

Kansas Corporation Commission Oil & Gas Conservation Division

120220

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
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: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	

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 Approved by: Date:					

Side Two



Operator Name:				Lease l	Name: _			_ Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: She time tool open and clo recovery, and flow rate line Logs surveyed. A	sed, flowing and shues if gas to surface te	t-in pressures st, along with	s, whether s final chart(s	hut-in press	sure read	ched static level,	hydrostatic press	sures, bottom h	nole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		Yes	☐ No			og Formatio	n (Top), Depth ar	nd Datum	;	Sample
Samples Sent to Geol	ogical Survey	Yes	No		Nam	е		Тор	[Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy		Yes Yes Yes	No No No							
List All E. Logs Run:										
		Report a		RECORD	Ne	w Used	on, etc.			
Purpose of String	Size Hole Drilled	Size C Set (In		Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
		Δ	ADDITIONAL	CEMENTIN	NG / SQL	 EEZE RECORD				
Purpose:	Depth	Type of (# Sacks			Type and F	Percent Additives		
Perforate Protect Casing	Top Bottom									
Plug Back TD Plug Off Zone										
1 ldg 011 20110										
Shota Par Foot	PERFORATI	ON RECORD -	- Bridge Plug	s Set/Type		Acid, Fra	cture, Shot, Cemen	t Squeeze Recor	d	
Shots Per Foot	Specify	Footage of Each	h Interval Perf	orated		(Ai	mount and Kind of Ma	aterial Used)		Depth
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN	_	roducing Meth	nod:	g 🗌	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:	'	ħ.	METHOD OF	COMPLE	TION:		PRODUCTION	ON INTER	VAI ·
Vented Sold		Oper	n Hole	Perf.	Dually	Comp. Cor	nmingled			
(If vented, Sub		O+b-	or (Specify)		(Submit)	ACO-5) (Sub	mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Black Diamond Oil, Inc.
Well Name	Veh 1
Doc ID	1120220

All Electric Logs Run

DUAL INDUCTION LOG
MICRO LOG
NEUTRON / DENSITY LOG
GAMMA RAY

QUALITY DILWELL CEMENTING, INC.

Phone 785-483-2028 Cell 785-324-1041	5 . , elektr	ti H	ome Office	P.O. B	ox 32 Ru	ssell, KS 67665	retem ent of meter.	b. 6160	
articumes "YTLIAUD" of	Sec.	Twp.	Range	*Bano	County	State	On Location	Finish	
Date 10 - 30-12	23	4	21	No	PRTON	KANSAS	ab al esperantement a	9:45 Dm	
colors while point. Notwille-	ur tekni int	echaq 81	d at a rate of	Locati	ion Lagan	WTOEIZEN	-245-E1	TNTO	
Lease VEH	da willi ti Naminch	o ener vill	Vell No. #1	ibeache		LACK STAM		az elik; the forego	
Contractor W.W.#	6	est lacti	non legal con	thearn ac	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish				
Type Job Peop. STEI	por	rice Herto	upi ZeOlek H	LONG CONT			wner or contractor to	do work as listed.	
Hole Size 778		T.D. 3	,635		Charge BLACK DIAMOND				
Csg. 46-11.6 -1	NEW	Depth?	3,600			Box 641		PRODUCTION OF A STATE	
Tbg. Size		Depth			City Hay	ี 5	State KS, Li	7601	
Tool Poer Course	LIMAD &	Depth	1,738'	cohe the	The above wa	as done to satisfaction	and supervision of own	er agent or contractor	
Cement Left in Csg.	ces char	Shoe Jo	oint 44.30	arest to C	Cement Am	ount Ordered 200	COM-10SALT	5 GILSONTE	
Meas Line	a gnisti i	Displace	553bL	of tee of 3	Immetin stris	oneget a examilie	ANGES QUALITY	- TOWING O	
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	r NIC	K	An agent		Poz. Mix	Hawoté	tio and paid by CUI	enanto editiwi y fi	
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Mouse Hole					Kol-Seal	000#		is bloom four-series 'A obt	
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DAV-or Port Collar @1		iga ni aeli minaa ot	Priedolera io p		Sand	PS performance of	DAUG friw nelthers	ing out of or in do	
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PLUG LANDED@55 BOLS 1,300 LBS.				100 YOLD - 41/2 RUBBERD DIVING TO IN MEDION INCOME					
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ignature DU				on neighoc	128 IBW YTLIAUD bri	Total Charge	BUILD BIS ID IUS		

ALLIED CEMENTING CO., LLC. 034669 Federal Tax I.D.# 20-5975804

REN	OJ TI	P.O. BOX 31 RUSSELL, KANSAS 67665
- (1)	RUSSELL, KANSAS 6700.

RENIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT: Russell
DATE 10-25 SEC. TWP. RANGE CA	LED OUT ON LOCATION JOB START. JOB FINISH
	5 - 2/4 - EINTO COUNTY STATE
OLD OR NEW Circle one)	OWNER 1,0°
CONTRACTOR WH#6	OWNER
TYPE OF JOB SURFACE	X
HOLE SIZE 12/4 T.D. 2/8	CEMENT
CASING SIZE 8 18 DEPTH 222.59	AMOUNT ORDERED
TUBING SIZE DEPTH DRILL PIPE DEPTH	
ORILL PIPE DEPTH TOOL DEPTH	1
PRES. MAX MINIMUM	COMMON
MEAS, LINE SHOE JOINT	POZMIX @ 23,40 70,20
CEMENT LEFT IN CSG. 15 FT	GEL 3 @ 25,40 10,20
PERFS.	CHLORIDE 5 @ 6400 32000 /
DISPLACEMENT 13.22 661	ASC@
EQUIPMENT	@
2,61	
PUMPTRUCK CEMENTER Bob S. 1	@
# 409 HELPER Kevin 3	@
BULKTRUCK # 481 DRIVER TONY	
BULK TRUCK	
# DRIVER	HANDLING 162.09 Ft3 @ 2.48 401.99
	MILEAGE 77= 569.87/ x2.6 1481.48
REMARKS:	TOTAL 4958:6;
rement CIRCULATED TO SURFACE	
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	PUMPTRUCK CHARGE /5/2.25
	EXTRA FOOTAGE @
	MILEAGE HEAVY 770 7.7 592.9
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,	@
CHARGE TO: BIACK diamond	*
CONTRACTOR OF THE WORLD CONTRACTOR OF THE STATE OF THE ST	TOTAL 2443.95
STREET	A Committee of the Comm
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	@
*	<u> </u>
W. Allied Computing Co. LLC	
To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment	
and furnish cementer and helper(s) to assist owner or	@
contractor to do work as is listed. The above work was	
done to satisfaction and supervision of owner agent or	TOTAL _O
contractor. I have read and understand the "GENERAL	SALES TAX (If Any) 216,80
TERMS AND CONDITIONS" listed on the reverse side.	7/102 (2
	TOTAL CHARGES 7402.62
PRINTED NAME TOSON PORTER	DISCOUNT 1987.60 IF PAID IN 30 DAYS
A .	net 541502 BS 10-25
SIGNATURE A PAR	DISCOUNT 1987.60 IF PAID IN 30 DAYS net 5415.02 BS 10-25 before tax
n .	



Black Diamond Oil Inc

23/4s/21w Norton KS

James Winder

57

DST#: 1

2112.00 ft (CF)

Veh #1

Tester:

Unit No:

PO Box 641

Hays, KS 67601-0641 Job Ticket: 48152

ATTN: Richard Bell Test Start: 2012.10.28 @ 09:00:00

GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 10:32:30
Time Test Ended: 14:51:30

Interval: 3367.00 ft (KB) To 3390.00 ft (KB) (TVD) Reference Elevations: 2117.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 53.09 psig @ 3368.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2012.10.28
 End Date:
 2012.10.28
 Last Calib.:
 2012.10.28
 2012.10.28

 Start Time:
 09:00:05
 End Time:
 14:51:29
 Time On Btm:
 2012.10.28 @ 10:32:00

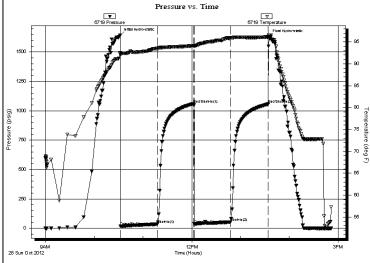
 Time Off Btm:
 2012.10.28 @ 13:35:00

TEST COMMENT: 45 - IF: Blow built to 2 1/4"

45 - ISI: Bled off. No blow back

45 - FF: Blow started at 10 min., built to 1 1/4"

45 - FSI: Bled off. No blow back



	PRESSURE SUMMARY							
	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1643.05	92.46	Initial Hydro-static				
	1	18.68	92.11	Open To Flow (1)				
	46	34.92	93.50	Shut-In(1)				
7	90	1059.45	94.09	End Shut-In(1)				
empe	91	37.57	93.97	Open To Flow (2)				
rature	136	53.09	95.89	Shut-In(2)				
Temperature (deg F;	182	1057.27	96.12	End Shut-In(2)				
F)	183	1629.80	96.53	Final Hydro-static				

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM w /oil spots 73%m, 23%w, 3%g, 1	90.30
10.00	Mud w/oil spots 96%m, 2%o, 2%g	0.05
-	-	· · · · · · · · · · · · · · · · · · ·

Gas Rates						
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)				

Trilobite Testing, Inc Ref. No: 48152 Printed: 2012.10.28 @ 17:48:41



Black Diamond Oil Inc

23/4s/21w Norton KS

PO Box 641

Hays, KS 67601-0641

Veh #1

Unit No:

Job Ticket: 48152

57

Test Start: 2012.10.28 @ 09:00:00

DST#: 1

ATTN: Richard Bell

GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB)

Tester:

Time Tool Opened: 10:32:30 Time Test Ended: 14:51:30

Interval: 3367.00 ft (KB) To 3390.00 ft (KB) (TVD)

Total Depth: 3390.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) James Winder

2117.00 ft (KB)

Reference Elevations: 2112.00 ft (CF)

> KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press@RunDepth: 3368.00 ft (KB) psig @ Capacity: 8000.00 psig

Start Date: 2012.10.28 End Date: 2012.10.28 Last Calib.: 2012.10.28

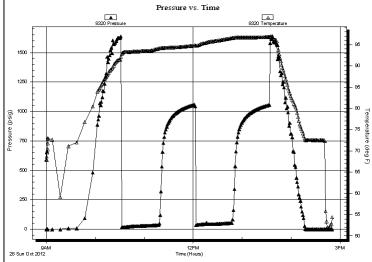
Start Time: 09:00:05 End Time: Time On Btm: 14:50:59 Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to 2 1/4"

45 - ISI: Bled off. No blow back

45 - FF: Blow started at 10 min., built to 1 1/4"

45 - FSI: Bled off. No blow back



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
. ₌				
mpe				
Temperature (deg F)				
(de				
J				

Recovery

Description	Volume (bbl)
WCM w /oil spots 73%m, 23%w , 3%g, $^{\prime}$	90.30
10.00 Mud w/oil spots 96%m, 2%o, 2%g	
	WCM w /oil spots 73%m, 23%w , 3%g, 1

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 48152 Printed: 2012.10.28 @ 17:48:41



FLUID SUMMARY

Black Diamond Oil Inc

23/4s/21w Norton KS

PO Box 641

Veh #1

Hays, KS 67601-0641

ATTN: Richard Bell

Job Ticket: 48152 **DST#:1**

Test Start: 2012.10.28 @ 09:00:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 22000 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 7.98 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

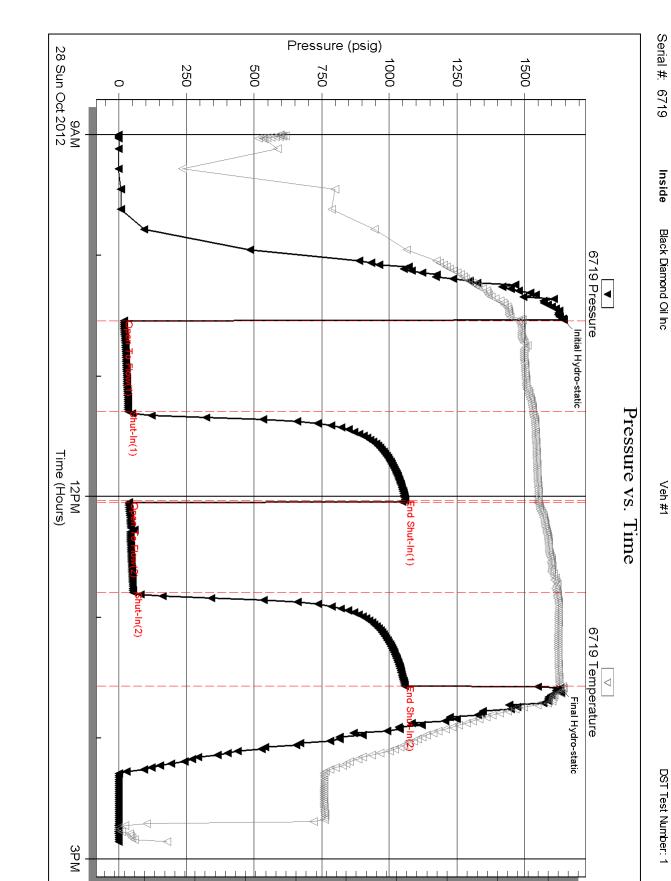
Length ft	Description	Volume bbl
60.00	WCM w /oil spots 73%m, 23%w, 3%g, 1%o	0.295
10.00	Mud w /oil spots 96%m, 2%o, 2%g	0.049

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

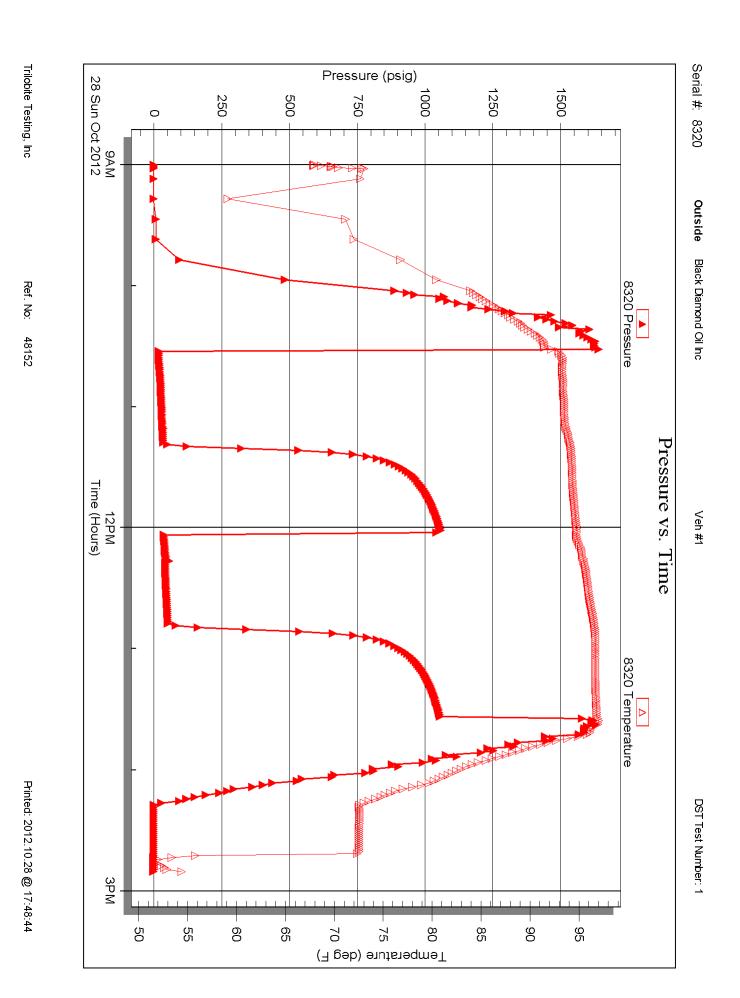
Laboratory Name: Laboratory Location: Recovery Comments: RW = .390 ohms @ $58.8 \deg F$ Chlorideds = 22,000 ppm

Trilobite Testing, Inc Ref. No: 48152 Printed: 2012.10.28 @ 17:48:43



Temperature (deg F)

Trilobite Testing, Inc





Black Diamond Oil Inc

ATTN: Richard Bell

23/4s/21w Norton KS

PO Box 641

Hays, KS 67601-0641

Job Ticket: 48153

Veh #1

DST#: 2

Test Start: 2012.10.29 @ 03:35:00

GENERAL INFORMATION:

Formation: LKC "J"

Time Tool Opened: 05:01:00

Time Test Ended: 09:38:30

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset) Tester: James Winder

Unit No:

57

2117.00 ft (KB)

3493.00 ft (KB) To 3506.00 ft (KB) (TVD)

Reference Elevations:

2112.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter:

3506.00 ft (KB) (TVD)

KB to GR/CF: 5.00 ft

Serial #: 6719 Press@RunDepth: Inside

103.21 psig @

3494.00 ft (KB)

2012.10.29

8000.00 psig

Start Date: Start Time:

Interval: Total Depth:

> 2012.10.29 03:35:05

End Date: End Time:

09:38:29

Last Calib.: Time On Btm:

Capacity:

2012.10.29 2012.10.29 @ 05:00:30

Time Off Btm:

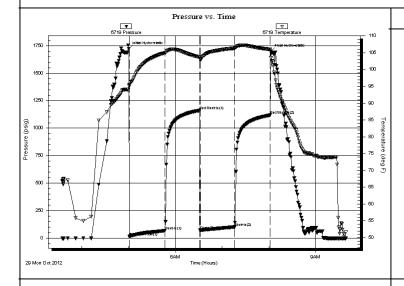
2012.10.29 @ 08:02:30

TEST COMMENT: 45 - IF: Blow built to BOB (11") in 26 min.

45 - ISI: Bled off. No blow back

45 - FF: Blow built to BOB in 38 1/2 min.

45 - FSI: Bled off. No blow back



PRESSURE SUMMARY Pressure Temp Annotation

rime	Pressure	remp	Annotation
(Min.)	(psig)	(deg F)	
0	1721.52	95.27	Initial Hydro-static
1	15.17	94.95	Open To Flow (1)
46	69.11	104.92	Shut-In(1)
91	1160.51	103.68	End Shut-In(1)
92	73.03	102.89	Open To Flow (2)
136	103.21	106.35	Shut-In(2)
181	1118.25	105.93	End Shut-In(2)
182	1699.18	103.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)	
40.00	GOCM 65%m, 26%o, 9%g	0.20	
270.00	CGO 70%o, 26%g, 4%m	3.06	
0.00	GIP = 60'	0.00	
* Recovery from multiple tests			

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 48153 Printed: 2012.10.29 @ 11:25:36



FLUID SUMMARY

ppm

Black Diamond Oil Inc

23/4s/21w Norton KS

PO Box 641

Veh #1

Hays, KS 67601-0641

Job Ticket: 48153 **DST#: 2**

ATTN: Richard Bell

Test Start: 2012.10.29 @ 03:35:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 24.4 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity:

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 7.95 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GOCM 65%m, 26%o, 9%g	0.197
270.00	CGO 70%o, 26%g, 4%m	3.059
0.00	GIP = 60'	0.000

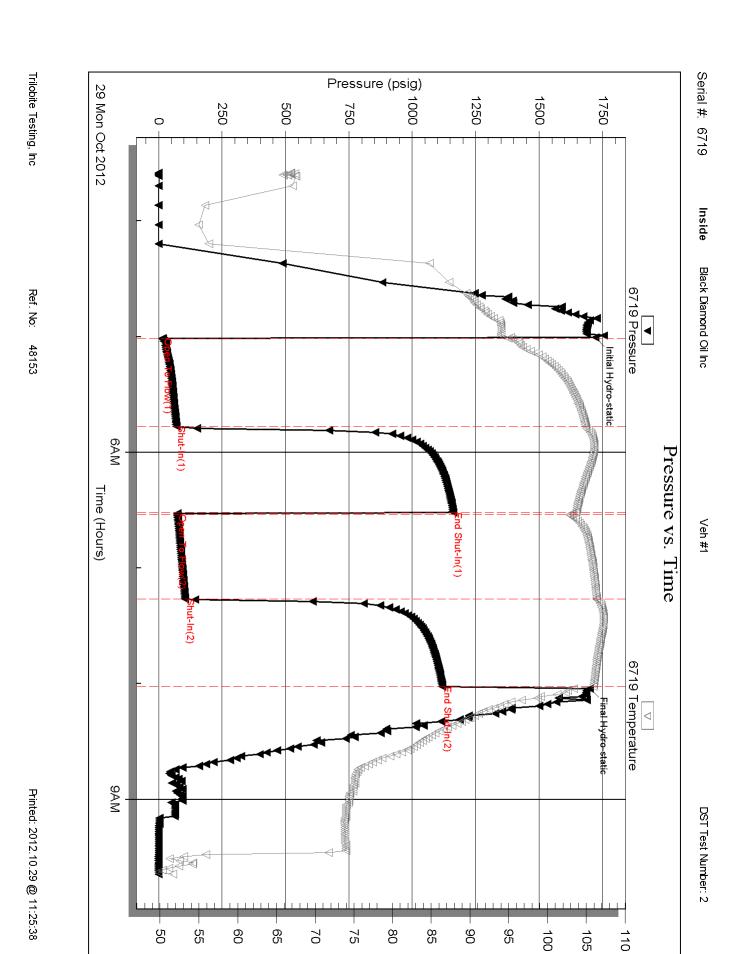
Total Length: 310.00 ft Total Volume: 3.256 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: Gravity = 23 api @ 46 deg F

Corrected Gravity = 24.4 api

Trilobite Testing, Inc Ref. No: 48153 Printed: 2012.10.29 @ 11:25:37



Temperature (deg F)



Black Diamond Oil Inc

ATTN: Richard Bell

23/4s/21w Norton KS

PO Box 641

Hays, KS 67601-0641

Veh #1

Job Ticket: 48154 DST#: 3

Test Start: 2012.10.29 @ 16:53:00

GENERAL INFORMATION:

LKC "K - L" Formation:

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: ft (KB)

Time Tool Opened: 18:41:00 Tester: James Winder

Time Test Ended: 23:07:00 Unit No: 57

3505.00 ft (KB) To 3540.00 ft (KB) (TVD) Reference Elevations: 2117.00 ft (KB) Interval:

Total Depth: 3540.00 ft (KB) (TVD) 2112.00 ft (CF)

Time

187

7.88 inches Hole Condition: Fair KB to GR/CF: Hole Diameter: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 3506.00 ft (KB) 30.24 psig @ Capacity: 8000.00 psig

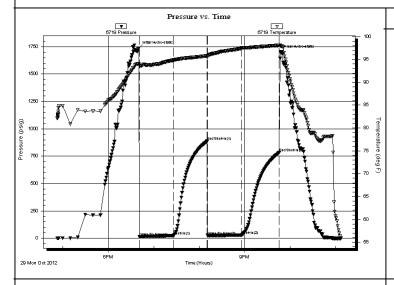
Start Date: 2012.10.29 End Date: Last Calib.: 2012.10.29 2012.10.29 Start Time: 16:53:05 End Time: 23:06:59 Time On Btm: 2012.10.29 @ 18:40:30

Time Off Btm: 2012.10.29 @ 21:47:00

TEST COMMENT: 45 - IF: Blow built to 3/4", dieing back at 24 min., 1/4" blow at close

45 - ISI: Bled off, No blow back

45 - FF: No blow 45 - FSI: No blow back



(Min.)	(psig)	(deg F)	
0	1735.98	94.00	Initial Hydro-static
1	14.00	93.68	Open To Flow (1)
46	23.67	94.84	Shut-In(1)
90	887.38	95.75	End Shut-In(1)
91	25.96	95.47	Open To Flow (2)
136	30.24	97.47	Shut-In(2)
185	783.61	98.06	End Shut-In(2)

1698.69

Pressure Temp Annotation

PRESSURE SUMMARY

Recovery

Length (ft)	gth (ft) Description		
45.00	Mud w/trace oil 100%m	0.22	
* Recovery from multiple tests			

Gas Rates

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

97.91 Final Hydro-static

Trilobite Testing, Inc. Ref. No: 48154 Printed: 2012.10.30 @ 02:16:08



FLUID SUMMARY

Black Diamond Oil Inc

23/4s/21w Norton KS

PO Box 641

Veh #1

Hays, KS 67601-0641

Job Ticket: 48154

Serial #:

DST#: 3

ATTN: Richard Bell

Test Start: 2012.10.29 @ 16:53:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API ppm

Mud Weight: Cushion Length: 9.00 lb/gal ft Water Salinity: bbl

Viscosity: 47.00 sec/qt Cushion Volume: Water Loss: 7.59 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud w /trace oil 100%m	0.221

Total Length: Total Volume: 45.00 ft 0.221 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

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