST DAY OUT WAVE TO 2070 3:00 P. SUP ON BLACK DIAMOND
 OIL INC. ZILLINGER #1-12

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
0	222	SAND, SHALE & CLAY	100	ALL	550	CHUCK DICK	12
						GEORGE LOVELADY	12
						RYAN LOVELADY	12
SCOPE TEST		ACCIDENT (NAME)		TIME RECORD			
222		SPUD 12:4 @ 3:15 A.M. 9/27/11				(102) STAN LOVELADY 12	
MUD RECORD		MUD RECORD		MUD RECORD		MUD RECORD	
		MUD RECORD		MUD RECORD		MUD RECORD	

3:00-3:15 DEL. + SET RIG. 3:15-5:45 DEL. SURFACE HOSE 5:45-6:00 CIRC. CALLS 6:00-6:30
 6:30-6:45 TRIP OUT (RUN P.S. 6:30-6:45) 6:45-7:00 CEMENT 8 1/2 7:00-11:00
 WOC.

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