

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 7076
Name: Black Diamond Oil, Inc.
Address 1: P.O. 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: Tony Richardson
Purchaser: _____
Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover
 Oil _____ SWD _____ SIOW
_____ Gas _____ ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
_____ 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. _____ Conv. to SWD
_____ Plug Back: _____ Plug Back Total Depth
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
11/11/2009 11/16/2009 12/21/2009
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 163-23,832-00-00
Spot Description: 30's of
52 NW SW SE Sec. 26 Twp. 8 S. R. 19 East West
1680 Feet from North / South Line of Section
2310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Rooks
Lease Name: Bouchey Well #: 1
Field Name: Wildcat
Producing Formation: Lansing KC
Elevation: Ground: 1978 Kelly Bushing: 1987
Total Depth: 3484 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 223.18 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 3460
feet depth to: Surface w/ 525 sks _____ sx cmt.

Drilling Fluid Management Plan AH II NCR 4-16-10
(Data must be collected from the Reserve Pit)
Chloride content: 16,000 ppm Fluid volume: 240 bbls
Dewatering method used: Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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] APR 15 2010
Title: Pres Date: 4/9/10
Subscribed and sworn to before me this 9th day of April
20 10
Notary Public: [Signature]
Date Commission Expires: 5/21/2011

KCC Office Use ONLY

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

RECEIVED
KANSAS CORPORATION COMMISSION

CONSERVATION DIVISION
WICHITA, KS

STATE OF KANSAS
5/21/2011

Operator Name: Black Diamond Oil, Inc. Lease Name: Bouchey Well #: 1
 Sec. 26 Twp. 8 S. R. 19 East West County: Rooks

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline 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 <i>(Submit Copy)</i> List All E. Logs Run: Sonic, Compensated density neutron, Dual induction & Micro	<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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1389</td> <td>+598</td> </tr> <tr> <td>Topeka</td> <td>2918</td> <td>-931</td> </tr> <tr> <td>Heebner</td> <td>3126</td> <td>-1139</td> </tr> <tr> <td>Lansing KC</td> <td>3164</td> <td>-1177</td> </tr> <tr> <td>Base KC</td> <td>3384</td> <td>-1397</td> </tr> <tr> <td>Arbuckle</td> <td>3423</td> <td>-1436</td> </tr> </table>	Name	Top	Datum	Anhydrite	1389	+598	Topeka	2918	-931	Heebner	3126	-1139	Lansing KC	3164	-1177	Base KC	3384	-1397	Arbuckle	3423	-1436
Name	Top	Datum																				
Anhydrite	1389	+598																				
Topeka	2918	-931																				
Heebner	3126	-1139																				
Lansing KC	3164	-1177																				
Base KC	3384	-1397																				
Arbuckle	3423	-1436																				

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	12 1/4	8 5/8	23	223	Common	150	3%CC2%Gel
Production	7 7/8	5 1/2	14	3452	SMD	525	

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	3427-30 RECEIVED KANSAS CORPORATION COMMISSION Bridge Plug	250 gals 15% MCA & 1000 gals Mod 202	3400
4	3357-59 APR 15 2010	250 gals 15% MCA & 750 gals 20% NE	
4	3316-18 CONSERVATION DIVISION WICHITA, KS	500 gals 15% MCA & 750 gals 20% NE	

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3360</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>1/12/2010</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>25</u>	Gas Mcf <u>0</u>	Water Bbls. <u>50</u>	Gas-Oil Ratio <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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Outbound
PIPE TALLY

Date 11/16/09



Black Diamond (C)

Company _____

Lease _____

	Size		New	Used	Limited Service	Weight		Grade	Type	Range
	Feet	In.				Feet	In.			
1	42	5								
2		5								
3	42	5								
4		5								
5										
6	42	10								
7	42									
8		8.5								
9										
10		5								
11	42	10								
12	42	5								
13		9								
14										
15		7								
16										
17		6								
18	42	5								
19		10								
20	42									
Total	858.5									

3274.30

Subtotal this page

RECEIVED
KANSAS CORPORATION COMMISSION

84 + 2 = 86 1/2
Total Number of Joints

19 -
19.50

APR 15 2010

CONSERVATION DIVISION
WICHITA, KS

Tallied By

3632.70

GRAND TOTAL

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
 headbill 43-5
 (KANSAS REG. FILE NO. OR 7-1111)
 1-2000 431 2250

CONTRACTOR
 Discovery Drilling Co. Inc.

DATE
 Tues.
 11-17-09

COMPANY
 Black diamond oil Co.

LEASE
 Bouchey

WELL NO.
 1

RIG NO.
 1

DISTRICT

COUNTY
 Rooks

STATE
 KS

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3484		RTD Arbuckle				Kenny Jones	8
3486		LTD				John Mehl	8
						Andrew Benedick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
°	FT.						
DEG. OFF		(3 hrs Daywork)				Terry James	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	3 3/4	SIZE D. P.	
SIZE	7 3/8 AR	VISC.		LOGGING	3 3/4	SIZE COLL.	
MAKE	GX200	WTR. LOSS-C.C.		OTHER	1 1/4	JTS. D. P.	FT.
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	224	PH		TRIP		COLLARS	FT.
HOURS RUN	6 3/4	MTL. ADDED (REMARKS)		TOTAL			FT.

REMARKS: 1100-215 Logging 215-30 WOT 330-400 make 42 tool 400-530 in 400L
 530-630 TOB 630-700 OUT 1/4 COL

(Change oil Dicks Pump)

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3484		RTA Arbuckle			200	Louis Mlinak	8
						Randy Buzgell	8
						Stan Love Lady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		DST# 3 30 87-3120			
°	FT.						
DEG. OFF		(3 hrs Daywork)				S. J. Borne	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	3	SIZE D. P.	
SIZE	7 3/8 AR	VISC.		OTHER	Rig up	SIZE COLL.	
MAKE	GX200	WTR. LOSS-C.C.		REPAIRS	to run 1 1/4	JTS. D. P.	FT.
SERIAL NO.	5165472	FILTER CAKE		TRIP	OTCH 1	KELLY DOWN	FT.
DEPTH IN	224	PH		TOTAL		COLLARS	FT.
HOURS RUN	6 3/4	MTL. ADDED (REMARKS)					FT.

REMARKS: 7:00 TO 9:15 Pull Test. Dump Fluid. Log down tool. 9:15 TO 9:45 Trip in w/ B.T. 9:45 TO 10:45
 C.T.C.H. INSTO 1:45 Log down Pipe. INSTO 3:00 Rig up to Run Pipe. + set call.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3484		RTA Arbuckle				Justin Bunting	8
						Core Adamson	8
						Chuck Dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
°	FT.						
DEG. OFF		(3 1/2 hrs Daywork)				Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING	5 1/2	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: 3:00-4:15 Run 5 1/2 4" 4 1/2 Circ 5 1/2 IN. T. IN CEMENT, 4 1/2-6:00 CEMENT 5 1/2.
 6:00-6:30 SET SLIPS. 6:30-11:00 TEAR DOWN TOOLS.
 (Rig RELEASED @ 6:30 P.M. 11/17/09)

RECEIVED
 KANSAS CORPORATION COMMISSION

APR 15 2010

CONSERVATION DIVISION
 WICHITA, KS

DAILY DRILLING REPORT

Reahbil 43-5

TRACTOR
Discovery Drilling Co. Inc.

DATE
MON.
11-16-09

COMPANY
Black Diamond Oil Co.

LEASE
Bouchey

WELL NO. 1
RIG NO. 1
G. P. STRING NO.
SIZE

DISTRICT COUNTY STATE
Rooks KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3250	3380	Line Eschel	80	40000	700	Kenny Jones	8
						John Mehl	8
						Andrew Benedick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
		DST#2 3307-3350 43' Anchor					
		60-60-60-60					
		Rec 70' C.O.				Tevvy Jones 8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	2	SIZE D. P.	
SIZE	7 7/8	VISC.		CORING		SIZE COLL.	
MAKE	GX20C	WTR. LOSS-C.C.		OTHER	DST#2 6	JTS. D. P.	FT.
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	224	PH.		TRIP		COLLARS	FT.
HOURS RUN	62	MTL. ADDED (REMARKS)		TOTAL		TOTAL	FT.

REMARKS: 11:00-2:30 TOB 2:30-3:30 OUTW TOOL 3:30-3:45 FIREAK LAY (D) DOWN 3:45 500 10" BIT 500-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3380	3421	Shale + lime	80	40000	700	Jason Shewalter	8
						Chuck Dick	8
						Ryan Lovelady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
		(5 1/2 hrs Layover)				Syl Prome 8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING	2 1/2	SIZE D. P.	
SIZE	7 7/8 19A	VISC.		CORING		SIZE COLL.	
MAKE	GX20C	WTR. LOSS-C.C.		OTHER	5 1/2	JTS. D. P.	FT.
SERIAL NO.	5165472	FILTER CAKE		REPAIRS	1/4	KELLY DOWN	FT.
DEPTH IN	324	PH.		TRIP		COLLARS	FT.
HOURS RUN	64 1/4	MTL. ADDED (REMARKS)		TOTAL		TOTAL	FT.

REMARKS: 7:00 TO 7:15 DS: 11, 7:15 TO 8:45 CFS @ 3390 8:45 TO 9:15 DRILL, 9:15 TO 11:00 CFS @ 3410 (less 1 hr Valve for Gusher), 11:00 TO 11:30 DRILL, 11:30 TO 12:30 CFS @ 3415, 12:30 TO 12:45 DRILL, 12:45 TO 2:15 CFS @ 3418, 2:15 TO 2:30 DRILL, 2:30 TO 3:00 CFS @ 3421

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3421	3484	SHALE + Lime	80	40,000	700	Justin Bunting	8
						Chuck Dick	8
						George Lovelady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
3484		Separation					
1 1/4		(5 hrs Layover)				Stan Lovelady 8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	9.2	DRILLING	2 1/2	SIZE D. P.	5 GEL
SIZE	7 7/8 RR	VISC.	53	CORING	1/4	SIZE COLL.	3 SODA ASH
MAKE	GX20C	WTR. LOSS-C.C.		OTHER	Riqv	JTS. D. P.	2 CAUSTIC
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	1 LIQUID
DEPTH IN	224	PH.		TRIP	LOG 2 1/4	COLLARS	4 DISPAC
HOURS RUN	66 3/4	MTL. ADDED (REMARKS)		TOTAL	2 3/4	TOTAL	25 HULLS

REMARKS: 3:00-3:30 CFS @ 3421 3:30-3:45 DRILG 3:45-4:00 RIG @ 3422 PICK UP PIT AND 4:00-4:15 DRILG, 4:15-5:15 CFS @ 3426 5:15-7:00 DRILG, 7:00-7:15 CFS @ 3470 7:15-7:45 DRILG, 7:45-8:45 CFS @ 3484 8:45-10:15 DRILG SUSP SPOT + TRIP OUT FOR LOG 10:15-

APPROVED: 11:00 Logging

RECEIVED
KANSAS CORPORATION COMMISSION

APR 15 2010

CONSERVATION DIVISION
WICHITA, KS

DAILY DRILLING REPORT
 hrcbill 43-5

CONTRACTOR
 Discovery Drilling Co Inc

DATE
 Sun. 11-15-09

COMPANY
 Black diamond oil co

LEASL
 Bouchey

DISTRICT
 ROOKS

COUNTY
 KS

WELL NO.
 1

RIG NO.
 1

D. P. STRING NO.
 1

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3220		Lime & Shale	80	4000		Kenny Jones John Mehl Andrew Benedick	8
		(8 hrs Daywork)					
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
W	FT.	DST#1 3186-3220 34' Anchor					
1/2	DEG. OFF	30-30-30-30 Rec.		STVAP 1.56 Lbs (25)		Trevy 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	WISC		CORING		SIZE COLL.	
MAKE	GA20C	WTR LOSS C.C.		OTHER	DST#1 6	ITS. D. P.	FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT
DEPTH IN	224	PH.		TRIP	ST 1	COLLARS	FT
HOURS RUN	52 3/4	MTL. ADDED (REMARKS)			CLIC 1	TOTAL	FT

REMARKS: 1:00-1:20 Short Trip 18' w/ tool @ 3220 1:20-1:50 CAST 100 245 OWT TRIVAP PIPE
 2:45-3:00 Make up tool 3:00-4:15 IN W/ COIL 4:15-6:15 TRB 6:15-7:00 OWT W/ TOOL

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3220	3308	Shale + Lime	80	4000	700	Larry Mlinok Randy Baggall Stan Lovelady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
W	FT.	DST#1 3186-3320					
	DEG. OFF	Rec 180' Gas 350 w/ 30' oil (2 3/4 hrs Daywork)		(25) Sgt Rance			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	5	SIZE D. P.	GEL-10
SIZE	7 3/8 R/B	WISC		CORING	Con In	SIZE COLL.	CAUST-2
MAKE	GA20C	WTR LOSS C.C.		OTHER		ITS. D. P.	LIG-1 FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS	1/4	KELLY DOWN	STASH-8
DEPTH IN	224	PH.		TRIP	1/4	COLLARS	DRUS-4VSK
HOURS RUN	57 3/4	MTL. ADDED (REMARKS)			DST#1 2 1/4	TOTAL	HAULS-15

REMARKS: 7:00-8:00 Pull Test Dump Fluid Clean up give to 9:15 Trip in w/ Bit + P.A.P.M. - 9:15 TO
 10:00 Drill 11:00 TO 10:15 GET#1 add Premix 11:15 TO 12:15 Drill 12:15 TO 12:30 Change Head
 Premix Side 12:30 TO 3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3308	3350	Shale + Lime	80	4000	700	Justin Bunting Chuck Dick George Lovelady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
W	FT.	DST#2 3307-3350 43' Anchor					
	DEG. OFF	(5 3/4 hrs Daywork)		(29) Jason Showalter			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	2 1/4	SIZE D. P.	
SIZE	7 3/8 RR	WISC		CORING		SIZE COLL.	
MAKE	GA20C	WTR LOSS C.C.		OTHER	CRC 2 1/2	ITS. D. P.	FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT
DEPTH IN	224	PH.		TRIP		COLLARS	FT
HOURS RUN	60	MTL. ADDED (REMARKS)			DST#2 3 1/4	TOTAL	FT

REMARKS: 3:00-4:05 Drig 4:05-5:30 CFSE @ 3330 5:30-6:30 Drig 6:30-7:45 CFSE @ 3350
 7:45-9:15 TO 41 DST#2 9:15-10:15 Make up Tool Trip N 10:15-11:00 CRW Test

APPROVED

RECEIVED
 KANSAS CORPORATION COMMISSION
 TOOL
 PUSHER
 APR 15 2010
 CONSERVATION DIVISION
 WICHITA, KS

DAILY DRILLING REPORT

Headbill 43-5 BSA 005 242-5A 2101 1210 13 2101

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

11-14-09

COMPANY

Black diamond oil co

LEASE

Bouchey

WELL NO.

RIG NO.

D. P. STRING NO.

SIZE

DISTRICT

COUNTY

ROOKS

KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2768	2977	Shale + line	80	4000	200	Kenny Jones	8
						John Mehl	8
						Andrew Benedick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
6"	FT						
D.G. OFF						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.	
SIZE	7/8 RR	VISC		CORING CON	1/2	SIZE COLL.	
MAKE	GA200	WTR. LOSS-C.C.		OTHER	VR16 1/4	JTS. D. P.	FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT
DEPTH IN	224	PH		TRIP		COLLARS	FT
HOURS RUN	4 3/4	MTL. ADDED (REMARKS)			Jet 3/4	TOTAL	FT

REMARKS: 100-1130 Drill 130-1145 @ 2796 VR16 1145-1200 Drill 1230-1300 @ 2826 (Leak suction/sweat)
 100-115 Drilling Displacing 115-130 @ 2839 JET (Displaced) 130-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2977	3130	Shale + line	80	4000	700	Larry Mlinek	8
						Randy Baszall	8
						Stan Kovelady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
6"	FT						
D.G. OFF						Syl Rame	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	8.6	DRILLING	5 1/2	SIZE D. P.	
SIZE	7/8 RR	VISC	6.3	CORING CON	1/2	SIZE COLL.	
MAKE	GA200	WTR. LOSS-C.C.	80	OTHER	1/4	JTS. D. P.	FT
SERIAL NO.	5165472	FILTER CAKE	1/2	REPAIRS		KELLY DOWN	FT
DEPTH IN	224	PH	10.5	TRIP		COLLARS	FT
HOURS RUN	4 1/2	MTL. ADDED (REMARKS)			dir 130	TOTAL	FT

REMARKS: 7:00 TO 7:15 Set Rig @ 2983. 7:15 TO 12:00 Drill 12:00 TO 1:15 CFS @ 3102. 1:15 TO 2:30 Drill, 2:30 TO 3:00 CFS @ 3130

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3130	3220	Shale + line	80	4000	200	Justin Bunting	8
						Cory Adamsen	8
						Chuck Dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
6"	FT						
D.G. OFF						Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	8.6	DRILLING	4 1/4	SIZE D. P.	
SIZE	7/8 RR	VISC	5.5	CORING CON	1/4	SIZE COLL.	
MAKE	GA200	WTR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS	3/4	KELLY DOWN	FT
DEPTH IN	224	PH		TRIP		COLLARS	FT
HOURS RUN	5 3/4	MTL. ADDED (REMARKS)				TOTAL	FT

REMARKS: 3:00-3:45 CFS @ 3130 3:45-4:15 Only 4:15-4:30 Rig @ 3140 4:30-7:15 Only 7:15-8:30 CFS @ 3195 8:30-9:45 Only 9:45-11:00 CFS @ 3220

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CONSERVATION DIVISION WICHITA, KS

DAILY DRILLING REPORT
 HONOLULU 43-5
 HONOLULU, HAWAII 96813
 300.441.7200

CONTRACTOR: Discovery Drilling Co. Inc. DATE: Fri 11-13-09
 COMPANY: Blackdiamond oil co. LEASE: Boucheq
 DISTRICT: COUNTY: STATE: Rooks KS
 WELL NO.: 1 HIGH NO.: 1
 D. P. STRING NO.: SIZE:

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2014	2300	Shale	80	40000 35000	50	Kenny Jones	8
						John Mchil	8
						Andrew Benedick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
OF	FT.						
DEC. OFF		FVAC Full				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.	Gel 50
SIZE	7 3/8 PR	VISC.		CORING	CON 3/4	SIZE COLL.	2-CAU 2
MAKE	6x20c	WTR. LOSS C.C.		OTHER	VR16 1/4	JTS. D. P.	2-1/2 2
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	Soda 4
DEPTH IN	224	PH.		TRIP		COLLARS	1/2
HOURS RUN	2 1/4	MTL. ADDED (REMARKS)			Jet 1/2	TOTAL	Hulls 4

REMARKS: 1100-1130 Drill 1130-1145 @ 2045 VR16 1145-1200 Drill 1230-1245 @ 2077 Jet #1 ADD FLUSH
 1245-530 Drill 530-545 @ 2263 Jet #1 545-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2300	2533	Shale	80	37500	750	Larry Mlinak	8
						Randy Bassall	8
						Ston Lovclady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
OF	FT.						
DEC. OFF						Syl Rome	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	6	SIZE D. P.	GEL-19
SIZE	7 3/8	VISC.		CORING	CON 3/4	SIZE COLL.	S. XST-1
MAKE	6x20c	WTR. LOSS C.C.		OTHER	✓ 1/2	JTS. D. P.	Hulls 6
SERIAL NO.	5165472	FILTER CAKE		REPAIRS	3/4	KELLY DOWN	
DEPTH IN	224	PH.		TRIP		COLLARS	
HOURS RUN	3 1/4	MTL. ADDED (REMARKS)			Jet 1/4	TOTAL	

REMARKS: 7:00 TO 7:30 Drill, 7:30 TO 7:45 S. Rig @ 2327, 7:45 TO 10:00 Dr. 1), 10:00 TO 10:15 Valve Top Gaskets
 @ 2049, 10:15 TO 10:45 Drill, 10:45 TO 11:00 Jet #1 @ 2451, 11:00 TO 11:45 Dr. 1), 11:45 TO 2:30 Work on
 Pm oil line, 2:30 TO 3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2533	2768	Shale	80	38500	750	Justin Bunting	8
						Cory Adamson	8
						Chuck Dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
OF	FT.						
DEC. OFF		#2 Full Lead Tank				Jason Showalter	8

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.		CORING	CON 3/4	SIZE COLL.	2-C
MAKE	6x20c	WTR. LOSS C.C.		OTHER	✓ 1/4	JTS. D. P.	2-L
SERIAL NO.	5165472	FILTER CAKE		REPAIRS	1/4	KELLY DOWN	4-5 ft
DEPTH IN	224	PH.		TRIP		COLLARS	1/2-SLK Pac
HOURS RUN	3 1/2	MTL. ADDED (REMARKS)			Jet 1/2	TOTAL	10-Hulls

REMARKS: 3:00-3:15 Rig @ 2545 3:15-4:15 Dr. 1 4:15-4:30 NP oil line 4:30-5:15 Dr. 1
 5:15-5:30 Jet #1 @ 2607 Add Flush 5:30-8:30 Dr. 1 8:30-8:45 Jet #2 @ 2702 8:45-11:00 Dr. 1

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CONSERVATION DIVISION
 WICHITA, KS

100L
 PUSHER

DAILY DRILLING REPORT
 headbill 43-5 30x30x11.5x11.5 OR 74101
 1-1000 101 1206
 COMPANY
 Blackdiamond oil co.
 DISTRICT

CONTRACTOR
 Discovery Drilling Co. Inc.
 LEASE
 Bouchee
 COUNTY
 Rooks
 STATE
 KS

DATE
 Thurs
 11-12-09
 WELL NO
 1
 RIG NO.
 1
 D.P. STRING NO.
 SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
259	1113	Sand & shale	90	20000	600	Kenny Jones	8
						John Mehl	8
880	1105	Sand				Andrew Beneduck	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
W	FT						
DEG. OFF						Terry Jones	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	5 1/4	SIZE D.P.	
SIZE	7 3/8 RR	VISC.		CORING	CON 1/2	SIZE COLL.	
MAKE	Gx20C	WTR. LOSS-C.C.		OTHER	VRG 1/4	ITS. D.P.	FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT
DEPTH IN	224	PH		TRIP		COLLARS	FT
HOURS RUN	6	MTL. ADDED (REMARKS)		TRIP	Jet 1/4	TOTAL	FT

REMARKS: 1100-1115 VRIG @ 289 1115-430 Drill 430-445 @ 758 Jet #1 445-700 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1113	1389	Shale + Sand	90	30000	700	Larry Mink	8
1389	1426	Ambr				Rand Basyall	8
1426	1620	Shale				Stan Love Lady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
W	FT						
DEG. OFF						Syl Rome	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	5 3/4	SIZE D.P.	6 1/2 - 50
SIZE	7 3/8 RR	VISC.		CORING	CON 1/2	SIZE COLL.	CRUST - 2
MAKE	Gx20C	WTR. LOSS-C.C.		OTHER	✓ 1/4	ITS. D.P.	4 1/2 - 2 1/2
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	5.15H - 4
DEPTH IN	0	PH		TRIP		COLLARS	DRIS - 12 SK
HOURS RUN	11 3/4	MTL. ADDED (REMARKS)		TRIP	Jet 1/2	TOTAL	Halls 4

REMARKS: 7:00 TO 7:15 Drill, 7:15 TO 7:30 Ser Rig @ 1136, 7:30 TO 7:45 Drill, 7:45 TO 8:00 Jet #1 @ 1167
 8:00 TO 12:30 Drill, 12:30 TO 12:45 Jet #1 @ 1482, 12:45 TO 3:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1620	2014	Shale	90	30000	700	Justin Bunting	8
						Cory Adamson	8
						Chuck Dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
W	FT						
DEG. OFF						Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT		DRILLING	6	SIZE D.P.	1-54 1/2 44-60
SIZE	7 3/8 RR	VISC.		CORING	CON 1	SIZE COLL.	1-C
MAKE	Gx20C	WTR. LOSS-C.C.		OTHER	✓ 1/4	ITS. D.P.	1-L FT
SERIAL NO.	5165472	FILTER CAKE		REPAIRS	MP Milking 1/2	KELLY DOWN	3-SA FT
DEPTH IN	224	PH		TRIP		COLLARS	1/4-SK PAC
HOURS RUN	17 3/4	MTL. ADDED (REMARKS)		TRIP	Jet 1/4	TOTAL	8-4 1/2 HRS

REMARKS: 3:00-3:15 Rig @ 1637 3:15-5:00 Drily 5:00-5:15 Jet #1 @ 1763 5:15-8:30 Drily
 8:30-9:00 Patch oil Line on MP 9:00-11:00 Drily

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APR 15 2010

CONSERVATION DIVISION
 WICHITA, KS

DAILY DRILLING REPORT
 headbill 43-5
 BOX 316 WICHITA, KS 67201
 PHONE 343-1200

CONTRACTOR: Discovers Dily DATE: WED. 11-11-09
 COMPANY: Black Diamond WELL NO.: 1 RIG NO.: 1
 COUNTY: Rooks STATE: KS D.P. STRING NO.: _____ SIZE: _____

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES	NAME	HRS.
						DM	
						EM	
						H	
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
0'	FT.						
DEG. OFF						DM, H	

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		COLLAPSE	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: _____

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES	NAME	HRS.
0	224	PostRock Shale sand clay	120	111	600	DM Lacey Mlinek	8
						EM Randy Bagwell	8
						H Steg Lovelady	8
SLOPE TEST		ACCIDENT: - (GIVE NAME) Spud @ 8:15				H	
0'	224 FT.						
DEG. OFF						EM	
						EM Syl. Pame	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	3/4	SIZE D.P.	GEL - 15
SIZE	1 1/2"	VISC.		CORING	1	SIZE COLL.	WOC 3/4
MAKE	HP 514	WTR. LOSS C.C.		OTHER	4	JTS. D.P.	HULLS - 5
SERIAL NO.	JD1626	FILTER CAKE		REPAIRS	1	KELLY DOWN	
DEPTH IN	0	PH.		TRIP	3/4	COLLAPSE	
HOURS RUN	3/4	MTL. ADDED (REMARKS)			1/2	TOTAL	

REMARKS: 7:00 to 8:15 Pump Water Mix Vacuum Tank, 8:15 to 10:00 Drilling, 11:12 to 12:15 WOC, 12:15 to 1:00 Drilling, 1:00 to 1:45 Set 8 5/8" 1452' CIRC 8 5/8" 2-2 1/2" Cement 8 5/8" 2' 5" - 3' WOC.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES	NAME	HRS.
224	259	SAND + SHALE	90	15 5000 / 20 000	600	EM Justin Bunting	8
						EM Cory Adamson	8
						H Chuck Dick	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
0'	FT.						
DEG. OFF						EM	
						EM Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	3/4	SIZE D.P.	
SIZE	7/8" RR	VISC.		CORING		SIZE COLL.	
MAKE	GM 200	WTR. LOSS C.C.		OTHER		JTS. D.P.	FT.
SERIAL NO.	5165472	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	224	PH.		TRIP		COLLAPSE	FT.
HOURS RUN	3/4	MTL. ADDED (REMARKS)			WOC 7/4	TOTAL	FT.

REMARKS: 3:00-10:15 WOC 10:15-11:00 Drilling

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CONSERVATION DIVISION
 WICHITA, KS

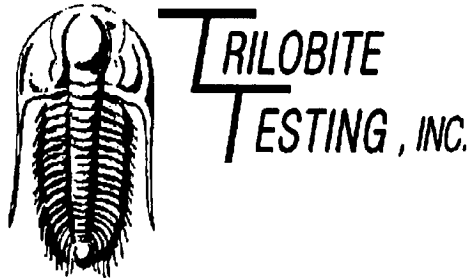
QUALITY OILWELL CEMENTING, INC.

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

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

No. 8964

Date	11/11/09	Sec.	26	Twp.	8	Range	19	County	Rooks	State	KS	On Location		Finish	2:55 PM	
Lease	Boushey	Well No.	1		Location Zurich, 7N, 1E, 1/2 S, 1/2 E, S into											
Contractor	Discovery Drilling Rig #1				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.		223'											
Csg.	8 7/8" 73#		Depth		223'											
Tbg. Size			Depth		Street											
Tool			Depth		City State											
Cement Left in Csg.	15'		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line			Displace		13 1/4 Bbls.											
EQUIPMENT												CEMENT				
Pumptrk	9	No.	Cementer	Paul	Amount Ordered											150 sy Com 3% CC 2% gel
			Helper		Common											
Bulktrk	4	No.	Driver	Neale	Poz. Mix											
			Driver		Gel.											
Bulktrk	PU	No.	Driver	Rocky	Calcium											
			Driver		Hulls											
JOB SERVICES & REMARKS																
Remarks:												Salt				
												Flowseal				
Cement Circulated																
												Handling				
												Mileage				
FLOAT EQUIPMENT																
												Guide Shoe				
												Centralizer				
												Baskets				
												AFU Inserts				
Thank You!!																
												Pumptrk Charge				
												Mileage				
X Signature <i>[Signature]</i>												RECEIVED KANSAS CORPORATION COMMISSION APR 15 2010 CONSERVATION DIVISION WICHITA, KS				
												Tax				
												Discount				
												Total Charge				



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601-0641

ATTN: Tony R.

26-8-19 Rooks KS

Bouchey #1

Start Date: 2009.11.15 @ 02:38:05

End Date: 2009.11.15 @ 08:06:05

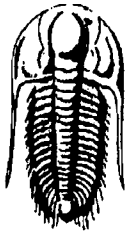
Job Ticket #: 36778 DST #: 1

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APR 15 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36778

DST#: 1

ATTN: Tony R.

Test Start: 2009.11.15 @ 02:38:05

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:16:05

Time Test Ended: 08:06:05

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 47

Interval: **3186.00 ft (KB) To 3220.00 ft (KB) (TVD)**

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1968.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Inside

Press@RunDepth: 182.29 psig @ 3192.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.11.15 End Date: 2009.11.15

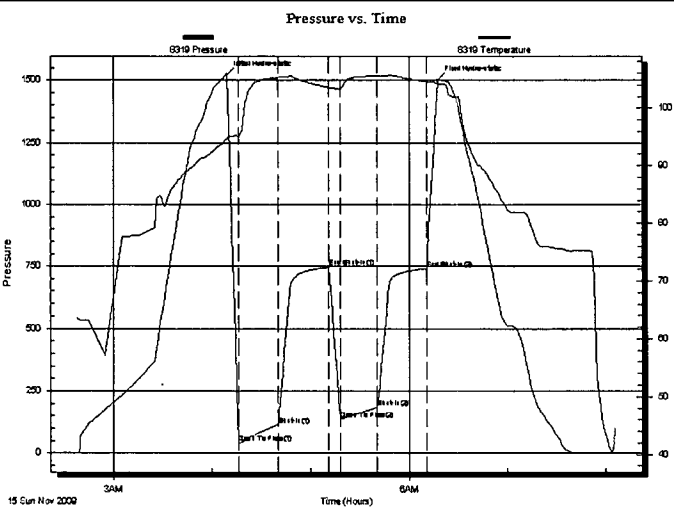
Last Calib.: 2009.11.15

Start Time: 02:38:10 End Time: 08:06:04

Time On Btm: 2009.11.15 @ 04:09:05

Time Off Btm: 2009.11.15 @ 06:17:35

TEST COMMENT: IF BOB 8 min
ISI 2"
FF BOB 12 min
FSI 1 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1521.03	94.62	Initial Hydro-static
7	38.95	95.05	Open To Flow (1)
31	113.68	105.24	Shut-In(1)
62	745.91	103.52	End Shut-In(1)
69	135.81	103.23	Open To Flow (2)
92	182.29	105.50	Shut-In(2)
122	740.03	104.56	End Shut-In(2)
129	1500.18	104.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	Mdy Wtr	4.67
30.00	Free Oil	0.43
0.00	150' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36778

DST#: 1

ATTN: Tony R.

Test Start: 2009.11.15 @ 02:38:05

Tool Information

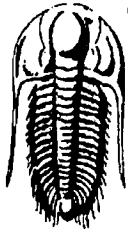
Drill Pipe:	Length: 3166.00 ft	Diameter: 3.82 inches	Volume: 44.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 45.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3186.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3167.00	
Shut In Tool	5.00			3172.00	
Hydraulic tool	5.00			3177.00	
Packer	4.00			3181.00	20.00 Bottom Of Top Packer
Packer	5.00			3186.00	
Stubb	1.00			3187.00	
Perforations	5.00			3192.00	
Recorder	0.00	8319	Inside	3192.00	
Recorder	0.00	8369	Inside	3192.00	
Perforations	25.00			3217.00	
Bullnose	3.00			3220.00	34.00 Bottom Packers & Anchor

Total Tool Length: 54.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36778

DST#: 1

ATTN: Tony R.

Test Start: 2009.11.15 @ 02:38:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	80000 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	Mdy Wtr	4.674
30.00	Free Oil	0.425
0.00	150' GIP	0.000

Total Length: 380.00 ft Total Volume: 5.099 bbl

Num Fluid Samples: 0

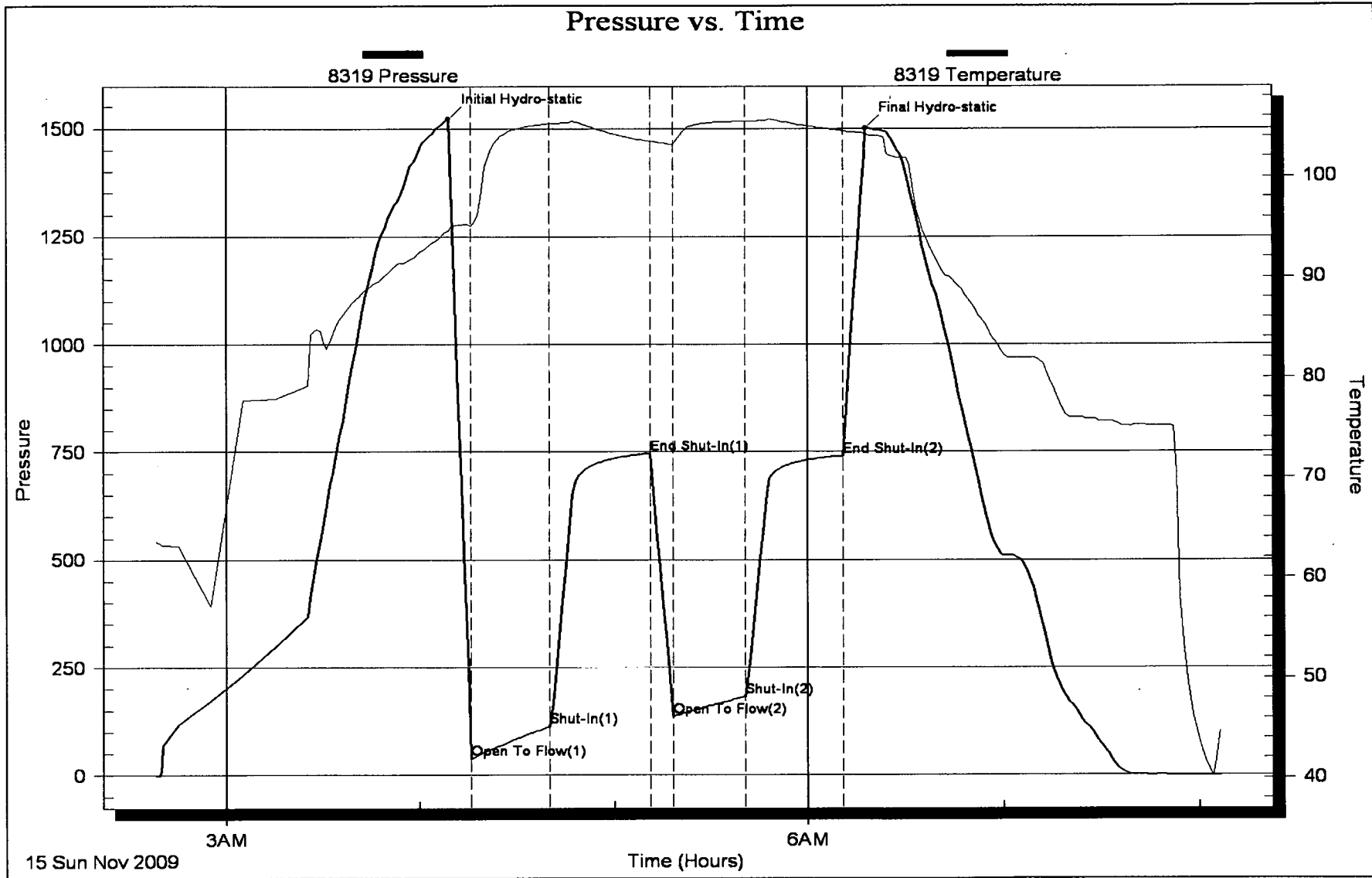
Num Gas Bombs: 0

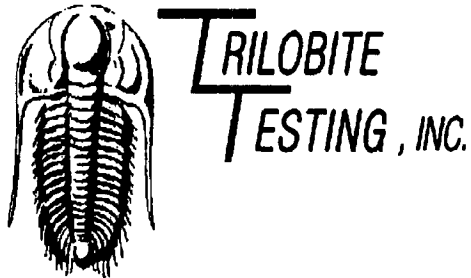
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .12 @ 60 deg





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601-0641

ATTN: Tony R.

26-8-19 Rooks KS

Bouchey #1

Start Date: 2009.11.15 @ 21:19:05

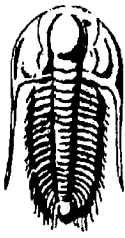
End Date: 2009.11.16 @ 03:48:35

Job Ticket #: 36779 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

PO Box 641
Hays, KS 67601-0641

ATTN: Tony R.

Bouchey #1

26-8-19 Rooks KS

Job Ticket: 36779

DST#: 2

Test Start: 2009.11.15 @ 21:19:05

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:23:05

Time Test Ended: 03:48:35

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 47

Interval: **3307.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1976.00 ft (KB)

1968.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press@RunDepth: 40.35 psig @ 3314.00 ft (KB)

Start Date: 2009.11.15

End Date:

2009.11.16

Start Time: 21:19:10

End Time:

03:48:34

Capacity: 7000.00 psig

Last Calib.: 2009.11.16

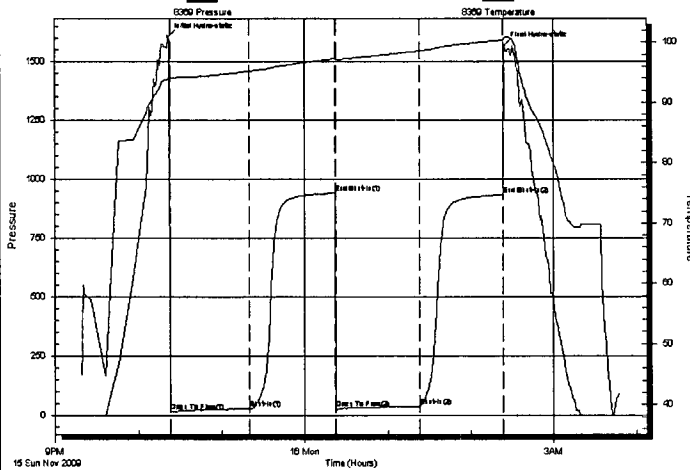
Time On Btm: 2009.11.15 @ 22:21:35

Time Off Btm: 2009.11.16 @ 02:24:05

TEST COMMENT: IF 6"

FF 6"

Pressure vs. Time



PRESSURE SUMMARY

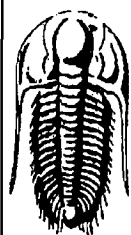
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.26	93.91	Initial Hydro-static
2	16.16	93.84	Open To Flow (1)
59	29.88	95.19	Shut-In(1)
121	941.24	97.32	End Shut-In(1)
121	31.70	97.07	Open To Flow (2)
182	40.35	98.59	Shut-In(2)
242	932.70	100.34	End Shut-In(2)
243	1564.15	100.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCO 75%O 25%M	0.07
60.00	Free Oil	0.70
0.00	150' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36779

DST#: 2

ATTN: Tony R.

Test Start: 2009.11.15 @ 21:19:05

Tool Information

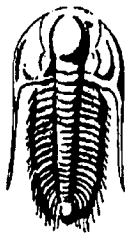
Drill Pipe:	Length: 3262.00 ft	Diameter: 3.82 inches	Volume: 46.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 46.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3307.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3288.00	
Shut In Tool	5.00			3293.00	
Hydraulic tool	5.00			3298.00	
Packer	4.00			3302.00	20.00 Bottom Of Top Packer
Packer	5.00			3307.00	
Stubb	1.00			3308.00	
Perforations	5.00			3313.00	
Change Over Sub	1.00			3314.00	
Recorder	0.00	8319	Inside	3314.00	
Recorder	0.00	8369	Inside	3314.00	
Blank Spacing	31.00			3345.00	
Change Over Sub	1.00			3346.00	
Perforations	1.00			3347.00	
Bullnose	3.00			3350.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36779 **DST#: 2**

ATTN: Tony R.

Test Start: 2009.11.15 @ 21:19:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

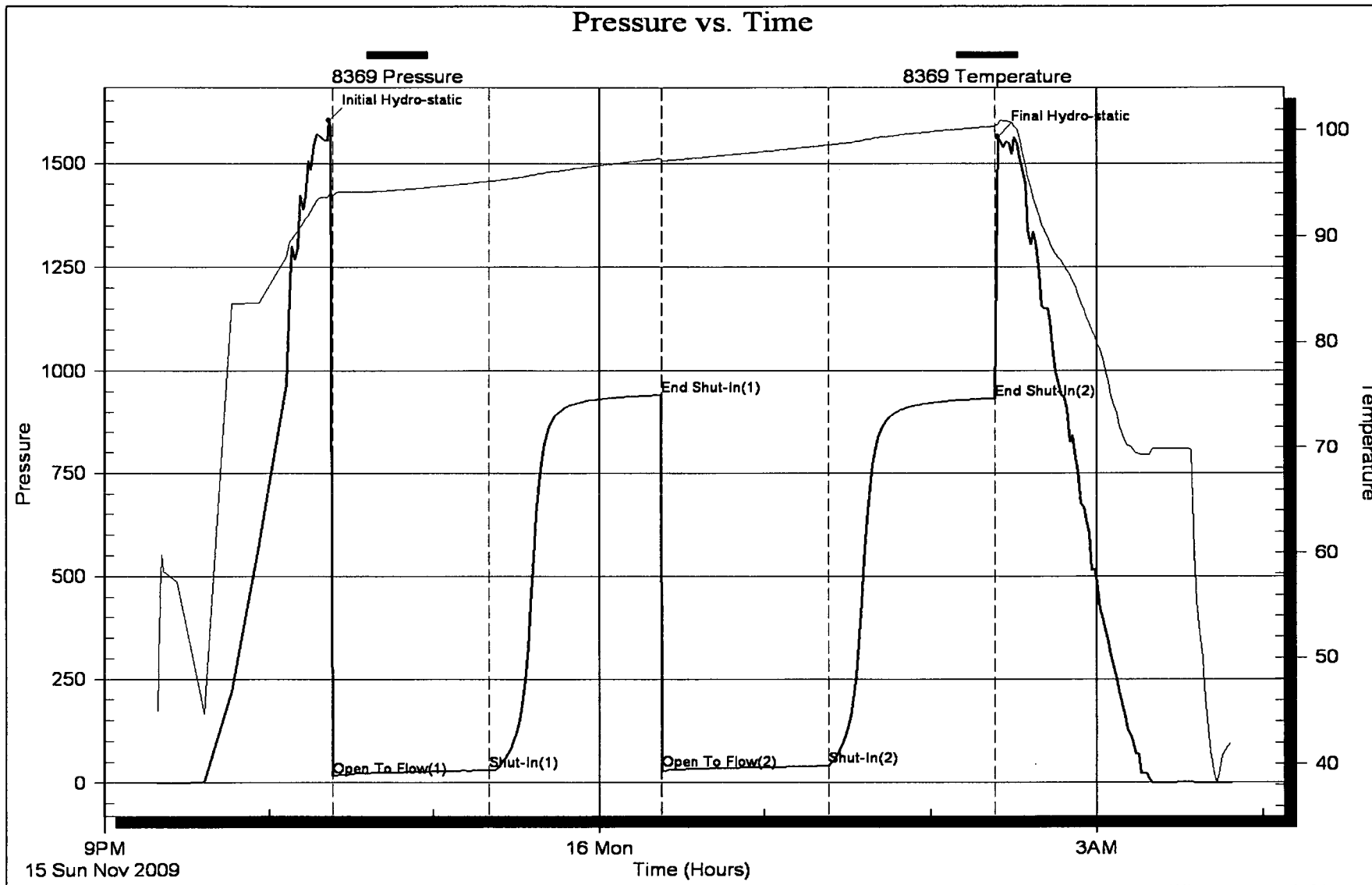
Length ft	Description	Volume bbl
15.00	MCO 75%O 25%M	0.074
60.00	Free Oil	0.702
0.00	150' GIP	0.000

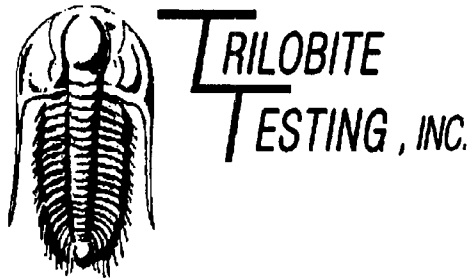
Total Length: 75.00 ft Total Volume: 0.776 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601-0641

ATTN: Tony R.

26-8-19 Rooks KS

Bouchey #1

Start Date: 2009.11.17 @ 04:11:10

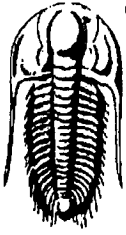
End Date: 2009.11.17 @ 08:00:10

Job Ticket #: 36780 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36780

DST#: 3

ATTN: Tony R.

Test Start: 2009.11.17 @ 04:11:10

GENERAL INFORMATION:

Formation: **Oread**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:28:40

Time Test Ended: 08:00:10

Test Type: **Conventional Straddle**

Tester: **Kyle Kinderknecht**

Unit No: **47**

Interval: **3087.00 ft (KB) To 3120.00 ft (KB) (TVD)**

Total Depth: **3486.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1976.00 ft (KB)**

1968.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8369 **Inside**

Press@RunDepth: **21.36 psig @ 3088.00 ft (KB)**

Start Date: **2009.11.17**

End Date: **2009.11.17**

Start Time: **04:11:15**

End Time: **08:00:10**

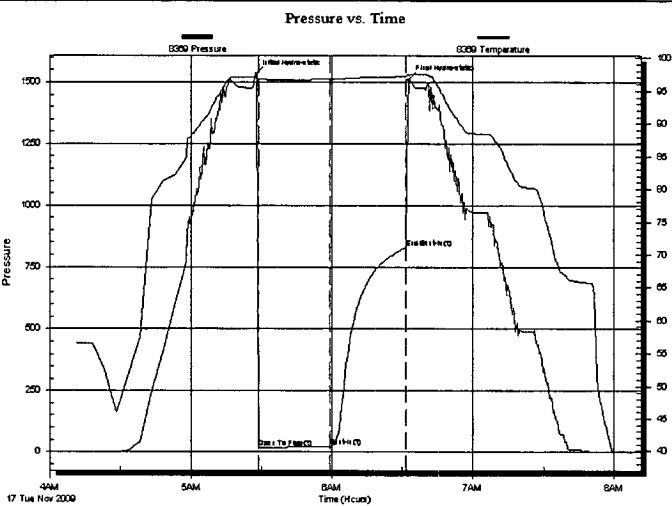
Capacity: **7000.00 psig**

Last Calib.: **2009.11.17**

Time On Btm: **2009.11.17 @ 05:27:40**

Time Off Btm: **2009.11.17 @ 06:32:40**

TEST COMMENT: **IF Surface died 12 min**



PRESSURE SUMMARY

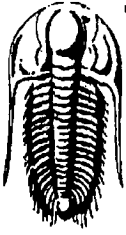
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.48	97.13	Initial Hydro-static
1	16.73	96.45	Open To Flow (1)
32	21.36	96.73	Shut-In(1)
64	828.78	97.17	End Shut-In(1)
65	1510.17	97.41	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36780

DST#: 3

ATTN: Tony R.

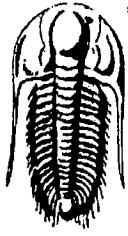
Test Start: 2009.11.17 @ 04:11:10

Tool Information

Drill Pipe:	Length: 3060.00 ft	Diameter: 3.82 inches	Volume: 43.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.53 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3087.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3120.00 ft			
Interval between Packers:	33.00 ft			
Tool Length:	426.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3061.00	
Shut In Tool	5.00			3066.00	
Hydraulic tool	5.00			3071.00	
Jars	4.00			3075.00	
Safety Joint	3.00			3078.00	
Packer	4.00			3082.00	27.00 Bottom Of Top Packer
Packer	5.00			3087.00	
Stubb	1.00			3088.00	
Recorder	0.00	8369	Inside	3088.00	
Perforations	28.00			3116.00	
Recorder	0.00	13308	Inside	3116.00	
Blank Off Sub	1.00			3117.00	
Blank Spacing	3.00			3120.00	33.00 Tool Interval
Packer	0.00			3120.00	
Stubb	1.00			3121.00	
Recorder	0.00	8319	Below	3121.00	
Perforations	13.00			3134.00	
Change Over Sub	1.00			3135.00	
Blank Spacing	347.00			3482.00	
Change Over Sub	1.00			3483.00	
Bullnose	3.00			3486.00	366.00 Bottom Packers & Anchor
Total Tool Length:	426.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

Bouchey #1

PO Box 641
Hays, KS 67601-0641

26-8-19 Rooks KS

Job Ticket: 36780

DST#: 3

ATTN: Tony R.

Test Start: 2009.11.17 @ 04:11:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

