

DRILL STEM TEST REPORT

Prepared For: **Crawford Oil Co**

PO Box 1366
El Dorado KS 67042

ATTN: Ted Jochems

32 14 21 Trego KS

CBCF #2-32

Start Date: 2007.07.28 @ 02:40:25

End Date: 2007.07.28 @ 08:52:40

Job Ticket #: 28559 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Crawford Oil Co

CBCF #2-32

32 14 21 Trego KS

DST # 1

Cherokee

2007.07.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Crawford Oil Co

CBCF #2-32

PO Box 1366
El Dorado KS 67042

32 14 21 Trego KS

ATTN: Ted Jochems

Job Ticket: 28559

DST#: 1

Test Start: 2007.07.28 @ 02:40:25

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:51:25

Time Test Ended: 08:52:40

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3919.00 ft (KB) To 3932.00 ft (KB) (TVD)**

Total Depth: 3932.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2065.00 ft (KB)

2060.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8290

Inside

Press@RunDepth: 226.09 psig @ 3920.00 ft (KB)

Start Date: 2007.07.28

End Date:

2007.07.28

Start Time: 02:40:27

End Time:

08:52:40

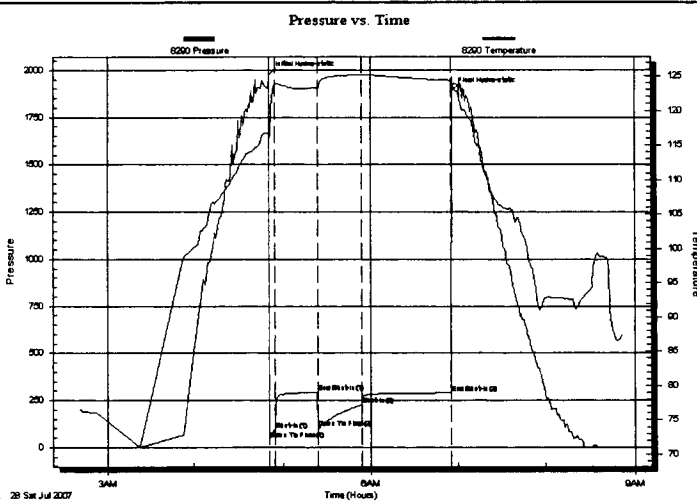
Capacity: 7000.00 psig

Last Calib.: 2007.07.28

Time On Btm: 2007.07.28 @ 04:51:10

Time Off Btm: 2007.07.28 @ 06:55:40

TEST COMMENT: IFP Blow built to 8"
ISI Weak surface blow back died in 9 min
FFP BOB in 5.5 min
FSI No blow back



PRESSURE SUMMARY

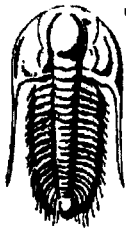
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.52	116.67	Initial Hydro-static
1	43.02	115.60	Open To Flow (1)
4	92.94	123.70	Shut-In(1)
33	290.46	123.20	End Shut-In(1)
33	100.24	123.08	Open To Flow (2)
63	226.09	125.15	Shut-In(2)
125	287.70	124.36	End Shut-In(2)
125	1884.14	124.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	2.31
180.00	MW 90%W 10%M	2.55
45.00	WM 40%W 60%M	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Crawford Oil Co

CBCF #2-32

PO Box 1366
El Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28559

DST#: 1

ATTN: Ted Jocherns

Test Start: 2007.07.28 @ 02:40:25

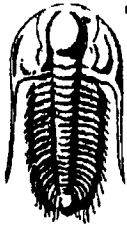
Tool Information

Drill Pipe:	Length: 3788.00 ft	Diameter: 3.82 inches	Volume: 53.70 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: 20000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 54.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3919.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 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			3892.00	
Shut In Tool	5.00			3897.00	
Hydraulic tool	5.00			3902.00	
Jars	5.00			3907.00	
Safety Joint	2.00			3909.00	
Packer	5.00			3914.00	28.00 Bottom Of Top Packer
Packer	5.00			3919.00	
Stubb	1.00			3920.00	
Recorder	0.00	8290	Inside	3920.00	
Perforations	9.00			3929.00	
Recorder	0.00	13401	Inside	3929.00	
Bullnose	3.00			3932.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Crawford Oil Co

CBCF #2-32

PO Box 1366
E Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28559

DST#: 1

ATTN: Ted Jocherns

Test Start: 2007.07.28 @ 02:40:25

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:

27000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	Water	2.310
180.00	MW 90%W 10%M	2.552
45.00	WM 40%W 60%M	0.638

Total Length: 465.00 ft

Total Volume: 5.500 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8290

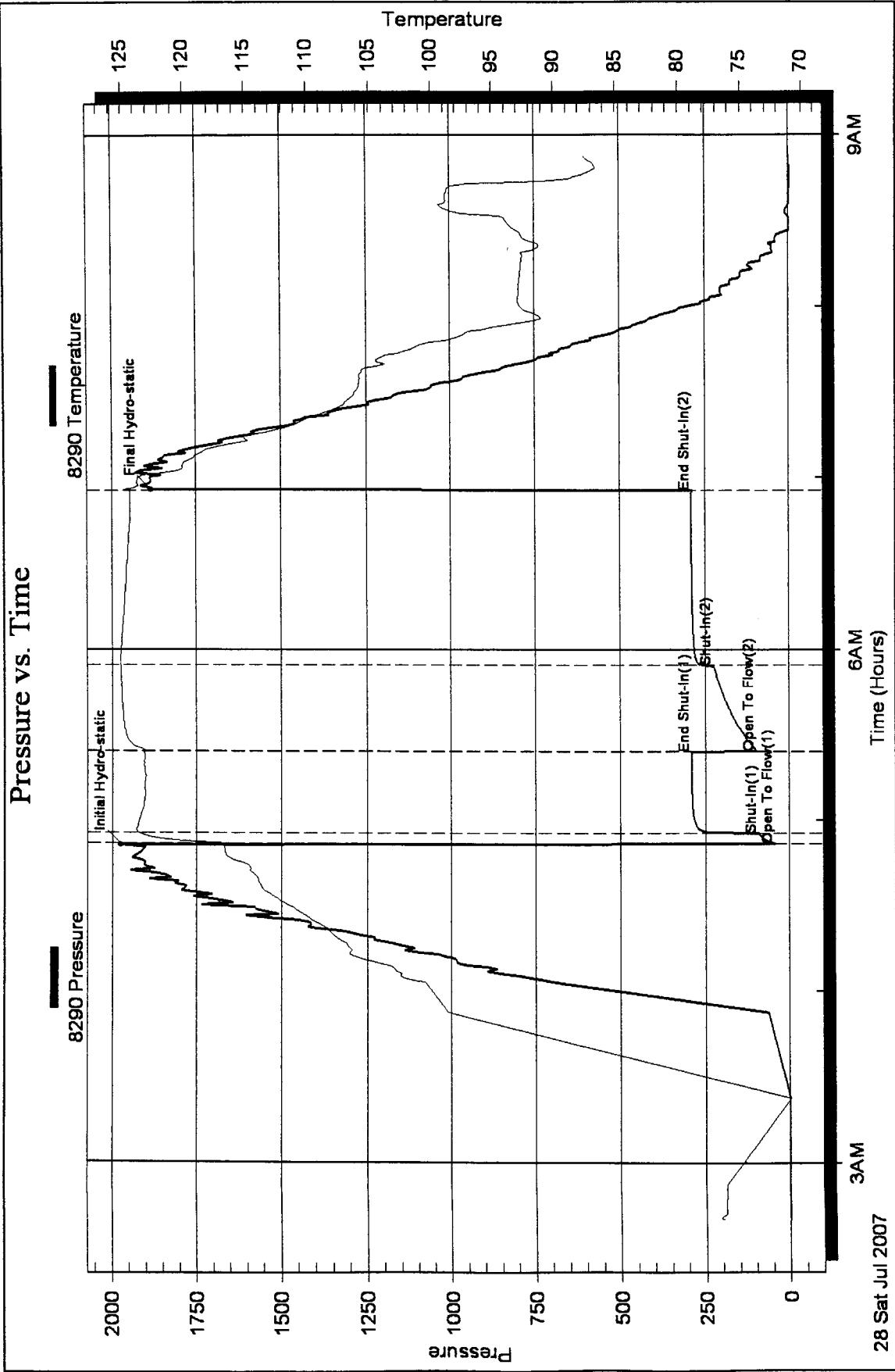
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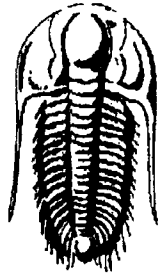
Crawford Oil Co

32 14 21 Trego KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Crawford Oil Co**

PO Box 1366
El Dorado KS 67042

ATTN: Ted Jochems

32 14 21 Trego KS

CBCF #2-32

Start Date: 2007.07.28 @ 16:37:48

End Date: 2007.07.28 @ 23:19:33

Job Ticket #: 28560 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Crawford Oil Co

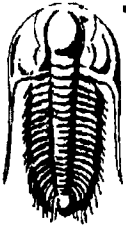
CBCF #2-32

32 14 21 Trego KS

DST # 2

Cherokee "E"

2007.07.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Crawford Oil Co

CBCF #2-32

PO Box 1366
El Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28560

DST#: 2

ATTN: Ted Jochems

Test Start: 2007.07.28 @ 16:37:48

GENERAL INFORMATION:

Formation: **Cherokee "E"**

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

Time Tool Opened: 20:01:18

Time Test Ended: 23:19:33

Test Type: **Conventional Bottom Hole**

Tester: **Tyson Flax**

Unit No: **21**

Interval: **3949.00 ft (KB) To 3955.00 ft (KB) (TVD)**

Total Depth: **3932.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2065.00 ft (KB)**

2060.00 ft (CF)

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

Serial #: 8290 **Inside**

Press@RunDepth: **88.92 psig @ 3950.00 ft (KB)**

Start Date: **2007.07.28**

End Date: **2007.07.28**

Start Time: **16:37:50**

End Time: **23:19:33**

Capacity: **7000.00 psig**

Last Calib.: **2007.07.28**

Time On Btm: **2007.07.28 @ 20:00:48**

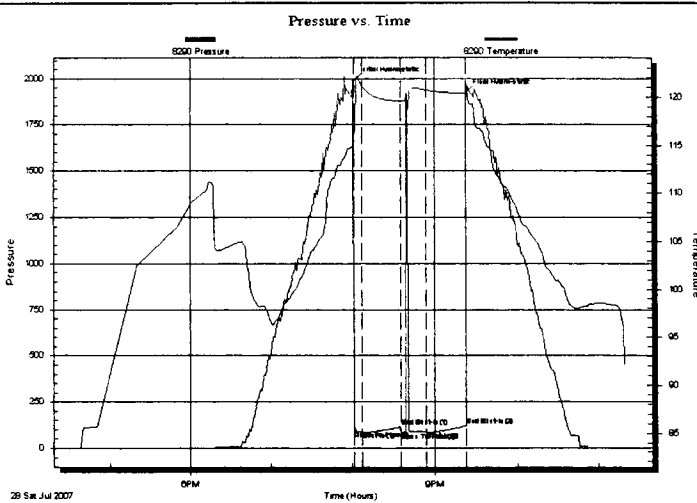
Time Off Btm: **2007.07.28 @ 21:22:48**

TEST COMMENT: **IFP Strong blow built to 8" in 30 sec stayed throughout**

ISI No blow back

FFP No blow - flushed tool - no blow

FSI No blow back



PRESSURE SUMMARY

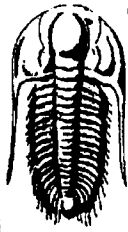
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.98	115.47	Initial Hydro-static
1	45.56	115.91	Open To Flow (1)
7	88.56	121.12	Shut-In(1)
34	113.70	119.60	End Shut-In(1)
35	84.31	119.59	Open To Flow (2)
53	88.92	120.71	Shut-In(2)
82	120.46	120.45	End Shut-In(2)
83	1918.88	121.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 5%O 95%M	0.30
90.00	OCM 20%O 80%M	0.74

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Crawford Oil Co

CBCF #2-32

PO Box 1366
El Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28560

DST#: 2

ATTN: Ted Jochems

Test Start: 2007.07.28 @ 16:37:48

Tool Information

Drill Pipe:	Length: 3819.00 ft	Diameter: 3.82 inches	Volume: 54.14 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: 20000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3949.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3922.00	
Shut In Tool	5.00			3927.00	
Hydraulic tool	5.00			3932.00	
Jars	5.00			3937.00	
Safety Joint	2.00			3939.00	
Packer	5.00			3944.00	28.00 Bottom Of Top Packer
Packer	5.00			3949.00	
Stubb	1.00			3950.00	
Recorder	0.00	8290	inside	3950.00	
Perforations	2.00			3952.00	
Recorder	0.00	3351	inside	3952.00	
Bullnose	3.00			3955.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Crawford Oil Co

CBCF #2-32

PO Box 1366
E Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28560

DST#: 2

ATTN: Ted Jochems

Test Start: 2007.07.28 @ 16:37:48

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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	SOCM 5%O 95%M	0.295
90.00	OCM 20%O 80%M	0.739

Total Length: 150.00 ft

Total Volume: 1.034 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

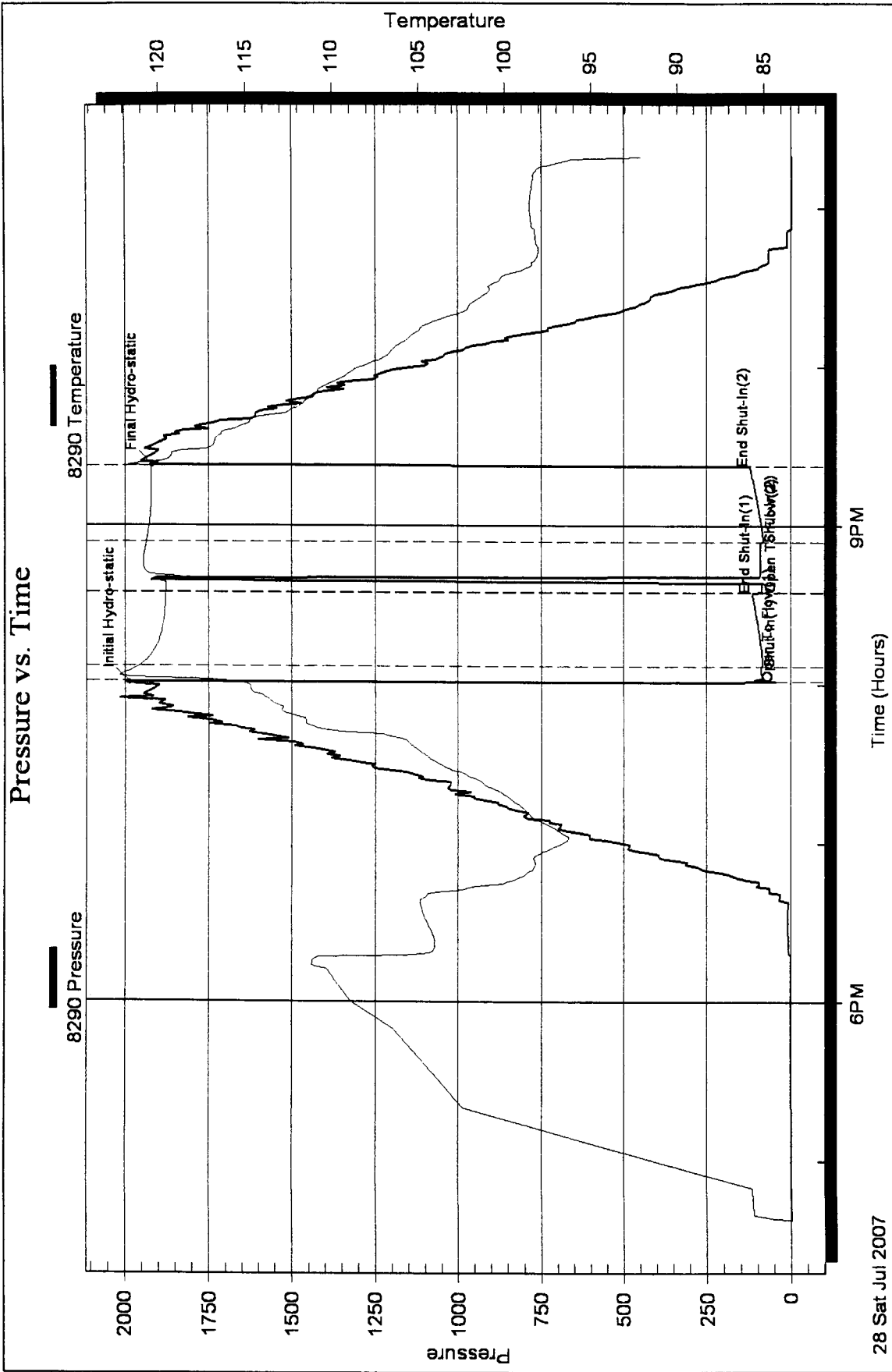
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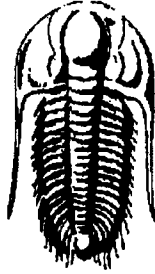
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Crawford Oil Co**

PO Box 1366
El Dorado KS 67042

ATTN: Ted Jochems

32 14 21 Trego KS

CBCF #2-32

Start Date: 2007.07.29 @ 05:00:18

End Date: 2007.07.29 @ 12:12:33

Job Ticket #: 28561 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Crawford Oil Co

CBCF #2-32

32 14 21 Trego KS

DST # 3

Kutina

2007.07.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Crawford Oil Co
PO Box 1366
El Dorado KS 67042
ATTN: Ted Jochens

CBCF #2-32
32 14 21 Trego KS
Job Ticket: 28561 **DST#: 3**
Test Start: 2007.07.29 @ 05:00:18

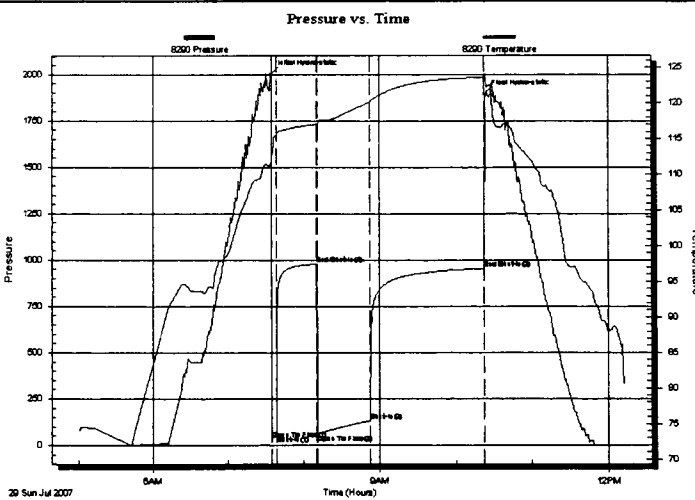
GENERAL INFORMATION:

Formation: **Kutina**
Deviated: **No Whipstock:** ft (KB) Test Type: **Conventional Bottom Hole**
Time Tool Opened: 07:35:18 Tester: **Tyson Flax**
Time Test Ended: 12:12:33 Unit No: **21**

Interval: **3957.00 ft (KB) To 3964.00 ft (KB) (TVD)** Reference Elevations: 2065.00 ft (KB)
Total Depth: **3964.00 ft (KB) (TVD)** 2060.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: 5.00 ft

Serial #: 8290 **Inside**
Press@RunDepth: 132.39 psig @ 3958.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2007.07.29 End Date: 2007.07.29 Last Calib.: 2007.07.29
Start Time: 05:00:20 End Time: 12:12:33 Time On Btm: 2007.07.29 @ 07:34:48
Time Off Btm: 2007.07.29 @ 10:22:48

TEST COMMENT: IFP Werak surface blow built to 2.5 "
ISI Weak surface blow back died in 25 min
FFP BOB in 32 min
FSI Weak surface blow back died in 3.5 min



PRESSURE SUMMARY

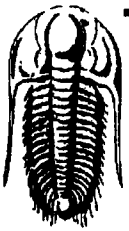
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.74	111.95	Initial Hydro-static
1	29.58	112.39	Open To Flow (1)
4	53.27	115.52	Shut-In(1)
36	978.00	117.01	End Shut-In(1)
37	56.35	116.83	Open To Flow (2)
78	132.39	120.12	Shut-In(2)
168	954.91	123.54	End Shut-In(2)
169	1894.30	124.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 95%W 5%M	1.46
60.00	MW 60%W 40%M	0.85
20.00	MW 20%W 80%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Crawford Oil Co

CBCF #2-32

PO Box 1366
El Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28561

DST#: 3

ATTN: Ted Jochens

Test Start: 2007.07.29 @ 05:00:18

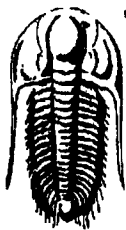
Tool Information

Drill Pipe:	Length: 3821.00 ft	Diameter: 3.82 inches	Volume: 54.16 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: 20000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 54.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3957.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3930.00	
Shut In Tool	5.00			3935.00	
Hydraulic tool	5.00			3940.00	
Jars	5.00			3945.00	
Safety Joint	2.00			3947.00	
Packer	5.00			3952.00	28.00 Bottom Of Top Packer
Packer	5.00			3957.00	
Stubb	1.00			3958.00	
Recorder	0.00	8290	Inside	3958.00	
Perforations	3.00			3961.00	
Recorder	0.00	13401	Inside	3961.00	
Bullnose	3.00			3964.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



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CBCF #2-32

PO Box 1366
E Dorado KS 67042

32 14 21 Trego KS

Job Ticket: 28561

DST#: 3

ATTN: Ted Jochems

Test Start: 2007.07.29 @ 05:00:18

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:

25000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MW 95%W 5%M	1.459
60.00	MW 60%W 40%M	0.851
20.00	MW 20%W 80%M	0.284

Total Length: 260.00 ft

Total Volume: 2.594 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

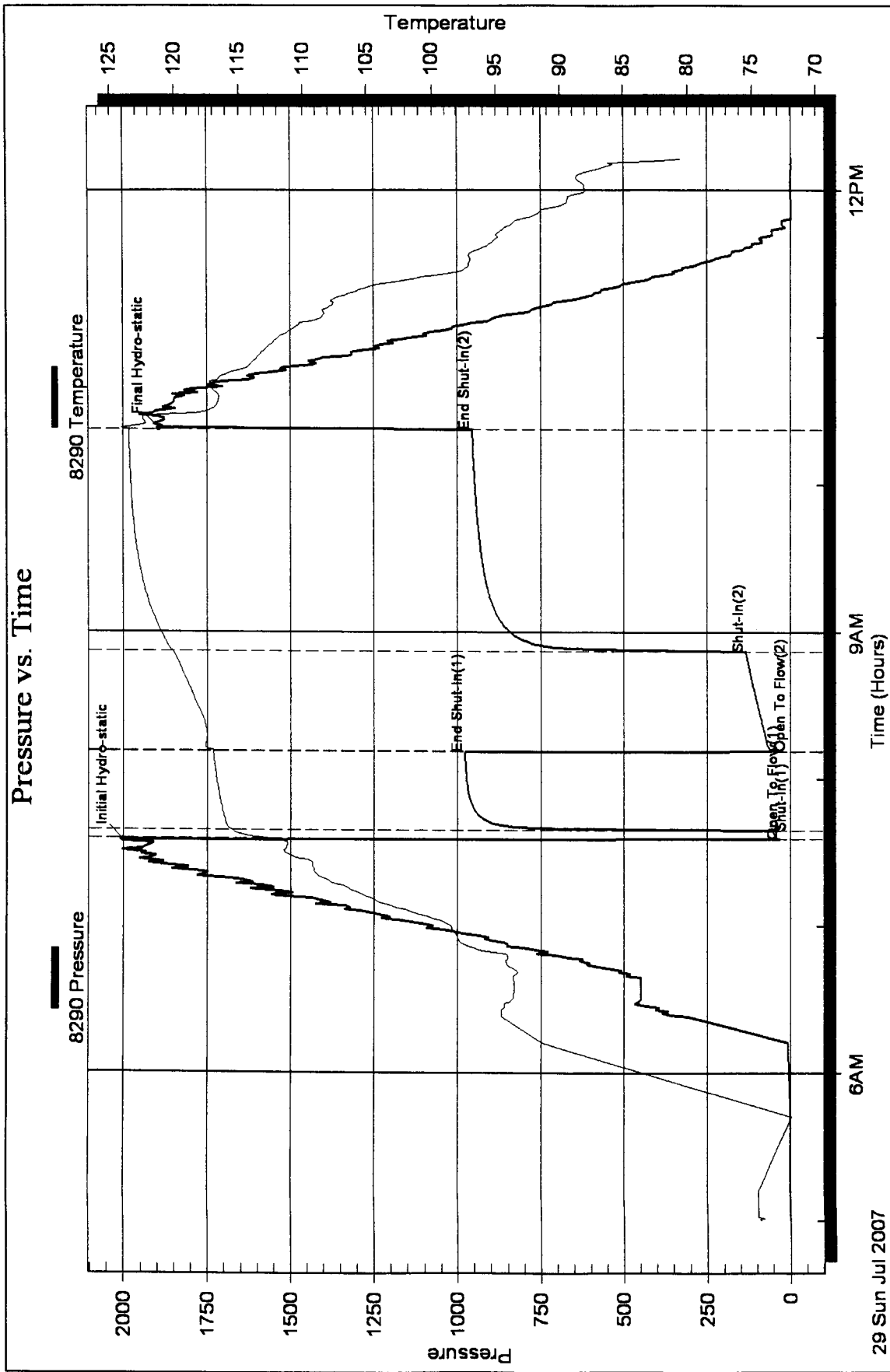
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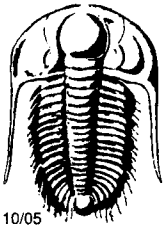
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28559

10450

Test Ticket

Well Name & No. LBCF # 2-32 Test No. 1 Date 7-28-07
 Company Crawford Zone Tested Cherokee
 Address PO. Box 1366 El Dorado, KS 67042 Elevation 2065 KB 2060 GL
 Co. Rep / Geo. Ted Jochems Rig WW #6
 Location: Sec. 32 Twp. 14S Rge. 21W Co. Trego State KS
 Comment: Ted Jochems JV Release date / time: _____

Interval Tested 3919 - 3932 Initial Str Wt./Lbs. 36000 Unseated Str Wt./Lbs. 38000
 Anchor Length 13 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3914 Tool Weight 2500
 Bottom Packer Depth 3919 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3932 Wt. Pipe Run _____ Drill Collar Run 118
 Mud Wt. 9.1 LCM — Vis. 49 WL 7.6 Drill Pipe Size 4 1/2 FH Ft. Run 3788
 Blow Description IFF - weak blow built to 8"
IST - weak blow back died in 9 min
FFP - BOB in 5.5 min
FSI - no blow back

Recovery - Total Feet 465 GIP _____ Ft. in DC 118 Ft. in DP 347
 Rec. 45 Feet of WM %gas _____ %oil _____ %water 40 %mud 60
 Rec. 180 Feet of MW %gas _____ %oil _____ %water 10 %mud 90
 Rec. 240 Feet of Water %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 .23 @ 78 °F Chlorides 27000 ppm Recovery _____ Chlorides 5800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1997</u> PSI		<u>8290</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>413</u> PSI		(depth) <u>3920</u>	Jars <u>X</u> <u>250</u>
(C) First Final Flow Pressure	<u>93</u> PSI		Recorder No. <u>3351</u>	Safety Jt. <u>X</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>290</u> PSI		(depth) <u>3929</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>100</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>226</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>298</u> PSI	Initial Opening <u>3</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1887</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____
		Final Flow <u>30</u>		Ruined Packer _____
		Final Shut-In <u>60</u>		Mileage <u>X</u> <u>67.50</u> <u>54.1</u>
		T-On Location <u>2:15</u>		Sub Total: _____
		T-Started <u>2:40</u>		Std. By _____
		T-Open <u>4:51</u>		Acc. Chg: _____
		T-Pulled <u>6:54</u>		Other: _____
		T-Out <u>8:52</u>		Total: <u>\$1492.50</u>

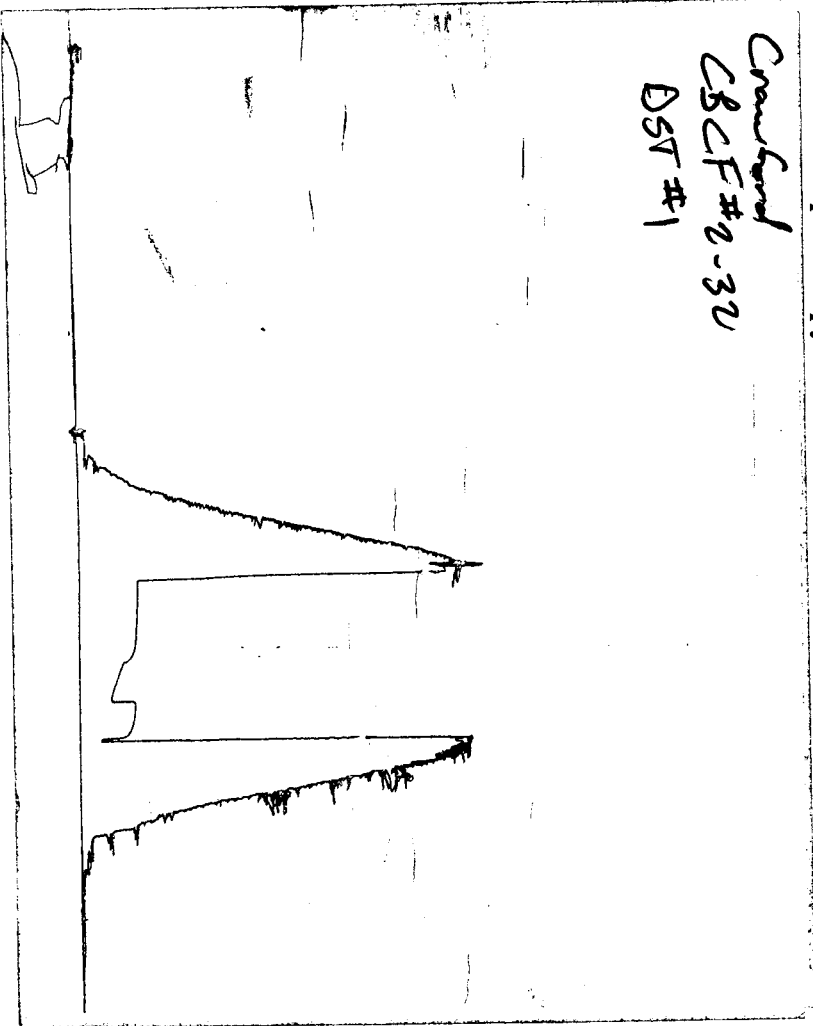
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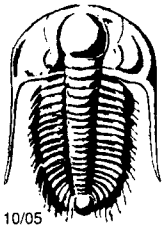
Approved By _____
 Our Representative Ty Fly

CHART PAGE

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

Crowland
CB CF #2-32
DST #1





TRILOBITE TESTING INC.

28560

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. CBCF #2-82 Test No. 2 Date 7-28-07
 Company Crawford Zone Tested Cherokee "E"
 Address PO Box 1366 El Dorado, KS 67042 Elevation 2065 KB 2060 GL
 Co. Rep / Geo. Teal Lockens Rig WW #6
 Location: Sec. 32 Twp. 14S Rge. 21W Co. Trego State KS
 Comment: _____ Release date / time: _____

Interval Tested 3949-3955 Initial Str Wt./Lbs. 36000 Unseated Str Wt./Lbs. 36000
 Anchor Length 6' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3944 Tool Weight 2500
 Bottom Packer Depth 3949 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3955 Wt. Pipe Run _____ Drill Collar Run 118
 Mud Wt. 9.2 LCM _____ Vis. 5 WL _____ Drill Pipe Size 4 1/2 FH Ft. Run 5821
 Blow Description IFP - strong blow built to 8" in 30 sec held there
ISI - no blow back
FFP - no blow - flushed tool - no blow
FSI - no blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>150</u>		<u>118</u>	
Rec. <u>90</u>	Feet of <u>OCM</u>	%gas <u>20</u> %oil	%water <u>80</u> %mud
Rec. <u>60</u>	Feet of <u>SOCM</u>	%gas <u>5</u> %oil	%water <u>95</u> %mud
Rec. _____	Feet of _____	%gas _____%oil	%water _____%mud
Rec. _____	Feet of _____	%gas _____%oil	%water _____%mud
Rec. _____	Feet of _____	%gas _____%oil	%water _____%mud
BHT <u>120</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>5900</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1987</u> PSI		<u>8290</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>46</u> PSI		(depth) <u>3950</u>	Jars <u>X</u> <u>250</u>
(C) First Final Flow Pressure	<u>89</u> PSI		Recorder No. <u>3351</u>	Safety Jt. <u>X</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>114</u> PSI		(depth) <u>3952</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>84</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>89</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>120</u> PSI	Initial Opening <u>5</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1932</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____
		Final Flow <u>15</u>		Ruined Packer <u>X</u> <u>260</u>
		Final Shut-In <u>30</u>		Mileage <u>X</u> <u>67.50</u>
		T-On Location <u>16:15</u>		Sub Total: _____
		T-Started <u>16:37</u>		Std. By _____
		T-Open <u>20:01</u>		Acc. Chg: _____
		T-Pulled <u>21:20</u>		Other: _____
		T-Out <u>23:19</u>		Total: <u>\$1752.50</u>

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Approved By Larry Lockens
 Our Representative [Signature]

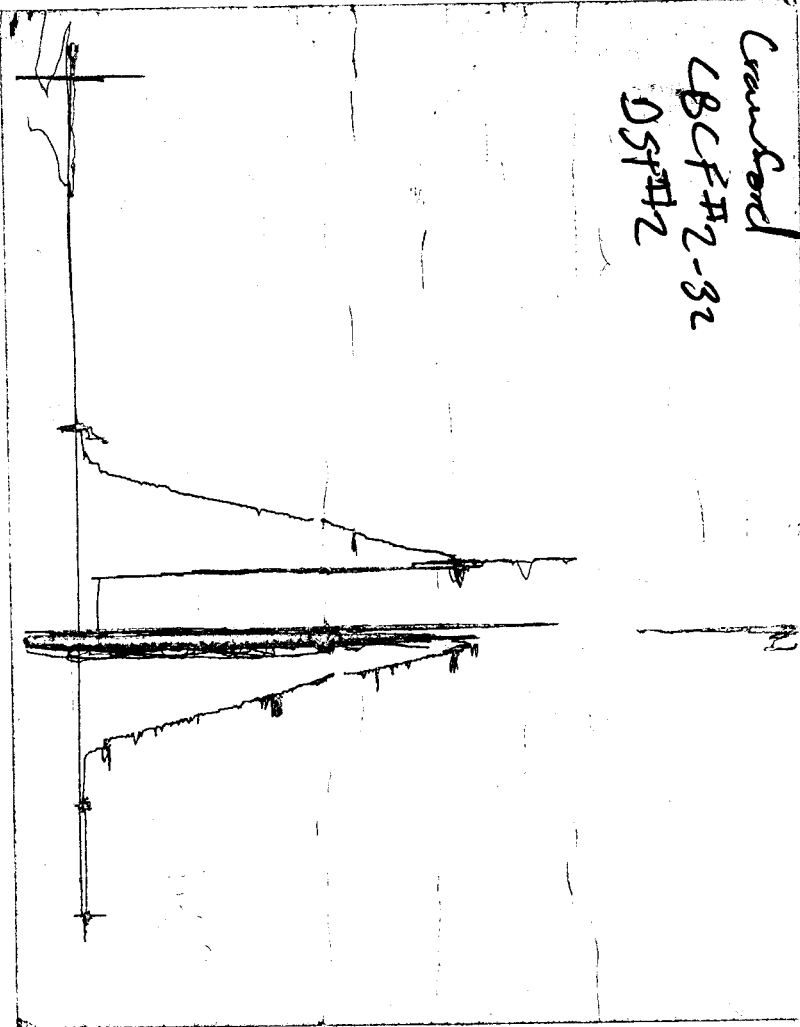
CHART PAGE

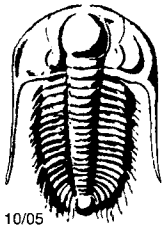
This is a photocopy of the actual AK-1 recorder chart

Canford

BCF #2-32

DSFH2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28561

Test Ticket

Well Name & No. CBCF #2-32 Test No. 3 Date 7-29-07
 Company Crawford Zone Tested Kutina
 Address PO Box 1366 El Dorado, KS 67042 Elevation 2065 KB 2060 GL
 Co. Rep / Geo. Teed Jachens Rig WW#6
 Location: Sec. 32 Twp. 14S Rge. 21W Co. Trego State KS
 Comment: _____ Release date / time: _____

Interval Tested 3999 - 3964 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 40000
 Anchor Length 7 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3952 Tool Weight 2500
 Bottom Packer Depth 3957 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3964 Wt. Pipe Run _____ Drill Collar Run 118
 Mud Wt. 9.2 LCM _____ Vis. 53 WL 8 Drill Pipe Size 4 1/2 FH Ft. Run 3821

Blow Description IFP - weak blow built to 2.5"
ISE - weak surface blow back died in 25min
FFA - weak blow built to
FSE - weak surface blow back died in 3.5min

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>260</u>		<u>119</u>	<u>142</u>
Rec. <u>20</u>	Feet of <u>WM</u>	%gas _____	%oil <u>20%</u> water <u>80%</u> mud
Rec. <u>60</u>	Feet of <u>MW</u>	%gas _____	%oil <u>60%</u> water <u>40%</u> mud
Rec. <u>180</u>	Feet of <u>MW</u>	%gas _____	%oil <u>95%</u> water <u>5%</u> mud
Rec. _____	Feet of _____	%gas _____	%oil _____ water _____ mud
Rec. _____	Feet of _____	%gas _____	%oil _____ water _____ mud

BHT 124 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .26 @ 75 °F Chlorides 25000 ppm Recovery _____ Chlorides 5900 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2000</u> PSI		<u>8290</u>	<u>X</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>30</u> PSI		(depth) <u>3958</u>	Jars <u>X</u> <u>250</u>
(C) First Final Flow Pressure	<u>53</u> PSI		Recorder No. <u>3351</u>	Safety Jt. <u>X</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>978</u> PSI		(depth) <u>3961</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>56</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>132</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>955</u> PSI	Initial Opening <u>3</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1880</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____

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Approved By Larry [Signature]
 Our Representative [Signature]

Final Flow	<u>45</u>	Ruined Packer	_____
Final Shut-In	<u>90</u>	Mileage <u>X</u>	<u>67.50</u>
T-On Location	<u>4:45</u>	Sub Total:	_____
T-Started	<u>5:00</u>	Std. By	_____
T-Open	<u>7:35</u>	Acc. Chg:	_____
T-Pulled	<u>10:22</u>	Other:	_____
T-Out	<u>12:12</u>	Total:	<u>\$1492.50</u>

CHART PAGE

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

Concord
CBCF # 2032
DST # 3

