

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 7076  
Name: Black Diamond Oil, Inc.  
Address: P.O. Box 641  
City/State/Zip: Hays, KS 67601  
Purchaser: Coffeyville Resources  
Operator Contact Person: Kenneth Vehige  
Phone: (785) 625-5891  
Contractor: Name: Discovery Drilling Co., Inc.  
License: 31548  
Wellsite Geologist: Kenneth Vehige

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, 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./SWD

Plug Back  Plug Back Total Depth

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_

<u>2/3/2009</u>	<u>2/8/2009</u>	<u>2/25/2009</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 163-23,794-00-00

County: Rooks

NE NW NW Sec. 8 Twp. 6 S. R. 19  East  West

330 feet from S / (N) (circle one) Line of Section

790 feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE (NW) SW

Lease Name: Rocken 3 Farms Well #: 1

Field Name: Wildcat

Producing Formation: LKC

Elevation: Ground: 2068 Kelly Bushing: 2076

Total Depth: 3551 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 211.49 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1640 Feet

If Alternate II completion, cement circulated from 1640

feet depth to Surface w/ 170 sx cmt.

Drilling Fluid Management Plan Ait II NR 5-1-09  
(Data must be collected from the Reserve Pit)

Chloride content 16,000 ppm Fluid volume 240 bbls

Dewatering method used Hauled free fluid

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: Black Diamond Oil, Inc.

Lease Name: Vehige #1 SWD License No.: 7076

Quarter SW Sec. 33 Twp. 6 S. R. 20  East  West

County: Rooks Docket No.: D-23,315

**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.

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: President Date: 4-9-09

Subscribed and sworn to before me this 9th day of April

20 09

Notary Public: [Signature]

Date Commission Expires: 5/2/2011

**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

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Operator Name: Black Diamond Oil, Inc. Lease Name: Rocken 3 Farms Well #: 1  
 Sec. 8 Twp. 6 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

**Dual Induction, Neutron/Density, Micro & Gamma Ray Correlation**

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	1650	+429
Topeka	3050	-971
Heebner	3247	-1168
Lansing KC	3287	-1208
Base KC	3496	-1417
Granite Wash	3540	-1461

**CASING RECORD**  New  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 #	211.49	Common	150	2%Gel&3%CC
Production St.	7 7/8	4 1/2	9.5	3550	EA/2	200	
Port Collar				1640			

**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 checked="" type="checkbox"/> Plug Off Zone	3380	STD	50	

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
1	3455, 3442, 3435, 3412	1500 gals 15% MCA & 50 sks STD cmt.	
1	3370, 3362, 3228, 3291	1000 gals 15% MCA & 2000 gals 20% NE	
4	3454-56, 3441-43, 3434-36, 3411-13		

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**TUBING RECORD** Size 2 3/8 Set At 3510 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumerd Production, SWD or Enhr. 2/26/2009 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20	0	10		31

Disposition of Gas \_\_\_\_\_ **METHOD OF COMPLETION** \_\_\_\_\_ Production Interval \_\_\_\_\_

Vented  Sold  Used on Lease (If vented, Submit ACO-18.)  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_  
 Other (Specify) \_\_\_\_\_

**JOB LOG**

**SWIFT Services, Inc.**

DATE 02/19/09 PAGE NO. 2

CUSTOMER BLACH DIAMONDS WELL NO. 1 LEASE POKON 3 FARMS JOB TYPE CMT: PORT COLLAR TICKET NO. 15323

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1325							Run P.C. Tool
								2 3/8 x 4 1/2 Port Collar @ 1690 ft
	1411							Locate P.C.
	1420					1000	1000	PSI TEST
	1423							Open P.C.
	1425	2.5	3.0	✓		250		INS. PORT
	1430	3.0	0	✓		350		START CMT @ 11.2" SAND 1/4" FLOCCLE
		3.5	4.0	✓		350		TO CIRC MUD
			790	✓				CIRC CMT TO PIT
			880	✓				MIX 1/2" CMT
	1450		0	✓				START DISQ
	1453		55	✓		400		END
								CLOSE P.C.
	1455						1000	PSI TEST 16 hrs!
								Run in 5 JOINTS
	1505	25	0	✓		400		Run out
			60	✓				1ST FLAG
			90	✓				2ND FLAG
	1515		220	✓				ALL CLEAN
								TOTAL CMT 170 SMS
								20 SMS TO PIT!
								WTS (0)
								JOB COMPLETE
								THANK YOU!
								DAVE, JOSEPH, SCOTT

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JOB LOG

SWIFT Services, Inc.

DATE 12-19-09 PAGE NO. 1

CUSTOMER PRACHINIANO, JO WELL NO. 1 LEASE WICKEN 3 FARMS JOB TYPE 50 PERKS TICKET NO. 15323

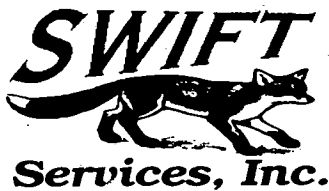
CHART NO.	TIME	RATE (BPM)	VOLUME (BBB) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							ORIENTATION 2 3/8" x 1 1/2" 95" PBP 3400, PERKS SW-3871703369
	0820							SWAB OUT
	0845		15.0	✓				PULL HOLE, CIRC COL OUT PERKS PAPER 3171
	0915			✓		1500		TEST TOOLS P23400, PAPER 3392 HOLD
	0930		12.0	✓				SWAB AND 15W, PAPER 3375 PULL HOLE TO 3171 TO SW
	1010		1.8		✓		450	LOAD AIR
	1015	20	2.0	✓		600		TEST RATE 2.0 bpm @ 600, HOLD 200PSI
	1020	20	0	✓		600		START STD CMT 25SWS w/ ANLAD
		20	5.2	✓		600		" " " 25SWS
		20	10.6	✓		400		END TOTAL 50SWS
								WASH OUT PL
	1030	25	0	✓		0		START DRIP
		20	2.0	✓		300		CATCH CMT
		1.5	5.0	✓		450		CMT OVER PERKS
		10	6.0	✓		500		
		10	8.0	✓		550		
	1042	10	11.0	✓		550		STD DRIP, WATCHDOG HOLD 250PSI
		10	12.0	✓		550		CLEAR AIR
	1043	10	12.5	✓		550		STAGE HOLD 300PSI
	1045	10	13.0	✓		600		" " " HOLD 300PSI, CLOSE W
	1055							WASH OUT TOOLS
	1115	20	13.0	✓		300		OPEN TUG HOLD 300PSI
	1120		13.1	✓		500		BUMP UP PSI, STAGE HOLD 400
	1145		13.2	✓		600		" " " " 500
	1200		13.2	✓		800		" " " " 700
	1205		13.3	✓		1000		" " " " 1000
	1210		13.3	✓		1000		HOLDING 1000PSI 40SWS IN PERKS RELEASED BY
	1213	20	0	✓		400		REDUCT
		20	15.0	✓		400		ALL CLEAR
								PULL TOOLS OUT, TO DO POST CHECK

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CHARGE TO: *Redwood*  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 15373

PAGE 1 OF 1

SERVICE LOCATIONS 1. <i>NAAC</i>	WELL/PROJECT NO. 1	LEASE <i>3-1-09</i>	COUNTY/PARISH <i>Recon</i>	STATE <i>KS</i>	CITY	DATE <i>12-19-09</i>	OWNER
2. <i>APCS</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <i>GASCH 2 WELL</i>	SHIPPED VIA <i>C7</i>	DELIVERED TO <i>503w 21st West</i>	ORDER NO.	
3.	WELL TYPE <i>Oil</i>	WELL CATEGORY <i>Drilling</i>	JOB PURPOSE <i>SOAPS, CMT, PWT, COLLAB</i>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE		AMOUNT	
		LOC	ACCT	DF									
575		1			MILEAGE 4/12	60	mi			5.00		300	00
578		1			Pump Service	1	hr			1100.00		1100	00
236		1			NAAC	12	LB			6.50		78	00
233		1			20 - 10 SAID	1	SH			25.00		25	00
290		1			DAIR	2	Gal			35.00		70	00
325		2			STACMT	50	SH			12.00		600	00
330		2			SMO CMT	170	SH			15.00		2550	00
276		2			FLOCELE	59	LB			1.50		88	50
581		2			SERVICE CHARGE	335	SH			1.75		586	25
583		2			DRAYAGE	935	SH			1.50		1402	93

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**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *Redwood*  
 DATE SIGNED: *12-19-09* TIME SIGNED: *0800*  
 A.M.  
 P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				7,176	68
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *Dave* APPROVAL:

Thank You!

# ALLIED CEMENTING CO. LLC. 044214

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

SERVICE POINT: OGLET

DATE <u>2-3-09</u>	SEC <u>3</u>	TWP <u>6S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION <u>4.15 pm</u>	JOB START <u>7:30 pm</u>	JOB FINISH <u>8:00 pm</u>
LEASE <u>ROCKWELL 3 Farms</u>		WELL # <u>1</u>	LOCATION <u>nicodemus</u>		COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Discovery Rig 1

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 212'

CASING SIZE 4 1/2 DEPTH 211.49'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 12.51 BBL

OWNER same

CEMENT

AMOUNT ORDERED 150 SKS COM

390cc 290gel

COMMON <u>150 SKS</u>	@ <u>15.45</u>	<u>2317.50</u>
POZMIX	@	
GEL <u>3 SKS</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE <u>5 SKS</u>	@ <u>58.20</u>	<u>291.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>158 SKS</u>	@ <u>2.40</u>	<u>379.20</u>
MILEAGE <u>10<sup>mi</sup> SK/mile</u>		
TOTAL		

**REMARKS:**

Cement DO circulate

thank you

CHARGE TO: Black Diamond oil inc

STREET \_\_\_\_\_

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

**SERVICE**

DEPTH OF JOB 211.49'

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE @ 7.00

MANIFOLD @ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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# ALLIED

CEMENTING CO., LLC  
Cementing & Acidizing Services

## CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 2-3-09 District Oakley Ticket No. 044214  
 Company Black Diamond Rig Discovery 1  
 Lease Rocken 3 Farms Well No. 1  
 County Roos State KS  
 Location S-6s-19w Field \_\_\_\_\_  
McClintock E 10N E10W

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 8 7/8 Type new Weight 24 Collar \_\_\_\_\_

Casing Depths: Top KB Bottom 211.49

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 12 1/4 T.D. 212 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbbls/Lin. ft. 10.27 Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: water  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type Com Pacc  
20 gals Excess \_\_\_\_\_  
 Amt. 150 Sks Yield 1.18 ft<sup>3</sup>/sk Density 15.6 PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbbls.

Pump Trucks Used 423-281 Larene  
 Bulk Equip. 397 Darrin

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE [Signature]

CEMENTER Andrew

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
<u>4:15</u>						<u>on location</u>
						<u>Rig up safety meeting</u>
						<u>mix cement</u>
						<u>current in switch valves</u>
						<u>start displacement</u>
						<u>STOP Pumping</u>
						<u>Job complete</u>

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DAILY DRILLING REPORT

Keaton 43-5 DOK 800 TUL SA OK 74101  
1-800-351-7200

CONTRACTOR

Discover Drill

DATE

Tues.  
2-3-09

COMPANY

Black Diamond Oil Inc.

LEASE

Rocken 3 Farms

WELL NO.

1

TRC NO.

1

DISTRICT

COUNTY

Rooks

STATE

KS

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						Kenny Jones	8
						Stan Lovelady	8
						John Mehl	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.						
DEC. OFF							
						Terry Jones	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		THIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 700-300 Help set rig/rigup pump yard/sheds/act

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						Kerry Mlinek	8
						Randy Basgall	8
						Dusty Rozear	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.						
DEC. OFF							
						Swil Rome	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		THIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 7:00 TO 10:15 DOWN Rigs, 10:15 TO 2:00 Rigs up 2:00 TO 3:00 Drill For Hole

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
0	212	SAND-SHALE+Clay	120	All	500	Justin OunTING	8
						Chad Mayfield	8
						Justin Smith	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	212 FT.	Spud 3:00					
DEC. OFF							
						Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	2 1/2	SIZE D. P.	
SIZE	12 1/4	VISC.		CORING	Com 3/4	SIZE COLL.	
MAKE	MPSIA	WTR. LOSS-C.C.		OTHER	TD Run 8 1/2 3/4	JTS. D. P.	FT.
SERIAL NO.	JA1626	FILTER CAKE		REPAIRS	1/2	KELLY DOWN	FT.
DEPTH IN	0	PH.		THIP	1/4	COLLARS	FT.
HOURS RUN	2 1/2	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00-6:15 Orig 6:15-6:30 CTCH 6:30-7:15 Drap SS To/Rm 8 1/2 7:15 - 7:30 Circ 8 1/4  
7:30-7:45 Cement 8 1/2 7:45 - 11:00 WOC

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DAILY DRILLING REPORT

Form 43-5 BOK 850 TULSA OK 74101  
1-800-331-7290

CONTRACTOR: **Discovery Drilling Co INC.** DATE: **wed 2-4-09**  
 COMPANY: **Blackdiamond O, L Co** LEASE: **Rocken 3 Farms** WELL NO.: **1** RIS NO.: **1**  
 DISTRICT: **Books** COUNTY: **Ks** STATE: **Ks** D.P. STRING NO.: **1** SIZE: **1**

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
212	413	sand & shale	90	15000	500	Kenny Jones	8
						Stan Lovelady	8
						John Mehl	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEG.	OFF						

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	2 3/4	SIZE D. P.	2
SIZE	7 3/8 ER	VISC.		CORING CON	1 1/2	SIZE COLL.	
MAKE	GX 20C	WTR. LOSS C.C.		OTHER WOC	4 3/4	JTS. D. P.	
SERIAL NO	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	
DEPTH IN	212	PH.		TRIP		COLLARS	
HOURS RUN	2 3/4	MTL. ADDED (REMARKS)		TOTAL			

REMARKS: 1100-345 WOC @ 212 345-700 Dvill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
413	1170	Shale + sand	90	30+ 000	650	Larry Mlinek	8
1170	1373	Sand				Randy Bassett	8
1373	1544	Sand + Shale				Dusty Rozcan	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEG.	OFF						

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	1 1/4	SIZE D. P.	60-25
SIZE	7 3/8	VISC.		CORING CON	2 3/4	SIZE COLL.	100-1
MAKE	GX 20C	WTR. LOSS C.C.		OTHER	1/2	JTS. D. P.	16-1 FT
SERIAL NO	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	SASH-2
DEPTH IN	212	PH.		TRIP		COLLARS	DRIS V4SK
HOURS RUN	7	MTL. ADDED (REMARKS)		TOTAL			HULLS-2

REMARKS: 7:00 TO 7:15 Set R/L @ 1170, 7:15 TO 7:45 DRILL, 7:45 TO 8:00 JET #1 @ 500, 8:00 TO 11:15 DRILL, 11:15 TO 11:30 Set #1 @ 1007, 11:30 TO 11:45 DRILL, 11:45 TO 12:00 JET #1 @ 1170, 12:00 TO 3:00 DRILL

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1544	1654	SAND + SHALE	90	30,000	650	Justin Bunting	8
1654	1684	ANHYDRITE	80	35,000	650	Cory Adamson	8
1684	1950	SAND + SHALE	90	35,000	650	CHAD MAYFIELD	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEG.	OFF						

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	6 1/4	SIZE D. P.	50-Gel
SIZE	7 7/8	VISC.		CON	1 1/4	SIZE COLL.	2-C
MAKE	GX 20C	WTR. LOSS C.C.		OTHER RIG	1/4	JTS. D. P.	4-SA
SERIAL NO	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	2-L
DEPTH IN	212	PH.		TRIP		COLLARS	72-SK P/C
HOURS RUN	13 1/4	MTL. ADDED (REMARKS)		TOTAL			4-HULLS

REMARKS: 3:00-3:30 Delq, 3:30-3:45 RIG @ 1606, 3:45-7:15 Delq, 7:15-7:30 JET #1 @ 1732, 7:30-11:00 Delq

TOOL PUSHER APR 13 2009 RECEIVED

DAILY DRILLING REPORT

43-5 BOX 800, TULSA OK 74101  
1-800-351-7230

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

Thurs.  
2-5-09

COMPANY

Black Diamond Oil Co.

LEASE

Rocken 3 Farms

WELL NO.

RIG NO.

D.P. STRING NO.

SIZE

COUNTY

ROOKS

KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1950	2295	shale	80	3500	650	Kenny Jones	8
						Stan Lovelady	8
						John Mehl	8

SLOPE TEST: ACCIDENT: - (GIVE NAME)

DEC. OFF: 4 IN FRAC

TEVY JONES 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	6 1/2	SIZE D.P.	6el 25
SIZE	7 3/8 RB	VISC.		CORING	CON 1	SIZE COLL.	CAU 1
MAKE	GX200	WTR. LOSS-C.C.		OTHER	VRIG 1/4		
SERIAL NO.	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	SODA 2
DEPTH IN	212	PH.		TRIP			D.P. 2 1/2
HOURS RUN	19 3/4	MTL. ADDED (REMARKS)			Jet 1/4	TOTAL	Hulls 2

REMARKS: 1:00-1:15 Drill 1 1/2 1:30 VRIG @ 1981 1:30-2:30 Drill 12 3/4 @ 2044 Jet #1  
12 1/2 700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2295	2485	Shale	80	3500	700	Larry Mlinck	8
						Randy Bassall	8
						Dusty Pearson	8

SLOPE TEST: ACCIDENT: - (GIVE NAME)

DEC. OFF: FRAC FULL

Sy 1/3000

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	6 1/2	SIZE D.P.	GEL-38
SIZE	7 3/8 RB	VISC.		CORING	CON 1	SIZE COLL.	CAUST-2
MAKE	GX200	WTR. LOSS-C.C.		OTHER	VRIG 1/4	JTS. D.P.	LIG-1
SERIAL NO.	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	S. ASH-2
DEPTH IN	212	PH.		TRIP			D.P. 1/4 SK
HOURS RUN	26	MTL. ADDED (REMARKS)			Jet 1/2	TOTAL	Hulls-3

REMARKS: 7:00 TO 7:30 Drill 7:30 TO 7:45 Ser R's @ 2328, 7:45 TO 9:30 Drill 9:30 TO 9:45 Jet #1 @ 2421  
9:45 TO 2:15 Drill 2:15 TO 2:30 Jet #2 @ 2672, 2:30 TO 3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2685	2950	Shale	80	3500	700	Justin Bunting	8
						Cory Adamson	8
						Larry Mlinck	8

SLOPE TEST: ACCIDENT: - (GIVE NAME)

DEC. OFF: CHLOR 2000

Jason Showalter 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	8.8	DRILLING	6 1/4	SIZE D.P.	40-Gel
SIZE	7 3/8 RB	VISC.	56	CORING	LOW 3/4	SIZE COLL.	FL
MAKE	GX200	WTR. LOSS-C.C.	9.2	OTHER	VRIG 1/4	JTS. D.P.	1-C
SERIAL NO.	5146641	FILTER CAKE	1/2	REPAIRS		KELLY DOWN	2-SA
DEPTH IN	212	PH.	11.0	TRIP	PILAM 1/4		14-SK Pac
HOURS RUN	32 1/4	MTL. ADDED (REMARKS)			Jet 1/2	TOTAL	10-Hulls

REMARKS: 3:00-3:15 Rig @ 2703 3:15-6:00 vlg 6:00-6:15 Clean Section/Screen @ 2798  
6:15-6:30 Drly Displacing 6:30-6:45 Jet #1 displaced @ 2814 6:45-8:45 Drly 8:45-9:00 PUMP  
Set Sample Box 9:00-11:00 Drly

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KANSAS CORPORATION COMMISSION  
PUSHER

APR 13 2009

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DAILY DRILLING REPORT

Krahn 43-5 ROY: 808 TULSA OK 74101 1.800.341.2280

CONTRACTOR

Discovery Drilling Co. Inc

DATE

Fri. 2-6-09

COMPANY

Black Diamond Oil Co.

LEASE

Rocken 3 Farms

WELL NO.

1

RIS NO.

1

DISTRICT

COUNTY

ROCKS

KS

U. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2950	3152	Shale & Lime	80	4000	650T	Kenny Jones	8
						Stan Lovelady	8
						John Mehl	8

SLOPE TEST

ACCIDENT: - (GIVE NAME)

° FT. DEG. OFF

BIT AND COREHEAD RECORD

MUD RECORD

TIME RECORD

DRILL STEM RECORD

RUN NO.	SIZE	MAKE	SERIAL NO.	DEPTH IN	HOURS RUN	WEIGHT	WTR. LOSS-C.C.	FILTER CAKE	PH	DRILLING	CORING	OTHER	REPAIRS	TRIP	SIZE D. P.	SIZE COLL.	JTS. D. P.	KELLY DOWN	COLLARS	TOTAL
2	7 7/8 RR	GX20C	51416641	312	3 1/2	8.8	5 1/2			7 1/4	CON 1 1/2	VRIL 1/4								

REMARKS: 1100-1115 VRIL @ 2955 115-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3157	3300	Shale & Lime	80	4000	650T	Kerry M Linek	8
						Bonds Bussell	8
						Dusty Rozman	8

SLOPE TEST

ACCIDENT: - (GIVE NAME)

° FT. DEG. OFF

BIT AND COREHEAD RECORD

MUD RECORD

TIME RECORD

DRILL STEM RECORD

RUN NO.	SIZE	MAKE	SERIAL NO.	DEPTH IN	HOURS RUN	WEIGHT	WTR. LOSS-C.C.	FILTER CAKE	PH	DRILLING	CORING	OTHER	REPAIRS	TRIP	SIZE D. P.	SIZE COLL.	JTS. D. P.	KELLY DOWN	COLLARS	TOTAL
2	7 7/8 RR	GX20C	51416641	312	4 5/4	8.9	5 1/2			5 3/4	CON 1 1/2	VRIL 1/4								

REMARKS: 7:00T 6.7130 Drill // 7:30T 0745 S-1 Rig @ 3177. 7:50T 0100 Drill // 01:00T 01:10 INS. CFS @ 3225 10:15T 01:15 Drill // 11:15T 02:15 CFS @ 3290 12:15T 03:00 Drill //

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3300	3315	Shale & Lime	80	4000	650T	Justin Bunting	8
						Corey Adamson	8
						Chad Mayfield	8

SLOPE TEST

ACCIDENT: - (GIVE NAME)

° FT. DEG. OFF

BIT AND COREHEAD RECORD

MUD RECORD

TIME RECORD

DRILL STEM RECORD

RUN NO.	SIZE	MAKE	SERIAL NO.	DEPTH IN	HOURS RUN	WEIGHT	WTR. LOSS-C.C.	FILTER CAKE	PH	DRILLING	CORING	OTHER	REPAIRS	TRIP	SIZE D. P.	SIZE COLL.	JTS. D. P.	KELLY DOWN	COLLARS	TOTAL
2	7 7/8 RR	GX20C	51416641	312	4 5/4	8.9	5 1/2			1/2	CON 1 1/4	VRIL 1/4	Circ 2	Shot Trip 1						

REMARKS: 3300-3315 Rig @ 3300 3315-3345 Orig 3315-4:45 CFS @ 3315 4:45-5:15 S-1 Rig 19:50 Stand Beam @ 5:45-6:45 CAST 6:45-8:15 TOW @ 8:15-8:30 8:30-9:15 TOW @ 9:15-11:00 CBW Test

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KANSAS CORPORATION COMMISSION

APR 13 2009

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DAILY DRILLING REPORT

Box 809 Tulsa OK 74111  
 43-5 1-800-331-7291

CONTRACTOR

Discovery Drilling Co Inc.

DATE

SAT- 2-7-09

COMPANY

Black Diamond Oil Co

LEASE

Rocken 3 farms

WELL NO.

RIG NO.

D. P. STING NO.

SIZE

DISTRICT

COUNTY

STATE

Rooks

Ks

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3315	3380	Shale & Lime	80	4000	700	Kenny James	8
		(4 1/2 hrs Daywork)				Staw Lovelady	8
						John Mehl	8
						Tevvy Jones	8

BIT AND COREHEAD RECORD		4 1/2" RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	9.0	DRILLING	3 1/4	SIZE D. P.	
SIZE	7 3/8 RB	VISC.	57	CORING	CON 1/4	SIZE COLL.	
MAKE	GX20C	WTR. LOSS C.C.		OTHER	DST 3 1/2	JTS. D. P.	FT.
SERIAL NO.	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	212	PH.		TRIP		COLLARS	FT.
HOURS RUN	49	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 1100-1200 CUTTING TOOL 1200-1215 MUPAK LAY TOOL DOWN 1215-230 NW BIT REAM 15' BOTTOM  
 230-530 Drill 530-630 CFS @ 3370 630-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3380				4000	700	Kenny Mink	8
		(8 hrs Daywork)				Randy Basyal	8
						Dusty Roman	8
						Sy/Rome	8

BIT AND COREHEAD RECORD		7" RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	9.0	DRILLING		SIZE D. P.	6 1/2
SIZE	7 3/8 RB	VISC.	51	CORING	CON 1	SIZE COLL.	CON-1
MAKE	GX20C	WTR. LOSS C.C.		OTHER		JTS. D. P.	46-1
SERIAL NO.	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	5 ASH-3
DEPTH IN	212	PH.		TRIP		COLLARS	DRIS-1esk
HOURS RUN	49	MTL. ADDED (REMARKS)				TOTAL	HOLS-8

REMARKS: 7:00-10:00 CUTTING TOOL 10:00-10:15 MUPAK LAY TOOL DOWN 10:15-230 NW BIT REAM 15' BOTTOM  
 TO 12:30 230-430 Drill 430-530 CFS @ 3370 530-630 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3380	3501	Shale & Lime	80	4000	700	Justin Bunting	8
		(1 hr Daywork)				Lory Robinson	8
						Chad Mayfield	8
						Jason Shonkoff	8

BIT AND COREHEAD RECORD		6" RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	9.0	DRILLING	6 1/2	SIZE D. P.	
SIZE	7 7/8 RB	VISC.	55	CORING	1/4	SIZE COLL.	
MAKE	GX20C	WTR. LOSS C.C.		OTHER	1/4	JTS. D. P.	FT.
SERIAL NO.	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	212	PH.		TRIP		COLLARS	FT.
HOURS RUN	55 1/2	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00-4:00 Dr 4:00-4:15 R/V @ 3398 4:15-10:00 Dr 1/2 Add Treatment @ 3398  
 10:00-11:00 CFS @ 3501

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KANSAS CORPORATION COMMISSION

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DAILY DRILLING REPORT

HEADLINE 43-5 HKS 800 TH SA OK 7410  
4800-031-7250

TRACTOR

SUN.

COMPANY

Discovery Drilling CO INC.

DATE 2-8-09

Blackdiamond OIL CO.

Rocken 3 Farms

WELL NO.

RIG NO.

DISTRICT

COUNTY

STATE

D. P. STRING NO.

SIZE

ROOKS

Ks

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3501		Shale & Lime	80	40.00	700	Kenny Jones	8
		(8 HRS Daywork)				Chad Mayfield	8
						Justin Smith	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
0	FT.	DST #3 3427-3501 7' ANCHOR					
	DEC. OFF	45-45-60-60 Rec 125' OIL					
						Terry Jones	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING		SIZE D. P.	
SIZE	7 3/8 RR	VISC.		CONING		SIZE COLL.	
MAKE	GX20C	WTR. LOSS C.C.		OT	DST #3 7 1/2	JTS. D. P.	FT.
SERIAL NO.	5146641	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	212	PH.		TRIP		COLLARS	FT.
HOURS RUN	55 1/2	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 11:00-11:00 C.F.S. @ 3501 11:00-1:00 OUT W/ BIT 1:00-1:15 MAKE UP TOOL 1:15-2:15 IN W/ TOOL 2:15-2:45 TO B 5:45-7:00 OUT W/ BIT

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3501	3551	Shale & Lime	80	40.00	700	Justin Bunting	8
		(6 1/2 HRS Daywork)				Andrew Benidick	8
						Justin Smith	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
0	FT.	DST #3 3427-3501					
	DEC. OFF						
						Sy/Rance	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	1 3/4	SIZE D. P.	
SIZE	7 3/8 RR	VISC.		CONING		SIZE COLL.	
MAKE	GX20C	WTR. LOSS C.C.		COB/Log	1	JTS. D. P.	FT.
SERIAL NO.	5146641	FILTER CAKE		REPAIRS	4	KELLY DOWN	FT.
DEPTH IN	212	PH.		C.I.	3	COLLARS	FT.
HOURS RUN	56 1/4	MTL. ADDED (REMARKS)			2	TOTAL	FT.

REMARKS: 7:00 TO 9:00 Bit & LD Tool, Cleanup + 7 1/2 W/ BIT. 9:00 TO 10:30 DST #1, 10:30 TO 11:45 C.F.S. @ 3545 11:45 TO 12:00 Drill, 12:00 TO 12:45 C.F.S. @ 3551 12:45 TO 1:00 Shale & Lime 7:15 1:00 TO 2:00 CAST, 2:00 TO 3:00 CO-1 Log

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3551	RTD	Arbouelle				Justin Bunting	8
3551	RTD 10' A/I	(8 HRS Daywork)				Cory Adanson	8
						Chad Mayfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
0	FT.						
	DEC. OFF						
						Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO		WEIGHT		DRILLING	1 1/4	SIZE D. P.	
SIZE		VISC.		CONING		SIZE COLL.	
MAKE		WTR. LOSS C.C.		COB/Log	1 3/4	JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS	1 1/2	KELLY DOWN	FT.
DEPTH IN		PH.		TRIP	3 1/2	COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)			1	TOTAL	FT.

REMARKS: 3:00-3:15 70W/Log 3:15-3:30 1 1/2 HRS Logging 3:30-7:00 Logging 7:00-8:15 TWA/Log 8:15-9:15 CAL 9:15-11:00 Laydown Pipe

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KANSAS CORPORATION COMMISSION  
PUSHER

APR 13 2009

RECEIVED

COMPANY: **Black Diamond Oil Co.**  
 DISTRICT: \_\_\_\_\_  
 CONTRACTOR: **Discovery Drilling Co. Inc.**  
 LEASE: **Rocks 3 Farms**  
 COUNTY: **Rooks** STATE: **Ks.**  
 DATE: **2-9-09** MON.  
 WELL NO.: **1** HIG. NO.: **1**  
 D. P. STRING NO.: \_\_\_\_\_ SIZE: \_\_\_\_\_

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	DM	EM	H	NAME	HRS.
351	675	Dibuckle							Kenny Jones	8
									Stan Lovelady	8
									John Mehl	8

ACCIDENT: - (GIVE NAME)  
 SLOPE TEST @ FT. DEG. OFF

REMARKS: **Job complete @ 3:45 AM, 2/9/09**  
**Rig Released @ 4:55 AM 2/9/09**

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	SIZE	WEIGHT	WTR. LOSS-C.C.	DRILLING	SIZE D.P.	SIZE COLL.	JIS. D.P.
				LDDP/LDDC	1 1/4	TEARDOWN 2 3/4	
				REPAIRS	1 1/4		
				CEMENT 4 1/2	1 1/4		
				CEMENT 4 1/2	1 1/4		
				SETSIPS	1 1/4		

REMARKS: **1100-1215 LDDP/LDDC 1215-1230**  
**1230-300 4 1/2" 230-300 ARC 4 1/2" 300-345 CEMENT 4 1/2" 345-415 SETSIPS 415-570**  
**TEARDOWN TOOLS.**

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	DM	EM	H	NAME	HRS.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	DM	EM	H	NAME	HRS.

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	SIZE	WEIGHT	WTR. LOSS-C.C.	DRILLING	SIZE D.P.	SIZE COLL.	JIS. D.P.