

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 7076

Name: Black Diamond Oil, Inc.

Address 1: 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: Coffeyfile Resources

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

<u>4/14/2011</u>	<u>4/18/2011</u>	<u>4/27/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 163-23,949-00-00

Spot Description: _____

SW SE SW Sec. 22 Twp. 8 S. R. 19 East West

330 Feet from North / South Line of Section

1,650 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Rooks

Lease Name: Green D Well #: 1

Field Name: Webster

Producing Formation: _____

Elevation: Ground: 1958 Kelly Bushing: 1966

Total Depth: 3600 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 223.73 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 3554

feet depth to: Surface w/ 600 sks _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 15,000 ppm Fluid volume: 320 bbls

Dewatering method used: Hauled free fluid

Location of fluid disposal if hauled offsite: _____

Operator Name: Black Diamond Oil, Inc.

Lease Name: Vehige SWD License #: 7076

Quarter SW/4 Sec. 32 Twp. 6 S. R. 20 East West

County: Rooks Permit #: 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.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]

Title: Pro Date: 6/16/2011

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Dig Date: 7/1/11

Operator Name: Black Diamond Oil, Inc. Lease Name: Green D Well #: 1
 Sec. 22 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Sonic, Dual Induction, Neutron/Density, 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:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1380</td> <td>+586</td> </tr> <tr> <td>Topeka</td> <td>2907</td> <td>-941</td> </tr> <tr> <td>Heebner</td> <td>3116</td> <td>-1150</td> </tr> <tr> <td>Lansing KC</td> <td>3158</td> <td>-1192</td> </tr> <tr> <td>Arbuckle</td> <td>3405</td> <td>-1439</td> </tr> </table>	Name	Top	Datum	Anhydrite	1380	+586	Topeka	2907	-941	Heebner	3116	-1150	Lansing KC	3158	-1192	Arbuckle	3405	-1439
Name	Top	Datum																	
Anhydrite	1380	+586																	
Topeka	2907	-941																	
Heebner	3116	-1150																	
Lansing KC	3158	-1192																	
Arbuckle	3405	-1439																	

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	223.73	Common	150	2%Gel3%CC
Production St.	7 7/8	5 1/2	14	3554	AMDC	600	

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	3407-09	250 gals 15% MCA	

TUBING RECORD: Size: <u>2 7/8</u> Set At: <u>3450</u> Packer At: <u>None</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>4/28/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u> Gas Mcf <u>0</u> Water Bbls. <u>40</u> Gas-Oil Ratio _____ Gravity <u>22</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3407-09</u>
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ALLIED CEMENTING CO., LLC. 039593

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

SERVICE POINT:

Russell

DATE <u>4/19/11</u>	SEC. <u>22</u>	TWP <u>8</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>Green D</u>	WELL # <u>1</u>	LOCATION <u>Zurich N to Qrd</u>		COUNTY <u>Rooks</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			<u>1/4 E North</u>				

CONTRACTOR Discovery Drilling Rig #4
 TYPE OF JOB Production String Top to Bottom
 HOLE SIZE 7 7/8 T.D. 3600'
 CASING SIZE 5 1/2 14" 151' DEPTH 3566'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 25.78
 CEMENT LEFT IN CSG. 25.22
 PERFS. _____
 DISPLACEMENT 86.38 bbl

OWNER _____
 CEMENT AMOUNT ORDERED 600 AMD
 COMMON _____ @ RECEIVED _____
 POZMIX _____ KANSAS CORPORATION COMMISSION
 GEL _____ JUN 20 2011
 CHLORIDE _____
 ASC _____ CONSERVATION DIVISION
 @ WICHITA, KS

EQUIPMENT
 PUMP TRUCK CEMENTER Shane, Heath
 # 409 HELPER Tony
 BULK TRUCK
 # 473 DRIVER Pon
 BULK TRUCK
 # 410 DRIVER Todd

<u>AMD 600</u>	@ <u>23.55</u>	<u>14,130.00</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>600</u>	@ <u>2.25</u>	<u>1350.00</u>
MILEAGE <u>111.516 miles</u>		<u>3036.00</u>
TOTAL		<u>18,516.00</u>

REMARKS:

Rot Hole 30sts.
Latdown @ 3540.22
Pipe on Bottom. Est. Circulation.
Bar @ Mixed 600 sts. Shut down
Washed pump + Ciner. Displaced 86.38 bbl
Loaded Plug @ 1790 psi
Float Held 1
Cement Circulated

SERVICE
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 2175.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 92 @ 7.00 644.00
 MANIFOLD _____ @ _____
CU 92 @ 4.00 368.00
 TOTAL 3137.00

CHARGE TO: Black Diamond
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>3 - Baskets</u>	@ <u>236</u>	<u>708.00</u>
<u>8 - Centralizers</u>	@ <u>49.00</u>	<u>392.00</u>
<u>Packet Shoe</u>	@	<u>2316.00</u>
<u>Catch down</u>	@	<u>194.00</u>

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment

Thanks!

DAILY DRILLING REPORT

Form 43-5 (Rev. 1-15-64)

CONTRACTOR

Discovery Drilling Co.

thurs

DATE 4-14-11

COMPANY

Black Diamond Oil

Green "D"

WELL NO 1

WELL NO 4

DISTRICT

COUNTY

Reeks

STATE

KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
						Matl Guffey	5
						Josh Roibe	8
						Michael Smith	8
						Sevin Dinkel	8

REMARKS: 7:00-3:00 Rig up

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
0	40	Sand & Shale	120	All	600	Lory Adamson	8
						Chad Mayfield	8
						Charlie Nelson	8
						Jason Showalter	8

REMARKS: 7:00-9:00 Lom. 9:00-11:15 Rig up. 11:15-12:45 Patchole. 12:45-1:15 Patch. 1:15-2:00 work. 2:00-3:00 Only

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
40	223	Sand & Shale	120	All	400	Trent Shull	8
		Ran 5 Jts new 23" 8 3/4 surface pipe tally @				Willy Wilson	8
		213.73 set @ 223.73 cement by Quality w/150				Mike Schmidt	8
		1" 223 Cement did circulate				Wes Sherrick	8
		3/4" Plug down @ 885					

REMARKS: 3:00-6:15 Drig. 6:15-7:45 Jet Collar Circ. Trip out Charge w/c + Run 8 3/4. 7:45-8:15 Circ + Cement 8 3/4. 8:15-11:00 Unit on Cement.

PRINTED IN U.S.A.

APPROVED

DAILY DRILLING REPORT

Headline 43-5

CONTRACTOR

Discovery Drilling

DATE

4-15-2011

WELL NO.

Black Diamond Oil Inc Green 'D'

WELL NO.

4

DISTRICT

4

COUNTY

Rooks

STATE

Ks

DEPT. NO.

1

4 1/2 x 11'

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
223	320	Sand & Shale	100	15,000	750	Matt E. Jeffrey Josh Koebel Michael Smith	8 8 8

SLUPE TEST	ACCIDENT	WELL NAME	WELL NO.	DATE	TIME	NAME	HRS
						750 Kevin Oinker	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING		SIZE	
WELL	728	WELL		CON	1/4	SIZE	
MARK	6x200	WELL LOGS		OTHER	1 1/2	NET DOWN	
SERIAL NO.	5187090	PISTON BAR		REPAIR		LOGS	
DEPTH IN	223	PI		TRIP		LOGS	
HOURS RUN	2 3/4	MEL ADDED REMARKS			200 5 1/4		

REMARKS: 11:00-4:15 w.o.c. 4:15-5:30 rig 5:30-7:00 work on pump
throttle not working

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
320	360	Sand & Shale	90	20,000	750	Cory Adamson Chad Maxwell Charlie Nelson	8 8 8

SLUPE TEST	ACCIDENT	WELL NAME	WELL NO.	DATE	TIME	NAME	HRS
						90 Jason Shalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING		SIZE	
WELL	724	WELL		CON	2 3/4	SIZE	
MARK	6x200	WELL LOGS		OTHER	1 1/2	NET DOWN	
SERIAL NO.	5187090	PISTON BAR		REPAIR	3 3/4	LOGS	
DEPTH IN	223	PI		TRIP		LOGS	
HOURS RUN	3 3/4	MEL ADDED REMARKS					

REMARKS: 7:00-10:45 w.o/mechanic 10:45-3:00 - Drig.

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JUN 20 2011
CONSERVATION DIVISION
WICHITA, KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
860	1380	Sand & Shale	80	25,000	750	Trent Shall	8
1380	1414	Anhydrite				Willy Wilson	8
1414	1500	Shale				Mike Schmidt	8

SLUPE TEST	ACCIDENT	WELL NAME	WELL NO.	DATE	TIME	NAME	HRS
						116 Wes Sherrick	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING		SIZE	
WELL	728	WELL		CON	6	SIZE	
MARK	6x200	WELL LOGS		OTHER	1 1/2	NET DOWN	
SERIAL NO.	5187090	PISTON BAR		REPAIR	1/4	LOGS	
DEPTH IN	223	PI		TRIP		LOGS	
HOURS RUN	9 3/4	MEL ADDED REMARKS			Jet 1/4		

REMARKS: 3:00-5:45 Drig. 5:45-5:45 Rig & Jet #1 @ 1186 5:45-11:00 Drig.

40
3
2
2
6
12

DAILY DRILLING REPORT

Headline 43-5

CONTRACTOR
Discovery Drilling

Sat
4-16-2011
1 4
1 4 1/2 YH

Black Diamond Oil Well Green "0"
4 Rooks KS

FROM	TO	FORMATION	ROTARY SPEED	WELL DEPTH	WELL TYPE	NAME	TIME
1500	1991	Shale	80	25000	750	Math Guffer Mick Haynes Michael Smith	8 8 8

(150) Kevin Dinkel 8

DATE	TIME	WELL DEPTH	WELL TYPE	NAME	TIME
2	7:38	9.2	9.7	Con	6 1/4
6120C	5187090			Rg	1/4
223	224			Jet	1/2

REMARKS 11:00-11:15 Rig V 11:15-1:00 Drlg 1:00-1:15 Jet # 1 @ 1652 1:15-5:30
Orlg 5:30-5:45 Jet # 1 @ 1929 5:45-7:00 Drlg

FROM	TO	FORMATION	ROTARY SPEED	WELL DEPTH	WELL TYPE	NAME	TIME
1991	2421	Shale	80	30000	750	Cory Adamson Chad Mayfield *Mike Schmidt	8 8 8

Ffac Full one 4 #2 (90) Jason Shewart 8

DATE	TIME	WELL DEPTH	WELL TYPE	NAME	TIME
2	7:38	9.2	9.7	Con	6 1/2
6120C	5187090			✓	1 1/4
223	224			Jet	1/4

REMARKS 7:00-7:30 Rig 7:30-7:45 Rig V @ 2022 7:45-12:00 Drlg 12:00-12:15 Jet # 1 @ 2239 12:15-3:00 Orlg

FROM	TO	FORMATION	ROTARY SPEED	WELL DEPTH	WELL TYPE	NAME	TIME
2421	2752	Shale	80	35000	800	Trent Small Willy Wisert Alice Schmat	8 8 8

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KANSAS CORPORATION COMMISSION
JUN 20 2011
CONSERVATION DIVISION
WICHITA, KS

Mud up 2735 (116) Wes Sherrick 8

DATE	TIME	WELL DEPTH	WELL TYPE	NAME	TIME
2	7:38	9.2	9.7	Con	6
6120C	5187090			✓ Jet	1 1/4
223	28 1/2			Jet	3/4

REMARKS 3:00-3:30 Drlg 3:30-3:45 Rig V Jet # 2 @ 2456 3:45-7:45
- 8:00 Jet # 2 + Clean Section @ 2643 8:00-10:00 Drlg 10:00-10:30 Jet # 1 + Clean Section @
2735 10:30-11:00 Drlg + Lignite mud

DAILY DRILLING REPORT

Form 43-5

OPERATOR
Discovery Drilling
Black Diamond Oil LLC Green 'D'
DISTRICT 4 COUNTY Rocks STATE KS

DATE Syn 4-17-2011
WELL NO 1
HOLE NO 4
DIP 1
SIZE 4 1/2 XH

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
2752	3027	Shale	80	35000	800	Math Grefey Mick Haynes Michael Smith	8 8 8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DLOG OFF		Disphcad 2758		(150) Kevin Oinkel			8
BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT	Chc	1200	DRILLING	7	
SIZE	7/8	VID			CONN	3/4	
MAKE	6120C	WITH LUBES		11	OTHER		
SERIAL NO	5187090	PH		11	REPAIRS		
DEPTH IN	223	MTL. ADDED (REMARKS)				1/4	
HOURS RUN	35 1/2						
REMARKS 11:00-11:15 Jct #4 Wash 2" 100' L19							

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3027	3232	Shale + Lime	80	35000	800	Cory Adamson Chad Mayfield Seremiah Reynolds	8 8 8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DLOG OFF				(90) Jason Showalter			8
BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT	8.8		DRILLING	7 1/4	
SIZE	7/8	VID	57		CONN	1/2	
MAKE	6120C	WITH LUBES			OTHER	1/4	
SERIAL NO	5187090	PH			REPAIRS		
DEPTH IN	223	MTL. ADDED (REMARKS)					
HOURS RUN	42 3/4						
REMARKS 7:00-7:15 Orly 7:15-7:30 Rig ✓ @ 3046 EAPM 7:30-3:00 Orly							

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JUN 20 2011
CONSERVATION DIVISION
WICHITA, KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3232	3398	Shale + Lime	80	35000	750	Trent Small Willy Nelson Mike Schmidt	8 8 8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DLOG OFF		(34 HE Draynes)		(110) Wes Shertick			8
BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	2	WEIGHT			DRILLING	6 1/2	73 Hells
SIZE	7/8	VID			CONN	1/2	8 Gel
MAKE	6120C	WITH LUBES			OTHER	1/4	1 SODA
SERIAL NO	5187090	PH			REPAIRS		2 Caustic
DEPTH IN	223	MTL. ADDED (REMARKS)			CON	1/2	1 LIG
HOURS RUN	49 1/4				PUMP	1/4	1/4 Pac
REMARKS 3:00-4:00 Drly 4:00-4:15 Rig ✓ @ 3264 4:15-5:45 Drly 5:45-6:00 Pick up Pit 11:25-3:27E 6:00-6:30 Drly 10:30-11:00 L19 @ 3398							

DAILY DRILLING REPORT
 Form DR-43-5 (Rev. 07/10/00)

CONTRACTOR
 Discovery Drilling

DATE
 4-18-2011

COMPANY
 Black Diamond Oil LLC

LEASE
 Green "D"

WELL NO
 1
 DISTRICT NO
 4
 DATE
 4/18/11

DISTRICT
 4

COUNTY
 Rocks

STATE
 KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3398	3550	Shale & lime	80	35000	750	Matt Guffey Josh Kozza Michael Smith	8 8 8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DEC OFF		(2 1/4 HRS Dry work)		(150)		Ravin Dinkel	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
WELL NO	2	WELL NO		DRILLING	5 1/2	DRILLING	Mud's 40
SIZE	7 7/8	WELL NO		LOGGING	1 1/4	DRILLING	
MARK	Gx20e	WELL NO		OTHER	1 1/2	DRILLING	
SERIAL NO	5182090	WELL NO		REPAIR		DRILLING	
DEPTH IN	223	WELL NO		TRIP	1 1/4	DRILLING	
HOURS RUN	54 3/4	WELL NO		SHORT TRIP	1 1/4	DRILLING	
MTC ADDED (REMARKS)				CFS 1314			

REMARKS: 11:00-11:45 C.A.S.T. 11:45-12:00 Dry 12:00-1:00 CFS 3400 Log 4:30 Dry
 4:00-4:30 12:00-4:30-7:00 Dry

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3550	3600	Arb. RTD	80	35000	750	Cory Adamson Chad Mayfield Charlie Nelson	8 8 8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DEC OFF		(6 1/2 HRS Dry work)		(90)		Jason Showalter	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
WELL NO	2	WELL NO		DRILLING	1 1/4	DRILLING	
SIZE	7 7/8	WELL NO		LOGGING	1 3/4	DRILLING	
MARK	Gx20e	WELL NO		OTHER	1 1/4	DRILLING	
SERIAL NO	5182090	WELL NO		REPAIR	2	DRILLING	
DEPTH IN	223	WELL NO		TRIP	1 1/4	DRILLING	
HOURS RUN	56	WELL NO		SHORT TRIP	1 1/4	DRILLING	
MTC ADDED (REMARKS)				Short Trip			

REMARKS: 7:00-7:15 Big Ve 3550 7:15-8:30 Dry 8:30-7:30 CFS @ 3600 9:30-10:45 Short Trip 22 3/4
 10:45-11:45 C.A.S.T. 11:45-1:00 Drop S.S. TOY Log 1:00-1:15 Rigup Loggers 1:15-3:00 Logging

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
3600	RTD	Arbelle				Trent Shaw Willy Linder Mike Schmidt	8 8 8
SLOPE TEST		ACCIDENT (GIVE NAME)					
DEC OFF		(8 HRS Dry work)		(110)		Wes Sheriff	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
WELL NO		WELL NO		DRILLING		DRILLING	
SIZE		WELL NO		LOGGING	1	DRILLING	
MARK		WELL NO		OTHER	2 1/4	DRILLING	
SERIAL NO		WELL NO		REPAIR	1/4	DRILLING	
DEPTH IN		WELL NO		TRIP	1 1/2	DRILLING	
HOURS RUN		WELL NO		SHORT TRIP	3	DRILLING	
MTC ADDED (REMARKS)				Loggers			

REMARKS: 3:00-3:30 Logging 6:00-7:30 Trip 11:45-12:00 7:30-8:30 Cond Rate 8:30-10:45
 Lay Down Pipe 10:45-11:00 Rig up 4 1/2"

RECEIVED
 KANSAS CORPORATION COMMISSION
 JUN 20 2011
 CONSERVATION DIVISION
 WICHITA, KS

Tues.

DAILY DRILLING REPORT

Headline 43-5

CONTRACTOR
Discovery Drilling

DATE
4-19-2011

WELL NO
Black Diamond Oil LLC Green 'D'

RIG NO
4

DISTRICT
4

COUNTY
Rooks

D.P. NUMBER
1

WELL
4 1/2 1/4

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS
Pan	83 JTs used	14" 5 1/2 casing	tally	3566.94	DM	Math Guffer	8
set @	3558.94	Cemented by Allied	4700	AM		Josh Koibe	8
30 Rat hole	15 mouse hole					Michael Smith	8

SLOPE TEST
ACCIDENT: -
(IVE NAME)
Plugdown @ 3:30 AM
Rig Released @ 4:00 AM
Gills (Support) (150) Kevin Dinkel 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	WEIGHT	DRILLING	WEIGHT	LOGGING	WEIGHT	DRILLING	WEIGHT
SIZE	LOSS	LOGGING	LOSS	OTHER	LOSS	DRILLING	LOSS
NAME	FILTER CASE	REPAIRS	TRIP	TOTAL			
SERIAL NO	MTL ADDED (REMARKS)						
DEPTH IN							
HOURS RUN							

11:00 - 11:45 Whipple down, rig up casers 11:45 - 1:00 Run 5 1/2
1:00 - 3:30 Rig down casing crew, circ cement 3:30 - 4:00 slip 400-700
Teardown

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS

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JUN 20 2011

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	WEIGHT	DRILLING	WEIGHT	LOGGING	WEIGHT	DRILLING	WEIGHT
SIZE	LOSS	LOGGING	LOSS	OTHER	LOSS	DRILLING	LOSS
NAME	FILTER CASE	REPAIRS	TRIP	TOTAL			
SERIAL NO	MTL ADDED (REMARKS)						
DEPTH IN							
HOURS RUN							

CONSERVATION DIVISION
WICHITA, KS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	WEIGHT	DRILLING	WEIGHT	LOGGING	WEIGHT	DRILLING	WEIGHT
SIZE	LOSS	LOGGING	LOSS	OTHER	LOSS	DRILLING	LOSS
NAME	FILTER CASE	REPAIRS	TRIP	TOTAL			
SERIAL NO	MTL ADDED (REMARKS)						
DEPTH IN							
HOURS RUN							

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	WEIGHT	DRILLING	WEIGHT	LOGGING	WEIGHT	DRILLING	WEIGHT
SIZE	LOSS	LOGGING	LOSS	OTHER	LOSS	DRILLING	LOSS
NAME	FILTER CASE	REPAIRS	TRIP	TOTAL			
SERIAL NO	MTL ADDED (REMARKS)						
DEPTH IN							
HOURS RUN							

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRESS	NAME	HRS

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO	WEIGHT	DRILLING	WEIGHT	LOGGING	WEIGHT	DRILLING	WEIGHT
SIZE	LOSS	LOGGING	LOSS	OTHER	LOSS	DRILLING	LOSS
NAME	FILTER CASE	REPAIRS	TRIP	TOTAL			
SERIAL NO	MTL ADDED (REMARKS)						
DEPTH IN							
HOURS RUN							

P.O. Box 763
Hays, Kansas 67601



Discovery Drilling

Pipe and Tubing Tally Book

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

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KANSAS CORPORATION COMMISSION
JUN 20 2011
CONSERVATION DIVISION
WICHITA, KS
Well No. 1

DATE 4-18-11 COMPANY BLACK diamond LEASE Green "D"

SIZE <u>5 1/2</u>	WEIGHT <u>14</u>	MAKE <u>ST4HL</u>	GRADE	RANGE
THREAD	COLLAR LENGTH	CONDITION	TRANSFER NOS.	OVERALL TALLY <input type="checkbox"/>
				THREADS OFF TALLY <input type="checkbox"/>

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	25	78	21	43	75	41	43	59	61	43	57	81	43	80	101			121			141		
2	43	69	22	43	75	42	43	70	62	43	71	82	43	84	102			122			142		
3	43	78	23	37	77	43	43	34	63	43	75	83	43	74	103			123			143		
4	43	75	24	43	75	44	43	73	64	43	70	84	43	74	104			124			144		
5	43	75	25	43	84	45	43	76	65	42	77	85	43	78	105			125			145		
6	43	75	26	43	91	46	43	75	66	43	76	86	43	80	106			126			146		
7	39	10	27	43	40	47	43	78	67	43	70	87	43	87	107			127			147		
8	43	88	28	42	03	48	43	68	68	42	82	88	43	67	108			128			148		
9	43	72	29	43	76	49	43	77	69	43	71	89			109			129			149		
10	43	70	30	42	-	50	43	50	70	43	53	90			110			130			150		
11	38	50	31	43	73	51	43	79	71	43	76	91			111			131			151		
12	43	12	32	43	87	52	43	86	72	43	68	92			112			132			152		
13	43	56	33	43	34	53	43	76	73	29	86	93			113			133			153		
14	41	36	34	43	74	54	43	72	74	43	72	94			114			134			154		
15	43	73	35	43	52	55	43	78	75	43	77	95			115			135			155		
16	39	91	36	43	85	56	43	68	76	43	72	96			116			136			156		
17	43	76	37	43	76	57	43	52	77	43	76	97			117			137			157		
18	43	74	38	43	68	58	43	78	78	43	76	98			118			138			158		
19	43	73	39	43	68	59	43	74	79	43	73	99			119			139			159		
*20	44	38	40	43	78	60	43	57	80	43	45	100			120			140			160		
	840	53		864	25		873	25		857	53		350	24									

Goes to top of string

3785.80

Totals

Drillers TD 3600 Loggers TD 3602
 No. Jts. Run 83 Size 5 1/2 Wt. 14 Tested 4400#
 Cent@ 1 3 5 7 9 11 13 25
 Basket@ 5 12 52 D.V. Tool@ _____ Port Collar@ _____
 Cemented By ALLIED CEMENTING SKs. Type Cement 600 SX AMO 3054 RAT HOLE
 Flush _____
 Jts. To Be Left On (86) 43.67 (87) 43.87 (88) 43.80 (85) 43.78 (84) 43.74
 Shoe Jt. 25.78 Pipe Set@ 3566.94 Off Bottom 33'
 Plug Down 3:30 AM P.M. 4/19/11 Rig Release@ 4:00 AM P.M. 4/19/11
 Job By Doc Bickler
 Pipe Left On Location 218.86' Jts. Talley _____ Threads On _____

ALLIED CEMENTING CO., LLC. 039593

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

SERVICE POINT: Russell

DATE <u>4/19/11</u>	SEC. <u>22</u>	TWP. <u>8</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 A.M.</u>	JOB FINISH <u>3:30 A.M.</u>
LEASE <u>Free D.</u>	WELL # <u>1</u>	LOCATION <u>Zurich N. r. Qrd</u>		COUNTY <u>Reels</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		<u>1/4 E. North</u>					

CONTRACTOR Discovery Drilling Rig #4
 TYPE OF JOB Production in 2 1/2" Top to Bottom
 HOLE SIZE 7 7/8 T.D. 3600'
 CASING SIZE 5 1/2 14" ID DEPTH 3566'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 25.28
 CEMENT LEFT IN CSG: 25.28
 PERFS. _____
 DISPLACEMENT 86 38 661

OWNER _____
 CEMENT AMOUNT ORDERED _____
 COMMON _____
 POZMIX _____
 GEL _____
 CHLORIDE _____
 ASC _____
 HANDLING _____
 MILEAGE _____

RECEIVED COMMISSION
 KANSAS CORPORATION COMMISSION
 JUN 20 2011
 CONSERVATION DIVISION
 WICHITA, KS

EQUIPMENT

PUMP TRUCK CEMENTER Steve Heath
 # 409 HELPER Tony
 BULK TRUCK _____
 # 473 DRIVER Pon
 BULK TRUCK _____
 # 410 DRIVER Todd

REMARKS:

Rot. Hole 30145
Lat. down @ 3540.22
Doc on Bottom Est. Circulation
Run @ 1100 600 sks shut down
Worked pump & cover. Displaced 86 38 661
Loaded 1790 ps.
Flash Hold
Cement Circulated

CHARGE TO: Black Diamond
 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. 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 Doc Breker
 SIGNATURE DBreker

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

TOTAL _____
 SERVICE _____
PLUG & FLOAT EQUIPMENT

3 - Knobs @ _____
8 - Centralizers @ _____
Anchor shoe @ _____
1 catch beam @ _____
 TOTAL _____

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

GENERAL TERMS AND CONDITIONS

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

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

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

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

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

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

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

—SERVICE CONDITIONS AND LIABILITIES:

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

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

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

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

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

WARRANTIES:

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

2. More specifically:

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

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.