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KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISIONWELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASEForm ACO-1  
June 2009Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

ORIGINAL

OPERATOR: License # 33769

Name: Black Diamond Research and Development Corp.

Address 1: 316 West 14th

Address 2: Po box 537

City: Chanute State: KS Zip: 66720 +

Contact Person: Jerry L. Phillips

Phone: (620) 431-4111

CONTRACTOR: License # 32079

Name: Leis Oil Services

Wellsite Geologist: none

Purchaser: Pacer Engery

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 #:

08/09/11

08/11/2011

08/11/11

Spud Date or  
Recompletion Date

Date Reached TD

Completion Date or  
Recompletion Date

API No. 15 - 205-27960-00-00

Spot Description:

SE NW NE NW Sec. 6 Twp. 27 S. R. 17 ☒ East ☐ West

4,786 Feet from ☐ North / ☒ South Line of Section

3,424 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

County: Wilson

Lease Name: Rubow Well #: NW2

Field Name: unnamed

Producing Formation: Bartlesville

Elevation: Ground: 1011 Kelly Bushing:

Total Depth: 1000 Plug Back Total Depth: 977

Amount of Surface Pipe Set and Cemented at: 22 Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from: 977

feet depth to: surface w/ 100 sx cmt.

## Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls

Dewatering method used:

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:

Title:

Date:

## KCC Office Use ONLY

☐ Letter of Confidentiality Received

Date:

☐ Confidential Release Date:☒ Wireline Log Received☐ Geologist Report Received☐ UIC DistributionALT ☐ I ☒ II ☐ III

Approved by:

Date:

Operator Name: Black Diamond Research and Development Corp. Lease Name: Rubow Well #: NW2Sec. 6 Twp. 27 S. R. 17 ☒ East ☐ West County: Wilson

**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 ☐ Yes ☒ No

(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ NoCores Taken ☐ Yes ☒ NoElectric Log Run ☒ Yes ☐ NoElectric Log Submitted Electronically ☐ Yes ☐ No

(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

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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	10"	7	n/a	22'	Portland	10	
Casing	61/4"	2 7/8"	N/A	977'		100	1/2 s Flow seal

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ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ 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
2	Per. 938"-948"	City Water, KI Sub, 20# gel/breaker, Biocide, 75 15% HCl acid, inhibitor, stem oil	977

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:				
Oct. 5, 2011		<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	1/2 1 bbls	0	5 Bbls	0		

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	938' - 948' _____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**ENTERED**

TICKET NUMBER 31479  
LOCATION Eureka KS  
FOREMAN Steve Mead

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-11-11	9999	Rebow # 1	6-	27S	17E	Wilson
CUSTOMER <u>Black Diamond Research Development</u>			TRUCK #			
MAILING ADDRESS <u>P.O. Box 537</u>			DRIVER			
CITY <u>Chanute</u>	STATE <u>KS</u>	ZIP CODE <u>66720</u>	TRUCK #			
			DRIVER			
			TRUCK #			
			DRIVER			

JOB TYPE Long String HOLE SIZE \_\_\_\_\_ HOLE DEPTH 982' CASING SIZE & WEIGHT \_\_\_\_\_  
CASING DEPTH 977' DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 5.70 DISPLACEMENT PSI 500\* MIX-PSI Bump Play 900\* RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 2 3/8 Tubing. Break Circulation with Fresh Water.  
APump 200\* Gel Flush + 564's Freshwater. Add 1000's o/w cement w/ 1/2" Phenoseal  
Perisk. Shut down. Wash out Pump & Lines. Stuff 2 plugs Displace with  
5.70's Freshwater. Final Pumping Pressure 500\* Bump Play 900\*. Shut well  
in 900\*. Good Cement Returns To Surface.  
Job Complete Rig down

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ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or MATERIALS	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	50	MILEAGE	4.00	200.00
1126	1005ks	O/W Cement	17.90	1790.00
1127A	50*	Phenoseal 1/2" Perisk	1.22	61.00
1128B	200*	Gel Flush	.20	40.00
5407	3.5 Tons	Ten Mileage Bulk Truck	MS	330.00
4402	2	2 3/8" Top Rubber Plug	28.00	56.00
		Total 3574.66	Paid check # 1221	
		Discount 5%	- 128.73	3395.93
		3395.93		
			SubTotal	3452.00
			SALES TAX	122.66
			ESTIMATED TOTAL	3574.66

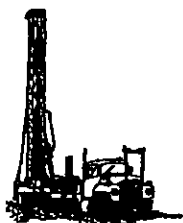
Rev 3737

AUTHORIZATION [Signature]

TITLE \_\_\_\_\_

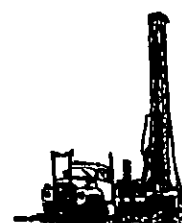
DATE \_\_\_\_\_

unless specifically amended in writing on the front of the form or in the customer's



# LEIS OIL SERVICES

111 East Mary • Yates Center, Kansas 66783 • (620) 625-3676



Operator License #: 33769	API #: 15-205-27960-00-00
Operator: Black Diamond R & D Corp.	Lease: Rubow
Address: 316 W. 14 <sup>th</sup> St. Chanute, KS 66720	Well #: NW 2
Phone: (620) 431-4111	Spud Date: 08/09/11 Completed: 08/11/11
Contractor License: 32079	Location: SE-NW-NE-NW of 6-27-17E
T.D. : 982 T.D. of Pipe: 977	4786 Feet From South
Surface Pipe Size: 7" Depth: 22'	3424 Feet From East
Kind of Well: Oil	County: Wilson

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## LOG

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Thickness	Strata	From	To	Thickness	Strata	From	To
6	Soil	0	6	52	Shale	830	882
3	Lime	6	9	8	Broken Sand	882	890
103	Shale	9	112	11	Shale	890	901
34	Lime	112	146	2	Lime	901	903
28	Shale	146	174	17	Sandy Shale	903	920
57	Lime	174	231	19	Oil Sand	920	939
45	Shale	231	276	2	Lime	939	941
114	Lime	276	390	41	Shale	941	982
18	Shale	390	408				
51	Lime	408	459				
3	Shale	459	462				
39	Lime	462	501				
108	Shale	501	609				
5	Lime	609	614				
88	Shale	614	702		T.D.		982
2	Lime	702	704				
6	Shale	704	710		T.D. of Pipe		977
22	Lime	710	732				
1	Black Shale	732	733				
2	Lime	733	735				
25	Shale	735	760				
5	Lime	760	765				
1	Shale	765	766				
11	Lime	766	777				
10	Shale	777	787				
2	Lime	787	789				
19	Shale	789	808				
4	Lime	808	812				
3	Shale	812	815				
15	Broken Sand(est)	815	830				



**CONSOLIDATED**  
Oil Well Services, LLC



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TICKET NUMBER 31483

LOCATION Eureka

FOREMAN Steve Mead

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**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-17-11	9999	Rebow #2	6	27S	17E	Wilson
CUSTOMER <u>Black Diamond Research Development</u>						
MAILING ADDRESS <u>P.O. Box 537</u>						
CITY <u>Chanute</u>	STATE <u>Ks</u>	ZIP CODE <u>66720</u>	TRUCK # <u>520</u>	DRIVER <u>Allen B</u>	TRUCK #	DRIVER
			<u>611</u>	<u>Chris B</u>		
			<u>McCoy</u>	<u>83</u>		

JOB TYPE Logging HOLE SIZE 5 1/2" HOLE DEPTH 982' CASING SIZE & WEIGHT \_\_\_\_\_  
CASING DEPTH 977' DRILL PIPE \_\_\_\_\_ TUBING 2 1/2" OTHER \_\_\_\_\_  
SLURRY WEIGHT 11.5# SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 5.7 bbls DISPLACEMENT PSI 400# MIX PSI Bump Plug 800# RATE \_\_\_\_\_  
REMARKS: Safety Meeting. Rig up to 2 1/2" tubing. Break circulation w/ Fresh water. Mix 200# Gal Flush 2 bbls water spacer. Mix 100#s OWC Cement w/ 1/2" Phenol Seal perist. At 18.5' Acq. Shut down wash out pump & lines. Stuff 2 plugs. Displace with 5.7 bbls Fresh water. Final pumping pressure 400# Bump Plug to 800#. Shut well in. Good Cement Returns to surface.  
Job Complete Rig down

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Thank You

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ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	50	MILEAGE	4.00	200.00
1126	1005#	OWC Cement	17.90	17900.00
1107A	50#	Pheno Seal	1.22	61.00
1118B	200#	Gal Flush	.20	40.00
5407	4.5 ton	Ton mileage Bulk Truck	M/C	330.00
4402	2	2 1/2" Tap Rubber Plug	28.00	56.00
55025	4 hrs	80 bbl minimum Truck	90.00	360.00
1123	3000 Gallons	CITY Water	15.60/1000	46.80
		Total 3984.41 Check # 1787		
		5% Discount 199.22		
		3785.19		
			Sub Total	3858.80
			SALES TAX	125.61
			ESTIMATED TOTAL	3984.41

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AUTHORIZATION [Signature]

TITLE [Signature]

DATE

I acknowledge that the customer terms unless specifically amended in writing on the front of the form or in the customer's