

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Co.**

Po Box 641
Hays, KS. 67601

ATTN: Kenny Vehige

22-11-19-Ellis

Vine #1

Start Date: 2004.09.07 @ 12:45:13

End Date: 2004.09.07 @ 19:22:13

Job Ticket #: 20349 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Co.

Vine #1

22-11-19-Ellis

DST # 1

Topeka

2004.09.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20349

DST#: 1

ATTN: Kenny Vehige

Test Start: 2004.09.07 @ 12:45:13

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:17:43

Time Test Ended: 19:22:13

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: 2992.00 ft (KB) To 3030.00 ft (KB) (TVD)

Total Depth: 3030.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2026.00 ft (KB)

2018.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6753

Inside

Press@RunDepth: 40.74 psig @ 2996.00 ft (KB)

Start Date: 2004.09.07

End Date:

2004.09.07

Start Time: 12:45:23

End Time:

19:22:13

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btrm: 2004.09.07 @ 14:17:13

Time Off Btrm: 2004.09.07 @ 17:18:13

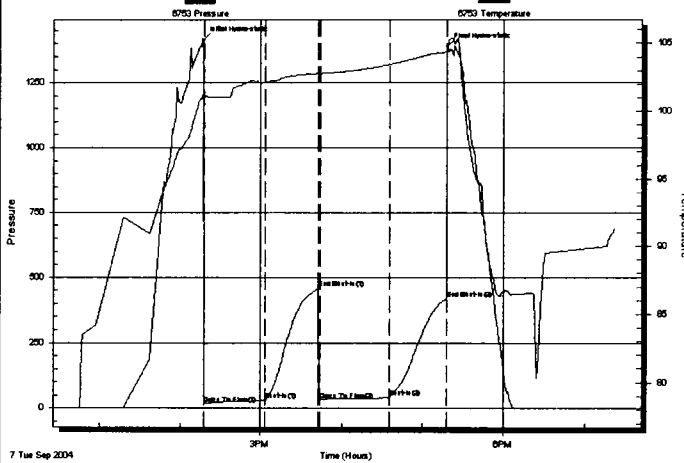
TEST COMMENT: IFP_Weak Blow , Built to 1-3/4"

ISI-Dead

FFP-Weak Blow , 1/4"

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

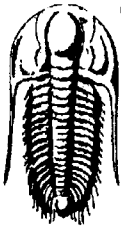
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1412.48	101.36	Initial Hydro-static
1	17.02	101.03	Open To Flow (1)
46	29.09	102.15	Shut-In(1)
86	457.04	102.81	End Shut-In(1)
87	32.33	102.69	Open To Flow (2)
138	40.74	103.46	Shut-In(2)
181	419.39	104.39	End Shut-In(2)
181	1388.92	104.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM-10%Oil-90%Mud	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Elis

Job Ticket: 20349

DST#: 1

ATTN: Kenny Vehige

Test Start: 2004.09.07 @ 12:45:13

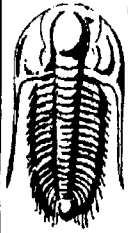
Tool Information

Drill Pipe:	Length: 2952.00 ft	Diameter: 3.80 inches	Volume: 41.41 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 41.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	2992.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	59.00 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			2972.00	
Shut In Tool	5.00			2977.00	
Hydraulic tool	5.00			2982.00	
Packer	5.00			2987.00	21.00 Bottom Of Top Packer
Packer	5.00			2992.00	
Stubb	1.00			2993.00	
Perforations	3.00			2996.00	
Recorder	0.00	6753	Inside	2996.00	
Perforations	31.00			3027.00	
Recorder	0.00	13252	Outside	3027.00	
Bullnose	3.00			3030.00	38.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20349

DST#: 1

ATTN: Kenny Vehige

Test Start: 2004.09.07 @ 12:45:13

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: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCM-10%Oil-90%Mud	0.419

Total Length: 50.00 ft

Total Volume: 0.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

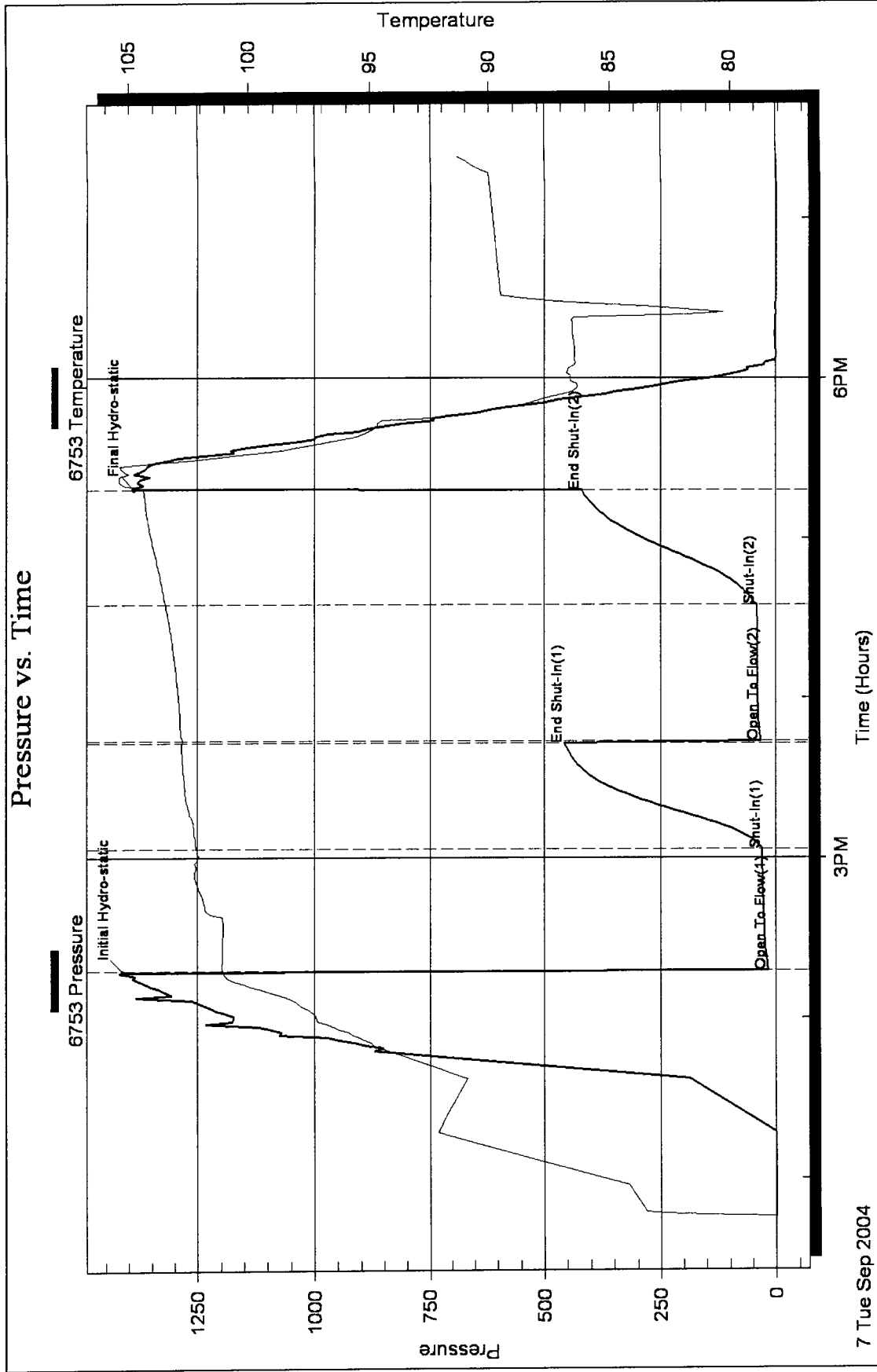
Inside

Black Diamond Oil Co.

22-11-19-Ellis

DST Test Number: 1

Pressure vs. Time

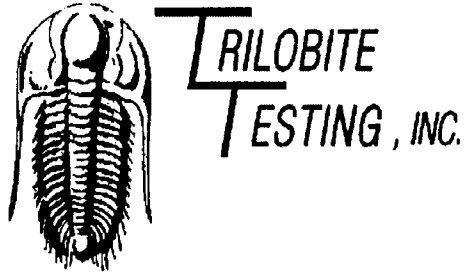


7 Tue Sep 2004

6PM

3PM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Co.**

Po Box 641
Hays, KS. 67601

ATTN: Kenny Vehige

22-11-19-Ellis

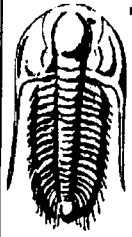
Vine #1

Start Date: 2004.09.08 @ 07:48:49

End Date: 2004.09.08 @ 13:54:19

Job Ticket #: 20350 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20350

DST#: 2

ATTN: Kenny Vehige

Test Start: 2004.09.08 @ 07:48:49

GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 09:14:49

Time Test Ended: 13:54:19

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **24**

Interval: **3148.00 ft (KB) To 3225.00 ft (KB) (TVD)**

Total Depth: **3225.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2026.00 ft (KB)**

2018.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **6753**

Inside

Press@RunDepth: **105.00 psig @ 3153.00 ft (KB)**

Start Date: **2004.09.08**

End Date:

2004.09.08

Start Time: **07:48:59**

End Time:

13:54:19

Capacity: **7000.00 psig**

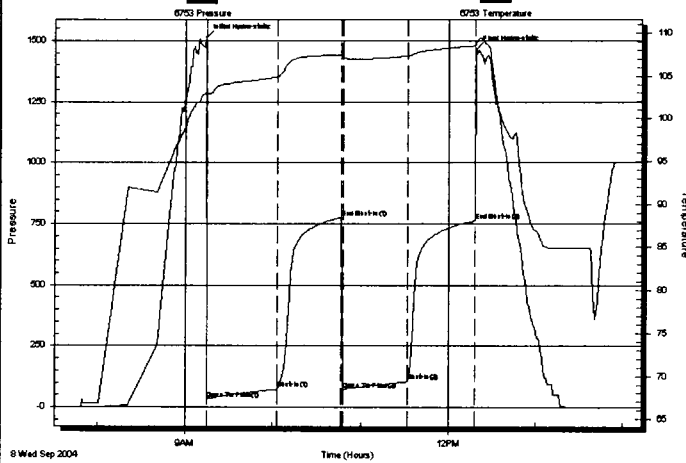
Last Calib.: **1899.12.30**

Time On Btm: **2004.09.08 @ 09:14:19**

Time Off Btm: **2004.09.08 @ 12:18:49**

TEST COMMENT: **IFP-Fair Blow , BOB in 31 Min.
ISI-Surface Blow back For 10 Min.
FFP-Good Blow , BOB in 10 Min.
FSI-Surface Blow back for 12 Min.**

Pressure vs. Time



PRESSURE SUMMARY

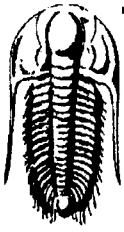
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.28	103.05	Initial Hydro-static
1	32.90	102.93	Open To Flow (1)
49	73.93	104.90	Shut-In(1)
92	775.52	107.42	End Shut-In(1)
93	71.11	107.17	Open To Flow (2)
137	105.00	107.30	Shut-In(2)
184	762.45	108.50	End Shut-In(2)
185	1462.87	108.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM	0.15
180.00	MCO-20%G-60%O-20%M	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-ELLIS

Job Ticket: 20350

DST#: 2

ATTN: Kenny Vehige

Test Start: 2004.09.08 @ 07:48:49

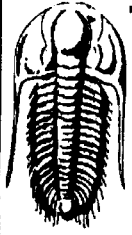
Tool Information

Drill Pipe:	Length: 3106.00 ft	Diameter: 3.80 inches	Volume: 43.57 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.72 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3148.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	98.00 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			3128.00	
Shut In Tool	5.00			3133.00	
Hydraulic tool	5.00			3138.00	
Packer	5.00			3143.00	21.00 Bottom Of Top Packer
Packer	5.00			3148.00	
Stubb	1.00			3149.00	
Perforations	3.00			3152.00	
Change Over Sub	1.00			3153.00	
Recorder	0.00	6753	Inside	3153.00	
Blank Spacing	63.00			3216.00	
Change Over Sub	1.00			3217.00	
Perforations	5.00			3222.00	
Recorder	0.00	13252	Outside	3222.00	
Bullnose	3.00			3225.00	77.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20350

DST#: 2

ATTN: Kenny Vehige

Test Start: 2004.09.08 @ 07:48:49

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	HOCM	0.148
180.00	MCO-20%G-60%O-20%M	2.516

Total Length: 210.00 ft Total Volume: 2.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

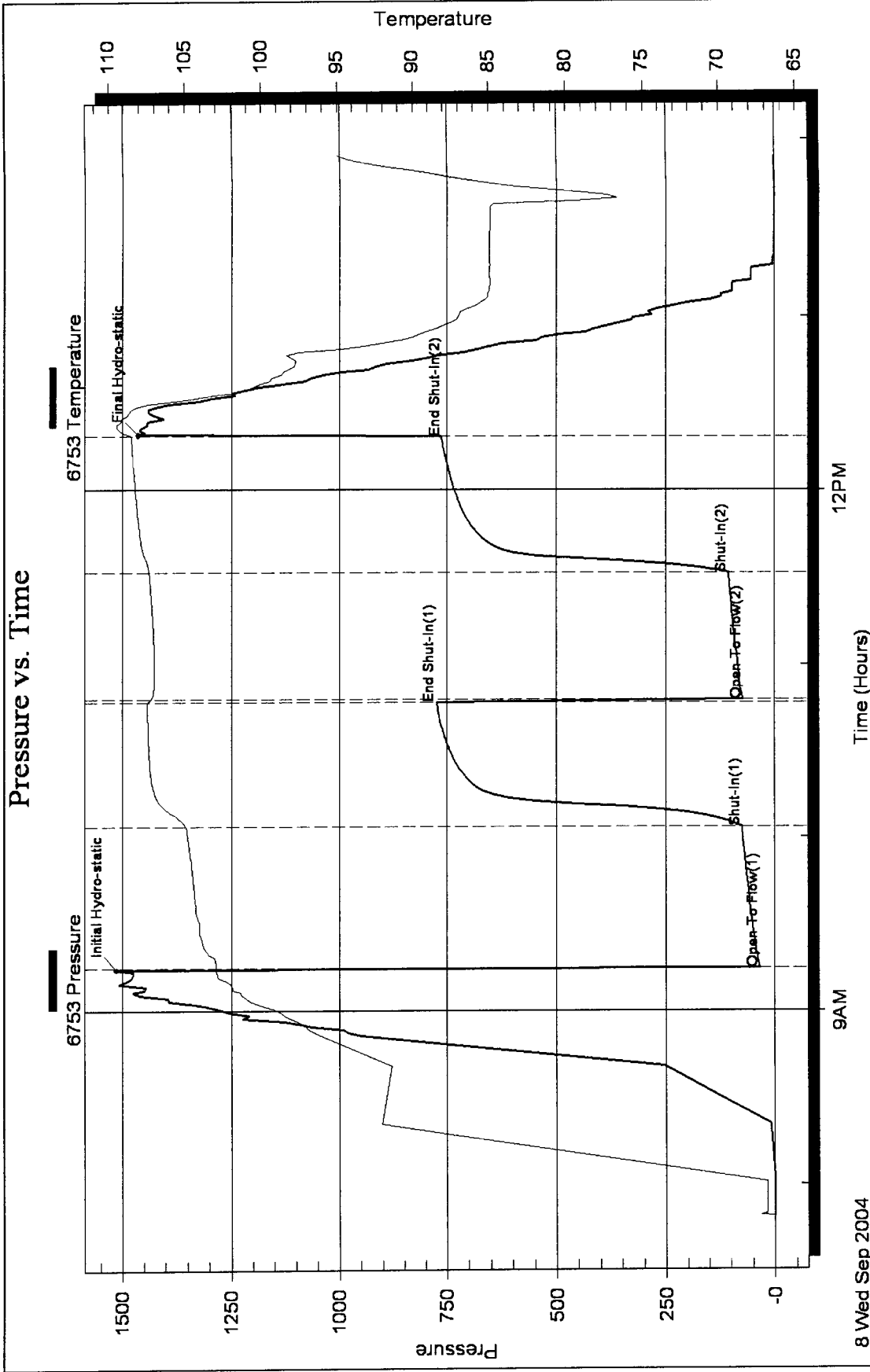
Serial #: 6753

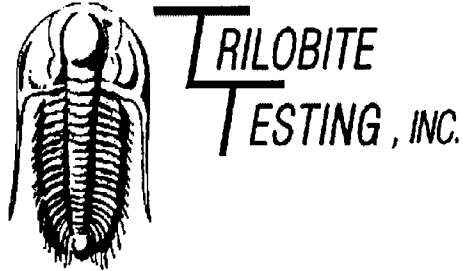
Inside

Black Diamond Oil Co.

22-11-19-Ellis

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Co.**

Po Box 641
Hays, KS. 67601

ATTN: Kenny Vehige

22-11-19-Ellis

Vine #1

Start Date: 2004.09.08 @ 23:45:19

End Date: 2004.09.09 @ 04:25:19

Job Ticket #: 20351 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Black Diamond Oil Co.

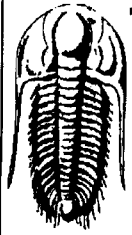
Vine #1

22-11-19-Ellis

DST # 3

LKC-"F"

2004.09.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20351

DST#: 3

ATTN: Kenny Vehige

Test Start: 2004.09.08 @ 23:45:19

GENERAL INFORMATION:

Formation: **LKC-"F"**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 01:28:49

Time Test Ended: 04:25:19

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **24**

Interval: **3298.00 ft (KB) To 3337.00 ft (KB) (TVD)**

Reference Elevations: **2026.00 ft (KB)**

Total Depth: **3337.00 ft (KB) (TVD)**

2018.00 ft (CF)

Hole Diameter: **7.80 inches** Hole Condition: **Good**

KB to GR/CF: **8.00 ft**

Serial #: 6753

Inside

Press@RunDepth: **45.19 psig @ 3303.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.09.08**

End Date:

2004.09.09

Last Calib.: **1899.12.30**

Start Time: **23:45:29**

End Time:

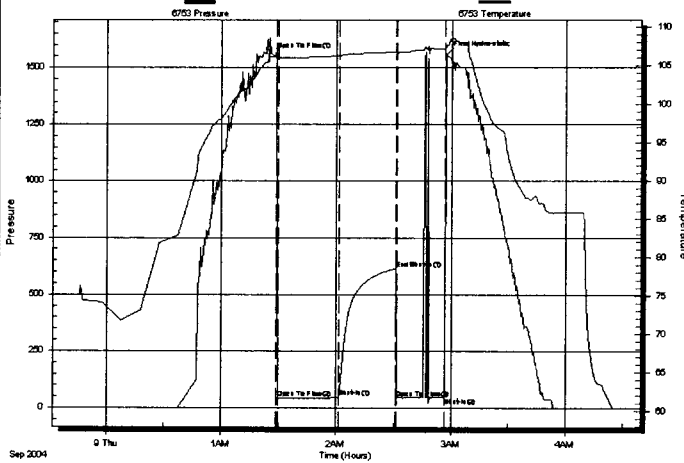
04:25:19

Time On Btrm:

Time Off Btrm: **2004.09.09 @ 02:57:19**

TEST COMMENT: FFP-Hit Bridges 4 Stands Off Bottom, Slid 8 ft On Tool Opening, No Blow
 IS-Dead
 FFP-Dead, Flush 3 Times After 10 Min. Get Bubble Kicks, Still No Blow
 FSI-Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

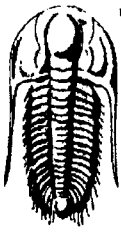
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.88	106.14	Open To Flow (1)
1	42.65	105.97	Open To Flow (2)
33	45.19	106.22	Shut-In(1)
62	615.76	106.78	End Shut-In(1)
63	44.99	106.62	Open To Flow (3)
88	48.06	107.13	Shut-In(2)
89	1555.77	107.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud With Oil Specks	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20351

DST#: 3

ATTN: Kenny Vehige

Test Start: 2004.09.08 @ 23:45:19

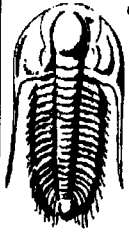
Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.80 inches	Volume: 45.77 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 45.92 bbl</u>	Tool Chased	8.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3298.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	60.00 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			3278.00	
Shut In Tool	5.00			3283.00	
Hydraulic tool	5.00			3288.00	
Packer	5.00			3293.00	21.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Stubb	1.00			3299.00	
Perforations	4.00			3303.00	
Recorder	0.00	6753	Inside	3303.00	
Perforations	31.00			3334.00	
Recorder	0.00	13252	Outside	3334.00	
Bullnose	3.00			3337.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-ELLIS

Job Ticket: 20351

DST#: 3

ATTN: Kenny Vehige

Test Start: 2004.09.08 @ 23:45:19

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud With Oil Specks	0.700

Total Length: 70.00 ft Total Volume: 0.700 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

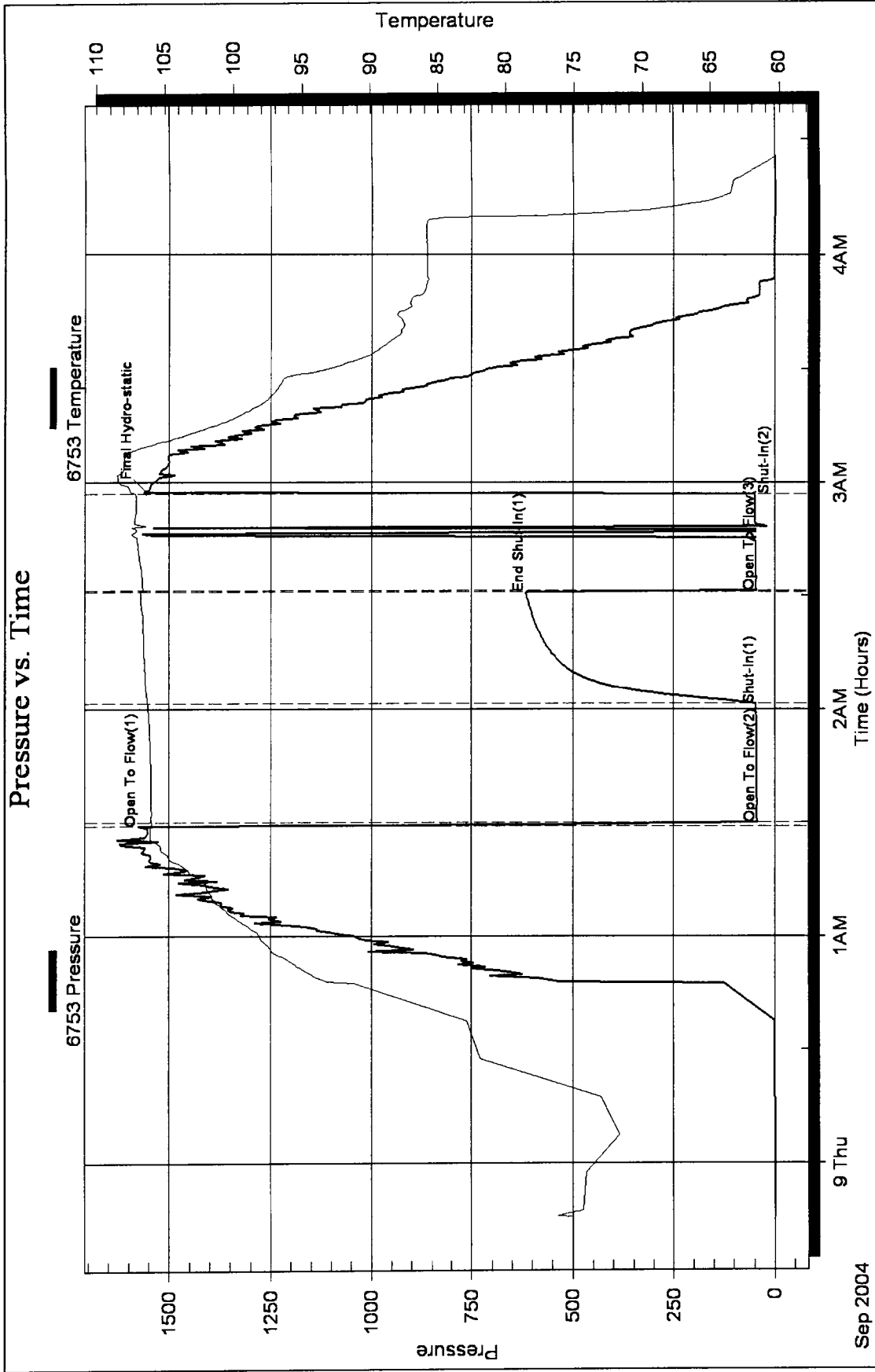
Inside

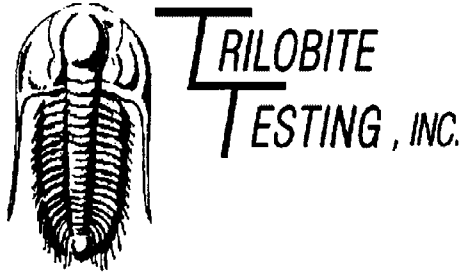
Black Diamond Oil Co.

22-11-19-Ellis

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

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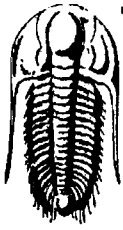
Vine #1

Start Date: 2004.09.09 @ 19:47:47

End Date: 2004.09.10 @ 02:16:47

Job Ticket #: 20352 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Ellis

Job Ticket: 20352

DST#: 4

ATTN: Kenny Vehige

Test Start: 2004.09.09 @ 19:47:47

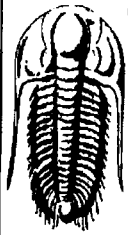
Tool Information

Drill Pipe:	Length: 3420.00 ft	Diameter: 3.80 inches	Volume: 47.97 bbl	Tool Weight: 3400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 48.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3454.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	97.00 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			3434.00	
Shut In Tool	5.00			3439.00	
Hydraulic tool	5.00			3444.00	
Packer	5.00			3449.00	21.00 Bottom Of Top Packer
Packer	5.00			3454.00	
Stubb	1.00			3455.00	
Perforations	7.00			3462.00	
Change Over Sub	1.00			3463.00	
Recorder	0.00	6753	Inside	3463.00	
Blank Spacing	31.00			3494.00	
Change Over Sub	1.00			3495.00	
Perforations	32.00			3527.00	
Recorder	0.00	13252	Outside	3527.00	
Bullnose	3.00			3530.00	76.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Co.

Vine #1

Po Box 641
Hays, KS. 67601

22-11-19-Elis

Job Ticket: 20352

DST#: 4

ATTN: Kenny Vehige

Test Start: 2004.09.09 @ 19:47:47

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:

28000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	SOCMW-5%O-90%W-5%M	2.243
1500.00	OCMW-30%O-65%W-5%M	21.041
60.00	SOCM-5%O-95%M	0.842

Total Length: 1740.00 ft Total Volume: 24.126 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

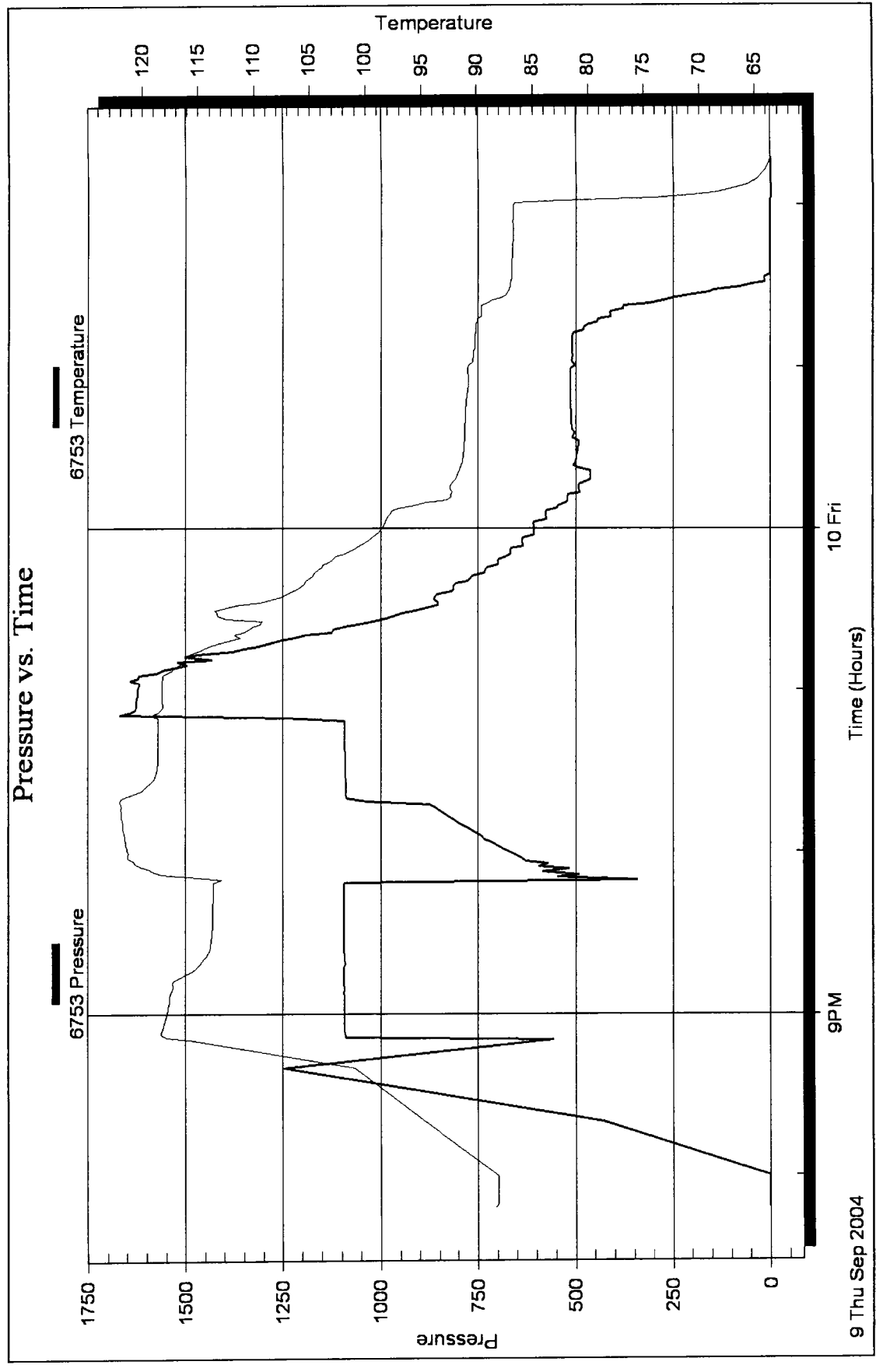
Recovery Comments:

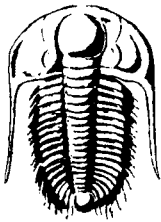
Serial #: 6753

Inside Black Diamond Oil Co.

22-11-19-Elis

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 6744

No 20349

05/03

Test Ticket

Well Name & No. Vine #1 Test No. 1 Date 9-7-04
 Company Black Diamond Oil Co. Zone Tested Topeka
 Address Po Box 641, Hays, Ks. 67601 Elevation 2026 KB 2018 GL
 Co. Rep / Geo. Kenny Vehige Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 22 Twp. 11 Rge. 19 Co. Ellis State Ks
 No. of Copies Reg Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2992 - 3030 Initial Str Wt./Lbs. 39,000 Unseated Str Wt./Lbs. 39,000
 Anchor Length 38' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 68,000
 Top Packer Depth 2987 Tool Weight 2500
 Bottom Packer Depth 2992 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3030 Wt. Pipe Run 0 Drill Collar Run 31
 Mud Wt. 8.8 LCM 1/8 Vis. 40 WL 8.8 Drill Pipe Size 4 1/2 X 14 Ft. Run 2952
 Blow Description IFP - Weak Blow, Built to 1 3/4"
ISI - Dead
FFP - Weak Blow, 1/4"
FSI - Dead

Recovery - Total Feet 50 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 50 Feet of OCM %gas 10 %oil _____ %water 90 %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 104 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		1412	PSI	6753	✓
(B) First Initial Flow Pressure		17	PSI	(depth) 2996	Elec. Rec. ✓
(C) First Final Flow Pressure		29	PSI	Recorder No. 13252	Jars
(D) Initial Shut-In Pressure		457	PSI	(depth) 3027	Safety Jt.
(E) Second Initial Flow Pressure		32	PSI	Recorder No.	Circ Sub
(F) Second Final Flow Pressure		41	PSI	(depth)	Sampler
(G) Final Shut-In Pressure		419	PSI	Initial Opening 30 45	Straddle
(Q) Final Hydrostatic Mud		1389	PSI	Initial Shut-In 45	Ext. Packer
				Final Flow 45	Shale Packer
				Final Shut-In 45	Mileage <u>25</u> 1 way

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Approved By _____
 Our Representative Jason McLenon *Thank You*
 T-On Location 10:45
 T-Started 12:45
 T-Open 14:17
 T-Pulled 17:17
 T-Out 18:30
 Sub Total: _____
 Std. By 942.50
 Other _____
 Total: _____

CHART PAGE

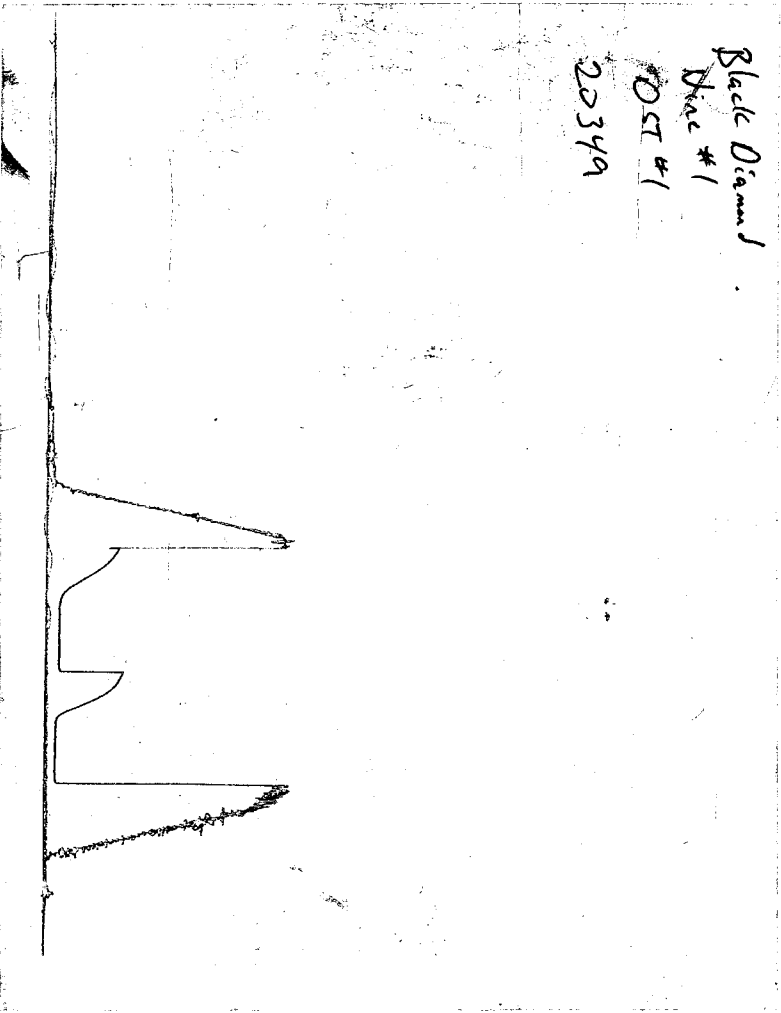
This is a photocopy of the actual AK-1 recorder chart

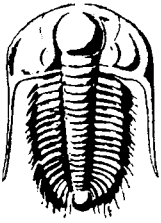
Black Diamond

Trace #1

OST #1

20349





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20350

05/03

Test Ticket

Well Name & No. Vine #1 Test No. 2 Date 9-8-04
 Company Black Diamond Oil Co. Zone Tested _____
 Address Po Box 641, Hays, Ks. 67601 Elevation 2026 KB 2018 GL
 Co. Rep / Geo. Kenny Vehige Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 22 Twp. 11 Rge. 19 Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3148 - 3225 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 77 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3143 Tool Weight 2,800
 Bottom Packer Depth 3148 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3225 Wt. Pipe Run 0 Drill Collar Run 31
 Mud Wt. 9.0 LCM 1/4 Vis. 44 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3106

Blow Description I FP - Fair Blow, BOB in 31 min.
ISI - Surface Blowback for 10 min
FFP - Good Blow, BOB in 10 min
FSI - Surface Blowback for 12 min

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>30</u>	Feet of <u>HOEN</u>	<u>20</u> %gas <u>30</u> %oil	%water <u>50</u> %mud
Rec. <u>180</u>	Feet of <u>MCO</u>	<u>20</u> %gas <u>60</u> %oil	%water <u>20</u> %mud
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5,000 ppm System

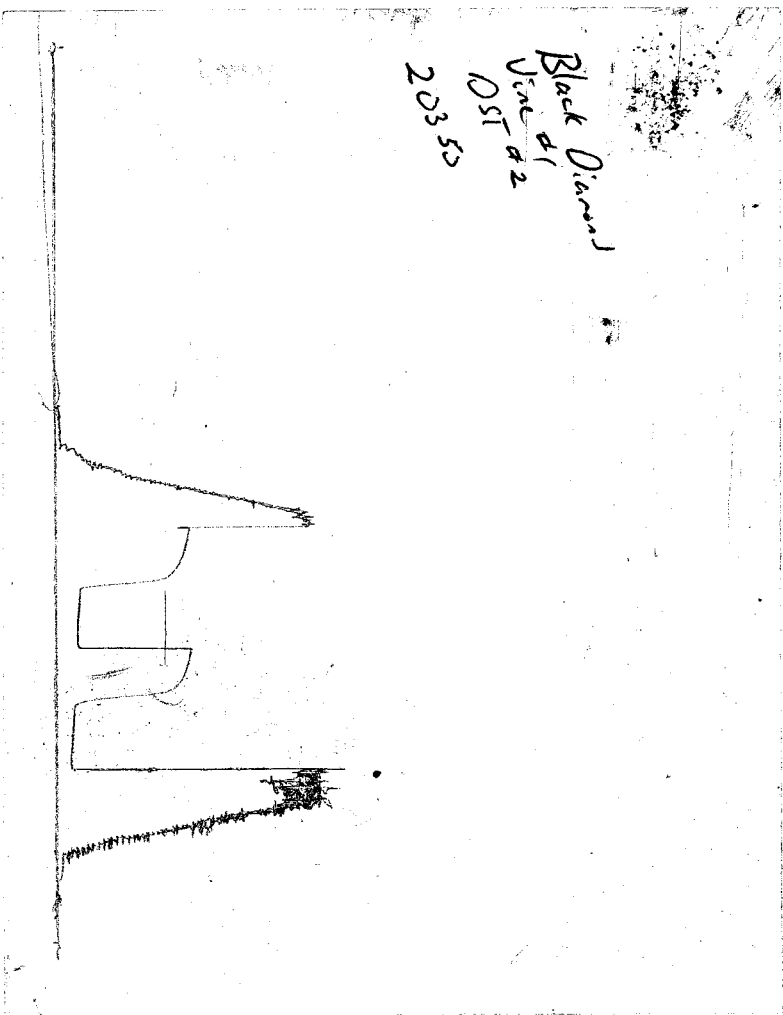
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		PSI	<u>6753</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		PSI	(depth) <u>3152</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		PSI	(depth) <u>3222</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		PSI	Initial Opening <u>45</u>	Straddle _____
(Q) Final Hydrostatic Mud		PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
			Final Flow <u>45</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage _____
			T-On Location <u>7:25</u>	Sub Total: _____
			T-Started <u>7:48</u>	Std. By _____
			T-Open <u>9:15</u>	Other _____
			T-Pulled <u>12:15</u>	Total: _____
			T-Out <u>13:45</u>	

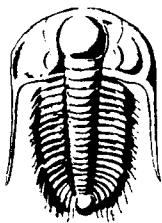
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Approved By _____
 Our Representative Jason Mc Jamore Thank You

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20351

05/03

Test Ticket

Well Name & No. Vine #1 Test No. 3 Date 9-8-04
 Company Black Diamond Oil Co. Zone Tested LKC - "F"
 Address Po Box 641, Hays, Ks. 67601 Elevation 2026 KB 2018 GL
 Co. Rep / Geo. Kenn Vehige Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 22 Twp. 11 Rge. 19 Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

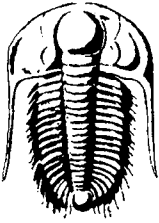
Interval Tested 3298 - 3337 Initial Str Wt./Lbs. 39,000 Unseated Str Wt/Lbs. _____
 Anchor Length 39' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 3293 Tool Weight 2500
 Bottom Packer Depth 3298 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3337 Wt. Pipe Run 0 Drill Collar Run 31
 Mud Wt. 9.0 LCM 44 Vis. 49 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3263
 Blow Description IFP - Hit Bridges 4 stands off Bottom, slid 8' No Blow
ISI - Dead
FFP - Dead, Flush after 10 min 3 times, get bubble kick, then Dead

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>70</u>			
Rec. _____	Feet of <u>Mud w/oil specks</u>	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
BHT <u>107</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____	@ _____ °F	Chlorides _____ ppm	Recovery _____ Chlorides <u>5,000</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1575</u>	PSI	<u>6753</u>	✓
(B) First Initial Flow Pressure	<u>43</u>	PSI	(depth) <u>3303</u>	Elec. Rec. ✓
(C) First Final Flow Pressure	<u>45</u>	PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>616</u>	PSI	(depth) <u>3334</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>45</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>48</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure <u>tool pulled</u>	PSI	Initial Opening <u>30</u>	Straddle _____	
(Q) Final Hydrostatic Mud <u>1556</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____	
		Final Flow <u>10, Flush 3 times</u>	Shale Packer _____	
		Final Shut-In <u>Pull tool</u>	Mileage _____	
		T-On Location <u>22:45</u>	Sub Total: _____	
		T-Started <u>23:45</u>	Std. By _____	
		T-Open <u>1:29</u>	Other _____	
		T-Pulled <u>2:55</u>	Total: _____	
		T-Out <u>4:15</u>		

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Approved By _____
 Our Representative Jason McLeman Thank you



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20352

05/03

Test Ticket

Well Name & No. Vine #1 Test No. 4 Date 9-9-04
 Company Black Diamond Oil Co. Zone Tested Simpson Sand - Arbuckle
 Address Po Box 671 Hays, Ks. 67601 Elevation 2026 KB 2018 GL
 Co. Rep / Geo. Kenny Vehige Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 22 Twp. 11 Rge. 19 Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3454 - 3530 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 50000
 Anchor Length 76' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 52,000
 Top Packer Depth 3449 Tool Weight 3400
 Bottom Packer Depth 3454 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3530 Wt. Pipe Run 0 Drill Collar Run 31
 Mud Wt. 9.0 LCM Tr Vis. 42 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3420
 Blow Description I FP - Strong Blow, BOB in 1/2 minutes, Dying after 12 min
ISI - Dead
FFP - Strong Blow, BOB in 1 minute
FSI - Dead

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>60</u>	Feet of <u>SOCM</u>	%gas <u>5</u> %oil _____ %water _____ %mud <u>95</u>	
Rec. <u>160 1500</u>	Feet of <u>OC MW</u>	%gas <u>30</u> %oil _____ %water <u>65</u> %mud <u>5</u>	
Rec. <u>180</u>	Feet of <u>SOC MW</u>	%gas <u>5</u> %oil _____ %water <u>90</u> %mud <u>5</u>	
Rec. _____	Feet of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____	Feet of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .256 @ 64 °F Chlorides 28,000 ppm Recovery _____ Chlorides 6,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		PSI	<u>6753</u>	✓
(B) First Initial Flow Pressure	<u>554</u>	PSI	(depth) <u>3463</u>	Elec. Rec. ✓
(C) First Final Flow Pressure	<u>1092</u>	PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1092</u>	PSI	(depth) <u>3527</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>342</u>	PSI	Recorder No. _____	Circ Sub <u>✓ used</u>
(F) Second Final Flow Pressure	<u>879</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1091</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1637</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

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Approved By _____
 Our Representative Jason Mc Lemmon
 T-Started 18:35
 T-Open 19:47
 T-Pulled 21:47
 T-Out 23:47
 Final Flow 30
 Final Shut-In 30
 T-On Location 18:35
 Sub Total: _____
 Std. By _____
 Other _____
 Total: _____