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KCC WICHITA

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

ORIGINAL

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

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:
[checked] New Well [ ] Re-Entry [ ] Workover
[checked] Oil [ ] WSW [ ] SWD [ ] SIOW
[ ] Gas [ ] D&A [ ] ENHR [ ] SIGW
[ ] OG [ ] GSW [ ] Temp. Abd.
[ ] CM (Coal Bed Methane)
[ ] Cathodic [ ] Other (Corr. 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 #:
08/15/11 08/16/2011 08/16/11
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 205-27967-00-00
Spot Description:
SE NW NE NW Sec. 6 Twp. 27 S. R. 17 [checked] East [ ] West
4,786 Feet from [ ] North / [checked] South Line of Section
3,424 Feet from [checked] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [ ] SE [ ] SW
County: Wilson
Lease Name: Rubow Well #: NW1
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 [checked] 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: [Handwritten Signature]
Title: Secretary Date: July 17 2012

KCC Office Use ONLY

[ ] Letter of Confidentiality Received
Date:
[ ] Confidential Release Date:
[checked] Wireline Log Received
[ ] Geologist Report Received
[ ] UIC Distribution
ALT [ ] I [checked] II [ ] III Approved by: Dlg Date: 7/25/12

Operator Name: Black Diamond Research and Development Corp. Lease Name: Rubow Well #: NW1  
 Sec. 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 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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> 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	6 1/4"	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
<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
2	Per. 930"-940"	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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. Oct. 10, 2011  
 Producing Method:  Flowing  Pumping  Gas Lift  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	

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Ventd <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> <u>930' - 940'</u>
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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

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**KCC WICHITA**  
**TREATMENT REPORT**  
**FRAC & ACID**

TICKET NUMBER 53068  
FIELD TICKET REF # 45349  
LOCATION Thayer  
FOREMAN Gary Wilcox

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-28-11		Hubson #1	6	27	17	BWO

CUSTOMER  
Black Diamond (Jerry Phillips)

MAILING ADDRESS

CITY STATE ZIP CODE

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
458	Tim		
582	Wes		
619/791	George		

**WELL DATA**

CASING SIZE <u>2 1/2</u>	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
<u>5-7</u>	<u>B'ville</u>

20' x 5  
6' x 15

**TYPE OF TREATMENT**

Acid Spot / Sand Fracture

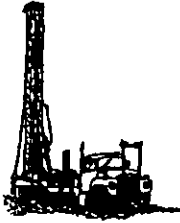
**CHEMICALS**

<u>City Water</u>	<u>75 15% HCL Acid</u>
<u>KCL Subs.</u>	<u>Inhibitor</u>
<u>20' Gel/Breaker</u>	<u>Stimul</u>
<u>Bioxide</u>	

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
<u>Pad</u>	<u>15</u>	<u>-16.2</u>				BREAKDOWN <u>1850</u>
<u>20/70</u>				<u>300</u>		START PRESSURE
<u>12/70</u>				<u>700</u>		END PRESSURE
<u>Close 2 balls</u>						BALL OFF PRESS
<u>12/70 2+1+2 balls</u>	<u>7</u>			<u>500</u>		ROCK SALT PRESS
<u>12/70</u>				<u>500</u>		ISIP <u>625</u>
<u>Flush-out</u>	<u>10</u>					5 MIN <u>vacuum</u>
<u>Release</u>						10 MIN
<u>Overflush</u>	<u>3</u>					15 MIN
<u>Release</u>						MIN RATE
<u>Overflush</u>	<u>2</u>					MAX RATE
						DISPLACEMENT <u>4.9</u>
	<u>120</u>			<u>2000</u>		

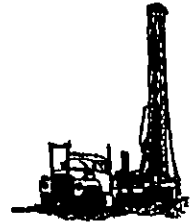
REMARKS: Spot acid to perfs - breakdown and stage  
11/1/11

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_



# LEIS OIL SERVICES

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



Operator License #: 33769		API #: 15-205-27967-00-00	
Operator: Black Diamond R & D Corp.		Lease: Rubow	
Address: 316 W. 14 <sup>th</sup> St. Chanute, KS 66720		Well #: NW 1	
Phone: (620) 431-4111		Spud Date: 08/15/11    Completed: 08/16/11	
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
4	Soil	0	4	20	Shale	794	814
11	Lime	4	15	4	Lime	814	818
106	Shale	15	121	4	Shale	818	822
21	Lime	121	142	10	Broken Sand	822	832
28	Shale	142	170	88	Shale	832	920
55	Lime	170	225	12	Broken Oil Sand	920	932
44	Shale	225	269	10	Oil Sand	932	942
126	Lime	269	395	40	Shale	942	982
18	Shale	395	413				
51	Lime	413	464				
3	Shale	464	467				
42	Lime	467	509				
85	Shale	509	594				
2	Lime	594	596				
8	Shale	596	604		T.D.		982
3	Lime	604	607				
4	Shale	607	611		T.D. of Pipe		977
8	Lime	611	619				
18	Shale	619	637				
5	Lime	637	642				
46	Shale	642	688				
1	Lime	688	689				
19	Shale	689	708				
2	Lime	708	710				
4	Shale	710	714				
15	Lime	714	729				
37	Shale	729	766				
15	Lime	766	781				
8	Shale	781	789				
5	Lime	789	794				