

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM ORIGINAL  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

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: Kenneth Vehige  
Purchaser: \_\_\_\_\_

API No. 15 - 05|26,095-00-00  
Spot Description: \_\_\_\_\_  
SW SE NE SW Sec. 32 Twp. 13 S. R. 20  East  West  
1,570 Feet from  North /  South Line of Section  
3,040 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ellis  
Lease Name: Vehige "D" Well #: 1  
Field Name: Springbrook Dist  
Producing Formation: None

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  WSW  SWD  
 Gas  D&A  ENHR  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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Elevation: Ground: 2325 Kelly Bushing: 2333  
Total Depth: 3975 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 222.99 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 crnt.

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 #: \_\_\_\_\_  
4/11/2011 4/17/2011 4/17/2011  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 16,000 ppm Fluid volume: 320 bbls  
Dewatering method used: Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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: Pres 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: RJA Dg Date: 6/30/11

Operator Name: Black Diamond Oil, Inc. Lease Name: Vehige "D" Well #: 1  
 Sec. 32 Twp. 13 S. R. 20  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, compensated neutron density &amp; Micro</b>	<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>1634</td> <td>+699</td> </tr> <tr> <td>Topeka</td> <td>3338</td> <td>-1005</td> </tr> <tr> <td>Heebner</td> <td>3575</td> <td>-1242</td> </tr> <tr> <td>Lansing KC</td> <td>3615</td> <td>-1282</td> </tr> <tr> <td>Arbuckle</td> <td>3972</td> <td>-1639</td> </tr> </table>	Name	Top	Datum	Anhydrite	1634	+699	Topeka	3338	-1005	Heebner	3575	-1242	Lansing KC	3615	-1282	Arbuckle	3972	-1639
Name	Top	Datum																	
Anhydrite	1634	+699																	
Topeka	3338	-1005																	
Heebner	3575	-1242																	
Lansing KC	3615	-1282																	
Arbuckle	3972	-1639																	

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed 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: <input 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 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: _____ _____
---	---	--

Black Diamond Oil, Inc.

Vehicle "D" #1

Plugging Orders Ray Linkel

1st Plug @ 3952 1 w/ 25 sks

2nd Plug @ 1657 1 w/ 25 sks

3rd Plug @ 900 1 w/ 100 sks

4th Plug @ 273 1 w/ 40 sks

5th Plug @ 40' 1 w/ 10 sks

30 sks in Rat Hole

15 sks in Mouse Hole

Total 245 sks 60/40/02 4' Plug w/ 1/4" CF/SK

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# Kenneth Vehige

Petroleum Geologist

1105 E. 30th

(913) 625-5891

Hays, Kansas 67801

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY Black Diamond Oil Inc  
 LEASE Vehige "D" 2  
 FIELD Springbrook Dist.  
 LOCATION 1570 FSL # 3040 FEL  
 SEC. 32 TWSP 13s RNG 20w  
 COUNTY Ellis STATE Ks

ELEVATIONS  
 K B 2333  
 D F 2331  
 G.L. 2325  
 Measurements Are  
 From KB

CONTRACTOR Discovery Drllg Rip 3  
 SPUD 4/12/2011 COMP 2/18/2011  
 RTD 3975 LTD 3955  
 MUD UP 3200 TYPE MUD Chemical

SURFACE 3 1/2 @ 221  
 PRODUCTION

LOGS  
Micro, Dual Ind,  
Neutron-Density

### FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUBSEA CATHM	STRUCTURAL POSITION		
Anhydrite	1635	1634	+699	+694	+681	
Topeka	3346	3338	-1005	-1008		
Heubner	3577	3575	-1242	-1245	-1250	-1247
Toronto	3598	3595	-1262	-1265	-1270	
Lansing	3615	3615	-1282	-1283	-1290	-1289
Base of KC	3860	3859	-1526	-1527	-1539	-1533
Arbuckle	3972		*-1639	None	-1630	-1629
Reagan 3d TD	NB			-1637		
	3975	3955	*-1642	-1638		
Marathon	3924	3923	-1590	-1592		

### REFERENCE WELLS FOR STRUCTURE

- A. Boos #2 NW-SW-SE 32-13-20 (log) ♂
- B. Kisher #1 NE-NE-SW " " " (log) ♂
- C. Kisher #1 C-E/2-SE-SW " " " ♂

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Тората 3340  
Стг-3335  
-1805

km 4.5m 5x1m 5000 vopt 1000  
5/8 chotky vopt 31m  
3aimt eder vsl 5FO

3400

28

26

60

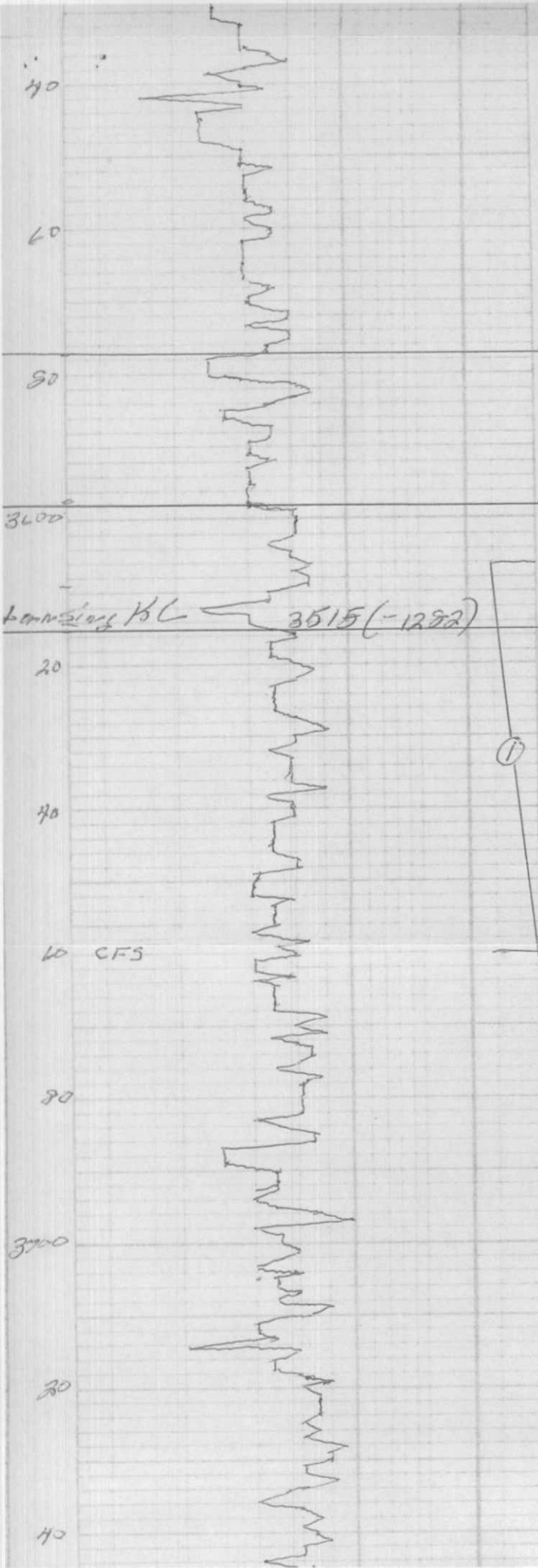
84

3500

80

shbtk

km 6.5m 5x1m 5000



shred of grey

lim con Silu fly Soss  
cherty

lim con - tan Silu fly Soss  
cherty - cherty

Member 3577

(Log 3575)  
-1242

sh blk  
lim tan Silu  
shred of grey

Toronto 3598

lim tan Silu dense

Log 3595 -1262

lim blk w/ a lot  
sh red of grey

DST #1 3606-60

130' Mg w/ 50

lim con tan Silu

45-45-45-45

lim con Silu Soss fly colitic  
spt var sinter colitic  
H spt str wk odor 315FO

SIP 369-366

shred of grey

lim whit - con Silu fly Soss  
cherty to poor veg to str  
3) odor VSI SFO

shred of grey

lim con Silu dense  
V fly Soss 200 w/ veg  
SFO

3700 ampl SFO odor

sh blk

shred of grey  
lim whit Silu cherty

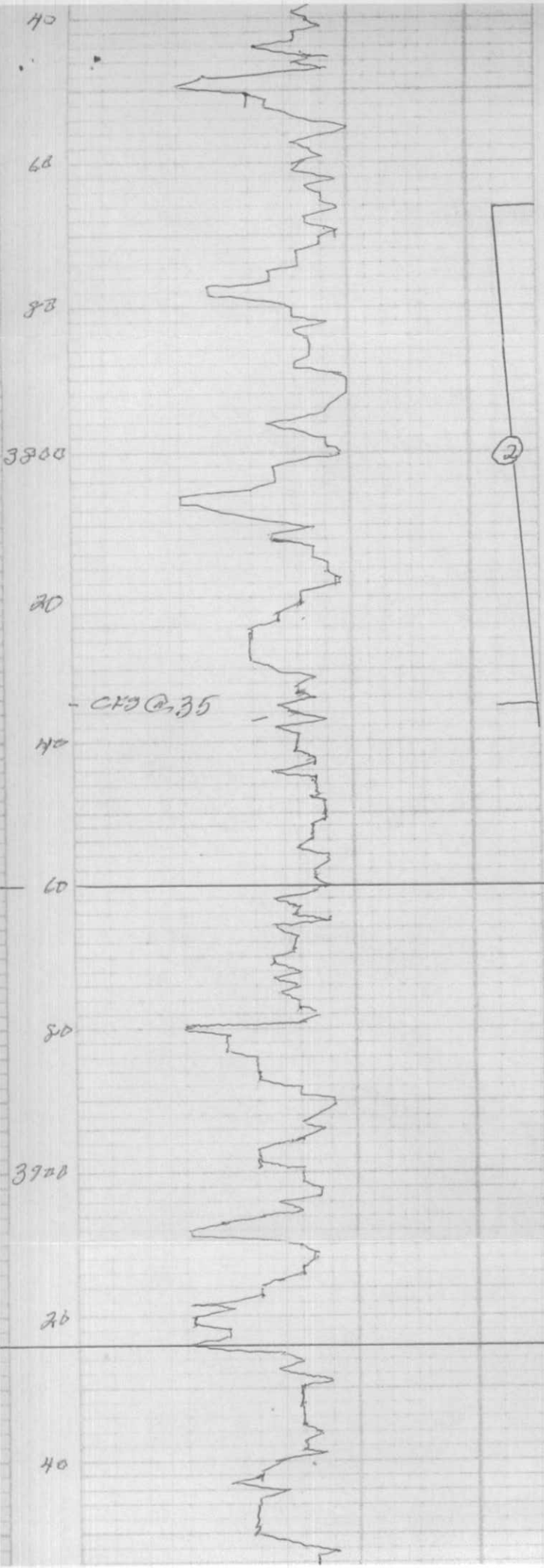
lim tan Silu cherty to veg  
st odor to str + SFO

lim con Silu cherty

lim con Silu

sh blk





sh blk  
 sh red f grey  
 lim con - tan silu  
 sly chunky & sharp  
 smelly

sh red f grey  
 lim con silu good  
 apt fair wggp str - sat  
 fair odor fair SF  
 lim con grey silu good

DST #2376-3835  
 215' MW  
 45-48-45-45

sh red f grey  
 lim con silu good odorous  
 fair str - sat fair good SF  
 w/o fair odor  
 chunky  
 lim con - tan silu

SIP-276-270

sh red f grey  
 lim con grey apt wggp  
 apt str odor SF

sh blk  
 lim con silu

Base KC 3860  
 log 3859 (-1524)

sh red  
 lim con silu  
 sly calcitic  
 sh red f grey

lim con silu good  
 sh red grey f grey  
 lim con silu  
 sh red f grey

Marathon 3924  
 (log 3923 - 1590)

lim con - tan Fisher & sand  
 sh blk sharp - weathered  
 sh blk w/ ppt, 2 smelly  
 it od odor & good shows  
 bleeding grey oil

26

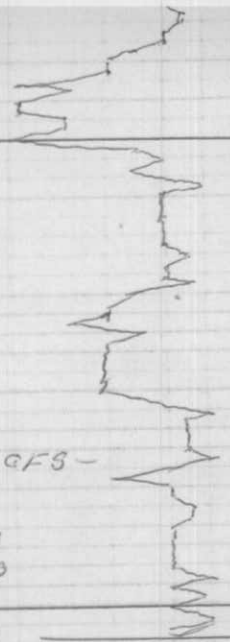
40

60

SR R CFS -  
CFO

-CFS  
-CFS

-CFS



Am peak 1.7

Marmaton 3924  
(log 3923 - 1590)

km 6.5m - low filter down

ckt wkt sharp - weather  
wkt w/ ppt, 2 Sine f  
It sse odor + good shows  
bleeding gas oil

Sh rcd + gny w/ V & Δ

AA

Dole cam 5th spt cry f - Arbuckle 3972  
str - 3rd in f old SF0 - TD - 1639

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**DISCOVERY DRILLING**  
 P. O. BOX 763 HAYS, KANSAS 67601



Contract # Discovery Drilling Co. Inc Rig No. 3  
 Company Black Diamond Oil Inc  
 Lease Vehicle "D" Well No. 1  
 State Kansas County Ellis Field Springdale  
 API # 051-26,095 Elevation 2333 K.B. R.T.D. 3975 Spot S1/2E1/2E1W Section 32 Township 13S RN 20W  
 Tool Joint Conn. XH Drill Pipe Size 4 1/2 Drill Collars No. 17 O.D. 6 1/4" I.D. 2 1/4" Pump No. 1 EMSC02-325  
 Tool Pusher Calen Gaschlar Driller Luan Gaschlar Driller Richard Hugas Driller Jeff Weigel

(785) 623-2920

Cat Schmidtberger Construction  
 Trucks Company  
 Water-Hauling Keller Tank Service  
 Testing In-lab testing  
 Cement Surface Quality Oilwell Cementing  
 Loggers Superior L.T.D. 3955' @ 3957' Bld  
 Casing Crew Done  
 Fuel Franklin Ag. Inc.  
 Mud Company Archie's Type Arispac  
 Surface Mud Used 2 Lime  
 Mud Up @ 3262'  
 1' Drlg. Time @ 3200' 10' Wet & Dry @ 3300'  
 Mud Cost - \$ 1,875.35  
 Surface Pipe (Co. Trucks) Other  
 No. Yes No  
 Water Well No  
 Frac Tank Discovery Drilling  
 Motel Nme  
 Back Hoe Schmidtberger Construction  
 Welder Company  
 Reserve Pit Chlorides 16,000 ppm 320 Bld  
 Pit Liner 1- By Keller Tank Service

Run No.	Size	Make	Type	Jet Size	Serial	Depth From	Depth To	Feet	Hours	Feet Per Hour	Weight 1000 Lbs.	RPM	Vert. Dev.	Pump Press.	Formation Tops
1	12 1/4	Smith	CF28	3/14	P15718	0	223	223	276	81	20/20000	100	340	600	Dakota Sand
2	7 1/8	WZ	6100C	3/14	S187089	223	3975	3952	67	56.5	20/40000	1040		800	Cedar Hills Sand
(3975 ÷ 69.75 hrs = 56.99 fph)															
Anhydrite (1635-1678)															
Topoka															
Heebner															
Toronto															
LKC-BKC															
Marmaton															
Arbucke															
Plugging Report <u>Ron Dinkel (Plus)</u> Surface Pipe State Plugger - <u>Richard Williams (SPM)</u> Ran <u>5</u> jts. <u>used</u> <u>23</u> # 8 5/8" casing Talley <u>21299</u> set @ <u>21299</u> K.B. Cemented w/ <u>150</u> sks. <u>Common 2 1/2" 60 &amp; 3 1/2"</u> Cement <u>Did</u> Circulate															
Plug Down @ <u>530</u> <u>AM</u> <u>IPM</u> <u>4, 11, 2011</u> Geo. Name - <u>Kan Vehicle</u> Spud @ <u>125</u> <u>AM</u> <u>IPM</u> <u>4, 11, 2011</u> Phone <u>(785) 623-2665</u> Drilled Plug @ <u>130</u> <u>AM</u> <u>IPM</u> <u>4, 12, 2011</u> Dst #1 <u>(316-366) (54)</u>															
Job By <u>Quality Oilwell Cementing</u> Dst #2 <u>(316-383) (69)</u> WATER INFORMATION <u>(Provided by Black Diamond Oil Inc)</u> Dst #3 <u>(386-375) (39)</u>															
Name - Dst #4 Address - Phone # - Dst #5 City Dst #6 Social Security # Dst #7 Amount \$ Dst #8 Section Township Range Dst #9 Pond Water Well Other Dst #10 FSL FEL Dst #11 Dst #12															

# QUALITY OILWELL CEMENTING, INC.

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

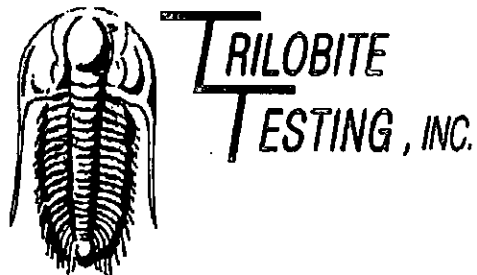
Home Office P.O. Box 32 Russell, KS 67665

No. 4936

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-17-11	32	13	20	Ellis	Ks		7:00 PM
Lease <i>Uehige D</i>	Well No. <i>#1</i>	Location <i>Ellis, Ks - S + Uehige Rd, 3/11</i>					
Contractor <i>Disposal #3</i>				Owner <i>N/T</i>			
Type Job <i>Plug</i>				To Quality Oilwell Cementing, Inc.			
Hole Size <i>7 1/8"</i>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg.		Depth <i>3975'</i>		Charge To <i>Black Diamond</i>			
Tbg. Size <i>4 1/2"</i>		Depth <i>3952'</i>		Street			
Tool		Depth		City		State	
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <i>420/mud</i>		Cement Amount Ordered <i>245 5/8 60/100 40/60 1/4 FS</i>			
<b>EQUIPMENT</b>							
Pumptrk <i>1</i>	No.	Cementer <i>Cisco</i>			Common		
Bulktrk <i>12</i>	No.	Driver <i>Doug</i>			Poz. Mix		
Bulktrk <i>p.u.</i>	No.	Driver <i>Rick</i>			Gel.		
<b>JOB SERVICES &amp; REMARKS</b>							
Remarks: <i>Cemented at Uehige</i>				Calcium			
Rat Hole <i>3052'</i>				Hulls			
Mouse Hole <i>154</i>				Salt			
Centralizers				Flowseal			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
<i>3952' - 25 5/8</i>				CFL-117 or CD110 CAF 38			
<i>1657' - 25 5/8</i>				Sand			
<i>900' - 40 5/8</i>				Handling			
<i>273' - 40 5/8</i>				Mileage			
<i>10' - 10 5/8</i>				<b>FLOAT EQUIPMENT</b>			
<i>Rat Hole - 3052'</i>				Guide Shoe			
<i>Mousehole - 1552'</i>				Centralizer			
<i>245 5/8 60/100 40/60 1/4 FS</i>				Baskets			
<i>Cemented at Uehige</i>				AFU Inserts			
				Float Shoe			
				Latch Down			
				<i>1 - 4 1/2" wiper plug</i>			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
				Total Charge			
X Signature <i>[Signature]</i>							

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Quality Oilwell Cementing



## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601-0641

ATTN: Ken Vihige

**32-13s-20w Ellis,KS**

**Vehige D #1**

Start Date: 2011.04.14 @ 23:50:25

End Date: 2011.04.15 @ 09:31:20

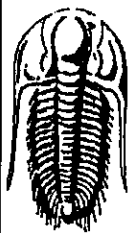
Job Ticket #: 42765                      DST #: 1

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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  
 PO Box 641  
 Hays, KS 67601-0641  
 ATTN: Ken Vihige

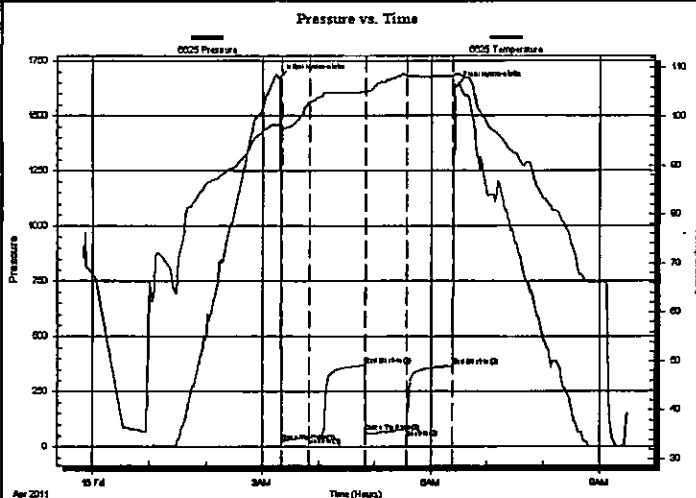
**Vehicle D #1**  
**32-13s-20w Ellis, KS**  
 Job Ticket: 42765      DST#: 1  
 Test Start: 2011.04.14 @ 23:50:25

## GENERAL INFORMATION:

Formation: LKC  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 03:19:50  
 Time Test Ended: 09:31:20  
 Interval: 3606.00 ft (KB) To 3660.00 ft (KB) (TVD)  
 Total Depth: 3660.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2333.00 ft (KB)  
 2325.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6625**      Inside  
 Press@RunDepth: 79.41 psig @ 3608.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.04.14      End Date: 2011.04.15      Last Calib.: 2011.04.15  
 Start Time: 23:50:25      End Time: 09:31:20      Time On Btm: 2011.04.15 @ 03:16:50  
 Time Off Btm: 2011.04.15 @ 06:26:49

**TEST COMMENT:** FFP-w k bl thru-out 1/2" to 1 1/2" bl  
 ISIP-no bl  
 FFP-w k bl thru-out 1/4" to 1/2" bl  
 FSIP-no bl



## PRESSURE SUMMARY

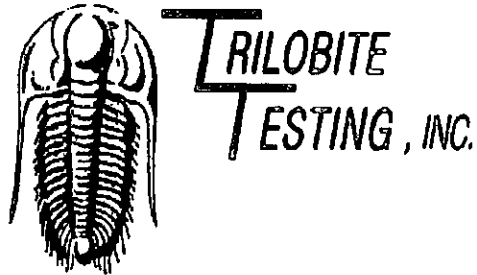
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.92	98.34	Initial Hydro-static
3	22.89	97.81	Open To Flow (1)
33	46.22	102.91	Shut-In(1)
93	369.19	105.12	End Shut-In(1)
94	66.44	105.07	Open To Flow (2)
137	79.41	108.33	Shut-In(2)
186	366.49	108.33	End Shut-In(2)
190	1635.87	108.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW 30% M70% W	1.55

## Gas Rates

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



## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601-0641

ATTN: Ken Vihige

**32-13s-20w Ellis,KS**

**Vehige D #1**

Start Date: 2011.04.16 @ 00:25:49

End Date: 2011.04.16 @ 07:27:13

Job Ticket #: 42766                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

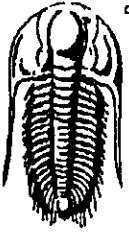
Vehige D #1

32-13s-20w Ellis,KS

DST # 2

LKC L-J

2011.04.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc  
PO Box 641  
Hays, KS 67601-0641  
ATTN: Ken Vihige

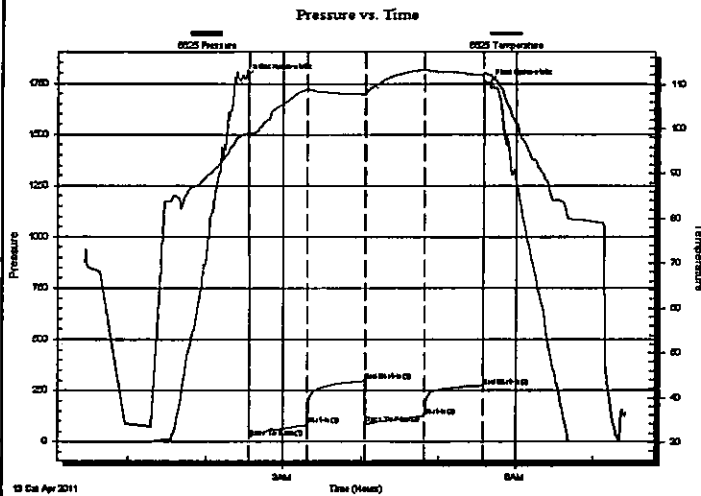
**Vehicle D #1**  
**32-13s-20w Ellis,KS**  
Job Ticket: 42766      **DST#: 2**  
Test Start: 2011.04.16 @ 00:25:49

## GENERAL INFORMATION:

Formation: **LKC I-J**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **02:33:44**  
Time Test Ended: **07:27:13**  
Interval: **3766.00 ft (KB) To 3835.00 ft (KB) (TVD)**  
Total Depth: **3835.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Ray Schwager**  
Unit No: **42**  
Reference Elevations: **2333.00 ft (KB)**  
**2325.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 6625**      Inside  
Press@RunDepth: **125.71 psig @ 3770.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2011.04.16**      End Date: **2011.04.16**      Last Calib.: **2011.04.16**  
Start Time: **00:25:49**      End Time: **07:27:13**      Time On Btm: **2011.04.16 @ 02:30:44**  
Time Off Btm: **2011.04.16 @ 05:38:13**

**TEST COMMENT:** IFF-w k bl 1/2"to 3"bl  
ISIP-no bl bk  
FFP-w k bl 1/4"to 1 1/2"bl  
FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.93	98.96	Initial Hydro-static
3	21.33	99.01	Open To Flow (1)
48	80.04	108.89	Shut-In(1)
92	296.70	107.85	End Shut-In(1)
93	85.49	107.93	Open To Flow (2)
138	125.71	113.16	Shut-In(2)
184	270.56	112.00	End Shut-In(2)
188	1748.30	112.12	Final Hydro-static

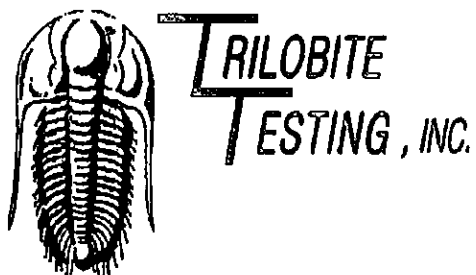
## Recovery

Length (ft)	Description	Volume (bbl)
215.00	MW 10%M90%W	2.74

## Gas Rates

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





## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601-0641

ATTN: Ken Vihige

**32-13s-20w Ellis,KS**

**Vehige D #1**

Start Date: 2011.04.17 @ 07:30:07

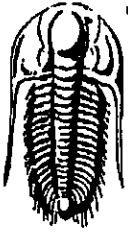
End Date: 2011.04.17 @ 12:25:01

Job Ticket #: 42767                      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  
PO Box 641  
Hays, KS 67601-0641  
ATTN: Ken Vihige

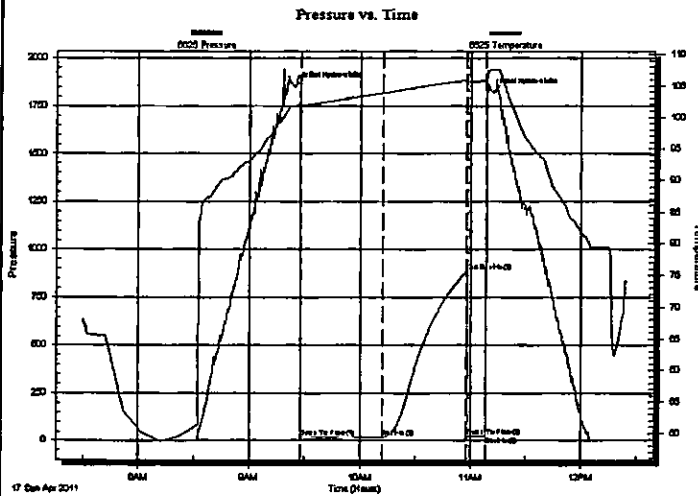
**Vehicle D #1**  
**32-13s-20w Ellis, KS**  
Job Ticket: 42767      DST#: 3  
Test Start: 2011.04.17 @ 07:30:07

## GENERAL INFORMATION:

Formation: **Marmaton & Arbuckle**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 09:27:32  
Time Test Ended: 12:25:01  
Interval: **3936.00 ft (KB) To 3975.00 ft (KB) (TVD)**  
Total Depth: **3975.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Ray Schwager**  
Unit No: **42**  
Reference Elevations: **2333.00 ft (KB)**  
**2325.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 6625**      Inside  
Press@RunDepth: **19.66 psig @ 3940.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2011.04.17**      End Date: **2011.04.17**      Last Calib.: **2011.04.17**  
Start Time: **07:30:07**      End Time: **12:25:01**      Time On Btm: **2011.04.17 @ 09:24:32**  
Time Off Btm: **2011.04.17 @ 11:12:02**

TEST COMMENT: **IFP-w k bl 1/4"bl**  
**ISIP-no bl**  
**FFP-no bl-out w / tool**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.43	101.83	Initial Hydro-static
3	16.73	101.91	Open To Flow (1)
48	19.66	103.84	Shut-In(1)
93	885.48	105.92	End Shut-In(1)
94	21.35	105.72	Open To Flow (2)
104	21.93	105.95	Shut-In(2)
108	1824.29	107.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/show of oil	0.02

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcft)



P.O. Box 763 - Hays, KS 67601

### DAILY MORNING REPORT

OPERATOR Black Diamond Oil, Inc.

LEASE: Vehicle "D" # 1

RIG # 3

DATE: 12-Apr-11

DEPTH @ 7:00AM 675

PRESENT OPERATIONS: Drilling

DEPTH PREVIOUS @ 7:00AM 0

PROGRESS: 675

MUD VIS. 26

WT. 8.6 W.L. N/C

DOWN TIME: None

REASON: \_\_\_\_\_

FUEL 48"

OILS 20°C 19°90wt 18°M PRO-PANE 37%

WATER Tank(full) Pit(2')

REMARKS: Bit # 2= 3 3/4 Hrs.-Ran 5 Joints New 23# 8 5/8" Casing

DRILLING 8 1/2 Rig Up 4 3/4

Tally 212.99 Set @ 222.99'KB Cement; By Quality W/150sks Common

CONN 2 1/4 Rat Hole 1/2

2%Gel & 3%CC(Did Circ) Completed @ 5:30PM 4/11/11

JET 1/4 Rig Ser. \_\_\_\_\_

SPUD 12 1/4" @ 12:15PM 4/11/11-Survey @ 223' (3/4)

8 5/8" 1 1/4 WOC 8

Drilled Plug @ 1:30AM 4/12/11

REPAIRS \_\_\_\_\_ Circ. 1/2

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

3040 FFA

1650

330

SW-2R-NF5W

2310  
330  
2640  
330  
2970



Discovery Drilling

DAILY MORNING REPORT

P.O. Box 703 - Hays, KS 67601

OPERATOR Black Diamond Oil, Inc.

LEASE: Vehicle "D" #1

RIG # 3

DATE: 13-Apr-11

DEPTH @ 7:00AM 2505

PRESENT OPERATIONS: Drilling

DEPTH PREVIOUS @ 7:00AM 675

PROGRESS: 1830

MUD VIS. 29 WT. 9.9 W.L. N/C

DOWN TIME: None REASON: \_\_\_\_\_

FUEL 40% OILS 19°C 20"90wt 19"M PRO-PANE 37%

REMARKS: Bit #2 = 22 hrs.

DRILLING 18 1/4 DST \_\_\_\_\_ Anhydrite (1635 - 1678)

CONN 4 \_\_\_\_\_

JET 1 RIG SERV 3/4 \_\_\_\_\_

TRIP \_\_\_\_\_

REPAIRS \_\_\_\_\_



**Discovery  
Drilling**

P.O. Box 763 - Mayr, KS 67801

### DAILY MORNING REPORT

OPERATOR Black Diamond Oil, Inc.

LEASE: Vehicle "D" # 1

RIG # 3

DATE: 14-Apr-11

DEPTH @ 7:00AM 3350

PRESENT OPERATIONS: Drilling

DEPTH PREVIOUS @ 7:00AM 2505

PROGRESS: 845

MUD VIS. 54

WT. 8.6

W.L. 8.8

DOWN TIME: None

REASON: \_\_\_\_\_

FUEL 29"

OILS 20°C 19"90wt 18"TM PRO-PANE 37%

WATER Tank(full) Pil(1')

REMARKS: Bit # 2= 41 3/4 Hrs.

DRILLING 19 3/4

Displaced Mud @ 3262'

CONN 2 1/2

Jet 1 Rig Ser. 3/4

TRIP \_\_\_\_\_

REPAIRS \_\_\_\_\_





**Discovery  
Drilling**

**DAILY MORNING REPORT**

PO Box 783 - Hays, KS 67601

OPERATOR Black Diamond Oil, Inc.

LEASE: Vehicle "D" # 1

RIG # 3

DATE: 15-Apr-11

DEPTH @ 7:00AM 3660

PRESENT OPERATIONS: Dst # 1

DEPTH PREVIOUS @ 7:00AM 3350

PROGRESS: 310

MUD VIS. 60

WT. 8.6

W.L. 8

DOWN TIME: None

REASON: \_\_\_\_\_

FUEL 85"

OILS 20°C 19"90wt 18"M PRO-PANE 37%

WATER Tank(full) Pit(3/4)

REMARKS: Bit # 2= 52 Hrs.

DRILLING 10 1/4 DST # 1 8 3/4

CMC=\$ 6,197.50

CONN 1

DST # 1(3608-3660)(54')

Short \_\_\_\_\_

Rig Ser. 1/2

TRIP 1

MUD 1/2

REPAIRS \_\_\_\_\_

Circ. 2



### DAILY MORNING REPORT

OPERATOR Black Diamond Oil, Inc.

WELL Wahign "D" # 1

RIG # 3

DATE Saturday, April 16, 2011

DEPTH @ 7:00AM 3835

PERCENT OPERATIONS

DST # 2

DEPTH PREVIOUS @ 7:00AM 3860

PROGRESS: 175

MUD VIS. 60 WT. 8.9

WT 8.8

DOWN TIME: None

REASON

OILS 20% 19% 17%

PROD LANE 37%

FUEL 60%

REMARKS: DST # 2 - 60.341%

WATER Tank(full) Pt(3/4)

DRILLING 8 3/4 Rig Ser. 172

DMC \$ 420.05 CMC \$ 6,030.55

CONN 1/4 DST # 1 5.14

DST # 2 (175) 3835(60)

JET 1/4 DST # 2 8

TRIP 1 CIRC. 1

REPAIRS



DAILY MORNING REPORT

OPERATOR Black Diamond Oil, Inc.  
 RIG # 3

LEASE: Vehicle "D" # 1  
 DATE: Sunday, April 17, 2011

DEPTH @ 7:00AM 3975  
 DEPTH PREVIOUS @ 7:00AM 3935  
 PROCESS: 140

PRESENT OPERATIONS: DTS # 3

MUD VIS. 56 WT. 8.9

W.L. 8.0

DOWN TIME: None

REASON: \_\_\_\_\_

FUEL 54

OILS 20°C 19.90 14" M PRO-PANC 37%

WATER Tank (full) Pil (1/2)

REMARKS: Bil # 2 = 87 Hrs.

DRILLING 6 1/4 Rig Sw. 1/4

CMC = \$ 7,875.35

CONN 3/4 DST # 2 2 1/2

DST # 3 (3938-3975) (39)

MUD 1/4 DST # 3 1

(TD) = 3955' @ 3957' (RTD)

T Log 3 Log 4

TRIP 3 Log 4

RCPAIRS 0 Circ 0



**Discovery  
Drilling**

P.O. Box 763 • Hays, KS 67601

### DAILY MORNING REPORT

OPERATOR Black Diamond Oil, Inc.

LEASE: Vehicle "D" # 1

RIG # 3

DATE: 18-Apr-11

DEPTH @ 7:00AM 3975 RTD

PRESENT OPERATIONS: Completed

DEPTH PREVIOUS @ 7:00AM 3975

PROGRESS: 0

MUD VIS. \_\_\_\_\_ WT. \_\_\_\_\_ W.L. \_\_\_\_\_

DOWN TIME: \_\_\_\_\_ REASON: \_\_\_\_\_

FUEL \_\_\_\_\_ OILS \_\_\_\_\_ PRO-PANE \_\_\_\_\_

REMARKS: (1st Plug @ 3952'W/25sks)(2nd Plug @ 1657'W/25

DRILLING \_\_\_\_\_ sks)(3rd Plug @ 900'w/100sks)(4th Plug @ 273'W/40sks)(5th Plug

CONN \_\_\_\_\_ @ 40'W/10sks)(30sks In Rat Hole)(15sks In Mouse Hole)(Total

245sks 60/40Poz 4% Gel W/1/4#CF/sk By Quality Oilwell)

TRIP \_\_\_\_\_ (Completed @ 7:00PM 4/17/11)(Rig Released:Same)

REPAIRS \_\_\_\_\_ State Contact: Ray Dinkel

# QUALITY OILWELL CEMENTING, INC.

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

Home Office P.O. Box 32 Russell, KS 67685

No. 5036

Date	4-11-11	Sec.	32	Twp.	13	Range	20	County	Ellis	State	KS	On Location		Finish	5:31 PM		
Lease	Vphaid		Well No.	1		Location: Ellis 5 to Victoria Rd 3/4 W Ninto											
Contractor	Discovery #3					Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Type Job	Surface					Charge To Black Diamond											
Hole Size	12 1/4		T.D.	223		Depth 223											
Csg.	8 5/8 (231)		Depth 223														
Tbg. Size	Depth										Street						
Tool	Depth										City State						
Cement Left in Csg.	10-15'		Shoe Joint					The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line	Displace 13 1/4 bbls					Cement Amount Ordered 150 ccm. 3 1/2 ccl 2 1/2 gal											

**EQUIPMENT**

Pumptrk	5	No.	Cementer	Brandon		Common	150	
			Helper					
Bulktrk	8	No.	Driver	Crais		Poz. Mix	?	
			Driver					
Bulktrk	pu	No.	Driver	Areat		Gel.	3	
			Driver					

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Cement Did Grab	Sand
	Handling 158
	Mileage

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	18

X Signature <i>Dr. Galle</i>	Tax
	Discount
	Total Charge

