

DRILL STEM TEST REPORT

Prepared For: **GLB Expl. Inc.**

200 N. Harvey Ste.610
OKC, Ok 73102

ATTN: Bill Hamilton

24 33s 6w

Wolff #1

Start Date: 2003.01.28 @ 04:53:11

End Date: 2003.01.28 @ 13:05:41

Job Ticket #: 16643 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

GLB Expl. Inc.

200 N. Harvey Ste.610
OKC, Ok 73102

ATTN: Bill Hamilton

Wolff #1

24 33s 6w

Job Ticket: 16643

DST#: 1

Test Start: 2003.01.28 @ 04:53:11

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:57:41

Time Test Ended: 13:05:41

Test Type: Conventional Bottom Hole

Tester: Wenrich

Unit No: 24

Interval: **4396.00 ft (KB) To 4416.00 ft (KB) (TVD)**

Total Depth: 4416.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Poor

Reference Elevations: 1321.00 ft (KB)

1313.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 3310

Inside

Press@RunDepth: 21.75 psig @ 4397.00 ft (KB)

Start Date: 2003.01.28

End Date:

2003.01.28

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 04:53:16

End Time:

13:05:40

Time On Btm: 2003.01.28 @ 06:56:56

Time Off Btm: 2003.01.28 @ 11:12:56

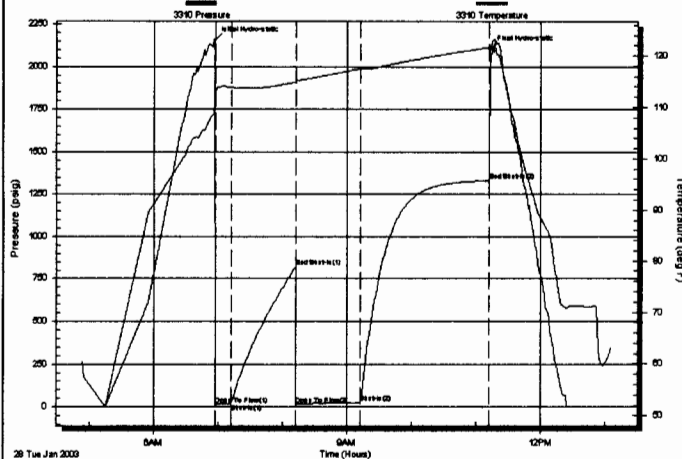
TEST COMMENT: IF:Strong blow .BOB in 12.5 mins

ISI:No blow .

FF:Strong blow .BOB immediately.

FSI:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.85	111.54	Initial Hydro-static
1	14.88	112.77	Open To Flow (1)
15	17.88	113.86	Shut-In (1)
76	822.04	114.87	End Shut-In (1)
76	11.52	115.02	Open To Flow (2)
136	21.75	117.47	Shut-In (2)
256	1331.67	121.62	End Shut-In (2)
256	2102.22	121.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.05
0.00	470' 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

GLB Expl. Inc.

Wolff #1

200 N. Harvey Ste.610
OKC, Ok 73102

24 33s 6w

Job Ticket: 16643

DST#: 1

ATTN: Bill Hamilton

Test Start: 2003.01.28 @ 04:53:11

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 60.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4396.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4367.00	
S.I. Tool	5.00			4372.00	
Sampler	3.00			4375.00	
HMV	5.00			4380.00	
Jars	5.00			4385.00	
Safety Joint	2.00			4387.00	
Packer	4.00			4391.00	30.00 Bottom Of Top Packer
Packer	5.00			4396.00	
Stubb	1.00			4397.00	
Recorder	0.00	3310	Inside	4397.00	
Perforations	17.00			4414.00	
Recorder	0.00	10242	Outside	4414.00	
Bullnose	2.00			4416.00	20.00 Bottom Packers & Anchor

Total Tool Length: 50.00



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FLUID SUMMARY

GLB Expl. Inc.

Wolff #1

200 N. Harvey Ste.610
OKC, Ok 73102

24 33s 6w

Job Ticket: 16643

DST#: 1

ATTN: Bill Hamilton

Test Start: 2003.01.28 @ 04:53:11

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: 10.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.049
0.00	470' GIP	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: Gas 1.0cf , Mud 300ml Pressure 1090psi

DST Test Number: 1

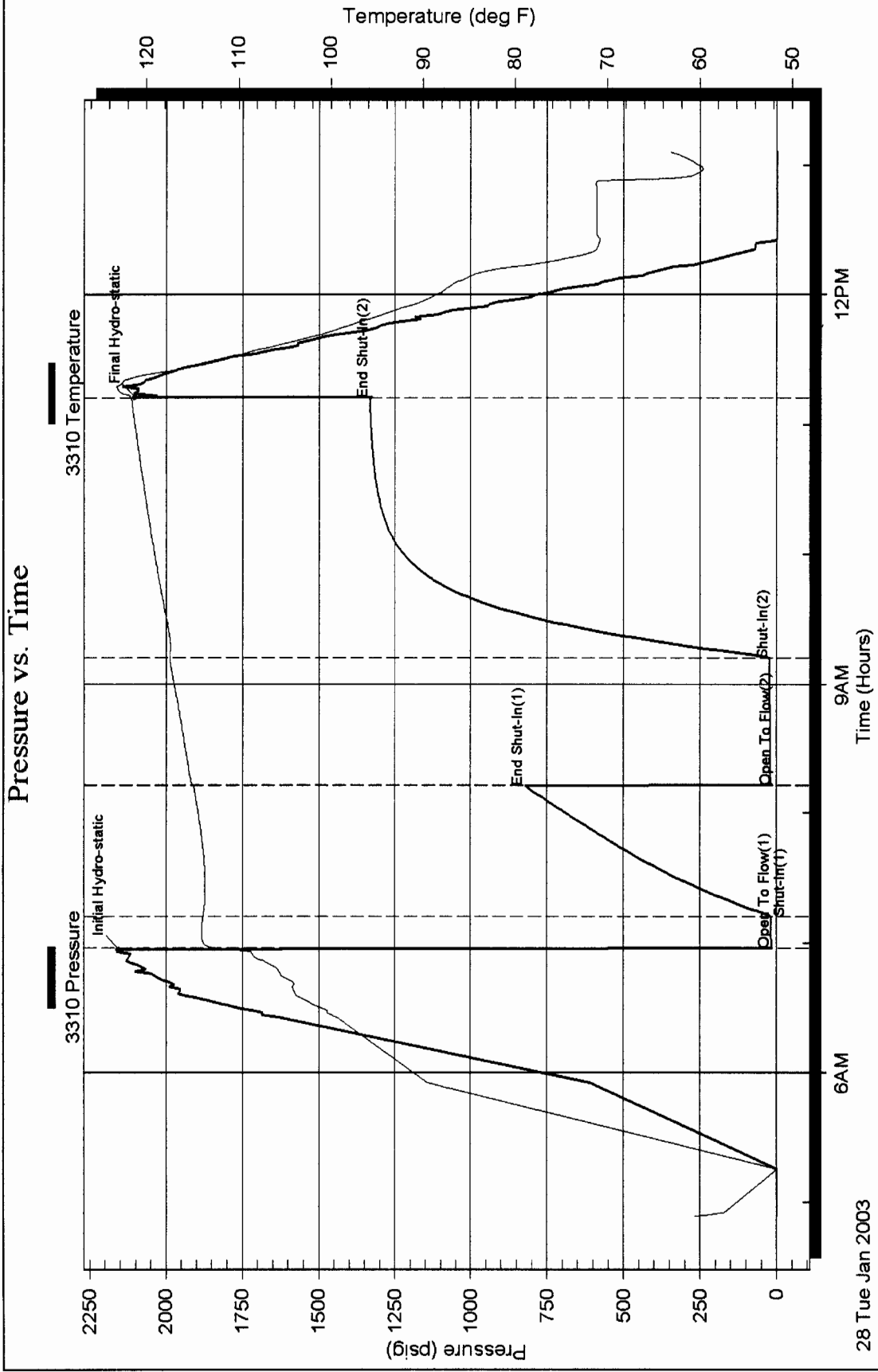
24 33s 6w

GLB Expl. Inc.

Inside

Serial #: 3310

Pressure vs. Time



TRILOBITE TESTING L.L.C.

* P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 16643 Date 1/28/03
Company Name GBL Expl. Inc.
Lease Wolff #1 Test No. 1
County Harper Sec. 24 Twp. 33S Rng. 6W

SAMPLER RECOVERY

Gas 1.0 ML
Oil — ML
Mud 300 ML
Water — ML
Other — ML
Pressure 1090 PSI
Total 300 ML

PIT MUD ANALYSIS

Chlorides 4,000 ppm.
Resistivity — ohms @ — F
Viscosity 47
Mud Weight 9.3
Filtrate 10.2
Other —

SAMPLER ANALYSIS

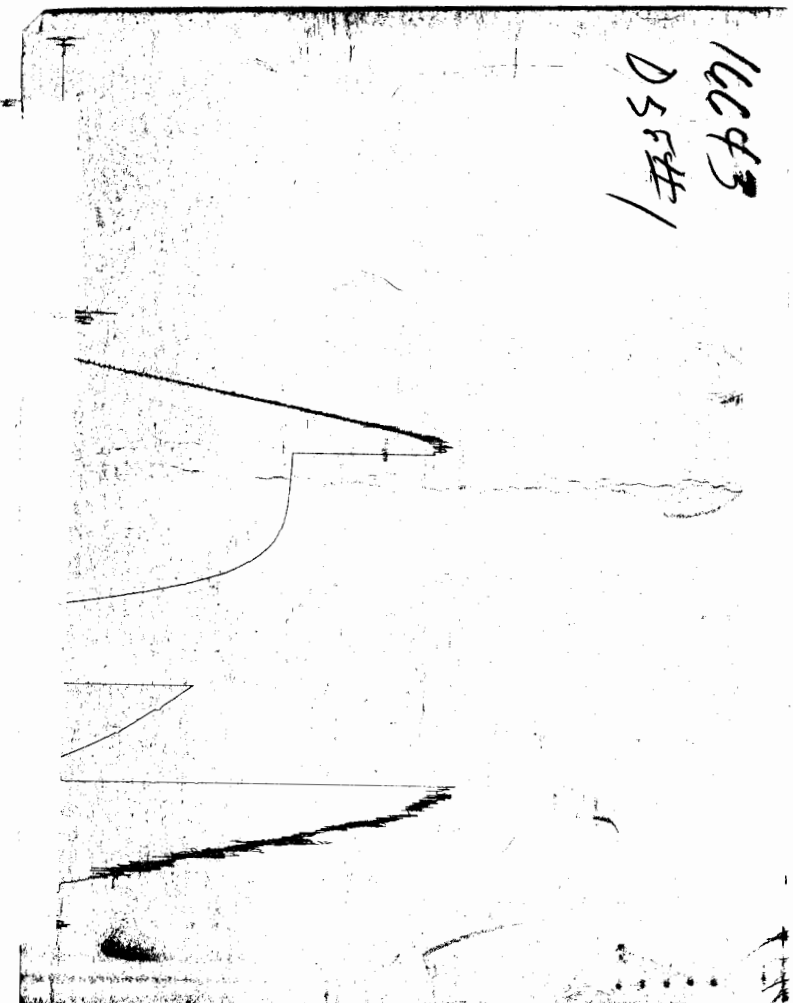
Resistivity — ohms @ — F
Chlorides MUD ppm.
Gravity — corrected @ 60 F

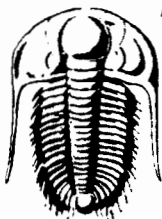
PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.
MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.
BOTTOM
Resistivity MUD ohms @ — F
Chlorides MUD ppm.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16643

Test Ticket

Well Name & No. <u>Wolff #1</u>	Test No. <u>1</u>	Date <u>1/28/03</u>
Company <u>GKB Expl. Inc.</u>	Zone Tested <u>Miss</u>	
Address <u>200 N. Harvey St #10 OKC, OK 73102</u>	Elevation <u>1321</u>	KB <u>1313</u> GL
Co. Rep / Geo. <u>Bill Hamilton</u>	Cont. <u>Duke Dalg Rigs #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>24</u>	Twp. <u>33s</u>	Rge. <u>6w</u> Co. <u>HARPER</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>✓</u>	Turnkey (Y, N) <u>✓</u> Evaluation (Y, N) <u>✓</u>

Interval Tested <u>4396</u>	<u>4416</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>52,000</u>
Anchor Length <u>20</u>		Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth <u>4391</u>		Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4396</u>		Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>4416</u>		Wt. Pipe Run <u>0</u>	Drill Collar Run <u>120</u>
Mud Wt. <u>9.3</u> LCM <u>0</u> Vis. <u>47</u> WL <u>10.2</u>		Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>4254</u>
Blow Description <u>IF: Strong blow. B.O.B. in 12.5 mins. ISL: No blow.</u>			
<u>FF: Strong blow. B.O.B. immediately. FSL: No blow.</u>			

Recovery — Total Feet <u>10</u>	GIP <u>470</u>	Ft. in DC <u>10</u>	Ft. in DP <u>0</u>
Rec. <u>10</u>	Feet Of <u>M</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>122</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____
RW _____	@ _____	°F Chlorides _____	ppm Recovery Chlorides <u>4,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2154</u>	Alpine	PSI Recorder No. <u>3310</u>	T-On Location <u>0345</u>
(B) First Initial Flow Pressure	<u>15</u>	PSI (depth)	<u>4357</u>	T-Started <u>0452</u>
(C) First Final Flow Pressure	<u>18</u>	PSI Recorder No.	<u>10242</u>	T-Open <u>0657</u>
(D) Initial Shut-In Pressure	<u>822</u>	PSI (depth)	<u>4414</u>	T-Pulled <u>1113</u>
(E) Second Initial Flow Pressure	<u>12</u>	PSI Recorder No.		T-Out <u>1306</u>
(F) Second Final Flow Pressure	<u>22</u>	PSI (depth)		T-Off Location _____
(G) Final Shut-in Pressure	<u>1332</u>	PSI Initial Opening	<u>15</u>	Test <u>✓ 800</u>
(Q) Final Hydrostatic Mud	<u>2102</u>	PSI Initial Shut-in	<u>60</u>	Jars <u>✓ 200</u>
		Final Flow	<u>60</u>	Safety Joint <u>✓ 50</u>
		Final Shut-in	<u>120</u>	Straddle _____

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Approved By Bill Hamilton

Our Representative Jim Kaurich

Circ. Sub _____
 Sampler ✓ 200
 Extra Packer _____
 Elec. Rec. ✓ 150
 Mileage ✓ 80
 Other STAND BY THR.
 TOTAL PRICE \$ _____