

15-155-21513

29-26S-9W



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **West Bay Exploration CO**

13685 S West Bay Shore 200
Traverse City MI 49684

ATTN: Bob Lewellyn

29 26S 9W Reno KS

Crotts #1-29

Start Date: 2006.11.11 @ 19:14:50

End Date: 2006.11.12 @ 05:26:20

Job Ticket #: 25462 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

West Bay Exploration CO

13685 S West Bay Shore 200
Traverse City MI 49684

ATTN: Bob Lewellyn

Crotts #1-29

29 26S 9W Reno KS

Job Ticket: 25462

DST#: 1

Test Start: 2006.11.11 @ 19:14:50

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 22:50:20

Time Test Ended: 05:26:20

Test Type: **Conventional Bottom Hole**

Tester: **Gerald Adams**

Unit No: **36**

Interval: **4193.00 ft (KB) To 4198.00 ft (KB) (TVD)**

Total Depth: **4198.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1711.00 ft (KB)**

1706.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6798

Inside

Press@RunDepth: **1263.98 psig @ 4194.00 ft (KB)**

Start Date: **2006.11.11**

End Date:

2006.11.12

Start Time: **19:14:55**

End Time:

05:26:20

Capacity: **7000.00 psig**

Last Calib.: **2006.11.12**

Time On Btm: **2006.11.11 @ 22:46:50**

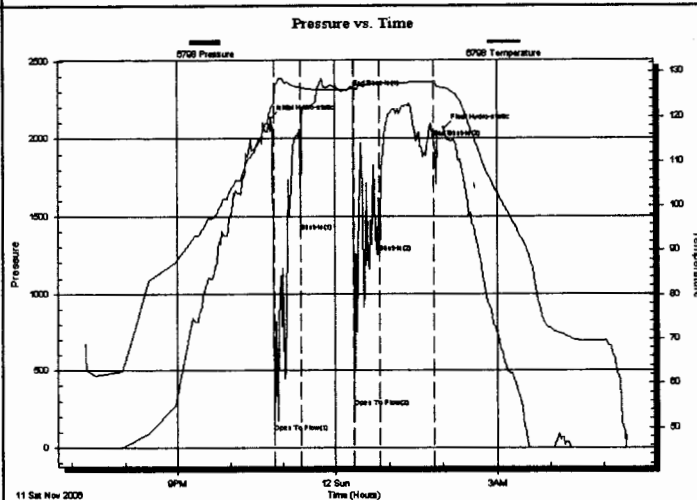
Time Off Btm: **2006.11.12 @ 02:01:50**

TEST COMMENT: **IF Weak 1 " blow**

ISI No blow

FF No blow

FSI No blow



PRESSURE SUMMARY

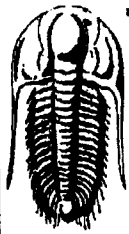
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.63	121.59	Initial Hydro-static
4	97.67	123.02	Open To Flow (1)
35	1399.97	126.26	Shut-In (1)
94	2325.98	126.14	End Shut-In (1)
95	259.55	125.42	Open To Flow (2)
123	1263.98	127.41	Shut-In (2)
184	2004.79	127.81	End Shut-In (2)
195	2066.37	126.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very thick drilling mud 100%M	0.07
0.00		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

West Bay Exploration CO

Crotts #1-29

13685 S West Bay Shore 200
Traverse City MI 49684

29 26S 9W Reno KS

Job Ticket: 25462

DST#: 1

ATTN: Bob Lew ellyn

Test Start: 2006.11.11 @ 19:14:50

Tool Information

Drill Pipe:	Length: 3999.00 ft	Diameter: 3.80 inches	Volume: 56.10 bbl	Tool Weight: 2300.00 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: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 56.96 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	4193.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Slid tool 6' to bottom.				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4170.00	
Hydraulic tool	5.00			4175.00	
Jars	5.00			4180.00	
Safety Joint	3.00			4183.00	
Packer	5.00			4188.00	28.00 Bottom Of Top Packer
Packer	5.00			4193.00	
Stubb	1.00			4194.00	
Recorder	0.00	6798	Inside	4194.00	
Perforations	1.00			4195.00	
Bullnose	3.00			4198.00	5.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

West Bay Exploration CO

Crotts #1-29

13685 S West Bay Shore 200
Traverse City MI 49684

29 26S 9W Reno KS

Job Ticket: 25462

DST#: 1

ATTN: Bob Lewellyn

Test Start: 2006.11.11 @ 19:14:50

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: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Very thick drilling mud 100%M	0.074
0.00		0.000

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

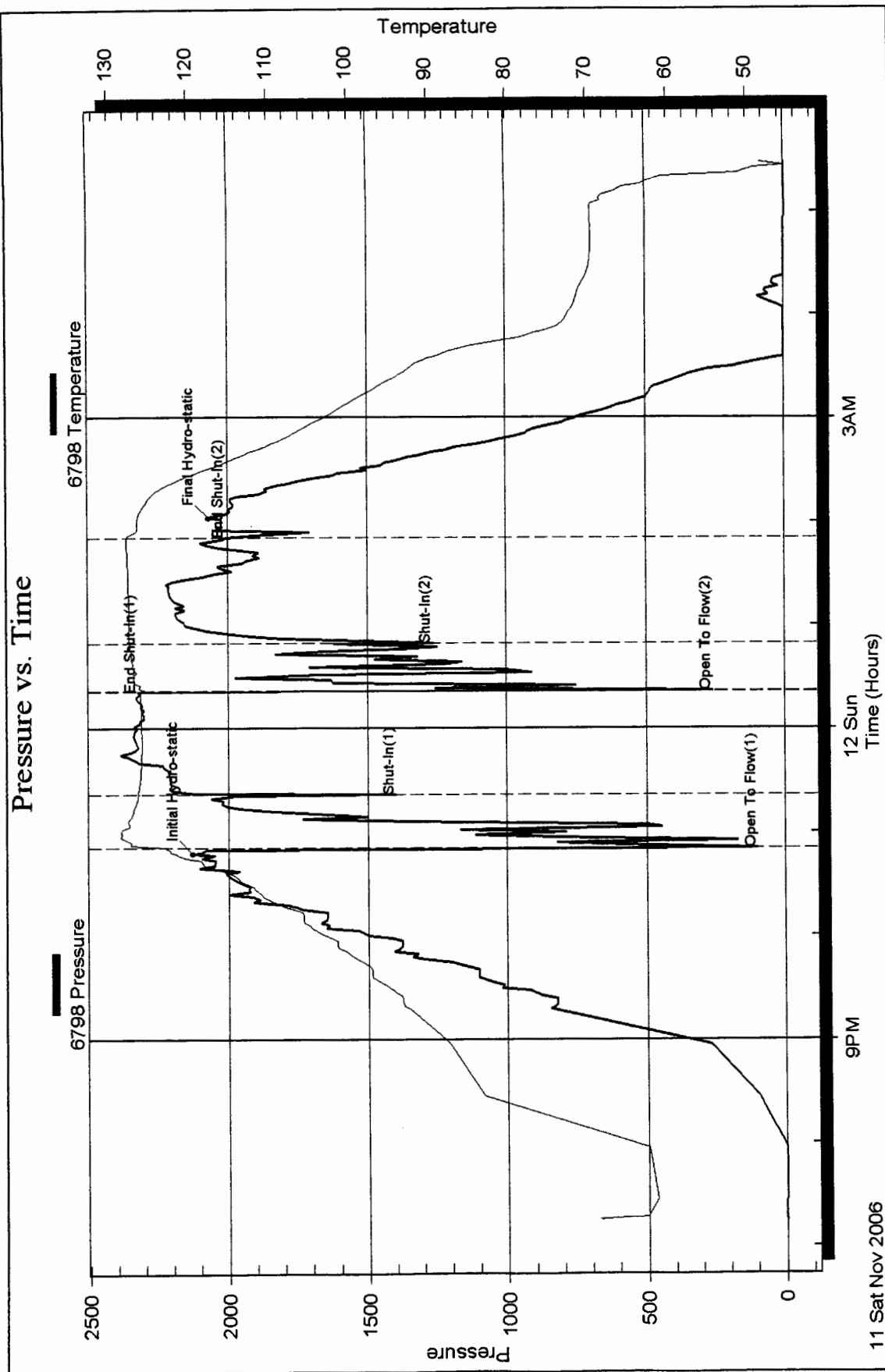
29 26S 9W Reno KS

West Bay Exploration CO

Inside

Serial #: 6798

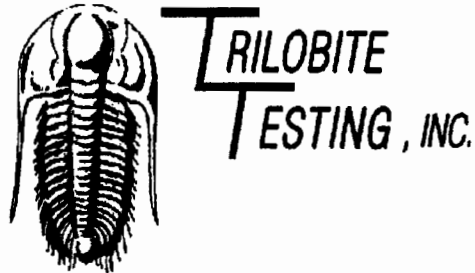
Pressure vs. Time



Ref. No: 25462

Trilobite Testing, Inc

Printed: 2006.11.16 @ 10:26:36 Page 5



DRILL STEM TEST REPORT

Prepared For: **West Bay Exploration CO**

13685 S West Bay Shore 200
Traverse City MI 49684

ATTN: Bob Lewellyn

29 26S 9W Reno KS

Crotts #1-29

Start Date: 2006.11.12 @ 21:55:20

End Date: 2006.11.13 @ 06:51:50

Job Ticket #: 25463 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

West Bay Exploration CO

13685 S West Bay Shore 200
Traverse City MI 49684

ATTN: Bob Lewellyn

Crotts #1-29

29 26S 9W Reno KS

Job Ticket: 25463

DST#: 2

Test Start: 2006.11.12 @ 21:55:20

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:20

Time Test Ended: 06:51:50

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Interval: **4270.00 ft (KB) To 4307.00 ft (KB) (TVD)**

Total Depth: 4307.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1711.00 ft (KB)

1706.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 28.63 psig @ 4271.00 ft (KB)

Start Date: 2006.11.12

End Date:

2006.11.13

Capacity: 7000.00 psig

Last Calib.: 2006.11.13

Start Time: 21:55:25

End Time:

06:51:50

Time On Btm: 2006.11.13 @ 00:30:50

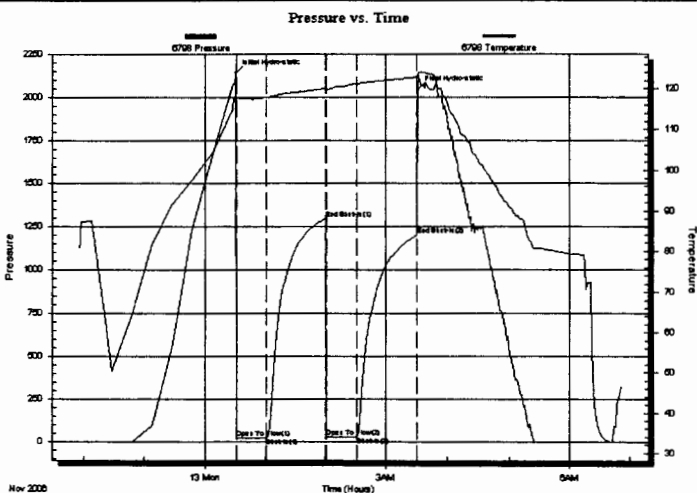
Time Off Btm: 2006.11.13 @ 03:31:19

TEST COMMENT: IF Weak surface blow

ISI No blow

FF No blow

FSI No blow



PRESSURE SUMMARY

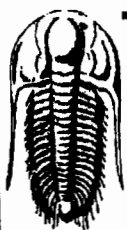
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.84	117.87	Initial Hydro-static
1	22.15	117.62	Open To Flow (1)
30	24.33	117.92	Shut-In (1)
90	1297.94	120.10	End Shut-In (1)
91	26.24	119.64	Open To Flow (2)
121	28.63	121.22	Shut-In (2)
180	1203.07	122.90	End Shut-In (2)
181	2041.56	123.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud 100%M	0.15
0.00		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

West Bay Exploration CO

Crotts #1-29

13685 S West Bay Shore 200
Traverse City MI 49684

29 26S 9W Reno KS

Job Ticket: 25463

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2006.11.12 @ 21:55:20

Tool Information

Drill Pipe:	Length: 4094.00 ft	Diameter: 3.80 inches	Volume: 57.43 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: 20000.00 lb
Drill Collar:	Length: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 58.29 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4270.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Sampler Info: 100 PSI				
100 ml Drilling Mud.				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4244.00	
Sampler	3.00			4247.00	
Hydraulic tool	5.00			4252.00	
Jars	5.00			4257.00	
Safety Joint	3.00			4260.00	
Packer	5.00			4265.00	31.00 Bottom Of Top Packer
Packer	5.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	6798	Inside	4271.00	
Perforations	33.00			4304.00	
Recorder	0.00	13249	Outside	4304.00	
Bullnose	3.00			4307.00	37.00 Bottom Packers & Anchor

Total Tool Length: 68.00



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FLUID SUMMARY

West Bay Exploration CO

Crotts #1-29

13685 S West Bay Shore 200
Traverse City MI 49684

29 26S 9W Reno KS

Job Ticket: 25463

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2006.11.12 @ 21:55:20

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 14.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud 100%M	0.148
0.00		0.000

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

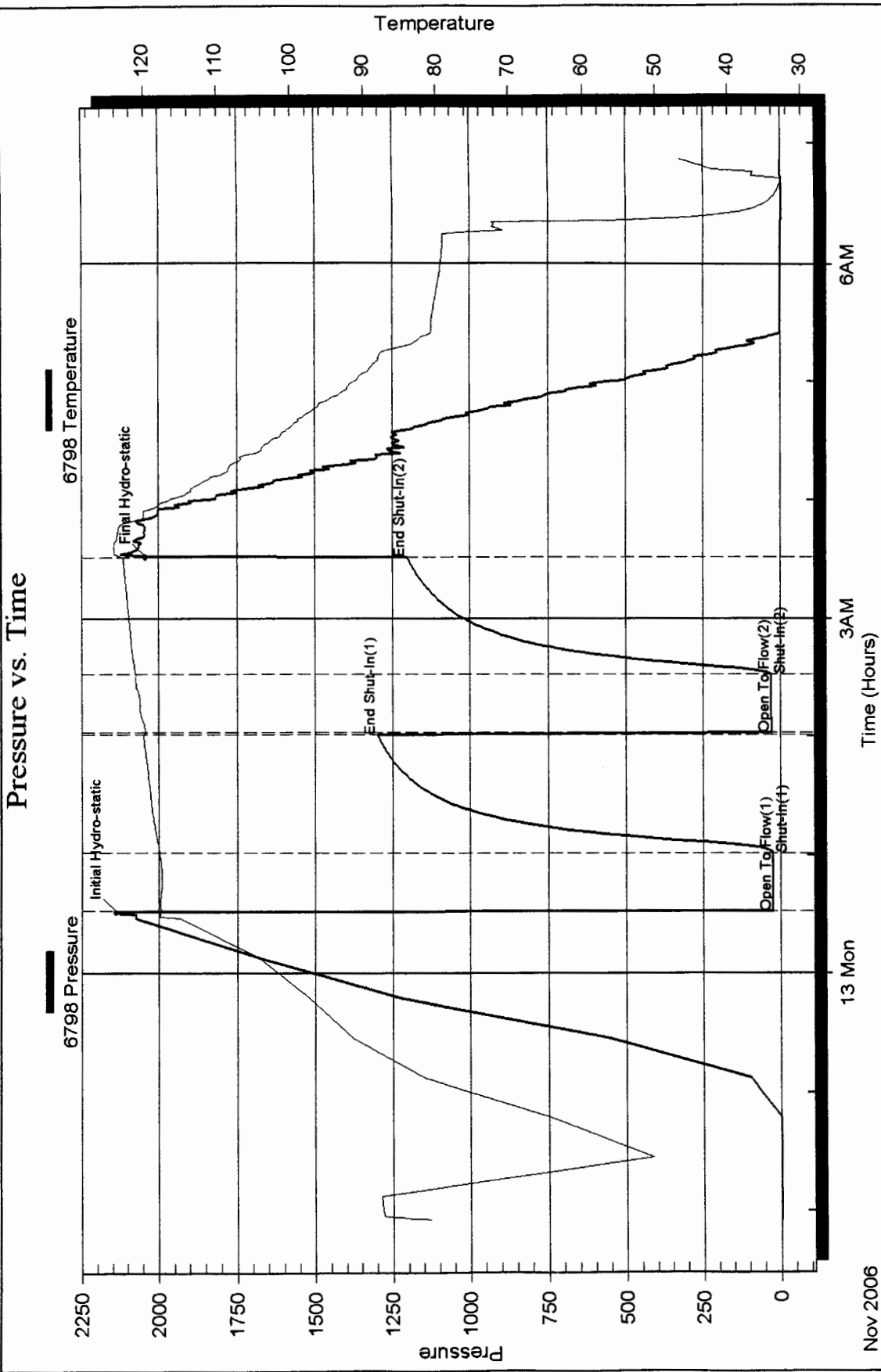
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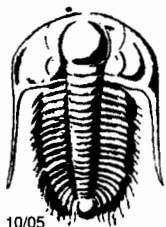
West Bay Exploration OO

29 26S 9W Reno KS

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9515 ✓

25462 -

Test Ticket

Well Name & No. <u>Crotts #1-29</u>	Test No. <u>1</u>	Date <u>11-11-06</u>
Company <u>West Bay Exploration Company</u>	Zone Tested <u>Viola</u>	
Address <u>13685 S. West Bay Shore #200 Traverse City, MI</u>	Elevation <u>1711</u>	KB <u>1706</u> GL
Co. Rep / Geo. <u>Bob Lewellyn</u>	Rig <u>Landmark #1</u>	
Location: Sec. <u>29</u> Twp. <u>26s</u> Rge. <u>9w</u>	Co. <u>Reno</u>	State <u>Ks.</u>
Comment: <u>Slid tool 6' to bottom.</u>	Release date / time: _____	

Interval Tested <u>4193-4198</u>	Initial Str Wt./Lbs. <u>43,000</u>	Unseated Str Wt./Lbs. <u>43,000</u>
Anchor Length <u>5</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>85,000</u>
Top Packer Depth <u>4188</u>	Tool Weight <u>2,300</u>	
Bottom Packer Depth <u>4193</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>4198</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>174</u>
Mud Wt. <u>9.2</u> LCM <u>3#</u> Vis. <u>41</u> WL <u>12.0</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>3999</u>

Blow Description IF: Weak 1" blow.

ISI: No blow.

FF: No blow.

FSI: No blow.

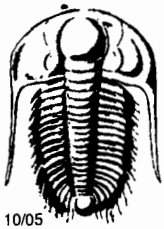
Recovery - Total Feet <u>15</u>	GIP <u>0</u>	Ft. in DC <u>15</u>	Ft. in DP <u>0</u>
Rec. <u>15</u>	Feet of <u>Very thick drilling mud</u>	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
BHT <u>128</u>	°F Gravity <u>N/C</u>	°API D @ _____	°F Corrected Gravity <u>✓</u>
RW <u>N/C</u>	@ _____	°F	Chlorides <u>7,000</u> ppm Recovery _____
			Chlorides <u>7,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2129</u> PSI	Alpine	Recorder No. <u>6798</u>	Test <u>✓</u> <u>1200</u>
(B) First Initial Flow Pressure	<u>98</u> PSI		(depth) <u>4194</u>	Jars <u>✓</u> <u>250</u>
(C) First Final Flow Pressure	<u>1400</u> PSI		Recorder No. _____	Safety Jt. <u>✓</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>2326</u> PSI		(depth) _____	Circ Sub _____
(E) Second Initial Flow Pressure	<u>260</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>1264</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>2005</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2066</u> PSI	Initial Shut-In <u>60</u>		Shale Packer _____
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.		Final Flow <u>30</u>		Ruined Packer <u>81.2</u>
		Final Shut-In <u>60</u>		Mileage <u>✓</u> <u>65 R.T.</u>
		T-On Location <u>1700</u>		Sub Total: <u>1606.2</u>
		T-Started <u>1914</u>		Std. By <u>3.5</u> <u>350</u>
		T-Open <u>2250</u>		Acc. Chg: _____
		T-Pulled <u>0150</u>		Other: _____
		T-Out <u>0526</u>		Total: <u>1956.25</u>

Approved By [Signature]

Our Representative Gerald Adams

Thank You.



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25463

Test Ticket

Well Name & No. <u>Crotts #1-29</u>	Test No. <u>2</u>	Date <u>11-12-06</u>
Company <u>West Bay Exploration Company</u>	Zone Tested <u>Simpson</u>	
Address <u>13685 S. West Bay Shore, Traverse City, MI. #200</u>	Elevation <u>49684</u>	KB <u>1706</u> GL
Co. Rep / Geo. <u>Bob Lewellyn</u>	Rig <u>Landmark #1</u>	
Location: Sec. <u>29</u> Twp. <u>26S</u> Rge. <u>9W</u>	Co. <u>Reno</u>	State <u>Ks.</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4270-4307</u>	Initial Str Wt./Lbs. <u>44,000</u>	Unseated Str Wt./Lbs. <u>44,000</u>
Anchor Length <u>37</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>75,000</u>
Top Packer Depth <u>4265</u>	Tool Weight <u>2,500</u>	
Bottom Packer Depth <u>4270</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>4307</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>174 H-90</u>
Mud Wt. <u>9.3</u> LCM <u>2[#]</u> Vis. <u>58</u> WL <u>14.8</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4094</u>
Blow Description <u>IF: Weak surface blow.</u>		

IST: No blow.

FF: No blow.

FSI: No blow.

Recovery - Total Feet <u>30</u>	GIP <u>0</u>	Ft. in DC <u>30</u>	Ft. in DP <u>0</u>
Rec. <u>30</u>	Feet of <u>Drilling Mud</u>	%gas	%oil %water 100 %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 <u>123</u>	'F Gravity <u>N/C</u>	'API D @ _____	'F Corrected Gravity _____ 'API
RW <u>N/C</u>	@ _____ 'F	Chlorides <u>11,000</u> ppm Recovery _____	Chlorides <u>11,000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2144</u>	PSI	Recorder No.	<u>6798</u>	Test <u>✓</u> <u>1200</u>
(B) First Initial Flow Pressure	<u>22</u>	PSI	(depth)	<u>4271</u>	Jars <u>✓</u> <u>250</u>
(C) First Final Flow Pressure	<u>24</u>	PSI	Recorder No.	<u>13249</u>	Safety Jt. <u>✓</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>1298</u>	PSI	(depth)	<u>4304</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>26</u>	PSI	Recorder No.	_____	Sampler <u>✓</u> <u>250</u>
(F) Second Final Flow Pressure	<u>29</u>	PSI	(depth)	_____	Straddle _____
(G) Final Shut-In Pressure	<u>1203</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2129</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer _____

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Approved By [Signature]

Our Representative Gerald Adams

Thank
You

Final Flow	<u>30</u>
Final Shut-In	<u>60</u>
T-On Location	<u>2115</u>
T-Started	<u>2155</u>
T-Open	<u>2431</u>
T-Pulled	<u>0331</u>
T-Out	<u>0651</u>

Ruined Packer	<u>81.25</u>
Mileage <u>✓</u> <u>65 R.T.</u>	
Sub Total:	<u>1843.25</u>
Std. By <u>1/2</u>	<u>50</u>
Acc. Chg:	
Other:	
Total:	<u>\$1843.25</u>



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 25463 Date 11-12-06
Company Name West Bay Exploration Company
Lease Crofts #1-29 Test No. 2
County Reno Sec. 29 Twp. 26S Rng. 09W

SAMPLER RECOVERY

Gas N/A ML Chlorides 11,000 ppm.
Oil N/A ML Resistivity ~ ohms @ ~ F
Mud 100ml ML Viscosity 58
Water N/A ML Mud Weight 9.3
Other ML Filtrate 14.8
Pressure 100 PSI ML Other LCM 2#
Total 100 ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity N/A ohms @ ~ F
Chlorides N/A ppm.
Gravity N/A corrected @60F

PIPE RECOVERY

~~TOP
Resistivity ohms @ F
Chlorides ppm.~~

~~MIDDLE
Resistivity ohms @ F
Chlorides ppm.~~

BOTTOM
Resistivity N/A ohms @ F
Chlorides 30' Drilling Mud ppm.

CHART PAGE

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

Wost Boy Expt. Co.

Croft #1-29

DST #2 Simpson

18249

