



KANSAS CORPORATION COMMISSION 1090035  
OIL & GAS CONSERVATION DIVISION

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: PO BOX 641  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + 0641  
Contact Person: Kenneth Vehige  
Phone: ( 785 ) 625-5891  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Jeff Lawler  
Purchaser: Coffeyville

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>2/27/2012</u>	<u>3/3/2012</u>	<u>3/22/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24012-00-00

Spot Description: \_\_\_\_\_

NE NW SE NW Sec. 30 Twp. 7 S. R. 19  East  West  
1535 Feet from  North /  South Line of Section  
1945 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

County: Rooks

Lease Name: Pettijohn Well #: 1

Field Name: Wildcat

Producing Formation: Lansing/Kansas City

Elevation: Ground: 1987 Kelly Bushing: 5

Total Depth: 3447 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 218 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 3441

feet depth to: \_\_\_\_\_ w/ 500 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 17000 ppm Fluid volume: 500 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Black Diamond Oil, Inc.

Lease Name: Green D2 License #: 7076

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

County: Rooks Permit #: D-30943

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.

Submitted Electronically

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: Deanne Garcia Date: 08/14/2012



1090035

Operator Name: Black Diamond Oil, Inc. Lease Name: Pettijohn Well #: 1  
 Sec. 30 Twp. 7 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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1490	502
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2949	-957
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3147	-1155
List All E. Logs Run:		Lansing KC	3186	-1194
		Arbuckle	3433	-1441
Neutron/Density, Dual Induction, Micro, Gamma Ray Correlation Bond				

CASING RECORD <input checked="" 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	12.25	8.625	23	218	Common	150	3%CC, 2%Gel
Production String	7.875	5.5	14	3440	GMD	470	.25# flow

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
1	3432-3447	500 gal 15% MCA, 1500 mod 303	
1	337,3359,3346,3338,3318	1500 gal 15% MCA	
1	3224-3229	250 gal 15% MCA, 750 gal 20 NE	

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3420</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>3/22/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls. <u>25</u>	Gas Mcf <u>0</u>	Water Bbls. <u>1</u>	Gas-Oil Ratio	Gravity <u>35</u>
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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 checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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API # 15-163-24012-00-00

Operator: Black Diamond Oil, Inc.

Well Name & No: Pettijohn #1

Location: 1535' FNL & 1945' FWL Section 30-7S-19W

County: Rooks State: Kansas

Rig No.: 6 Contractor: WW Drilling, LLC

Tool Pusher: John Mayers 785-259-4392

Drill Collars: 14 Size: 6 1/4 x 2 1/4

Rig Phone: 785-259-6941

Make Pump: National K-380

Liner & Stroke: 6 x 14

Spud 2/27/2012 @ 1:45 PM

Approx. TD: 3650 Elevation: 1987

K.B. 1992

KB Hole Complete:

Mud Co.: Andy's Mud

Mud Engineer: Ken Rupp

Water Haul

Date	02/27/12	02/28/12	02/29/12	03/01/12	03/02/12	03/03/12	03/04/12		
Days	1-spud	2-drig	3-drig	4-dst #1	5-drig	6-CFS	7-done		
Depth		768	2532	3121	3265	3437	3441		
Ft. Cut		768	1764	589	144	172	4		
D.T.		8-woc							
D.T.									
C.T.				5.25	17.5	18.25	20.5		
Bit Wt.	all	25,000	35000	38000	38000	38,000	38,000		
RPM	100	90	85	85	85	85	85		
Pressure	450	650	850	850	800	800	850		
SPM	60	60	60	60	60	60	60		
Mud Cost					7,723	7723	8008		
Mud Wt.		8.8	9.2	8.9	9	9.2	9.1		
Viscosity		28	29	55	55	55	57		
Water Loss					7.6	8	8		
Chlorides					800	1000	1,000		
L.C.M.				2#	2#	1.5 #	1.5#		
Dev. Sur		218 - 1/2"			3121-3/4"		3/4"-3441		
Dev. Sur									
Fuel	2430	2349	1944	3321	2997	2673	2430		
Water-Pit		3'	3'	4'	4'	4'	3'		
ACC Bar Hrs		5	27.75	45.25	51.5	59.25	59.5		
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm		
Weather	clear	cloudy	clear	clear	pty cldy	clear	clear		

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	218	218	2.5	2.5	RR	PD 6528	
2	7 7/8	Sm - F-27	3441	3223	59.5	62	New	PX 0028	
3								55.5 FPH	
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
218	8 5/8	150	Common, 3% cc, 2% gel	6:00 PM	2:00 AM	Allied Cem. Did circ.
3440	5 1/2	500	QMD	2:00am	3/4/2012	Quality Cementing

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3086-3121	30	30	30	30	1' oil 60' ocm
2	3114-3145	30	30	30	30	100' gas 594' gassy-oil
3	3248-3279	15	30	15	30	660' gip, 778' co, 310' wcmo
4						
5						
6						
7						
8						
9						

Surface Casing Furnished by: Midwest Pipe - Milden delivered - 5 joints 23# 8 5/8, tally 211.16 set @ 217'

Remarks: Strap & weld surface by WW, Anhydrite 1489' - 1525', Short trip 35 stds @ 3121 (1.75Hrs) Pipe strap @ 3121, (0.99 board short) short trip 10 stds(1/2 hr). RTD 3441', short trip 10 stands (1/2 hr). LTD 3444' by Superior, logged 4.25 hrs. Ran 5 1/2 set @ 3440'. Pipe did not land. Plug down @ 2:00 am, 3/4/12. Rig released @ 4:00 am.

# ALLIED OIL & GAS SERVICES, LLC 056917

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

SERVICE POINT:  
Russell

DATE <u>2-27-12</u>	SEC <u>30</u>	TWP <u>7</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30</u>	JOB FINISH <u>6:00</u>
LEASE <u>Pett. John</u>	WELL # <u>1</u>	LOCATION <u>Stockton 10W. N4 W1.5</u>			COUNTY <u>Rock</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>with info</u>					

**CONTRACTOR**

**OWNER**

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 218

CASING SIZE 8 1/2 DEPTH 218.16

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 15'

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 12.9 gal

**CEMENT**

AMOUNT ORDERED 15' sh class A 3/4

21 gal

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.5</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@	<u>48.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>150</u>	@	<u>2.25</u>	<u>337.50</u>
MILEAGE	<u>70</u>	@	<u>1.80</u>	<u>126.00</u>
TOTAL				<u>4364.35</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Todd

# 417 HELPER Wendy

BULK TRUCK

# 473 DRIVER Chris

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

Established circulation, 12.9 gal 15' sh class A 3/4 21.25 gel. Displaced 13.5 gal

Cement circulation to surface

Plug line at 6:00

**SERVICE**

DEPTH OF JOB	<u>218</u>			
PUMP TRUCK CHARGE			<u>1125.00</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>70</u>	@	<u>7.00</u>	
MANIFOLD		@		
	<u>70</u>	@	<u>4.00</u>	
		@		
TOTAL				<u>1895.00</u>

CHARGE TO: Black Diamond

STREET \_\_\_\_\_

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

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 5455  
3-4-12

Date	3-3-12	Sec.	30	Twp.	7	Range	19	County	Rooks	State	KS	On Location		Finish	1:55 AM
Lease	Pettijohn		Well No.	1		Location Hwy 24 + Webster Dam, 3W, 3/41									
Contractor	W-W #6							Owner W, S/Inbo							
Type Job	Production							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	7 7/8"		T.D.	3441'											
Csg.	5 1/2"		Depth	3445'											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	43.78		Shoe Joint	43.78'											
Meas Line			Displace	8.3 BUS											
										The above was done to satisfaction and supervision of owner agent or contractor.					
										Cement Amount Ordered 500 sx QMDC 4# Flo-seal					

### EQUIPMENT

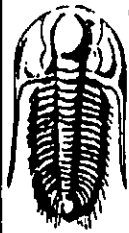
Pumptrk	15	No.	Cementor	Cisco	500 gal mud Clear 48
			Helper		Common 500
Bulktrk	12	No.	Driver	Doug	Poz. Mix
			Driver		
Bulktrk	p.u.	No.	Driver	Rick	Gel.
			Driver		

### JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 305k	Hulls
Mouse Hole N/A	Salt
Centralizers 1, 3, 5, 7, 9, 11, 45	Flowseal 125 #
Baskets 2, 6, 46	Kol-Seal
D/V or Port Collar	Mud CLR 48 500 gal
pipe on bottom, break Circulation	CFL-117 or CD110 CAF 38
pump 500 gal Mud Clear 48	Sand
plug Pothole w/ 30 sx QMDC 4# F.S.	Handling 500
Cement 5 1/2" Casing with	Mileage -
470 sx QMDC 4# Flo-seal.	<b>FLOAT EQUIPMENT</b>
shut down, wash pump & lines	Guide Shoe
Released plug + Displaced with	Centralizer 7
8.3 BUS of water. Released +	Baskets 3
Held. Lift pressure 800 #	AFU Inserts
Land plug to 1500 #	Float Shoe 1
	Latch Down 1
	1- Rotating head Assy.
Cement did Circulate.	

Pumptrk Charge	prod logy string
Mileage	49
Signature	Tax
	Discount
	Total Charge

Doe Hies
John Mayler



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Black Diamond

30 7n 19 Rooks Ks

P.O. Box 641  
Hays Ks. 67601

Pettijohn 1

Job Ticket: 42050

DST#: 1

ATTN: Jeff Lawler

Test Start: 2012.03.01 @ 07:30:00

### GENERAL INFORMATION:

Formation: **Oread**

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

Time Tool Opened: 09:09:30

Time Test Ended: 12:46:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Chuck Kreuzer Jr.**

Unit No: **36**

Interval: **3086.00 ft (KB) To 3121.00 ft (KB) (TVD)**

Reference Elevations: **1992.00 ft (KB)**

Total Depth: **3121.00 ft (KB) (TVD)**

**1987.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: **6741**

Outside

Press@RunDepth: **42.75 psig @ 3088.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.03.01**

End Date:

**2012.03.01**

Last Calib.:

**2012.03.01**

Start Time: **07:30:05**

End Time:

**12:46:29**

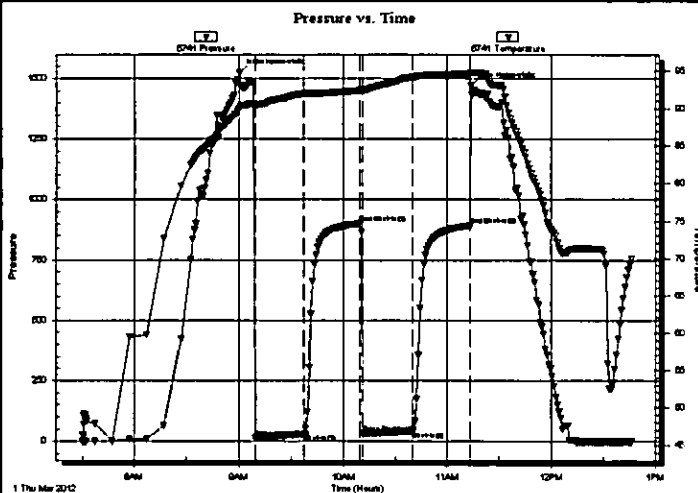
Time On Btm:

**2012.03.01 @ 09:00:30**

Time Off Btm:

**2012.03.01 @ 11:14:00**

TEST COMMENT: IF: Weak blow, Built to 3/4 in. over 30mins.  
IS: No blow back over 30 mins.  
FF: Weak blow, Surface, Died in 2 mins.  
FS: Non blow back over 30 mins.



### PRESSURE SUMMARY

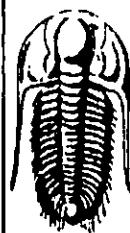
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1524.05	90.04	Initial Hydro-static
9	14.90	90.51	Open To Flow (1)
37	28.65	91.95	Shut-In(1)
69	901.99	92.38	End Shut-In(1)
71	32.63	92.25	Open To Flow (2)
100	42.75	94.16	Shut-In(2)
133	893.12	94.63	End Shut-In(2)
134	1469.65	94.78	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm-30%o70%m	0.30
2.00	oil-100%	0.01

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond

30 7n 19 Rooks Ks

P.O. Box 641  
Hays Ks. 67601

Pettijohn 1

Job Ticket: 42050

DST#: 1

ATTN: Jeff Lawler

Test Start: 2012.03.01 @ 07:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm-30%o70%m	0.295
2.00	oil-100%	0.010

Total Length: 62.00 ft      Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

