Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1195446

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	_ Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
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:	Producing Formation:
Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:
ENHR Permit #:	Operator Name:
GSW Permit #:	- Lease Name: License #:
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date	Quarter Sec TwpS. R East West County: Permit #:

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						
Confidentiality Requested						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

	Page Iwo	1195446
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INCTRUCTIONS. Show important tang of formations panetrated	Dotail all cores Report all f	nal copies of drill stoms tasts giving interval tasted, time tool

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		og Formatic	on (Top), Depth a	nd Datum	Sample
Samples Sent to Geolog	ical Survey	Yes No	Name	9		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne	w Used rmediate, producti	on, 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
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
_							

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Back TD				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	L
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Γ

Yes	No
Yes	No
Yes	No

No

(If No, skip questions 2 and 3) No (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					Acid, Fracture, Shot, C (Amount and Kind	ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner F	Run:	No	
Date of First, Resumed	l Product	ion, SWD or ENHF	۶.	Producing M	ethod:	oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
		1							1	
DISPOSITION OF GAS: METHOD OF COMPLE		TION:		PRODUCTION INTE	RVAL:					
Vented Solo	d 🗌 l	Used on Lease		Open Hole	Perf.	Dually	Comp.	Commingled		
(If vented, Su	ıbmit ACC	0-18.)		Other (Specify)		Gubinit		(Submit ACO-4)		

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

Form	ACO1 - Well Completion
Operator	Black Diamond Oil, Inc.
Well Name	Belden Unit 1
Doc ID	1195446

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12	8.625	23	208	COMMON	150	2%GEL,3 %CC
Production	7.875	5.5	15.5	3665	COMMON	150	10%SALT, 5%GIL
Production	7.875	5.5	15.5	3665	QMDC	450	1/4 FLOW

QUALITY

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Sec.	Twp.	Range	County	State	On Location	Finish
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ale /-/c/-/L/ C-0	17	<u>] « ~</u>	Location 6	7 F 7/2 N	WHZ	and the states
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contractor www	····		You are her	reby requested to rent nd helper to assist ow	ner or contractor to do	work as listed.
vpe Job Surface			Charge p	L A N		
ole Size 1279	T.D.	208	ToDI	ack Dramond	211	n an a guir an
<u>sg. 8 1/8</u>	Depth	205	Stréet	<u>i na seconda e consecuta e En el consecuta e consecuta</u>	<u>an an a</u>	<u>Ali i Konina.</u> Ali konzera a ali i
bg, Size	Depth	· · · · · ·	City		State	
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leas Line	Displa	Ce 12661		an a	<u></u>	
EQUIP	MENT		Common	150	e per l'ar a provent d	and Alberton M
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CEMENTING, INC QUALITY OILWELL Federal Tax I.D.# 20-2886107 Home Office P.O. Box 32 Russell, KS 67665 No. be Phone 785-483-2025 Cell 785-324-1041 State On Location Finish Twp. County Sec. Range 9:30 PI 28 Norton Date 0 Location elden Unit Lease DI Well No. Owner M n To Quality Oilwell Cementing, Inc. Contractor You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. GANNO Type Job ing Charge To X T.D Hole Size Depth Stree Csg State Depth City Tbg. Size The above was done to satisfaction and supervision of owner agent or contractor Depth Tool Cement Amount Ordered Shoe Join Cement Left in Csg 150 Meas Line Displace EQUIPMENT 50 Common Cementer No. 50 QMBC Poz. Mix 4 Pumptrk Helper Driver No. 4 (mh) Gel. Bulktrk I Driver Driver Driver No Bulktrk Calcium **JOB SERVICES & REMARKS** Hulls DU 3 Salt Remarks: Flowseal Rat Hole Kol-Seal 750 Mouse Hole 000 Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 Baskets D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT 51 Guide Shoe 605 Contralizer 16 andere Baskets **AFU Inserts** Float Shoe Latch Down Lomen Drod Pumptrk Charge Mileage Tax Discount **Total Charge** X Signature

Company: Address:	OPERATOR BLACK DIAMOND OIL, INC. PO BOX 641 HAYS, KANSAS 67601						
Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	KEN VEHIGE 785-625-5891 BELDEN UNIT # 1 N2 N2 N2 Sec.28-4s-22w KANSAS	API: Field: Country:	15-137-20,682-00-00 HANSEN ESTATE NW USA				
	Scale 1.240 Imper	ial					
Well Name: Surface Location: Bottom Location:	BELDEN UNIT # 1 N2 N2 N2 Sec.28-4s-22w	la					
License Number: Spud Date: Region:	7076 2/14/2014 NORTON COUNTY	Time:	3:30 PM				
Drilling Completed: Surface Coordinates: Bottom Hole Coordinates:	2/19/2014 330' FNL & 2640' FEL	Time:	7:14 PM				
Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	2236.00ft 2241.00ft 3000.00ft 3665.00ft LANSING-KANSAS CITY CHEMICAL/FRESH WATER	To: GEL	3665.00ft				
	SURFACE CO-ORDIN	IATES					
Well Type: Longitude: N/S Co-ord: E/W Co-ord:	Vertical -99.8051588 330' FNL 2640' FEL	Latitude:	39.6817719				
	LOGGED BY						
Company: Address:	SOLUTIONS CONSULTING, 108 W 35TH HAYS, KS 67601	INC.					
Phone Nbr: Logged By:	(785) 639-1337 GEOLOGIST	Name:	HERB DEINES				
Contractor							
Rig #: Rig Type: Spud Date: TD Date: Rig Release:	6 MUD ROTARY 2/14/2014 2/19/2014 2/20/2014	Time: Time: Time:	3:30 PM 7:14 PM 11:30 PM				
	ELEVATIONS						
K.B. Elevation: K.B. to Ground:	2241.00ft G 5.00ft	round Elevation:	2236.00ft				
	NOTES						
RECOMMENDATION TO RUN P NUMEROUS BENCHES OF LKC	RODUCTION CASING BASED	ON RESULTS O	F DST # 2 AND SHOWS OF OIL IN				
OPEN HOLE LOGGING: NABOR COMPENSATED DENSITY/NEU	S OPERATIONS AND COMPL TRON POROSITY LOG, MICR	ETIONS SERVIC O LOG	ES CO: DUAL INDUCTION LOG,				
DRILL STEM TESTING BY TRILOBITE TESTING INC: THREE (3) CONVENTIONAL TESTS							

FORMATION TOPS COMPARISON CHART AND CHRONOLOGY OF DAILY ACTIVITY

	BELDEN UNIT #1 N2 N2 N2 SEC.28-4S-22W 2236'GL 2241'KB	SPERRY #1 NE NW SEC.28-4-22W	WAGONER #3 N2 SE NW NE SEC.28-4-22W
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS
Anhydrite	1880 +361	+361	+363
B-Anhydrite	1909 +332	NG	+335
Topeka	3180 -939	NG	- 940
Heebner Sh.	3379-1138	-1138	-1137
Toronto	3406-1165	-1165	-1165
LKC	3424-1183	-1184	-1181
ВКС	3613-1372	-1372	-1371
Arbuckle	NR	-1453	-1443
RTD	3665-1424		
LTD	3668-1427		

CHRONOLOGY OF DAILY ACTIVITY

- 2-14-14 RU, Spud 3:30 PM, set 8 5/8" surface casing to 208' w/150 sxs Common 2%gel 3%CC, plug down 7:30PM, slope ¼ degree
- 2-15-14 251', drill plug at 6:30 AM

2-16-14 2150', drilling, finish displacing 2954'

- 2-17-14 3170', drilling, short trip@3350'-32 stands, CFS 3411', DST # 1 Toronto 3372'-3411', strap 3411.31 board 3411.33
- 2-18-14 3425', drilling, CFS 3430' DST # 2 "A" LKC 3411'-3430', slope 1/8 degree, CFS 3460', CFS 3474', DST # 3 "C" & "D" LKC 3434'-3474'
- 2-19-14 3474', finish DST # 3, TIWB, drilling, RTD 3665' @7:14 PM, mini trip, CCH, TOWB, slope 1 degree @3665', start logs
- 2-20-14 3665', finish logs, TIWB, LDDP, run production casing and cement, RD, overnight snow storm with high winds during day



Trilobite Testing, Inc	Ref. No: 56108	Printed: 2014.02.18 @ 05:31:40
	DST # 2 3411' TO 3430' "/	A" ZONE LKC
	DST # 2 3411' TO 3430' "/	a" zone lkc EPORT
RILOBITE	DST # 2 3411' TO 3430' "/ DRILL STEM TEST R Black Diamond Oil Inc	A" ZONE LKC EPORT 28-4s-22w-Norton Co
RILOBITE TESTING , IN	DST # 2 3411' TO 3430' " DRILL STEM TEST R Black Diamond Oil Inc PO Box 641 Hays KS 67601	A" ZONE LKC EPORT 28-4s-22w-Norton Co Belden Unit #1 Job Ticket: 56109 DST#: 2

3430.00 ft (KB) (TVE 7.88 inchesHole C Outside 205.62 psig @ 2014.02.18 09:45:18 E.O.B. In 2 mins Weak surface blow B.O.B. In 4 mins Weak blow back b Pressure vs. Tim Pressure vs. Tim)) condition: Good 3412.00 ft (KB) End Date: End Time: // back built 2 in uilt to 1 in	2014.02.18 15:35:37 Time (Min.) % 1 % 1 % 40 103 % 40 11 55 % 100 101 %	Capacity: Last Calib.: Time On Btm: Time Off Btm: Time Off Btm: PRESS Pressure Tem (psig) (deg 1693.69 93. 59.84 91. 128.81 98. 590.19 97. 153.17 98. 205.62 101. 596.09 99. 1666.12 98.	2237.00 ft (CF) KB to GR/CF: 5.00 ft 8000.00 psig 2014.02.18 2014.02.18 @ 11:15:27 2014.02.18 @ 12:55:47 SURE SUMMARY p Annotation F) .05 Initial Hydro-static .92 Open To Flow (1) .95 Shut-In(1) .55 .92 Open To Flow (1) .95 Shut-In(1) .96 Find Shut-In(1) .55 .92 Open To Flow (2) .17 Shut-In(2) .49 End Shut-In(2) .23 Final Hydro-static
Outside 205.62 psig @ 2014.02.18 09:45:18 B.O.B. In 2 mins Weak surface blow B.O.B. In 4 mins Weak blow back blow Pressure vs. Tim	3412.00 ft (KB) End Date: End Time: / back built 2 in uilt to 1 in	2014.02.18 15:35:37 Time (Min.) 55 13 65 13 40 13 40 41 55 55 70 100	Capacity: Last Calib.: Time On Btm: Time Off Btm: Time Off Btm: PRESS Pressure Tem (psig) (deg 1693.69 93. 59.84 91. 128.81 98. 590.19 97. 153.17 98. 205.62 101. 596.09 99. 1666.12 98.	8000.00 psig 2014.02.18 @ 11:15:27 2014.02.18 @ 11:15:27 2014.02.18 @ 12:55:47 BURE SUMMARY p Annotation F) .05 Initial Hydro-static .92 Open To Flow (1) .95 Shut-In(1) .95 Shut-In(1) .96 End Shut-In(1) .55 Open To Flow (2) .17 Shut-In(2) .23 Final Hydro-static
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Time (Hous)				
Recovery				Gas Rates
Description	Volume (bbl)		Cho	oke (inches) Pressure (psig) Gas Rate (M
C 60%W 20%M	0.30			
G 80%O	5.47	5		
IP	0.00	0		
S				
	DST # 3 3434' TO 34	74' "C" AN	D "D" LKC	
	DRILL STEM T	EST REP	ORT	
ILOBITE	Black Diamond Oil Inc			w-Norton Co
ESTING , INC.	PO Boy 641		Roldon	llnif #1
	Hays KS 67601		Job Ticket	: 56110 DST#: 3
	ATTN: Herb Deines		Test Start:	: 2014.02.18 @ 23:25:06
CK "C-D" o Whipstock: 1:21:36 5:07:26	ft (KB)		Test Type: Tester: Unit No:	: Conventional Bottom Hole (Rese Tate Lang 49
1 .00 ft (KB) To 347 4 3474.00 ft (KB) (TVE 7.88 inchesHole C	I.00 ft (KB) (TVD))) Condition: Good		Reference	e Bevations: 2242.00 ft (KB) 2237.00 ft (CF) KB to GR/CF: 5.00 ft
	Description 2 60%W 20%M 2 80%W 20%M 3 80%O P 	Description Volume (bbl) 2 60%WV 20%M 0.30 2 80%WV 20%M 1.13 3 80%O 5.47 P 0.00	Description Volume (bb) 260%W 20%M 0.30 280%W 20%M 1.13 380%O 5.47 P 0.00	Description Volume (bbl) Ch 2 60%W 20%M 0.30 0.30 2 80%W 20%M 1.13 3 3 80%O 5.47 P P 0.00





Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca) Curve Track #1 Curve Track #3 ROP (min/ft) Depth | Intervals Lithology Show Ī DST **Geological Descriptions** Cored Interval Interval DST 1:240 Imperial ROP (min/ft) 1:240 Imperial 8 5/8" SURFACE CASING SET BEGIN 1' DRILL TIME FROM 3050' TO RTD 3050 TO 208' W/ 150 SXS COMMON BEGIN 10' WET AND DRY SAMPLES FROM 3150' TO 2%GEL 3%CC RTD SLOPE 1/4 DEGREE @208' 3060 ANHYDRITE SPL TOP 1877+365 ELog 1880+361 ANHYDRITE SPL BASE 1907+335 ELog 1909+332 STRONG WINDS 3070 OVERNIGHT WHIPPED GEOLOGRAPH LINE 3080 _ NOTE: LITHOLOGY FROM LOGS MATCHED TO DRILL 3090 TIME BUT THIS REPORT NOT CORRECTED FOR DEPTH DIFFERENTIAL BETWEEN SAMPLE TOPS AND LOG TOPS OF THREE FEET ----3100 ----3110 Shale, It gray, soft blocky to soft mud in part 3120 Lime, It brn-It grayish brn, fnxln-granular, slight fossiliferous ____ $\neg \bigtriangleup \neg$ slight bedded chalk in part 3130 Lime, It brn, fn-vfxln Shale, It gray, firm, blocky 3140 Lime, tan-It gray, fnxln grading into med brn-med grayish ____ brn, fnxln, slightly fossiliferous, hard on crush 3150 ----=p= . . Lime, It brn, fnxln-granular, scattered fusulinids, slight 3160 bedded chalk grading into med brn to grayish brn,fnxln, . . . slightly fossiliferous near shale boundary



Shale, It gray with tint of green, soft-firm blocky

TOPEKA SPL 3177-936

Lime, crm-tan, fnxln

Lime, crm-tan, fnxln-granular, slight bedded chalk in part

Lime, crm-tan, fnxln-granular, slightly fossiliferous-crinoid segments and fusulinids, slight bedded chalk

Shale, It gray with tint of green, calcareous with fossil fragments

Lime, crm-tan, fnxln-granular

Lime, crm-tan, It white chalk wash, granular, thin beds of fine oolites and fossil fragments, slight bedded chalk , NS

Lime, crm-tan, increasing fnxln with decreasing granular content, slight bedded chalk

Lime, crm-tan, fnxln with micro xln in part, slight bedded chalk in part



Shale, reddish brn-dark brn, soft forming sticky clumps

0	P(r (min/ft)	5 3600			
				Lime, crm, mostly fnxln, slight bedded chalk, few spots of oil staining but no visible porosity system noted	CFS 3505'
		3610		BKC SPL 3611-1370	
	5	3620		Shale, red wash, soft forming sticky clumps, slightly sandy in part with red staining, NS, few scattered chert nodules in part	
	5	3630	0	Shale, red, soft with zone of clastic lime, crm, fnxln-granular with red staining in part, few chips with fair streaming wet cut but not well developed as show only noted in a couple of chips, cut indicated high gravity oil	
		3650			RAN 88 JTS 5 1/2" CASING SET TO 3664' W/ 450 SXS QMDC-QUALITY CEMENTING, PLUG DOWN 9:30 PM
				in part	
		3660		Lime, white-crm, fnlxn with increasing bounching and torque of bit indicating harder porosity being encountered	RTD 3665-1424 LTD 3668-1427