



KANSAS CORPORATION COMMISSION 1095765  
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     SLOW  
 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 #: \_\_\_\_\_  
5/17/2012    5/21/2012    5/22/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-163-24039-00-00  
Spot Description: \_\_\_\_\_  
NW SE SE NW Sec. 9 Twp. 7 S. R. 20  East  West  
2130 Feet from  North /  South Line of Section  
2280 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rooks  
Lease Name: Roy/Gager Well #: 3  
Field Name: Probasco  
Producing Formation: Lansing / KC  
Elevation: Ground: 2153 Kelly Bushing: 2158  
Total Depth: 3678 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: 3677  
feet depth to: 250 w/ 525 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 6000 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: Vehige SWD License #: 7076  
Quarter SW Sec. 33 Twp. 7 S. R. 20  East  West  
County: Rooks Permit #: D-23315

**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: Deanna Garrisor Date: 10/25/2012



1095765

Operator Name: Black Diamond Oil, Inc. Lease Name: Roy/Gager Well #: 3  
 Sec. 9 Twp. 7 S. R. 20  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 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:  NEUTRON/DENSITY GAMMA RAY SONIC BOND	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1731</td> <td>431</td> </tr> <tr> <td>Topeka</td> <td>3142</td> <td>-980</td> </tr> <tr> <td>Heebner</td> <td>3346</td> <td>-1184</td> </tr> <tr> <td>Lansing KC</td> <td>3385</td> <td>-1223</td> </tr> <tr> <td>Arbuckle</td> <td>3618</td> <td>-1456</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1731	431	Topeka	3142	-980	Heebner	3346	-1184	Lansing KC	3385	-1223	Arbuckle	3618	-1456
Name	Top	Datum																	
Anhydrite	1731	431																	
Topeka	3142	-980																	
Heebner	3346	-1184																	
Lansing KC	3385	-1223																	
Arbuckle	3618	-1456																	

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	15.5	3677	QMDC	525	.25# flow

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 <i>(Amount and Kind of Material Used)</i>	Depth
1	3644, 3641, 3636, 3626	1000 g, 15% MCA	
1	3551, 3538	1000 g, 15% MCA; 2000 g, 28% NE	
4	3386-3388	500 g, 15% MCA	

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3549</u>	Packer At: <u> </u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>07/13/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>		
Estimated Production Per 24 Hours	Oil Bbls. <u>2</u>	Gas Mcf <u>0</u>	Water Bbls. <u>10</u>	Gas-Oil Ratio <u> </u> Gravity <u> </u>

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 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) <u> </u>	PRODUCTION INTERVAL: <u>3644-3386</u>
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# QUALITY OILWELL CEMENTING, INC.

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

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

No. 660

Date	5.17.12	Sec.	9	Twp.	7	Range	20	County	Rooks	State	KS	On Location		Finish	7:15am		
Lease	Roy/Gager	Well No.	3			Location						Lagan Rd 20 1/2 E Suto					
Contractor	W.W.						Owner										
Type Job	Surface						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	12 1/4		T.D.			218			Charge To						Black Diamond		
Csg.	8 5/8		Depth			217			Street								
Tbg. Size			Depth						City						State		
Tool			Depth						The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.	15		Shoe Joint						Cement Amount Ordered						150 com 3 1/2 cu 2 1/2 cu		
Meas Line			Displace			12 1/2 B.C.											

### EQUIPMENT

Pumptrk	9	No.	Cementer	Joe G	Common
			Helper		
Bulktrk		No.	Driver	Matt	Poz. Mix
			Driver		
Bulktrk	14	No.	Driver	Lonnie	Gel.
			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
8 5/8 on bottom. Est. Circulation.	Sand
Mix 150 S.C. & Displace.	Handling
Cement Circulated!	Mileage

### FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	
Mileage	

Tax	
Discount	
Total Charge	

API # 15-163-24039-00-00

Operator: Black Diamond Oil, Inc.

Well Name & No: Roy/Gager #3

Location: 2130' FNL & 2280' FWL Section 9-7S-20W

County: Rooks

State: Kansas

Rig No.: 8 Contractor: WW Drilling, LLC

Tool Pusher: Sid Deutscher 785-259-2382

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

Rig Phone: 785-259-0816

Make Pump: Emsco D-375

Liner & Stroke: 6 x 14

Spud 5/17/2012 @ 2:30 pm

Approx. TD: 3700 Elevation: 2157

K.B. 2182

KB Hole Complete: 5/21/12 @ 6:15 pm

Mud Co.: Andy's

Mud Engineer: Ken Rupp

Water Pond

Date	05/17/12	05/18/12	05/19/12	05/20/12	05/21/12	05/22/12			
Days	1-spud	2-drig	3-drig	4-clch	5-drig	6-lddp			
Depth		590	2685	3387	3500	3678			
Ft. Cut		590	2095	702	113	178			
D.T.									
D.T.		.75-wop							
C.T.				3.5	18.5	14			
Bit Wt.	all	15,000	30,000	35,000	35,000				
RPM	100	90	85	85	85				
Pressure	450	500	750	750	775				
SPM	60	58	58	58	58				
Mud Cost			4510	7897	7897	8112			
Mud Wt.		8.8	9.1	9	9.2				
Viscosity		28	28	58	60				
Water Loss				7.6	60				
Chlorides				500	7.6				
L.C.M.				4#	800				
Dev. Sur		.75"-218			3#				
Dev. Sur					1/4"-3387	1"-3678			
Fuel	2200	2050	1700	3100	2900	2600			
Water-Pit		3'	3'	3'	3'	3'			
ACC Bit Hrs		3	25	43.75	49	58.5			
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm			
Weather	clear	clear	clear	clear	clear	clear			

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	218	218	2.75	2.75	RR	102610	
2	7 7/8	Sm - F-27	3678	3480	58.5	61.25	New	PX 3204	
3								60 FPH	
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
217	8 5/8	150	Common, 3% cc, 2% gel	7:15 PM	3:15 AM	Quality Cem. Did circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3340-3387	30	30	out		2' mud
2	3412-3468	30	30	out		5' mud
3						
4						
5						
6						
7						
8						
9						

Surface Casing Furnished by: Milden delivered 5 joints of 23#, 8 5/8 lally 210.93 set @ 217'.

Remarks: Strap & weld surface by MS. Anhydrite @ 1731-1764'. Displaced @ 2802' (640 bbls). Short trip @ 3887', 35 stands (2.5 hrs). RTD 3680'. Short trip 10 stands (.75 hr). Pipe strap .94 long. LTD 3680' by Superior, logged 3 hrs. Run casing.

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 965

Date	5-29-12	Sec.	9	Twp.	7	Range	20	County	Reed	State	Kansas	On Location		Finish	1:15 PM
Lease	Ray/Groves		Well No.	3		Location									
Contractor	W/D Drilling RGS										Owner	To Quality Oilwell Cementing, Inc.			
Type Job	Longstring										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.	3678		Charge To									
Csg.	5' 15 50ll		Depth	3678		Black Diamond Oil									
Tbg. Size			Depth			Street									
Tool			Depth			City									
Cement Left in Csg.	42		Shoe Joint	42		State									
Meas Line			Displace	86 1/2 RL		The above was done to satisfaction and supervision of owner agent or contractor.									

**EQUIPMENT**

Pumptrk	5	No.	Cementor	Alan
			Helper	
Bulktrk	13	No.	Driver	Brad
			Driver	
Bulktrk	14	No.	Driver	Tracy
			Driver	

**JOB SERVICES & REMARKS**

Remarks:  
Rat Hole 30-2  
Mouse Hole  
Centralizers 1 3 5 7 9 11 45  
Baskets 2 9 46  
D/V or Port Collar  
30'er Rat Hole

Land plug @ 1500 ft  
Float Hold  
Cement did not circulate

Signature: *[Handwritten Signature]*

Cement Amount Ordered	525 AMEC 11 11 11
Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	7
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	1

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

**OPERATOR**

Company: BLACK DIAMOND OIL, INC.  
 Address: P.O. BOX 641  
 HAYS, KS 67601

Contact Geologist: KENNETH VEHIGE  
 Contact Phone Nbr: (785) 625-5891  
 Well Name: ROY/GAGER #3  
 Location: NW SE SE NW 9-7S-20W  
 Pool: API: 15-163-24039-0000  
 State: KANSAS Field: UNNAMED  
 Country: USA

## Scale 1:240 Imperial

Well Name: ROY/GAGER #3  
 Surface Location: NW SE SE NW 9-7S-20W  
 Bottom Location:  
 API: 15-163-24039-0000  
 License Number: 7076  
 Spud Date: 5/17/2012 Time: 3:34 PM  
 Region: ROOKS  
 Drilling Completed: 5/21/2012 Time: 5:18 PM  
 Surface Coordinates: 2130 FNL & 2280 FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2157.00ft  
 K.B. Elevation: 2162.00ft  
 Logged Interval: 217.00ft To: 3680.00ft  
 Total Depth: 3678.00ft  
 Formation:  
 Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.5572823 Latitude: 39.4607134  
 N/S Co-ord: 2130 FNL  
 E/W Co-ord: 2280 FWL

**LOGGED BY**

Company: SOLUTIONS CONSULTING  
 Address: 108 W 35TH  
 HAYS, KS 67601

Phone Nbr: (785) 259-3737  
 Logged By: Geologist Name: JEFF LAWLER

**CONTRACTOR**

Contractor: WW DRILLING, LLC  
 Rig #: 8  
 Rig Type: MUD ROTARY  
 Spud Date: 5/17/2012 Time: 3:34 PM  
 TD Date: 5/21/2012 Time: 5:18 PM  
 Rig Release: 5/22/2012 Time: 12:00 PM

**ELEVATIONS**

K.B. Elevation: 2162.00ft Ground Elevation: 2157.00ft  
 K.B. to Ground: 5.00ft

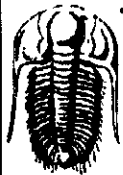
**NOTES**

DECISION WAS MADE TO RUN PRODUCTION CASING AND FURTHER EVALUATE ZONES OF INTEREST NOT COVERED IN DRILL STEM TESTS. ONCE THE WELL IS DEEMED NON-COMMERCIAL PLANS ARE TO CONVERT TO AN AUTHORIZED INJECTION WELL.

WELL COMPARISON SHEET

FORMATION	I				II				III				IV								
	BLACK DIAMOND OIL				BLACK DIAMOND OIL				BLACK DIAMOND OIL				NORTHERN PRODUCTION CO.								
	LESAGE #2				ROY/GAGER #2				ROY/GAGER #1				EULA MAE ROY #1								
	ROY/GAGER #3				NW SW NE SW 9-7-20				SE SE NW NW				SW NW NW NE								
KB		2162		KB		2153		KB		2159		KB		2193		KB		2182			
LOG TOPS		SAMPLE TOPS		CARD/SAMPL TOPS		LOGS		SMPL.		CARD/SAMPL TOPS		LOGS		SMPL.		DATA SOURCE		LOGS		SMPL.	
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM
ANHYDRITE TOP		1731	431	1768	985			1736	423			1769	424			1759	423				
BASE		1764	398																		
TARNO																					
TOPEKA		3149	-987	3134	-981			3142	-983			3169	-976			3168	-986				
OREAD																					
HEBERN SHALE		3346	-1184	3337	-1184			3346	-1187			3374	-1181			3368	-1186				
TORONTO		3372	-1210	3360	-1207			3369	-1210			3398	-1205			3390	-1208				
DOUGLAS																					
BROWN LIME																					
LKC		3387	-1225	3376	-1223			3384	-1225			3410	-1217			3406	-1224				
RKC		3589	-1427	3576	-1423			3580	-1421			3615	-1422			3608	-1426				
CONG. SAND																					
MISSISSIPPIAN																					
ARBUCKLE		3614	-1452	3607	-1454			3615	-1456			3650	-1457			3642	-1460				
DEAGAN																					
RTD		3647	-1485	3631	-1528			3690	-1531			3670	-1477			3700	-1518				
LTD				3680	-1527																

DST #1 TORONTO



**TRIOBITE TESTING, INC.**

DRILL STEM TEST REPORT

Black Diamond Oil Inc

9 7n 20w Rooks

P. O. Box 641  
Hays Ks 67601

Roy / Gager # 3

ATTN: Jeff Lawler

Job Ticket: 46166

DST#: 1

Test Start: 2012.05.20 @ 10:15:00

GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: 2162.00 ft (KB)  
 Time Tool Opened: 11:40:00  
 Time Test Ended: 14:10:00  
 Interval: **3340.00 ft (KB) To 3387.00 ft (KB) (TVD)**  
 Total Depth: 3387.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 57  
 Reference Elevations: 2162.00 ft (KB)  
 2157.00 ft (CF)  
 KB to GR/CF: 5.00 ft

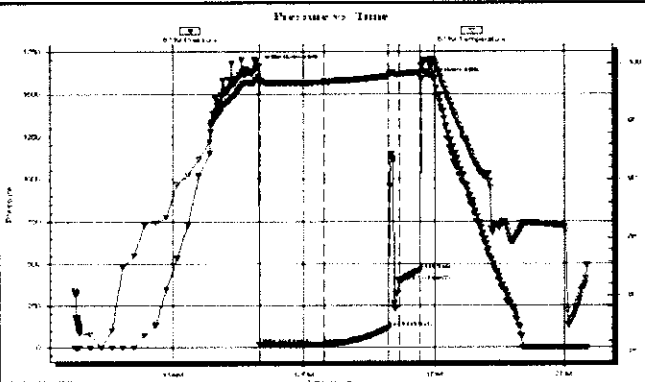
Serial #: 6719

Inside

Press@RunDepth: 19.25 psig @ 3351.00 ft (KB)  
 Start Date: 2012.05.20 End Date: 2012.05.20  
 Start Time: 10:15:05 End Time: 14:10:30

Capacity: 8000.00 psig  
 Last Calib: 2012.05.20  
 Time On Btm: 2012.05.20 @ 11:39:30  
 Time Off Btm: 2012.05.20 @ 12:54:00

TEST COMMENT: 30-FFP- Surface Blow Died in 7min  
 30-ISIP- No Blow  
 Flushed  
 10-FFP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.11	98.86	Initial Hydro-static
1	17.65	98.55	Open To Flow (1)
30	19.25	98.45	Shut-In(1)
60	117.07	98.90	End Shut-in(1)
65	396.05	99.07	Open To Flow (2)
74	464.88	99.26	Shut-in(2)
75	1591.51	99.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

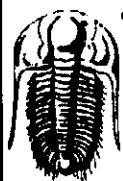
Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)


Trilobite Testing, Inc

Ref. No: 46166

Printed: 2012.05.21 @ 07:47:45

**DST #2 LKC "C-F"**

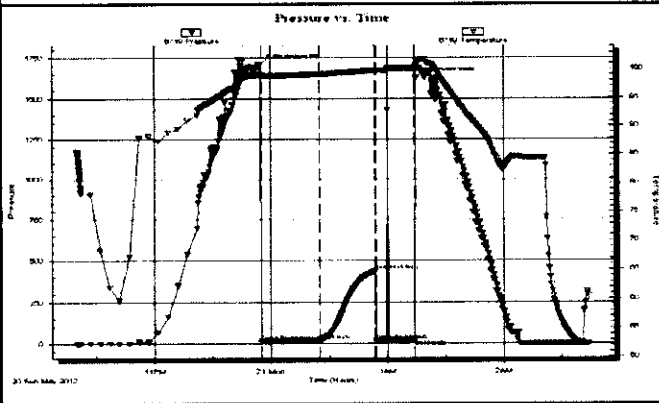
 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>	
	Black Diamond Oil Inc	<b>9 7n 20w Rooks</b>
	P. O. Box: 641 Hays Ks 67601	<b>Roy / Gager # 3</b>
	ATTN: Jeff Lawler	Job Ticket: 46167 <b>DST#: 2</b> Test Start: 2012.05.20 @ 22:20:00

**GENERAL INFORMATION:**

Formation: <b>LKC "C-F"</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock 2162.00 ft (KB)	Tester: Jim Svaty
Time Tool Opened: 23:55:00	Unit No: 57
Time Test Ended: 02:44:00	Reference Elevations: 2162.00 ft (KB)
Interval: <b>3412.00 ft (KB) To 3468.00 ft (KB) (TVD)</b>	2157.00 ft (CF)
Total Depth: 3468.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches-Hole Condition: Fair	

<b>Serial #: 6719</b> <b>Inside</b>	Capacity: 8000.00 psig
Press@RunDepth: 19.46 psig @ 3413.00 ft (KB)	Last Calib.: 2012.05.21
Start Date: 2012.05.20      End Date: 2012.05.21	Time On Btm: 2012.05.20 @ 23:54:30
Start Time: 22:20:05      End Time: 02:43:59	Time Off Btm: 2012.05.21 @ 01:14:30

**TEST COMMENT:** 30-IFP- Surface Blow Died in 17min  
 30-ISIP- No Blow  
 10-FFP- No Blow  
 Pulled



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.25	99.00	Initial Hydro-static
1	13.27	98.81	Open To Flow (1)
31	19.46	99.06	Shut-In(1)
59	437.29	99.72	End Shut-In(1)
60	17.71	99.65	Open To Flow (2)
80	21.94	100.13	Shut-In(2)
80	1623.97	100.64	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

Gas Rates			
	C' hole (inches)	Pressure (psig)	Gas Rate (Mc/d)

Trilobite Testing, Inc

Ref. No: 46167

Printed: 2012.05.21 @ 07:42:12



### ROCK TYPES



### ACCESSORIES

#### MINERAL

P Pyrite

#### FOSSIL

Crinoids  
Fussilinid

#### STRINGER

Chert  
Dolomite  
green shale  
red shale

#### TEXTURE

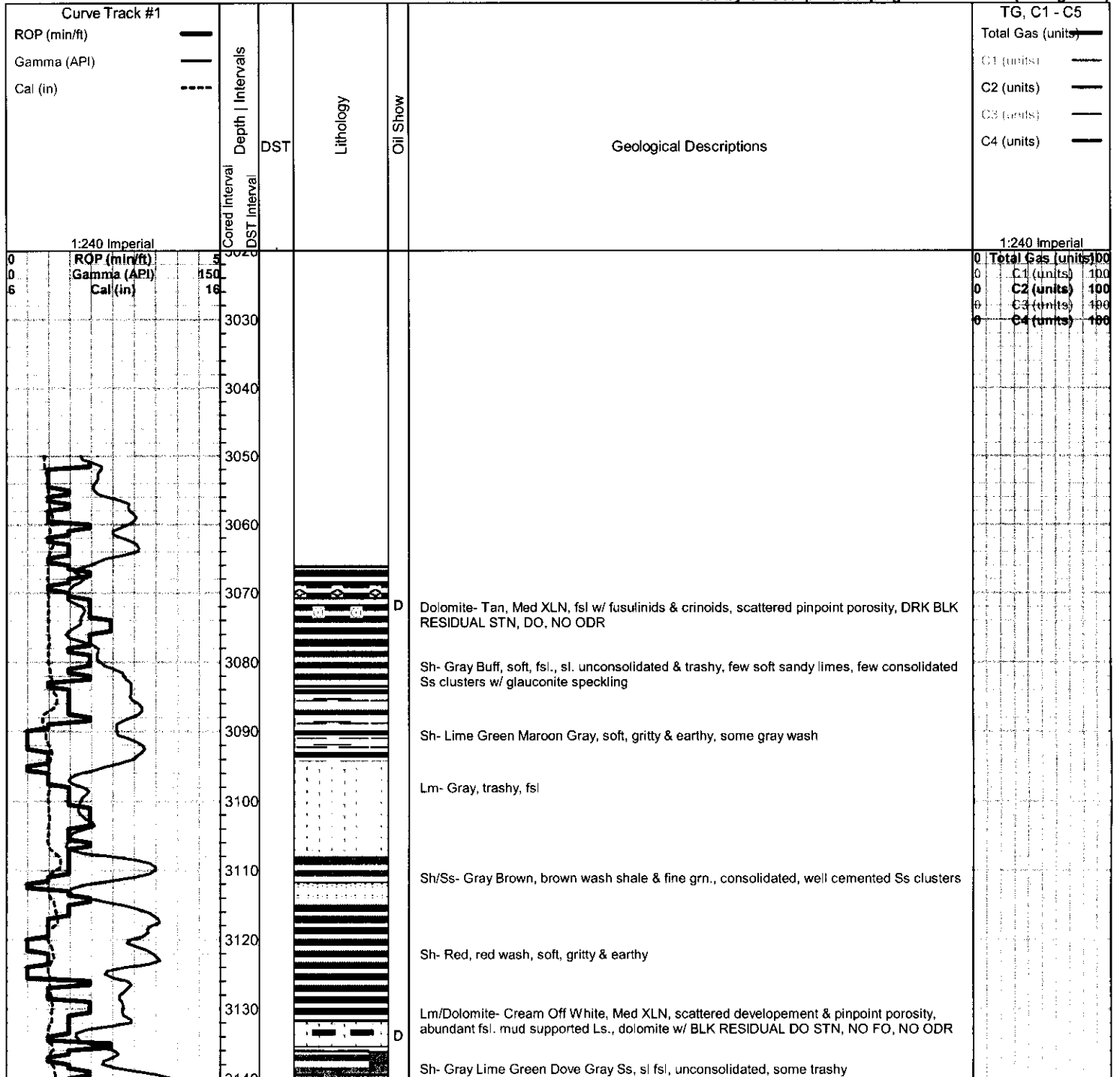
MX MicroXln

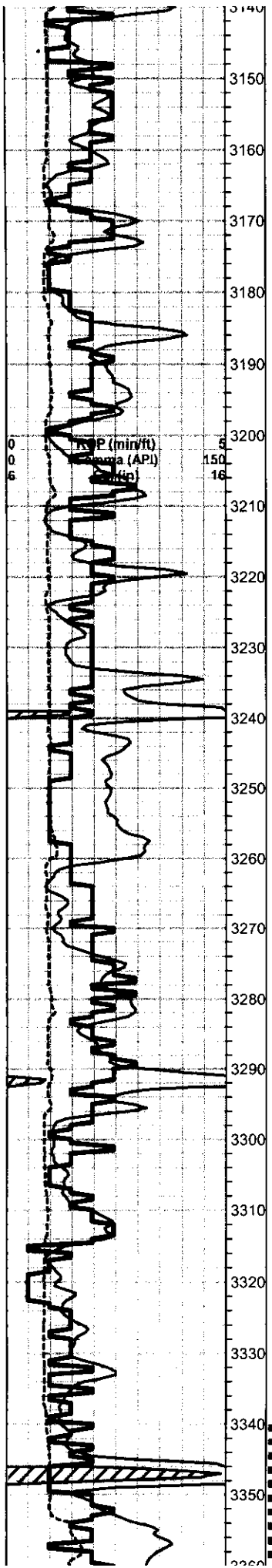
### OTHER SYMBOLS

#### DST

DST Int  
DST alt  
Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





**TOPEKA 3149' (-987) E-LOG 3141' (-979)** Lm- Cream Tan, FLXN, dense, poorly developed, not very homogenous, tight, chalky in part

Lm- Cream Tan, Fine grn., chalky, soft, crumbly, few dense FXLN chips, oolitic, well cemented w/ translucent siliceous cementation

Lm- Cream Tan Buff, FXLN, dense, densely packed oolites, gritty & grainy, sl. dolomitic, few chips of sl cherty Ls w/ no visible porosity

Sh- Gray Black Maroon White, soft, black wash, earthy

Lm- Gray Buff Cream, F-Med XLN, fsl, mostly trashy bio-clastic, few chips of cryptocrystalline sl cherty Ls w/ no visible porosity

Lm- Cream, F-Med grn., chalky in part, fsl, mostly crumbly, few dense well cemented w/ limited visible porosity, clean & barren

Lm- Cream Smokey Gray, mix of bedded chert & cherty Ls., abundant white chalk

Lm- Cream Buff Gray, fine grn., dense algal Ls., minimal development w/ limited to no visible porosity

Lm- Cream Gray, fine grn., mostly mud supported matrix trashy fsl, few chips of fsl cherty Ls, all clean & barren

Sh- Black Red, fissile, slaty, carbonaceous, some gritty & earthy

Sh- Gray Lime Green Brown, few chips of Ss, mostly lime green & brown wash shale

Lm- Cream Tan, FXLN, dense, mostly well cemented w/ limited visible porosity, few chips of gritty sl dolomitic Ls w/ scattered pinpoint porosity, few chips of well cemented siltstone speckled w/ pyrite

Lm- A/A, little bit more development, fsl w/ fusulinids, micro porosity, no shows noted

Sh- Lime Green Maroon Brown, soft, sandy lime, gritty & earthy, few dense slivers

Sh- Black Gray, dense, fissile, carbonaceous, black wash, few chips of very well compacted siltstone

Lm- Cream Tan, F-Med XLN, oolitic, scattered pinpoint to vugular porosity on top of bench, DRK HVY SCATTERED STN, GOOD LIVELY FO, FNT ODR, grading down into sl. dolomitic dense poorly developed w/ scattered pinpoint porosity

Lm- Cream Tan, F-Med XLN, massive, sl fsl, dense & well cemented, granular, moderately well developed w/ scattered pinpoint to vugular porosity, SCATTERED DRK STN, GOOD LIVELY FO UPON CRUSH, FNT ODR UPON CRUSH, few chips of fsl bedded chert

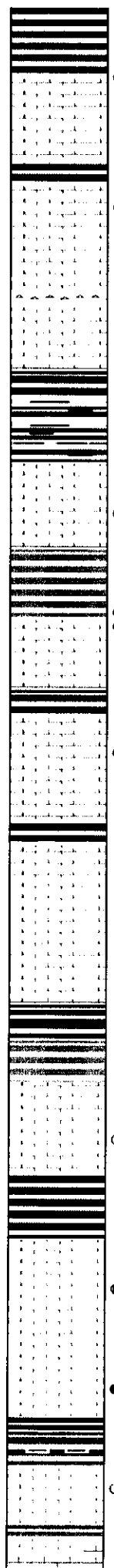
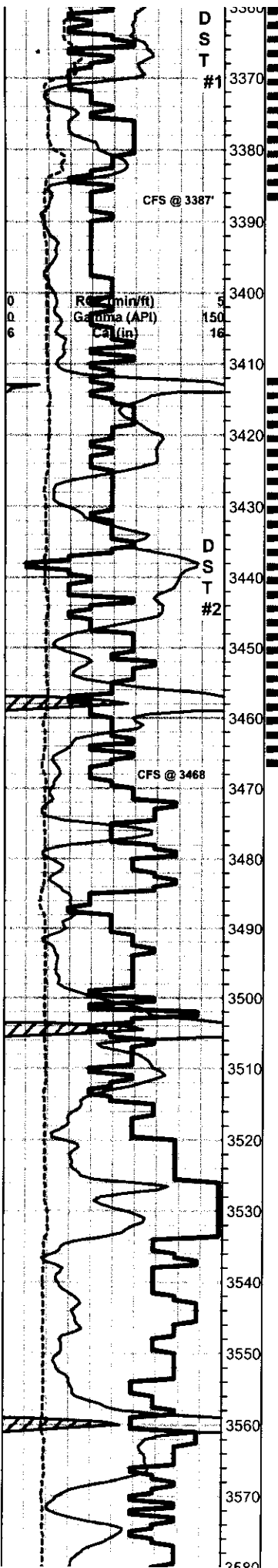
Sh- Gray White, abundant white sticky chalk

Lm- Cream Tan, FXLN, chalky in part, sl. fsl, moderate development, very well cemented, scattered pinpoint porosity, SCATTERED DRK STN, SL SFO UPON CRUSH, NO ODR

**HEEBNER 3346' (-1184) E-LOG 3345' (-1183)** Sh- Black Red Gray, fissile, slaty, carbonaceous, some gritty & earthy

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

SHORT TRIP  
SLOPE 1/4 dgr.



Sh- Gray Rusty Brown White, abundant sticky argillaceous clumps and chalky balls

**TORONTO 3372' (-1210) E-LOG 3370' (-1108)** Lm- Cream Brown, FXLN, some dense & very well cemented, well developed w/ mostly consistent pinpoint porosity throughout, SATURATED LT BRWN STN, FR SFO, GSY SHEEN, FNT ODR

**LKC 3387' (-1225) E-LOG 3384' (-1222)** Lm- Buff Tan, Med XLN, oolitic, moderately well developed, scattered interparticle porosity, sub-vugular porosity w/ recrystallization w/in veins, DRK BRWN SCTRD ST, FR SFO UPON CRUSH, ODR

Lm- Cream White, VFXLN, dense, cryptocrystalline, sl. fsl, no visible porosity, chalky, chips of bone white sharp angular bedded chert

Sh- Black Gray Lime Green Maroon Brown, soft, smooth, earthy

Lm- Cream Off White, FXLN, quite a bit of pyrite, mostly dense, sl. fsl, well cemented, few chips w/ consistent pinpoint porosity, speckled w/ pyrite, SCTRD LT STN, NSFO, NO ODR

**DST #2**

Lm- Cream Tan, F-Med XLN, sl. oolitic, sctrd fine pinpoint secondary XLN porosity, chalky in part, few chips of tan dense, well cemented, w/ very sctrd pinpoint porosity, SCTRD LT STN, 5-6 CHPS W/ SCTRD LT STN, NO SFO, 1-2 CHPS W/ VERY SCTRD DRK HVY STN, SL SFO, NO ODR

Lm- Cream Tan, mix of small oolitic clusters w/ good interparticle porosity, LT GSY STN, NSFO, & tan, FXLN, densely packed oolites w/ clear siliceous cementation, DRK HVY SCTRD STN, SL SFO, ALL W/ FR ODR

Lm- Cream, FXLN, dense, semi-brittle w/ minimal development, limited visible porosity, chalky

Lm- Cream, FXLN, sl. fsl, oolitic, micro XLN porosity w/ scattered dense secondary porosity, chalky, no shows noted

Chert- Salmon Tan Smokey Gray, sharp angular bedded chert, few chips of gritty sl. dolomitic chert

Lm- Cream Buff, VF-FXLN, dense, cryptocrystalline, few sl. cherty Ls, and dense algal Ls, all w/ very limited visible porosity

Sh- Black Brown Gray, fissile, dense, slaty, carbonaceous, smooth soft slivers

Lm- Buff, Fine grn., dense, well cemented, algal Ls., minimal scattered visible porosity, 1-2 chips of smokey gray/tan bedded chert, scattered pinpoint porosity w/ SCTRD LT STN, NSFO, NO ODR

Sh- Maroon Gray Lime Green, soft, gritty & earthy

Lm- Cream Tan, F-Med XLN, oolitic, fair inter oolite porosity, recrystallization w/in, LT GSY STN, SL SFO, FR GSY ODR, chips of tan dense, well cemented, sub-cryptocrystalline

Lm- Tan Cream, FXLN, consistent development w/ dense very fine pinpoint porosity, LT GSY SAT STN, SL SFO, GD GSY ODR

Sh- Black Gray Lm Green, soft, smooth chips

Lm- Off White Cream, VF-F XLN, mostly dense, tight, cryptocrystalline w/ minimal visible porosity, few chips w/ densely packed small oolites, 2-3 chips w/ scattered pinpoint porosity, SCTRD LT GSY STN, NSFO, FNT ODR UPON CRUSH

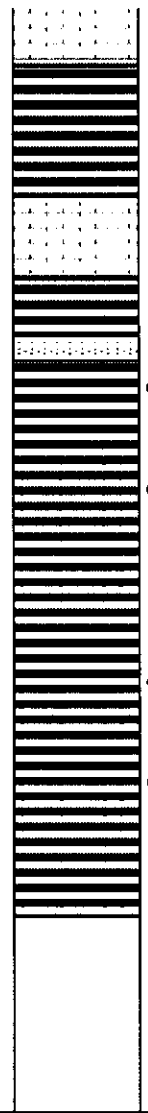
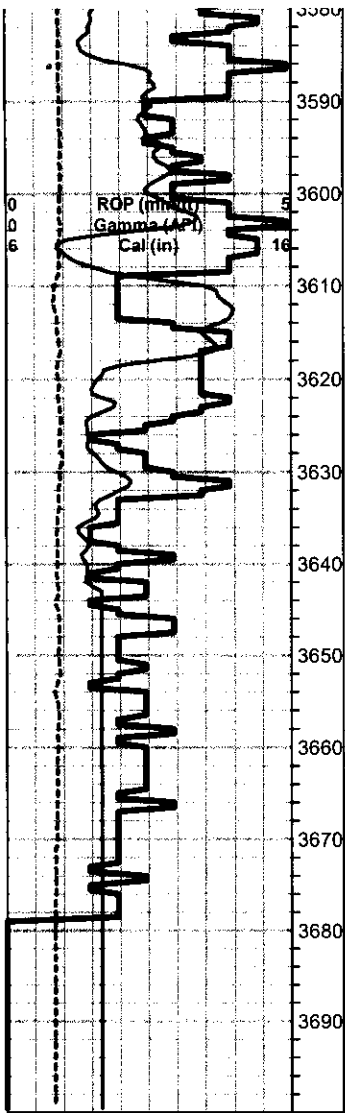
Lm- Cream, FXLN, tight, clear siliceous cementation, densely packed med. oolites, no

STRAP 70.34

**DST #1 TORONTO 3340 - 3387**

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

**DST #3 LKC "C-F" 3412 - 3468**



visible porosity

**BKC 3589' (-1437) E-LOG 3586' (-1424)** Sh- Red Gray Lm Green, sandy shales & limes, dense, well compacted smooth slivers

Lm- Cream Off White, Med XLN, fsl, large oolites, dense, constant XLN porosity, chalky in part, clean & barren

Sh- Red, soft, gritty & earthy

Ss- Red White, VF grn, consolidated, chalky, friable

**ARBUCKLE 3614' (-1452) E-LOG 3618' (-1456)** Dolomite- Cream Tan Buff, F-Med XLN, mix of dense, tight well cemented w/ limited visible porosity and med XLN, sucrosic well developed w/ constant pinpoint porosity throughout, SAT DRK STN, GD SFO, SOME BLEEDING FO, FNT ODR

Dolomite- Cream Buff, Med-Coarse XLN, constant pinpoint porosity, sucrosic, visible rhombs, SAT DRK STN, BLEEDING FO, FNT ODR, few chips w/ cavernous porosity

Dolomite- VF-F XLN, dense, tight, limited visible porosity, few chips of sl. cherty dolomite w/ salmon tint, clean & barren

Dolomite- Cream Buff, F-Med XLN, scattered pinpoint porosity, sl. unsolidated, speckled w/ glauconite and pyrite inclusions, SCTRDRK BRWN STN, FO, VRY FNT ODR

Dolomite- Cream Clear, sandy dolomite w/ glauconite inclusions, well sorted & consolidated, clear rounded qtz. grns, loosely cemented w/ dolomite cementation, very little HCL effervescence, SCTRDRK STN, SL SFO, VRY FNT ODR

Dolomite- Buff Tan, VF XLN, rounded qtz. inclusions, dense, well cemented, limited visible porosity

**RTD 3678' (-1515) LTD 3680' (-1518) @ 18:18 5/21/2012**

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



### **Roy/Gager #3**

2130 ' FNL & 2280' FWL Sec. 9-7-20W  
Rooks County, Kansas

#### **June 13, 2012**

Ran Gamma Ray Sonic Bond Log. Found top of cement at 250 ft. from surface and possible cement up to 225 ft. Met with Case Morris at KCC; he approved cement job with no further work needed.

#### **June 21, 2012**

Move in and rig up Gaschler Pulling Service, Inc. Talley and ran 2 3/8" tubing with 4 3/4" bit. Rig up, Golden B, drill wiper plug and insert 22 ft. cement in shoe joint. Pull tubing with bit and swab casing down to 2500 ft. SDFN.

#### **June 22, 2012**

L.K. Wireline, Inc. perforated 3644, 3641, 3636, and 3626 each with one hole. Ran tubing with P&P set over all zones. Swab down with trace oil. Treat with 1000 gal. 15% MCA, set 30 minutes and swab down with good show of oil. Ran two 30 minute tests and recovered 2.4 Bbl. 27-40% oil. SDFN.

#### **June 25, 2012**

1200 ft. fluid in hole, 33% oil. Swab down and test all day at 2.4 Bbl. Per hour; oil declined to 10%. SDFN.

#### **June 26, 2012**

1450 ft. fluid, 11% oil. Pull P&P and perforate 3551 and 3538 each with one hole, and 3386 to 3688 with 4 HPF. Ran tubing with P&P and set over 3551 and 3538 and treat with 1000 gal. 15% MCA. Swab back show of oil, reset over 3386-3388 and treat with 500 gal. 15 % MCA. SDFN.

#### **June 27, 2012**

Fluid down hole 2100 ft. Swab down with show of oil. Run two 30 minute tests and recovered .75 Bbl per 30 minutes with trace of oil. Reset over 3551-3538 and swab down and test .75 Bbl. .75 Bbl per 30 minutes 15-20% oil. Retreat with 2000 gal. 28% NE. SDFN.

**June 28, 2012**

Fluid down hole at 1300 ft. Swab down and test 3.2 Bbl per hour 10-20% oil for two hours. Pull tubing with P&P. SDFN.

**June 29, 2012**

Ran tubing with packer (bull plugged on bottom) and set at 3580 ft. Ran rods with 2" x 1 1/2" x 12' insert plug. Tear down and move off.