Company: Address: Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	OPERATOR BLACK DIAMOND OIL, INC. PO BOX 641 HAYS, KANSAS 67601 KEN VEHIGE 785-625-5891 KEMPER # 2 NE NW NE NW Sec.27-5s-21 KANSAS	w API: Field: Country:	15-137-20,689-00-00 RAY WEST USA		
	Coole 1:240 Imperi				
Well Name: Surface Location: Bottom Location: API: License Number: Spud Date: Region:	Scale 1:240 Imperi KEMPER # 2 NE NW NE NW Sec.27-5s-21 15-137-20,689-00-00 7076 3/6/2014 NORTON COUNTY		8:28 PM		
Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation:	3/9/2014 30' FNL & 1950' FWL 2175.00ft 2180.00ft 3100.00ft 3609.00ft ARBUCKLE	Time: To:	10:02 PM 3609.00ft		
Drilling Fluid Type:	CHEMICAL/FRESH WATER	GEL			
Well Type: Longitude: N/S Co-ord: E/W Co-ord:		ATES Latitude:	39.5959863		
Company: Address:	LOGGED BY SOLUTIONS CONSULTING, 108 W 35TH HAYS, KS 67601				
Phone Nbr: Logged By:	(785) 639-1337 GEOLOGIST	Name:	HERB DEINES		
Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	CONTRACTOR WW DRILLING, LLC 6 MUD ROTARY 3/6/2014 3/9/2014 3/11/2014	Time: Time: Time:	8:28 PM 10:02 PM 3:45 AM		
ELEVATIONS					
K.B. Elevation: K.B. to Ground:	2180.00ft Gr 5.00ft	ound Elevation:	2175.00ft		
NOTES RECOMMENDATION TO RUN PRODUCTION CASING TO FURTHER TEST ARBUCKLE BASED ON POSITIVE RESULTS OF DST # 1 AND FAVORABLE STRUCTURE.					
OPEN HOLE LOGGING BY: NABORS COMPLETION & PRODUCTION SERVICES CO: DUAL INDUCTION LOG, COMPENSATED DENSITY/NEUTRON LOG, MICRO LOG					
DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) CONVENTIONAL TEST					

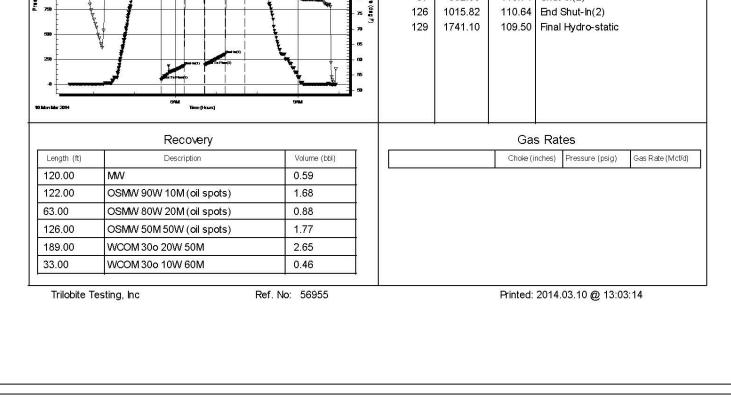
FORMATION COMPARISON CHART AND CHRONOLOGY OF DAILY ACTIVITY

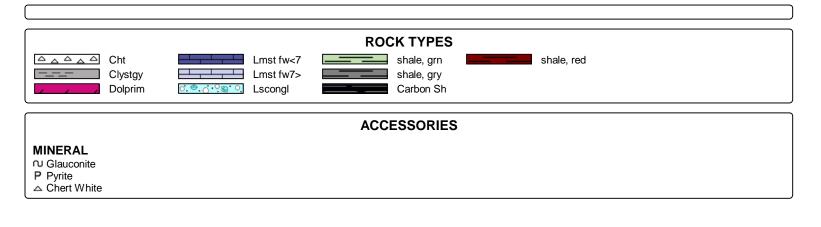
NE	MPER #2 NW NE NW C.27-5S-21W 75'GL 2180'KB	KEMPER #1 NW SE SE SEC.22-5-21W	KEMPER # 1 SE SE SW SEC.22-5-21W
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS
Anhydrite	1775 +405	+ 409	+409
B-Anhydrite	1805 +375	+ 380	
Topeka Heebner Sh. Toronto	3179 -999 3327-1147 3354-1174	- 998 -1146 -1174	-1159 -1176
LKC	3372-1192	-1191	-1192
BKC	3560-1380	-1377	
Arbuckle	3605-1425	-1422	-1422
RTD	3609-1429	-1424	-1429

CHRONOLOGY OF DAILY ACTIVITY

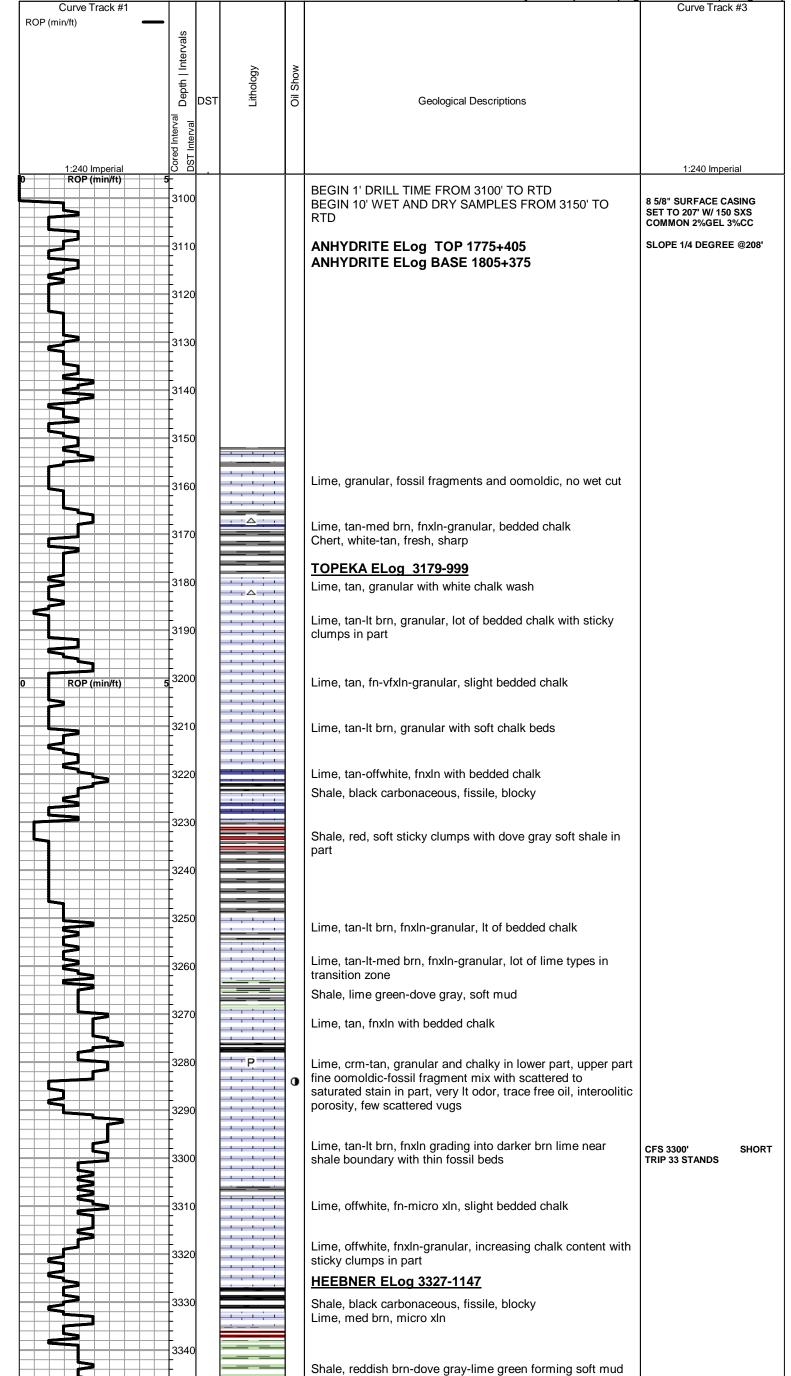
- 3-06-14 RU, Spud 1:30 PM, set 8 5/8" surface casing to 207' w/150 sxs Common 2%gel 3%CC, plug down 5:00PM, slope 1/4 degree
- 3-07-14 1020', drill plug at 1:00 AM
- 3-08-14 2357', drilling, displacement complete at 2972'
- 3-09-14 3300', drilling, CFS 3300', short trip-pulled 33 stands, CFS 3609', RTD 3609' @10:02 PM, mini trip 20 stands, CCH, TOWB, slope ¾ degree, strap 3610.65 board 3611.63
- 3-10-14 3609', DST # 1 3561' to 3609' Arbuckle, log behind DST # 1, TIWB, CCH, LDDP, run and cement production casing
- 3-11-14 3609', cementing-plug down 1:30AM, RD, rig released 3:45 AM

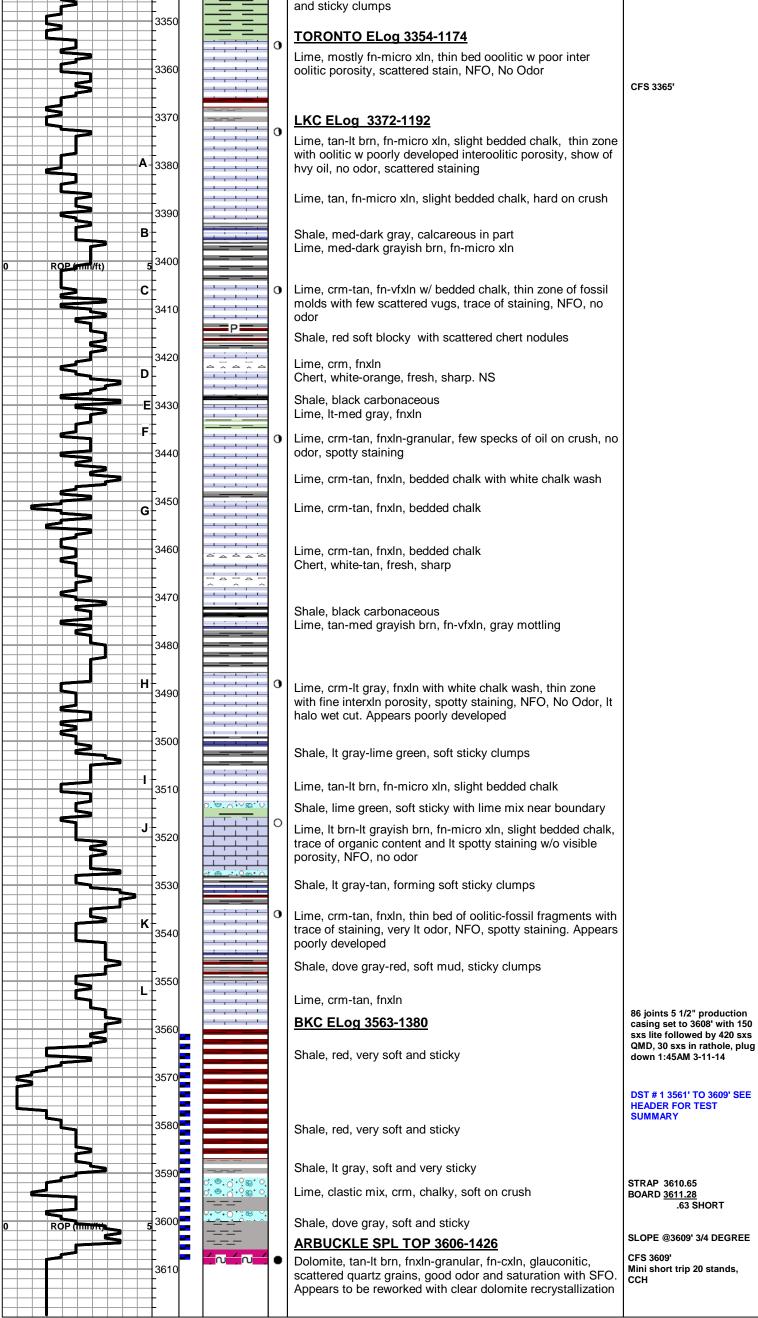
		DRILL STEM TEST REPORT					
TESTING , INC		Black Diamond Oil		27-58-21	27-5S-21W Norton, KS		
		PO Box 641 Hays, KS 67601		Kemper #2			
				Job Ticket: 56955 DST#:1			
NOV .	A	TTN: Herb Deines		Test Start:	2014.03.10 @	03:24:00	
GENERAL INFORMATIO	DN:						
Formation: Arbuckle Deviated: No W Time Tool Opened: 05:39:30 Time Test Ended: 09:56:00	e Vhipstock:	ft (KB)		Test Type Tester: Unit No:	Con∨entiona Kevin Mack 66	al Bottom Hole (Initial)	
Interval: 3561.00 ft (H	KB) To 3609.0	00 ft (KB) (TVD)		Reference	Bevations:	2172.00 ft (KB)	
Total Depth: 3609.00	ft (KB) (TVD)					2167.00 ft (CF)	
Hole Diameter: 7.88	inchesHole Cor	ndition: Good		H	(B to GR/CF:	5.00 ft	
	utside						
	02.68 psig @	3562.00 ft (KB)		Capacity:		8000.00 psig	
Start Date: 2 Start Time:	2014.03.10	End Date: End Time:	2014.03.10	Last Calib.:	2014 02 10	2014.03.10	
Start lime:	03:25:00	Ena líme:	09:56:00	Time On Btm: Time Off Btm:	2014.03.10 2014.03.10		
30 - 30 -	IF- BoB in 12 min IS⊦ No Return FF- BoB in 15 mi FS⊦ No Return						
30 - 30 - 30 -	IS⊦ No Return FF- BoB in 15 mi	n.			URE SUMM		
30 - 30 - 30 - 30 -	ISI- No Return FF- BoB in 15 mi FSI- No Return		Time	Pressure Tem	p Annotati		
30 - 30 - 30 -	ISI- No Return FF- BoB in 15 mi FSI- No Return	n.	- 110 (Min.)	Pressure Tem (psig) (deg	p Annotatio F)	on	
30 - 30 - 30 - 30 -	ISI- No Return FF- BoB in 15 mi FSI- No Return	n.	- 119 (Min.)	Pressure Tem (psig) (deg 1743.05 101	p Annotatio F) 70 Initial Hydr	on o-static	
30 - 30 - 803 Pressure 1799	ISI- No Return FF- BoB in 15 mi FSI- No Return	n.	- 110 (Min.) - 105 0	Pressure Tem (psig) (deg 1743.05 101 46.75 101	p Annotatio F)	on o-static Row (1)	
30 - 30 - 30 - 30 -	ISI- No Return FF- BoB in 15 mi FSI- No Return	n.	(Min.) •••• 0 •••• 3	Pressure Tem (psig) (deg 1743.05 101 46.75 101 189.66 106	p Annotatio F) 70 Initial Hydr 98 Open To F	on o-static Tow (1)	





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	.63 SHORT
, soft and sticky	
PL TOP 3606-1426	SLOPE @3609' 3/4 DEGREE
rn, fnxln-granular, fn-cxln, glauconitic, grains, good odor and saturation with SFO. worked with clear dolomite recrystallization	CFS 3609' Mini short trip 20 stands, CCH