

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

*Ken
Dun
11/24/08*

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: Tony Richardson
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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>7/31/2008</u>	<u>8/4/2008</u>	<u>8/5/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

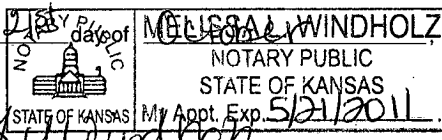
API No. 15 - 065-23,447-0000
 County: Graham
 NW NW SE Sec. 6 Twp. 10 S. R. 21 East West
2110 feet from (S) / N (circle one) Line of Section
2230 feet from (E) / W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE (SE) NW SW
 Lease Name: Beecher Well #: 1
 Field Name: Wildcat
 Producing Formation: None
 Elevation: Ground: 2275 Kelly Bushing: 2283
 Total Depth: 3899 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at 217.79 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.
 (25sks In Rat Hole)(15sks In Mouse Hole)

Drilling Fluid Management Plan *D+A AIT I MR*
 (Data must be collected from the Reserve Pit) *12-23-08*
 Chloride content 14,000 ppm Fluid volume 240 bbls
 Dewatering method used Hauled free fluid
 Location of fluid disposal if hauled offsite: _____
 Operator Name: Black Diamond Oil
 Lease Name: Andreson(SWD) License No.: 7076
 Quarter SW Sec. 16 Twp. 9 S. R. 21 East West
 County: Graham Docket No.: D-27603

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: 10-21-2008
 Subscribed and sworn to before me this 21 day of October
 20 08
 Notary Public: *[Signature]*
 Date Commission Expires: 5/21/2011



KCC Office Use ONLY

N Letter of Confidentiality Received
 If Denied, Yes Date: RECEIVED
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

NOV 20 2008
 CONSERVATION DIVISION
 WICHITA, KS

Operator Name: Black Diamond Oil, Inc. Lease Name: Beecher Well #: 1
 Sec. 6 Twp. 10 S. R. 21 East West County: Graham

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.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i></p> <p>List All E. Logs Run:</p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 70%;">Name</td> <td style="width: 15%;">Top</td> <td style="width: 15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1762</td> <td>+521</td> </tr> <tr> <td>Topeka</td> <td>3268</td> <td>-985</td> </tr> <tr> <td>Heebner</td> <td>3473</td> <td>-1190</td> </tr> <tr> <td>Lansing/KC</td> <td>3514</td> <td>-1231</td> </tr> <tr> <td>Arbuckle</td> <td>3872</td> <td>-1589</td> </tr> </table>	Name	Top	Datum	Anhydrite	1762	+521	Topeka	3268	-985	Heebner	3473	-1190	Lansing/KC	3514	-1231	Arbuckle	3872	-1589
Name	Top	Datum																	
Anhydrite	1762	+521																	
Topeka	3268	-985																	
Heebner	3473	-1190																	
Lansing/KC	3514	-1231																	
Arbuckle	3872	-1589																	

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 #	217.79	Common	150	2%Gel&3%CC

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 <i>(Amount and Kind of Material Used)</i>
		RECEIVED KANSAS CORPORATION COMMISSION
		NOV 20 2008
		CONSERVATION DIVISION WICHITA, KS

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled

Production Interval

Other (Specify) _____

Ch# 4320030

Fig # 623-7552

* Call when leave yard

PIPE TALLY

Date 7/31/08



Hays, KS 67601
785-625-4670

Company

Black Diamond Oil

Lease Becher #1 South of Palco to Red Line Two on Red Line
to Bauge Rd | South 1/2 W 1/2 South into

Size		New	Used	Limited Service	Weight	Grade	Type	Range	
8 5/8		✓		✓	23			R3	
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10
Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
1	4								
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
13	5								
14	5								
15	5								
16	5								
17	5								
18	5								
19	5								
20	5								
Total	212.50								

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NOV 20 2008
CONSERVATION DIVISION
WICHITA, KS

5 1/2

Subtotal this page

Total Number of Joints

212.50 GRAND TOTAL

Tallied By
[Signature]
Received In Good Order By

Casing Head & Accessories
 Other

Limited Service and/or Used Materials are sold "as is, without warranty either expressed or implied."

DAILY DRILLING REPORT

43-5 BOX 800, TULSA OK 74101
1-800-331-7290

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

8-5-08

COMPANY

Black Diamond Oil Co.

LEAS

Beecher

WELL NO.

RIG NO.

DISTRICT

COUNTY

Graham

STATE

KS

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3257	RID					Kenny Jones	8
3982	LTD					Stan Lovelady	8
(3 HRS Daywork)							
SLOPE TEST ACCIDENT: - (GIVE NAME)							
DEC. OFF DST#1 3536-3622 86' ANCHOR 278' TAILPIPE							
DST#2 3655-3730 75' ANCHOR 170' TAILPIPE							
(25) 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	DST#1 1 1/4	JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS	DST#2 6 1/4	KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 1:00-1:15 TOB 1:15-1:45 OUT W/ TOOL 1:45-4:45 WOT W/ 1 1/4 IN W/ TOOL DST#2 3:00-6:15 TOB
6:15-7:00 OUT W/ TOOL

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3899	RID					Larry Mlinek	8
(3 HRS Daywork)							
SLOPE TEST ACCIDENT: - (GIVE NAME) DST#3 3806-3876 70' ANCHOR							
DEC. OFF 15 - Out of the Hole							
(25) Jason Showalter							8

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

REMARKS: 7:00-7:30 Pull Test 7:30-8:15 Change Tool / Anchor + No Reup Tool 8:15-9:30 NEW Tool
9:30-9:45 SW/MS 9:45-10:45 Pull Test 10:45-11:00 Lay down Tool 11:00-11:30 Run in hole
11:30-12:00 WOT Test / Lead Tool 11:00-1:00 Rig up / Lay down / Lay down / Lay down 1:00-3:00 TNP / Pliers

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3899	RID					JUSTIN BUNTING	8
(3 HRS Daywork)							
SLOPE TEST ACCIDENT: - (GIVE NAME)							
DEC. OFF TOB COMPLETE RIG RELEASED @ 6:00 PM 8/5/08							
(25) STAN LOVELADY							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.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00-6:00 Plug Hole. 6:00-11:00 TEAR DOWN TOOLS

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CONSERVATION DIVISION
WICHITA, KS

DAILY DRILLING REPORT

NEWSPAPER 43-5 BOX 800 TULSA OK 74101 1-800-331-7256

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

MON.

8-4-08

COMPANY

Black Diamond Oil Co

LEASE

Beecher

WELL NO.

HIG NO.

1

1

DISTRICT

COUNTY

Graham

STATE

Ks

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3754	3865	shale & lime	80	40000	900	Kenny Jones	8
						Stan Louvelady	8
						Chuck dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
①	FT.						
DEC. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	89	DRILLING	4 3/4	SIZE D. P.	
SIZE	7 3/8	VISC.	SL+	CORING CON	4	SIZE COLL.	
MAKE	Gx20C	WTR. LOSS-C.C.		OTHER VRK	4	JTS. D. P.	FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	221	PH.		TRIP		COLLARS	FT.
HOURS RUN	60	MTL. ADDED (REMARKS)		CIRC	2 3/4	TOTAL	FT.

REMARKS: 1100-1145 Drill 1145-1200 VR16 @ 3772 1200-330 Drill 330-400 CFS @ 3850 400-445 Drill 445-515 CFS @ 3867 515-545 Drill 545-700 CFS @ 3865

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3865	3999	Arbuckles?	80	40000	950	Larry Minick	8
RTD	3899					Justin Bunting	8
LTD	3907	Superior				Dusty Rozell	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
①	FT.						
DEC. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	94	DRILLING	1-4	SIZE D. P.	
SIZE	7 3/8	VISC.	57	CORING CON	2 1/4	SIZE COLL.	
MAKE	Gx20C	WTR. LOSS-C.C.		OTHER	1 1/4	JTS. D. P.	FT.
SERIAL NO.	5149882	FILTER CAKE		TRIP	130	KELLY DOWN	FT.
DEPTH IN	221	PH.		TRIP	Short	COLLARS	FT.
HOURS RUN	61 1/2	MTL. ADDED (REMARKS)		Lossing	1	TOTAL	FT.

REMARKS: 7:00-7:15 Sp. Rig @ 3865. 7:15-8:30 Oil, 11 8:30-10:00 CFS @ 3899, 9:00-10:15 Short Trip, 11:15-12:15 CFS, 12:15-2:00 CFS @ 3865

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						Justin Bunting	8
						Cory Adamson	8
						Chad Thorfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
①	FT.	OST 1 3536-3622 86' Anchor					
DEC. OFF		279' Tailpipe					
		45-45-45-45					

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.		LOSSING	2 1/2	JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		OST	1 1/4	KELLY DOWN	FT.
DEPTH IN		PH.		WOT	4 1/4	COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		WOT		TOTAL	FT.

REMARKS: 3:00-5:30 Logging 5:30-6:45 WOT @ 6:45-7:00 Make up Tool 7:00-8:15 Trip Tool

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CONSERVATION DIVISION WICHITA, KS

DAILY DRILLING REPORT

NO. 43-5 BOX 800, TULSA OK 74101
1-800-331-7561

CONTRACTOR

DISCOVERY DRILLING CO. INC

DATE

SUN.

COMPANY

Black diamond oil Co.

LEASE

Baecher

WELL NO.

RIG NO.

DISTRICT

COUNTY

Graham

STATE

Ks

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3086	3365	Shale	80	35000	850	Kenny Jones	8
						Justin Bunting	8
						Chuck Dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEG. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	8.8	DRILLING	1/4	SIZE D. P.	
SIZE	7 3/8	VISC.	55T	CORING	CON 1/4	SIZE COLL.	
MAKE	Gx20c	WTR. LOSS-C.C.		OTHER	VRIG 1/4	JTS. D. P.	FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	221	PH.		TRIP		COLLARS	FT.
HOURS RUN	40 3/4	MTL. ADDED (REMARKS)		TOTAL			FT.

REMARKS: 1100-1115 Drill 115-1130 VRIG @ 3112 1130-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3365	3567	Shale + lime	80	40000	900	Jason Showalter	8
						Randy Bassell	8
						Chad Mayfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEG. OFF		Change Oil Light Plant					

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	8.9	DRILLING	2 1/4	SIZE D. P.	
SIZE	7 3/8	VISC.	52	CORING	CON 1/2	SIZE COLL.	
MAKE	Gx20c	WTR. LOSS-C.C.		OTHER	1/2	JTS. D. P.	FT.
SERIAL NO.	5149887	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	221	PH.		TRIP		COLLARS	FT.
HOURS RUN	48	MTL. ADDED (REMARKS)		TOTAL			FT.

REMARKS: 7:00 TO 8:00 Drill 8:00 to 8:15 Set Rig on 3394. 8:15 to 8:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3567	3754	Shale + Lime	80	40000	900	Justin Bunting	8
						Cory Adanson	8
						Chad Mayfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEG. OFF		3:30					

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	8.8 9.2	DRILLING	2 1/4	SIZE D. P.	27 Gal
SIZE	7 1/8	VISC.	52 59	CORING	CON 1/2	SIZE COLL.	4-SA
MAKE	Gx20c	WTR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	2-C FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	2-L FT.
DEPTH IN	221	PH.		TRIP		COLLARS	3 1/2 SK Pac
HOURS RUN	55 1/4	MTL. ADDED (REMARKS)		TOTAL			10-Nutts

REMARKS: 3:00-3:30 Drly 3:30-3:45 Rig @ 3584 3:45-11:00 Drly Added Treatment @ 3650

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CONSERVATION DIVISION
WICHITA, KS

DAILY DRILLING REPORT

43-5 BOX 800 TULSA OK 74101
1-800-331-7290

CONTRACTOR: Discovery Drilling Co. INC. DATE: Sat. 8-2-08
 COMPANY: Black diamond oil co. LEASE: Beecher WELL NO.: 1 RIG NO.: 1
 DISTRICT: COUNTY: Graham STATE: KS D. P. STRING NO.: SIZE:

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2201	2530	Shale	80	35000	800	Kenny Jones	8
						Chuck Dick	8
						Matt Rodriguez	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEC. OFF		3 IN FRAC		(25) Terry 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 45
SIZE	7 3/8	VISC.		CORING	CON 3/4	SIZE COLL.	CAU 1
MAKE	Gx200	WTR. LOSS-C.C.		OTHER	VR16 1/4	JTS. D. P.	1 FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	Soda 3 FT.
DEPTH IN	221	PH.		TRIP		COLLARS	DIP 14 FT.
HOURS RUN	2 1/4	MTL. ADDED (REMARKS)			JET 1/2	TOTAL	Hulls 12 FT.

REMARKS: 100-115 Drill 115-130 VR16 @ 2233 130-330 Drill 330-345 @ 2388 Jet #2
 ADD FLUSH 345-630 Drill 630-645 @ 2514 Jet #1 645-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2530	2962	Shale	80	35000+	950	Dusty Rozon	8
						Randy Baggall	8
						Joe Cotton	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEC. OFF		4 in Frac		(25) Sy/Rome		8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	6 1/4	SIZE D. P.	45 7el
SIZE	7 1/2	VISC.		CORING	CON 1/4	SIZE COLL.	3 SODA
MAKE	Gx200	WTR. LOSS-C.C.		OTHER	✓ 1/4	JTS. D. P.	2 CAS FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	2 1/2 FT.
DEPTH IN	221	PH.		TRIP		COLLARS	4 1/2 FT.
HOURS RUN	2 8	MTL. ADDED (REMARKS)			JET 1/2	TOTAL	18 Hulls

REMARKS: 7:00 TO 7:15 Set Rig @ 2545, 7:15 TO 11:00 Drill 11:00 TO 11:15 Jet #1 @ 2200
 Add flush 11:57 TO 3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2862	3086	Shale	80	35000+	850	Justin Danting	8
						Cory Adamson	8
						Chad Maxfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
DEC. OFF		ONE @ 2500		(25) Jason Shewalter		8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	88	DRILLING	5 3/4	SIZE D. P.	77 7el
SIZE	7 1/2	VISC.	52	CORING	CON 1/2	SIZE COLL.	3-C
MAKE	Gx200	WTR. LOSS-C.C.	9.2	OTHER	✓ 1/4	JTS. D. P.	4-L FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS	Ream Blives 1/4	KELLY DOWN	6-5A FT.
DEPTH IN	221	PH.	11.0	TRIP		COLLARS	314 SK POC
HOURS RUN	3 3/4	MTL. ADDED (REMARKS)			JET 1 1/4	TOTAL	12 Hulls

REMARKS: 3:00-3:30 Drill 3:30-3:45 Rig @ 2891 3:45-4:30 Drill 4:30-4:45 Jet #1 @ 2922
 4:45-5:15 Drill 5:15-6:00 Jet #2 @ 2884 6:00-9:15 Drill 9:15-10:00 Clean Section / Check Pump Valves @ 3044
 10:00-10:30 Drill Displacement 10:30-10:45 Jet #1 Displacement @ 3074 10:45-11:00 Drill

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 PUSHER

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CONSERVATION DIVISION
 WICHITA, KS

DAILY DRILLING REPORT

REG 43-5 REG 900, FULSA CR. 74101 1-800-331-7230

CONTRACTOR

Discovery Drilling Co. Inc.

DATE 8-1-08

COMPANY

Black diamond oil ltr.

Beecher

WELL NO. 1

RIG NO. 1

DISTRICT

COUNTY Graham

STATE KS

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
221	631	Sand & shale	90	15000	500	Kenny Jones	8
					600	Chuck Dick	8
					700	Matt Rodriguez	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
FT.	FT.						
DEC. OFF						(25) Terry Jones	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	5 1/2	SIZE D. P.	
SIZE	7/8	VISC.		CORING	CON	SIZE COLL.	
MAKE	Gx20c	WIR. LOSS-C.C.		OTHER	1/2	JTS. D. P.	FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	221	PH.		TRIP		COLLARS	FT.
HOURS RUN	5 1/2	MTL. ADDED (REMARKS)		TOTAL			FT.

REMARKS: 100-1230 WOC @ 221 1230-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
631	1250	Sand & Shale	90	30000	750	Jason Showalter	8
1250	1495	Sand				(50) Randy Bosgal	8
1495	1631	Sand & Shale				DUST, Fozman	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
FT.	FT.						
DEC. OFF		1N-Frac				(25) Sgt. Lawrence	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	4 1/2	SIZE D. P.	25 Gel
SIZE	7/8	VISC.		CORING	CON	SIZE COLL.	2 SA
MAKE	Gx20c	WIR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	1 C FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	1 L FT.
DEPTH IN	221	PH.		TRIP		COLLARS	1/4 SK OFF FT.
HOURS RUN	9:00	MTL. ADDED (REMARKS)		TOTAL	2 1/4		2 HULLS FT.

REMARKS: 7:00 TO 7:15 S-1 Frac @ 1631. 7:15 TO 8:30 Drill. 8:30 TO 8:45 JET @ 1631. 8:45 TO 9:00 JET @ 1631. 12:00 Drill. 12:00 TO 12:15 JET @ 1631. 12:15 TO 12:30 JET @ 1631. 12:30 TO 12:45 JET @ 1631. 12:45 TO 3:00 S-1 Frac

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1631	1761	SAND & Shale	90	30000	750	(25) Justin Bunting	8
1761	1800	Anhydrite	80	35000	800	Cory Adamson	8
1800	2201	Shale	80	35000	800	(50) Chad Mayfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
FT.	FT.						
DEC. OFF		2-N-Frac				(25) Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	5 3/4	SIZE D. P.	25 Gel
SIZE	7/8	VISC.		CORING	CON	SIZE COLL.	1 C
MAKE	G20c	WIR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	1 L FT.
SERIAL NO.	5149882	FILTER CAKE		REPAIRS		KELLY DOWN	2 SA FT.
DEPTH IN	221	PH.		TRIP		COLLARS	2-HULLS FT.
HOURS RUN	15 1/4	MTL. ADDED (REMARKS)		TOTAL	1 1/2		1/4-Pac

REMARKS: 3:00-3:15 Drly 3:15-5:45 Drly 5:45-6:00 JET @ 1822. 6:00-9:45 Drly 9:45-10:00 JET @ 2106. 10:00-10:15 Drly

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CONSERVATION DIVISION WICHITA, KS

DAILY DRILLING REPORT

Form 43-5 (Rev. 11/54 OK 7-10) 1-800-331-7200

CONTRACTOR **Discovery Drilling Co. INC**

DATE **Thurs 7-31-08**

COMPANY **Black Diamond Oil Co**

LEASE **Beecher**

WELL NO. **1**

RIG NO. **1**

DISTRICT **Graham**

STATE **KO**

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						OM Kenny Jones	8
						EM Chuck Dick	8
						H Matt Rodriguez	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
°	FT.						
DEG. OFF							
						(35) 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.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: **7:00-3:00 Rig up/pump yard/water test**

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
0	195	Shale Sand. Clay	120	All	600	EM Justin Banning	8
						H Randy Baggall	8
						" Dusty Bazzon	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
°	FT.						
DEG. OFF							
						(35) S. I. Payne	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	7	SIZE D. P.	
SIZE	12 1/4	VISC.		CORING	7	SIZE COLL.	
MAKE	MX0902	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	6005028	FILTER CAKE		REPAIRS	Bar Hole 3 1/4	KELLY DOWN	FT.
DEPTH IN	0	PH.		TRIP	1 1/4	COLLARS	FT.
HOURS RUN	2	MTL. ADDED (REMARKS)			1 1/2	TOTAL	FT.

REMARKS: **7:00-0 11:15 Rig up 11:15-12:00 Drill Bar Hole, Spud 12:00 12:00 to 3:00 Drill**

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
195	221	Shale Sand Clay	120	All	600	EM Justin Banning	8
						H Cory Adamson	8
						" Chad Mayfield	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
°	FT.						
DEG. OFF							
						(35) Adamson Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	1 1/4	SIZE D. P.	
SIZE	12 1/4	VISC.		CORING	Circ	SIZE COLL.	
MAKE	MX0902	WTR. LOSS-C.C.		OTHER	DR Run 8 3/4	JTS. D. P.	FT.
SERIAL NO.	6005028	FILTER CAKE		REPAIRS	Cement	KELLY DOWN	FT.
DEPTH IN	0	PH.		TRIP	WOL	COLLARS	FT.
HOURS RUN	2 1/4	MTL. ADDED (REMARKS)			6 1/2	TOTAL	FT.

REMARKS: **3:00-3:15 Dr. 3:15-3:30 Circ + Cellar 3:30-4:00 SS TO Run 8 3/4 4:00-4:15 Circ 8 3/4 4:15-4:30 Cement 8 3/4 4:30-11:00 WOL**

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DRILLING MUD REPORT

REPORT NO. 4

DATE 8-5 2008 DEPTH 3879
 APT. WELL NO. STATE COUNTY WELL S/T

OPERATOR Black Diamond Oil CONTRACTOR Discovery RIG NO. 1
 ADDRESS CO ADDRESS Rig SPUR DATE 7-30-08
 REPORT FOR MR. Ken V. REPORT FOR MR. Cliff SECTION, TOWNSHIP, RANGE 6-10-21
 WELL NAME AND NO. Beecher #1 FIELD OR BLOCK NO. COUNTY AREA Orisham STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 3/8</u>	Fl. <u>2 1/2</u>	Hole <u>2 9/16</u>	Pts <u>340</u>	Pump Size <u>6</u>	x in. <u>14</u>	Annular Vol (F/Min) DP <u>177</u> DC <u>256</u>
Drill Pipe Size <u>4 1/2</u>	Type <u>XN</u>	Length	Intermediate	Fl.	Total Circulating Volume <u>630</u>		Pump Make, Model	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>8000</u>
Drill Collar Size <u>6 1/4</u>	Length	No. Pts <u>3</u>	Production or Liner	Fl.	Mud Up Depth <u>3100</u>		Bbl/Stroke <u>137</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>37+</u>
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>	Present Acidity <u>DST</u>	Mud Type <u>Chemical</u>				Bbl/Min. <u>330</u>	Gal/Min. <u>2300</u>	Total Circ Time (Min.) <u>80+</u>
Last Bit No.							Elevation		

Sample from Flowline () Pit
 Flowing Temperature F

MUD PROPERTIES	
Time Sample Taken	<u>9:00 A.M.</u>
Depth (ft.)	<u>3879</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.3</u>
Mud Gradient (psi/ft.)	<u>4.84</u>
Funnel Viscosity (sec./qt.) API at °F	<u>50</u>
Plastic Viscosity cp at / °F	<u>22</u>
Yield Point (lb./100 sq. ft.)	<u>17</u>
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>315</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>9.0</u>
Filtrate API (ml./30 min.)	<u>9.1</u>
API HP-HT Filtrate (ml/30 min.) °F	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	<u>4.2</u>
Alkalinity, Mud (Pm)	<u>24</u>
Alkalinity, Filtrate (PI / MI)	<u>24</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm	<u>3000</u>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>60</u>
Sand Content (% by Vol.)	<u>tr.</u>
Solids Content (% by Vol.)	<u>7.0</u>
Oil Content (% by Vol.)	
Water Content (% by Vol.)	<u>93.0</u>
LCM, #/bbl	<u>1344</u>
Methylene Blue Capacity <input type="checkbox"/> (initial mud) <input type="checkbox"/> (equiv. #/bbl) bench	

Mud Used:

Daily Cost -2 Cumulative Cost \$16,62.80

MUD PROPERTIES SPECIFICATIONS

WEIGHT <u>9.5</u>	VISCOSITY <u>50+</u>	FILTRATE <u>10cc</u>
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BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

- RECOMMENDED TREATMENT**
- 50+ Vis/Gal
 - keep as needed
 - Wt 9.5 or less run up to 1"
 - Stream of water cut flowline
 - to control wt.

REMARKS:
 "Thanks you" - keep 50+ vis!
 Short trial run to DST, long circulation hole clean.
 "Keep hole full" → (mix - 2 Desco with cement flush...)

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Rick Wirth WAREHOUSE LOCATION 625-3131 TELEPHONE

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 WICHITA, KS



DRILLING MUD REPORT

REPORT NO. **3**

DATE **8-4 20 08** DEPTH **3899**

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR Black Diamond Oil	CONTRACTOR Discovery	RIG NO. 1
ADDRESS CO	ADDRESS R.4	SPUD DATE 7-30-08
REPORT FOR MR. Ken V.	REPORT FOR MR. Cliff M.	SECTION, TOWNSHIP, RANGE 6-10-21
WELL NAME AND NO. Beecher #1	FIELD OR BLOCK NO.	COUNTY AREA Graham
		STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size 7 7/8"	No. Bits 2	Jct. Size 3 1/4"	Surface 538'	Fl. 221'	Hole 375'	Pits 330'	Pump Size x in. 6 x 14	Annular Vnl (F/Min) 177	DP 386
Drill Pipe Size 4 1/2"	Type XH	Length	Intermediate @	Fl.	Total Circulating Volume 625		Pump Make, Model	Assumed Eff. 72	Circulation Pressure (PSI) 8007
Drill Collar Size 6 1/4"	Length	No. Pits 3	Production or Liner @	Fl.	Mud Lin Depth 3100		Bbl/Stroke 139	Strokes/Min. 8	Bottoms Up (Min.) 374
Bit RPM 60	Weight on Bit 30,000	Present Activity TD	Mud Type chemical				Bbl/Min. 8	Gal/Min. 330	Total Circ Time (Min.) 794
Last Bit No.							Elevation 2300		

Sample from <input type="checkbox"/> Flowline <input checked="" type="checkbox"/> Pit		MUD PROPERTIES	
Flowing Temperature		F	
Time Sample Taken 9:40 A.M.			
Depth (ft.) 3899			
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) 9.3			
Mud Gradient (psi/ft.) 1.84			
Funnel Viscosity (sec./qt.) API at °F 59			
Plastic Viscosity cp at °F 25			
Yield Point (lb./100 sq. ft.) 19			
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. 3.24			
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter 9.0			
Filtrate API (ml./30 min.) 9.1			
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/> 1/2			
Alkalinity, Mud (Pm) 4			
Alkalinity, Filtrate (Pl / Ml) 2.1			
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm 2300			
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) 70			
Sand Content (% by Vol.) 11			
Solids Content (% by Vol.) 6.9			
Oil Content (% by Vol.)			
Water Content (% by Vol.) 93.1			
LCM, #/bbl 134#			
Methylene Blue Capacity <input type="checkbox"/> (mud) <input type="checkbox"/> (equiv. MBl. bent.)			

Mud Used:	
27-Gel	336.15
4-Sealassh	87.80
2-Cemite	108.00
2-Lignite	46.00
10-Halls	209.50

Daily Cost \$ 737.45	Cumulative Cost \$ 6,162.80
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MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.5-	VISCOSITY 50+	FILTRATE 10cc

RECOMMENDED TREATMENT	
<input type="checkbox"/> 50+ Vis/Gel	
<input type="checkbox"/>	
<input type="checkbox"/> LCM as needed	
<input type="checkbox"/>	
<input type="checkbox"/> Wt. 9.5 or less run a 1/2"	
<input type="checkbox"/> Stream of water at flowline	
<input type="checkbox"/> to control wt.	

REMARKS:
 "Thank you"
 Short trip prior to DST Log
 circulate hole clean.
 "Keep hole full"
 (Mix - 2 Desco
 with cement
 flush...)
 If running casing!

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Dirk West	WAREHOUSE LOCATION 625-3531	TELEPHONE
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DRILLING MUD REPORT

REPORT NO. 2

DATE	<u>6-3</u>	<u>2008</u>	DEPTH	<u>3577</u>
APT WELL NO.		STATE	COUNTY	WELL
				ST

OPERATOR	<u>Black Diamond Oil</u>	CONTRACTOR	<u>Discovery</u>	RIG NO.	<u>1</u>
ADDRESS	<u>CO</u>	ADDRESS	<u>RIS</u>	SPUD DATE	<u>7-30-08</u>
REPORT FOR MR.	<u>Ken V.</u>	REPORT FOR MR.	<u>Cliff M.</u>	SECTION, TOWNSHIP, RANGE	<u>6-10-21</u>
WELL NAME AND NO.	<u>Beecher #1</u>	FIELD OR BLOCK NO.		COUNTY AREA	<u>Graham</u>
				STATE	<u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data				
Bit Size	<u>7 7/8"</u>	No. Bits	<u>2</u>	Surface	<u>8 3/8" @ 221'</u>	Hole	<u>275' @ 310'</u>	Pump Size	<u>6 x 14</u>	Annular Vel (F/Min)	<u>DP 177 DC 356</u>
Drill Pipe Size	<u>4 1/2"</u>	Type	<u>XN</u>	Length		Total Circulating Volume	<u>583</u>	Pump Make, Model	<u>22</u>	Assumed Effic	<u>22</u>
Drill Collar Size	<u>6 1/4"</u>	Length		No. Pits	<u>3</u>	Production or Liner		Mud Lip Depth	<u>3100</u>	Bbl/Stroke	<u>1.57 @ 60</u>
Bit RPM	<u>60</u>	Weight Log Bit	<u>2000</u>	Chemical		Bbl/Min	<u>8</u>	Gal/Min	<u>736</u>	Bottoms Up (Min.)	<u>35+</u>
Last Bit No.		Preslug Activity	<u>Drily</u>	Mud Type	<u>Pac</u>	Elevation	<u>2300</u>	Total Circ Time (Min.)			<u>74+</u>

MUD PROPERTIES	
Time Sample Taken	<u>2:30 P.M.</u>
Depth (ft.)	<u>3577</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>8.8</u>
Mud Gradient (psi/ft.)	<u>1.457</u>
Funnel Viscosity (sec./qt.) API at	<u>52</u> ✓
Plastic Viscosity cp at / °F	<u>29</u>
Yield Point (lb./100 sq. ft.)	<u>16</u>
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>3119</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>9.6</u>
Filtrate API (ml./30 min.)	<u>8.8</u> ✓
API HP-HT Filtrate (ml/30 min.) °F	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	<u>1/32</u>
Alkalinity, Mud (Pm)	<u>4</u>
Alkalinity, Filtrate (P/M)	<u>12</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm	<u>200</u>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>60</u>
Sand Content (% by Vol.)	<u>4</u>
Solids Content (% by Vol.)	<u>3.3</u>
Oil Content (% by Vol.)	
Water Content (% by Vol.)	<u>96.7</u>
LCM, #/bbl	<u>3/4 #</u>
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. 8000 bbl. water)	

Mud Used:	<u>1-PHPA</u>	<u>280.00</u>	
	<u>2 1/8-Gel</u>	<u>2714.10</u>	
	<u>38-Hulls</u>	<u>796.10</u>	
	<u>16-sealer ash</u>	<u>351.20</u>	
	<u>7-constic</u>	<u>378.00</u>	
	<u>8-Lignite</u>	<u>184.00</u>	
	<u>1-Lime</u>	<u>11.25</u>	
	<u>2-Drispac</u>	<u>600.00</u>	
Daily Cost	<u>\$5,375.35</u>	Cumulative Cost	<u>\$5,375.35</u>

MUD PROPERTIES SPECIFICATIONS			
WEIGHT	<u>9.5</u>	FILTRATE	<u>10cc</u>
VISCOSITY	<u>50A</u>		

RECOMMENDED TREATMENT	
<input type="checkbox"/>	<u>50+ Dispac</u>
<input type="checkbox"/>	<u>LCM as needed</u>
<input type="checkbox"/>	<u>Wt. 9.5 of KES run in 1/2" stream</u>
<input type="checkbox"/>	<u>of water at flow line to</u>
<input type="checkbox"/>	<u>control W +</u>

REMARKS: "Thank you"

Reserve pit:
chlorides - 15,000
Calcium - 1,000
Volume - 400

Start pit prior to DST log
circulate hole clean

"Keep hole full"

When dltg. lower Arb.
Mix - 25 Hulls

Premix: 100 Bbls fresh water
Mix: 24-Gel
4-sealer ash
2-constic
2-Lignite
3/4-sealer of Drispac
10-Hulls

Test hole in system add
Premix at -> 3650' ft

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER	<u>Rick West</u>	WAREHOUSE LOCATION	<u>625-3531</u>	TELEPHONE	
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 NOV 20 2008
 CONSERVATION DIVISION
 WICHITA, KS



DRILLING MUD REPORT REPORT NO. 1

DATE 7-23 20 08 DEPTH _____
 APT. STATE COUNTY WELL S/T
 WELL NO. _____

OPERATOR Black Diamond Oil CONTRACTOR Discovery RIG NO. 1
 ADDRESS CO ADDRESS Rig SPUD DATE _____
 REPORT FOR MR. Ken V. REPORT FOR MR. Cliff M. SECTION, TOWNSHIP, RANGE _____
 WELL NAME AND NO. _____ FIELD OR BLOCK NO. _____ COUNTY AREA _____ STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>12 1/4 7/8</u>	No. Bits <u>2</u>	Jel Size <u>3114</u>	Surface <u>8 7/8</u>	Ft.	Hole	Pits	Pump Size x in. <u>6 14</u>	Annular Vol (F/Min) DP <u>197</u> DC <u>356</u>	
Drill Pipe Size <u>4 1/2</u>	Type <u>XN</u>	Length	Intermediate	Ft.	Total Circulating Volume		Pump Make, Model	Assumed Efficiency <u>92</u>	Circulation Pressure (PSI) <u>800+</u>
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner	Ft.	Mud Up Depth		Bbl/Stroke <u>1.39</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.)
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity	Chemical				Bbl/Min. <u>8</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.)
Last Bit No.		Mud Type <u>Pac</u>					Elevation		

Sample from <input type="checkbox"/> Flowline () Pit		MUD PROPERTIES			
Flowing Temperature	F				
Time Sample Taken					
Depth (ft.)					
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)					
Mud Gradient (psi/ft.)					
Funnel Viscosity (sec./qt.) API at _____ °F					
Plastic Viscosity cp at / _____ °F					
Yield Point (lb./100 sq. ft.)					
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.					
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter					
Filtrate API (ml./30 min.)					
API HP-HT Filtrate (ml/30 min.) _____ °F					
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/>					
Alkalinity, Mud (Pm)					
Alkalinity, Filtrate (Pl / Mf)					
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm					
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)					
Sand Content (% by Vol.)					
Solids Content (% by Vol.)					
Oil Content (% by Vol.)					
Water Content (% by Vol.)					
LCM, #/bbl					
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (eqwt. /Bbl. bent.)					

Mud Used:
Sweep hole at 2400' ft
2700' ft
Mix-20 gel, 1-sack ash,
10-Hulls,
add more sweeps as needed
add PAVA for tight connections

Daily Cost _____ Cumulative Cost _____

MUD PROPERTIES SPECIFICATIONS

WEIGHT 9.5 VISCOSITY as needed FILTRATE NK

BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

RECOMMENDED TREATMENT

Under Surface control wt.
 9.5 or less run plenty of
 water & Jet often

 Displace at Geologist Request.

 "Fill Frac Full"

REMARKS:
"Thank you" Premix: 100 lbs fresh water
"Keep hole full" Mix - 24-gel
 2 - soda ash
 1 - Caustic
 1 - lignite
 2 - Hulls
 1/4 - sack of Dispac
 Have premix plus #2 bit full
 of mud when ready to
 Displace.
 (Call when ready to Displace!)

ENGINEER Rick West WAREHOUSE LOCATION 625-3531 TELEPHONE _____

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DELIVERY TICKET

No 4295



1308 SCHWALLER AVE
HAYS, KANSAS 67601

OPERATOR (PURCHASED BY) Black Diamond

CONTRACTOR Discanty #1 ON ORDER NO. _____

WELL NAME _____ DATE _____

LOCATION _____

COUNTY Greene SEC _____ TWP _____ RGE _____ TO WAREHOUSE Hays

QUANTITY	PRODUCT	SIZE	UNIT PRICE	AMOUNT
1	CAUSTIC SODA BREAD CORROSIVE MATERIAL UN 1823	50 lb.		
300	PREMIUM GEL	100 lb.		
25	BAGS SODA ASH	100 lb.		
	SALT GEL	50 lb.		
	BAGS DRILSTARCH	50 lb.		
70	BAGS COTTONSEED HULLS	100 lb.		
5	BAGS LIME	50 lb.		
	PRESERVATIVE	50 lb.		
1	DRISPAC	50 lb.		
15	LIGNITE	50 lb.		
2	<u>Discant</u>			
1	<u>PHHA</u>			

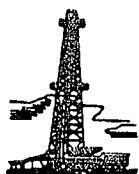
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WICHITA, KS

P. O. Box 763
Hays, Kansas 67601



Discovery Drilling

Office 785/623-2920
Cellular 785/635-1511
Rig 785/635-1201

Pipe and Tubing Tally Book

DATE 7/31/08 COMPANY BLACK DIAMOND OIL INC LEASE BEECHER Well No. 1
 SIZE 8 5/8" WEIGHT 23# MAKE _____ GRADE _____ RANGE R-3
 THREAD _____ COLLAR LENGTH _____ CONDITION NEW TRANSFER NOS. _____ OVERALL TALLY
 THREADS OFF TALLY

Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd		
1	42	16	21			41			61			81			101			121			141				
2	42	15	22			42			62			82			102			122			142				
3	42	16	23			43			63			83			103			123			143				
4	42	17	24			44			64			84			104			124			144				
5	42	15	25			45			65			85			105			125			145				
6			26			46			66			86			106			126			146				
7			27			47			67			87			107			127			147				
8			28			48			68			88			108			128			148				
9			29			49			69			89			109			129			149				
10			30			50			70			90			110			130			150				
11			31			51			71			91			111			131			151				
12			32			52			72			92			112			132			152				
13			33			53			73			93			113			133			153				
14			34			54			74			94			114			134			154				
15			35			55			75			95			115			135			155				
16			36			56			76			96			116			136			156				
17			37			57			77			97			117			137			157				
18			38			58			78			98			118			138			158				
19			39			59			79			99			119			139			159				
20			40			60			80			100			120			140			160				
<u>210 79</u>																						Totals			

Drillers TD 221 Loggers TD _____
 No. Jts. Run 5 Size 8 5/8 Wt. 23# Tested NEW
 Cent@ _____
 Basket@ _____ D.V. Tool@ _____ Port Collar@ _____
 Cemented By ALLIES SKs. Type Cement 150 SKS Common 2 7/8 gel 3 7/8 CL.
 Flush (CEMENT CAC)
 Jts. To Be Left Out NONE
 Shoe Jt. 42 16 Pipe Set@ 220.79 # Bottom ON
 Plug Down 430 A.M. (P.M.) 7:31/08 Rig Release@ _____ A.M. P.M.
 Job By CLIFF
 Pipe Left On Location NONE Jts. Talley _____

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ALLIED CEMENTING CO LLC. 042805

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

SERVICE POINT: Russell KS

Table with 8 columns: DATE, SEC., TWP., RANGE, CALLED OUT, ON LOCATION, JOB START, JOB FINISH. Includes handwritten values for Beecher lease, Palco KS VC Red Line Bogus location, and job dates.

CONTRACTOR Discovery Drilling Rig#1 OWNER
TYPE OF JOB Surface
HOLE SIZE 1 1/4 T.D. 221'
CASING SIZE 8 5/8 23# DEPTH 221'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13.11 Bbl

EQUIPMENT
PUMP TRUCK CEMENTER John Roberts
409 HELPER Travis
BULK TRUCK
378 DRIVER Doug
BULK TRUCK
DRIVER

REMARKS:

Est Circulation Mix 150sk Cement
Displace w/ 13.11 Bbl H2O
Cement Did Circulate!
Thanks!

CHARGE TO: Black Diamond Oil
STREET
CITY STATE ZIP

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.

PRINTED NAME
SIGNATURE [Handwritten Signature]

CEMENT AMOUNT ORDERED 150cum 3% cc 2'-Gel
COMMON @
POZMIX @
GEL @
CHLORIDE @
ASC @
HANDLING @
MILEAGE @
TOTAL

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE @
MANIFOLD @
TOTAL

PLUG & FLOAT EQUIPMENT

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TOTAL

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 34534

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

SERVICE POINT
Russell

DATE 8-5-08	SEC 6	TWP 10	RANGE 21	CALLED OUT	ON LOCATION	JOB START 6:00am	JOB FINISH 6:00pm
LEASE Beecher	WELL # 1	LOCATION Bogue Redline Section			COUNTY Graham	STATE KS	
OLD OR NEW (Circle one) <u>NEW</u>				15 72 5 10			

CONTRACTOR <u>D. Smiley</u>	OWNER
TYPE OF JOB <u>Rotary Plug</u>	
HOLE SIZE TD <u>3899</u>	CEMENT
CASING SIZE DEPTH	AMOUNT ORDERED <u>240 6440 946.6cl</u>
TUBING SIZE DEPTH	<u>14740</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES: MAX MINIMUM	COMMON @
MEAS: LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG	GEL @
PERFS	CHLORIDE @
DISPLACEMENT	ASC @

EQUIPMENT	
PUMP TRUCK CEMENTER <u>Craig</u>	
# <u>366</u> HELPER <u>Matt</u>	
BULK TRUCK	
# <u>473</u> DRIVER <u>Mark</u>	
BULK TRUCK	
# DRIVER	
HANDLING	
MILEAGE	

REMARKS:	TOTAL
<u>1st 3899 25SK</u>	
<u>2nd 1785 25SK</u>	
<u>3rd 1000 100SK</u>	
<u>4th 270 40SK</u>	
<u>5th 40 10SK</u>	
<u>Rotary 25SK</u>	
<u>Misc 15SK</u>	
<u>Thanks!</u>	

CHARGE TO <u>Black Diamond</u>	SERVICE
STREET	DEPTH OF JOB
CITY STATE ZIP	PUMP TRUCK CHARGE
	EXTRA FOOTAGE @
	MILEAGE @
	MANIFOLD @
	@
	@

	PLUG & FLOAT EQUIPMENT
	<u>185R Workon Plug</u>
	@
	@
	@
	@
	@
	TOTAL

PRINTED NAME	SALES TAX (If Any)
SIGNATURE <u>Mark Mayfield</u>	TOTAL CHARGES
	DISCOUNT
	IF PAID IN 30 DAYS

CHAD MARYFIELD TOTAL 18

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