

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

31 7S 20W Rooks KS

Teresa #1

Start Date: 2006.12.18 @ 11:56:34

End Date: 2006.12.18 @ 18:57:24

Job Ticket #: 26069 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil Inc

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

Teresa #1

31 7S 20W Rocks KS

Job Ticket: 26069

DST#: 1

Test Start: 2006.12.18 @ 11:56:34

GENERAL INFORMATION:

Formation: **Toronto/L-KC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:23:04

Time Test Ended: 18:57:24

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3226.00 ft (KB) To 3318.00 ft (KB) (TVD)**

Total Depth: 3318.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2045.00 ft (KB)

2040.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 51.39 psig @ 3227.00 ft (KB)

Start Date: 2006.12.18

End Date:

2006.12.18

Start Time: 11:56:36

End Time:

18:57:23

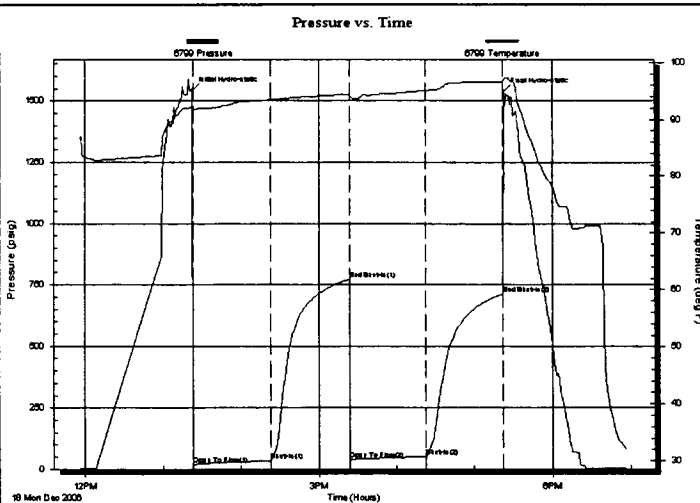
Capacity: 7000.00 psig

Last Calib.: 2006.12.18

Time On Btm: 2006.12.18 @ 13:22:44

Time Off Btm: 2006.12.18 @ 17:23:14

TEST COMMENT: IF Weak blow building to 2.5 " in bucket
ISI Bled off no blow back
FF Weak surface blow increasing to .25 " in bucket
FSI Bled off no blow back



PRESSURE SUMMARY

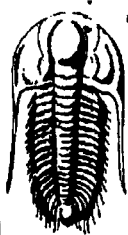
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.58	92.23	Initial Hydro-static
1	18.83	91.88	Open To Flow (1)
60	35.62	93.46	Shut-In(1)
121	771.47	94.42	End Shut-In(1)
121	38.88	94.17	Open To Flow (2)
181	51.39	95.04	Shut-In(2)
240	712.55	96.58	End Shut-In(2)
241	1537.81	96.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OSM 3% O 97% M	0.37
0.00	No GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

Teresa #1

PO Box 641
Hays KS 67601

31 7S 20W Rooks KS

Job Ticket: 26069

DST#: 1

ATTN: Tony Richardson

Test Start: 2006.12.18 @ 11:56:34

Tool Information

Drill Pipe:	Length: 3093.00 ft	Diameter: 3.80 inches	Volume: 43.39 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 43.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3226.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	112.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3211.00		
Hydraulic tool	5.00			3216.00		
Packer	5.00			3221.00	20.00	Bottom Of Top Packer
Packer	5.00			3226.00		
Stubb	1.00			3227.00		
Recorder	0.00	6799	Inside	3227.00		
Perforations	26.00			3253.00		
Blank Spacing	62.00			3315.00		
Recorder	0.00	10270	Outside	3315.00		
Bullnose	3.00			3318.00	92.00	Bottom Packers & Anchor
Total Tool Length:	112.00					



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Teresa #1

PO Box 641
Hays KS 67601

31 7S 20W Rooks KS

Job Ticket: 26069

DST#: 1

ATTN: Tony Richardson

Test Start: 2006.12.18 @ 11:56:34

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:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OSM 3%O 97%M	0.369
0.00	No GIP	0.000

Total Length: 75.00 ft

Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

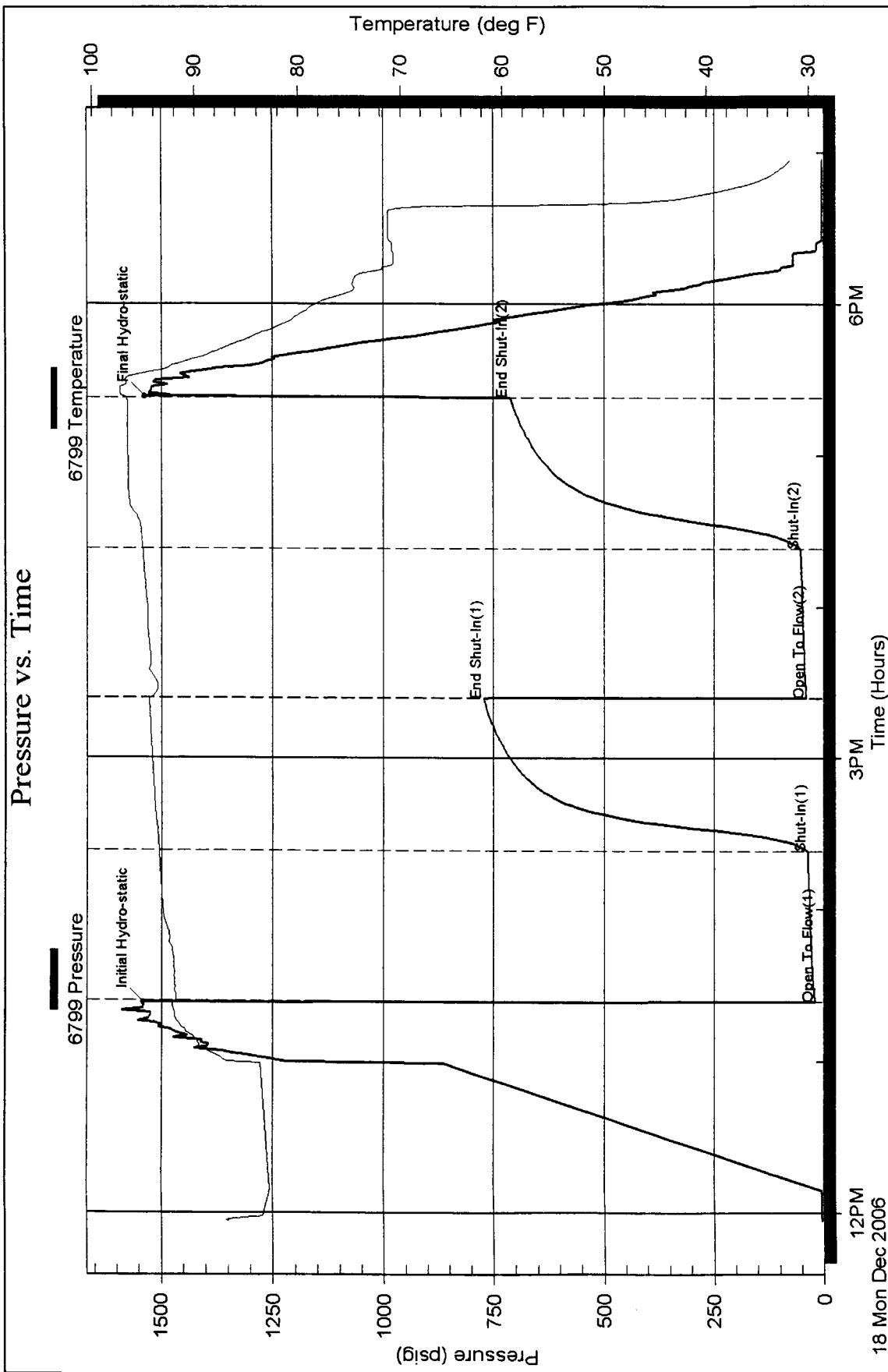
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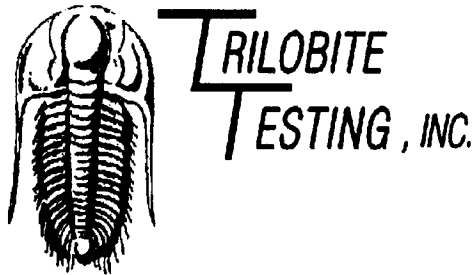
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641
Hays KS 67601

ATTN: Ken Vehige

31 7S 20W Rooks KS

Teresa #1

Start Date: 2006.12.19 @ 01:47:52

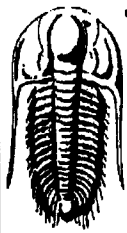
End Date: 2006.12.19 @ 08:12:46

Job Ticket #: 25260 DST #: 2

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DRILL STEM TEST REPORT

Black Diamond Oil Inc

PO Box 641
Hays KS 67601

ATTN: Ken Vehige

Teresa #1

31 7S 20W Rooks KS

Job Ticket: 25260

DST#: 2

Test Start: 2006.12.19 @ 01:47:52

GENERAL INFORMATION:

Formation: **LKC D-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:17

Time Test Ended: 08:12:46

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3290.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Total Depth: 3380.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2045.00 ft (KB)

2040.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6753 Inside

Press@RunDepth: 544.94 psig @ 3295.01 ft (KB)

Start Date: 2006.12.19

End Date:

2006.12.19

Start Time: 01:47:52

End Time:

08:12:46

Capacity: 7000.00 psig

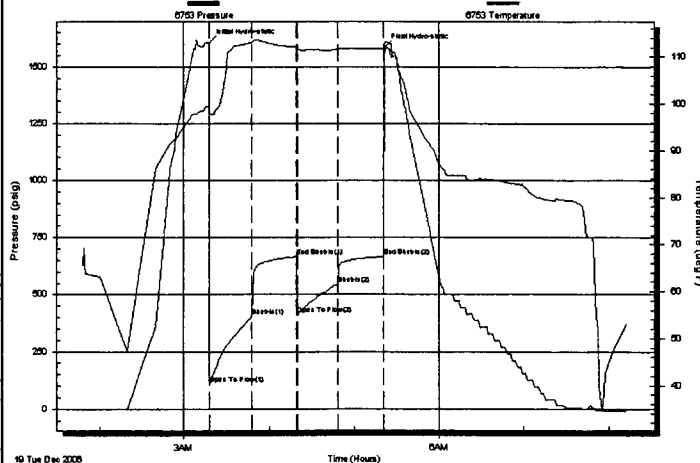
Last Calib.: 2006.12.19

Time On Btm: 2006.12.19 @ 03:17:47

Time Off Btm: 2006.12.19 @ 05:21:47

TEST COMMENT: IFP Strg bl in 3 min
FFP Strg bl in 5 min
Times 30 30 30 30
ISIP Surface bl bk FSIP Surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

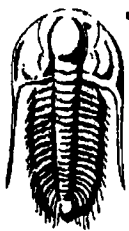
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.44	99.55	Initial Hydro-static
1	109.23	97.47	Open To Flow (1)
31	404.65	113.00	Shut-In (1)
62	666.40	112.05	End Shut-In (1)
62	413.04	111.52	Open To Flow (2)
91	544.94	111.44	Shut-In (2)
123	666.78	111.66	End Shut-In (2)
124	1582.35	112.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCW 5%O 95%W	0.92
310.00	GCWO 5%G 10%W 85%O	4.35
310.00	MGO 10%G 20%M 70%O	4.35
248.00	MO 49%M 51%O	3.48
150.00	HOOM 30%O 70%M	2.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

Teresa #1

PO Box 641
Hays KS 67601

31 7S 20W Rooks KS

Job Ticket: 25260

DST#: 2

ATTN: Ken Vehige

Test Start: 2006.12.19 @ 01:47:52

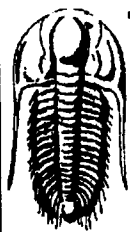
Tool Information

Drill Pipe:	Length: 3196.00 ft	Diameter: 3.80 inches	Volume: 44.83 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	65000.00 lb
			Total Volume: 45.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3290.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.02 ft				
Tool Length:	111.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3270.00	
Shut In Tool	5.00			3275.00	
Hydraulic tool	5.00			3280.00	
Packer	5.00			3285.00	21.00 Bottom Of Top Packer
Packer	5.00			3290.00	
Stubb	1.00			3291.00	
Perforations	4.00			3295.00	
Recorder	0.01	6753	Inside	3295.01	
Blank Spacing	62.00			3357.01	
Recorder	0.01	13534	Outside	3357.02	
Perforations	20.00			3377.02	
Bullnose	3.00			3380.02	90.02 Bottom Packers & Anchor

Total Tool Length: 111.02



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TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Teresa #1

PO Box 641
Hays KS 67601

31 7S 20W Rooks KS

Job Ticket: 25260

DST#: 2

ATTN: Ken Vehige

Test Start: 2006.12.19 @ 01:47:52

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:

80000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	SOCW 5%O 95%W	0.920
310.00	GCWO 5%G 10%W 85%O	4.348
310.00	MGO 10%G 20%M 70%O	4.348
248.00	MO 49%M 51%O	3.479
150.00	HOOM 30%O 70%M	2.104

Total Length: 1142.00 ft

Total Volume:

15.199 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

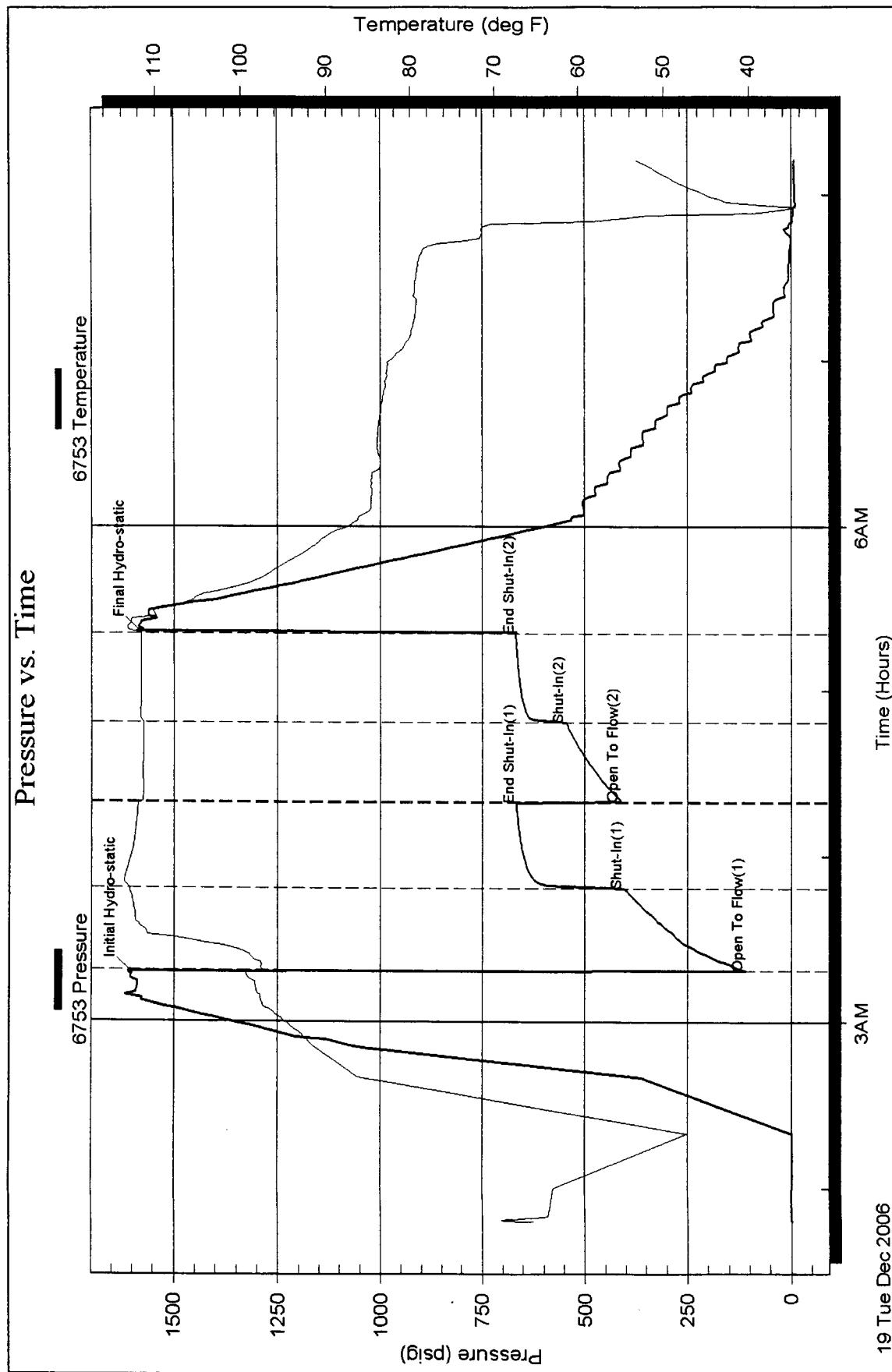
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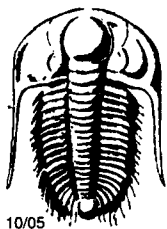
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @ 60F

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26069

9731

Test Ticket

Well Name & No. Teresa #1 Test No. 1 Date 12-19-06
 Company Black Diamond Oil, Inc. Zone Tested Toronto, L-KC "A-C"
 Address P.O. Box 641, Hays, KS 67601 Elevation 2045 KB 2040 GL
 Co. Rep / Geo. Tony Richardson Rig WW Rig #6
 Location: Sec. 31 Twp. 7s Rge. 20W Co. Rooks State Kansas
 Comment: _____ Release date / time: _____

Interval Tested 3226 - 3318 Initial Str Wt./Lbs. 44000 Unseated Str Wt./Lbs. 44000
 Anchor Length 92 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3221 Tool Weight 2500
 Bottom Packer Depth 3226 Hole Size 7 7/8" Yes Rubber Size 6 3/4" Yes
 Total Depth 3318 Wt. Pipe Run None Drill Collar Run 118
 Mud Wt. 9.0 LCMTR Vis. 47 WL 7.4 Drill Pipe Size 4 1/2 FH Ft. Run 3093

Blow Description IF: Weak blow building to 2 1/2" in bucket.

ISI: Bled off, no blowback.

FF: Weak surface blow, increasing to 1/4" in bucket

FSI: Bled off, no blowback.

Recovery - Total Feet 75 GIP 0 Ft. in DC 75 Ft. in DP 0
 Rec. 75 Feet of OSM %gas 3 %oil — %water 97 %mud —
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 97 °F Gravity NA °API D @ _____ °F Corrected Gravity _____ °API
 RW NA @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1500 ppm System

AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1541</u> PSI	Recorder No.	<u>6799</u>	Test <u>8 hour</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>19</u> PSI	(depth)	<u>3227</u>	Jars _____
(C) First Final Flow Pressure	<u>36</u> PSI	Recorder No.	<u>10270</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>771</u> PSI	(depth)	<u>3315</u>	Circ Sub <u>NC</u>
(E) Second Initial Flow Pressure	<u>39</u> PSI	Recorder No.	<u>—</u>	Sampler _____
(F) Second Final Flow Pressure	<u>51</u> PSI	(depth)	<u>—</u>	Straddle _____
(G) Final Shut-In Pressure	<u>713</u> PSI	Initial Opening	<u>60</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1538</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer _____
		Final Flow	<u>60</u>	Ruined Packer _____
		Final Shut-In	<u>60</u>	Mileage <u>104</u> <u>R.T. 130</u>
		T-On Location	<u>11:30</u>	Sub Total: _____
		T-Started	<u>11:56</u> <u>1 hour</u>	Std. By _____
		T-Open	<u>13:23</u>	Acc. Chg: <u>1230</u>
		T-Pulled	<u>17:22</u>	Other: _____
		T-Out	<u>18:45</u>	Total: _____

Approved By _____

Our Representative _____

Thank you

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

Black Diamond

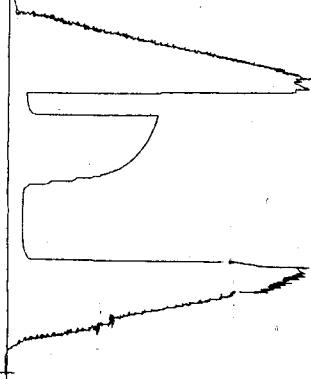
Stress #1

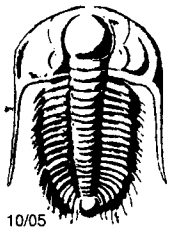
B89 #1 Toronto-L-R 9A-C'

12-18-06

wind # 10270

JF





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25260

Test Ticket

Well Name & No.	TERESA #1		Test No.	2	Date	12-19-06
Company	BLACK DIAMOND OIL INC		Zone Tested	LKC 0-6		
Address	P.O. Box 641 Hays, Ko 67601		Elevation	2045 KB	2040 GL	
Co. Rep / Geo.	Tony Richardson		Rig	WW rig 6		
Location: Sec.	31	Twp.	7 ^s	Rge.	20 ^w	Co. Rooks State Ko
Comment:						Release date / time:

Interval Tested	3290 - 3380		Initial Str Wt./Lbs.	42000	Unseated Str Wt./Lbs.	48000
Anchor Length	90		Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	65000
Top Packer Depth	3285		Tool Weight	2200		
Bottom Packer Depth	3290		Hole Size 7 7/8"	-	Rubber Size 6 3/4"	-
Total Depth	3380		Wt. Pipe Run	-	Drill Collar Run	90
Mud Wt.	9.1	LCM Tr	Vis.	48	WL	7.4
Drill Pipe Size	4 1/2 FH		Ft. Run	3196		
Blow Description	IFFP - STRONG BLOW IN 3 MIN FFP - STRONG BLOW IN 5 MIN ISIP - SURFACE BLOW BACK FSIP - SURFACE BLOW BACK					

Recovery - Total Feet	1142	GIP	150	Ft. in DC	90	Ft. in DP	1052
Rec.	150	Feet of	HOCM	%gas	30	%oil	%water 70 %mud
Rec.	248	Feet of	MO	%gas	51	%oil	%water 49 %mud
Rec.	310	Feet of	MGO	10 %gas	70	%oil	%water 20 %mud
Rec.	310	Feet of	GCWO	5 %gas	85	%oil	10 %water %mud
Rec.	124	Feet of	SOCW	%gas	5	%oil	95 %water %mud
BHT	111	*F Gravity		*API D @		*F Corrected Gravity	*API
RW	.11	@	80	*F Chlorides	80000	ppm Recovery	Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud	1587	PSI	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure	109	PSI	(depth)	3295	Jars		
(C) First Final Flow Pressure	404	PSI	Recorder No.	13534	Safety Jt.		
(D) Initial Shut-In Pressure	666	PSI	(depth)	3357	Circ Sub		
(E) Second Initial Flow Pressure	413	PSI	Recorder No.	-	Sampler		
(F) Second Final Flow Pressure	545	PSI	(depth)	-	Straddle		
(G) Final Shut-In Pressure	667	PSI	Initial Opening	30	Ext. Packer		
(Q) Final Hydrostatic Mud	1578	PSI	Initial Shut-In	30	Shale Packer		
			Final Flow	30	Ruined Packer		
			Final Shut-In	30	Mileage	✓ 104 RT 130	
			T-On Location	0115	Sub Total:		
			T-Started	0147	Std. By		
			T-Open	0315	Acc. Chg:	\$1230	
			T-Pulled	0515	Other:		
			T-Out	0812	Total:		

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Approved By: Tony Richardson

Our Representative: Ray Schwager Thank you

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

13534
OST#2
BLK Diamond

